



Welcome

# AWS Resilience Hub



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# AWS Resilience Hub: Welcome

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# Welcome

AWS Resilience Hub helps you proactively prepare and protect your AWS applications from disruptions. It offers continual resiliency assessment and validation that integrates into your software development lifecycle. This enables you to uncover resiliency weaknesses, ensure recovery time objective (RTO) and recovery point objective (RPO) targets for your applications are met, and resolve issues before they are released into production.

This document was last published on April 18, 2026.

# Actions

The following actions are supported:

- [AcceptResourceGroupingRecommendations](#)
- [AddDraftAppVersionResourceMappings](#)
- [BatchUpdateRecommendationStatus](#)
- [CreateApp](#)
- [CreateAppVersionAppComponent](#)
- [CreateAppVersionResource](#)
- [CreateRecommendationTemplate](#)
- [CreateResiliencyPolicy](#)
- [DeleteApp](#)
- [DeleteAppAssessment](#)
- [DeleteAppInputSource](#)
- [DeleteAppVersionAppComponent](#)
- [DeleteAppVersionResource](#)
- [DeleteRecommendationTemplate](#)
- [DeleteResiliencyPolicy](#)
- [DescribeApp](#)
- [DescribeAppAssessment](#)
- [DescribeAppVersion](#)
- [DescribeAppVersionAppComponent](#)
- [DescribeAppVersionResource](#)
- [DescribeAppVersionResourcesResolutionStatus](#)
- [DescribeAppVersionTemplate](#)
- [DescribeDraftAppVersionResourcesImportStatus](#)
- [DescribeMetricsExport](#)
- [DescribeResiliencyPolicy](#)
- [DescribeResourceGroupingRecommendationTask](#)
- [ImportResourcesToDraftAppVersion](#)

- [ListAlarmRecommendations](#)
- [ListAppAssessmentComplianceDrifts](#)
- [ListAppAssessmentResourceDrifts](#)
- [ListAppAssessments](#)
- [ListAppComponentCompliances](#)
- [ListAppComponentRecommendations](#)
- [ListAppInputSources](#)
- [ListApps](#)
- [ListAppVersionAppComponent](#)
- [ListAppVersionResourceMappings](#)
- [ListAppVersionResources](#)
- [ListAppVersions](#)
- [ListMetrics](#)
- [ListRecommendationTemplates](#)
- [ListResiliencyPolicies](#)
- [ListResourceGroupingRecommendations](#)
- [ListSopRecommendations](#)
- [ListSuggestedResiliencyPolicies](#)
- [ListTagsForResource](#)
- [ListTestRecommendations](#)
- [ListUnsupportedAppVersionResources](#)
- [PublishAppVersion](#)
- [PutDraftAppVersionTemplate](#)
- [RejectResourceGroupingRecommendations](#)
- [RemoveDraftAppVersionResourceMappings](#)
- [ResolveAppVersionResources](#)
- [StartAppAssessment](#)
- [StartMetricsExport](#)
- [StartResourceGroupingRecommendationTask](#)
- [TagResource](#)

- [UntagResource](#)
- [UpdateApp](#)
- [UpdateAppVersion](#)
- [UpdateAppVersionAppComponent](#)
- [UpdateAppVersionResource](#)
- [UpdateResiliencyPolicy](#)

# AcceptResourceGroupingRecommendations

Accepts the resource grouping recommendations suggested by AWS Resilience Hub for your application.

## Request Syntax

```
POST /accept-resource-grouping-recommendations HTTP/1.1
Content-type: application/json

{
  "appArn": "string",
  "entries": [
    {
      "groupingRecommendationId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## entries

List of resource grouping recommendations you want to include in your application.

Type: Array of [AcceptGroupingRecommendationEntry](#) objects

Array Members: Minimum number of 1 item. Maximum number of 30 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "failedEntries": [
    {
      "errorMessage": "string",
      "groupingRecommendationId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

## failedEntries

List of resource grouping recommendations that could not be included in your application.

Type: Array of [FailedGroupingRecommendationEntry](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# AddDraftAppVersionResourceMappings

Adds the source of resource-maps to the draft version of an application. During assessment, AWS Resilience Hub will use these resource-maps to resolve the latest physical ID for each resource in the application template. For more information about different types of resources supported by AWS Resilience Hub and how to add them in your application, see [Step 2: How is your application managed?](#) in the AWS Resilience Hub User Guide.

## Request Syntax

```
POST /add-draft-app-version-resource-mappings HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "resourceMappings": [
    {
      "appRegistryAppName": "string",
      "eksSourceName": "string",
      "logicalStackName": "string",
      "mappingType": "string",
      "physicalResourceId": {
        "awsAccountId": "string",
        "awsRegion": "string",
        "identifier": "string",
        "type": "string"
      },
      "resourceGroupName": "string",
      "resourceName": "string",
      "terraformSourceName": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## [appArn](#)

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## [resourceMappings](#)

Mappings used to map logical resources from the template to physical resources. You can use the mapping type `CFN_STACK` if the application template uses a logical stack name. Or you can map individual resources by using the mapping type `RESOURCE`. We recommend using the mapping type `CFN_STACK` if the application is backed by a CloudFormation stack.

Type: Array of [ResourceMapping](#) objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "resourceMappings": [
    {
      "appRegistryAppName": "string",
      "eksSourceName": "string",
      "logicalStackName": "string",
      "mappingType": "string",
      "physicalResourceId": {
        "awsAccountId": "string",
        "awsRegion": "string",
```

```
        "identifier": "string",
        "type": "string"
    },
    "resourceGroupName": "string",
    "resourceName": "string",
    "terraformSourceName": "string"
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

### resourceMappings

List of sources that are used to map a logical resource from the template to a physical resource. You can use sources such as AWS CloudFormation, Terraform state files, AppRegistry applications, or Amazon EKS.

Type: Array of [ResourceMapping](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Example CloudFormation Request

The following is an example request payload.

#### Sample Request

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-c634cb3edb39",
  "resourceMappings": [
    {
      "logicalStackName": "my-stack-name",
      "mappingType": "CfnStack",
      "physicalResourceId": {
        "identifier": "arn:aws:cloudformation:us-west-2:444455556666:stack/my-stack-name/fe0e1e00-03eb-11ee-8796-02038f8a9691",
        "type": "Arn"
      }
    }
  ]
}
```

```
    }  
  ]  
}
```

## Sample CloudFormation Response

The following is an example response payload.

### Sample Response

```
{  
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-c634cb3edb39",  
  "appVersion": "draft",  
  "resourceMappings": [  
    {  
      "logicalStackName": "my-stack-name",  
      "mappingType": "CfnStack",  
      "physicalResourceId": {  
        "identifier": "arn:aws:cloudformation:us-west-2:444455556666:stack/my-stack-name/fe0e1e00-03eb-11ee-8796-02038f8a9691",  
        "type": "Arn"  
      }  
    }  
  ]  
}
```

## Example Terraform Request

The following is an example request payload.

### Sample Request

```
{  
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-b14dd46d1c3d",  
  "resourceMappings": [  
    {  
      "mappingType": "Terraform",  
      "physicalResourceId": {  
        "awsAccountId": "444455556666",  
        "awsRegion": "us-west-2",  
        "awsStackName": "my-stack-name",  
        "awsStackId": "arn:aws:cloudformation:us-west-2:444455556666:stack/my-stack-name/fe0e1e00-03eb-11ee-8796-02038f8a9691"  
      }  
    }  
  ]  
}
```

```
        "identifier": "s3://my-terraform-bucket/my/path/application-state-
file.tfstate",
        "type": "Native"
    },
}
]
```

## Sample Terraform Response

The following is an example response payload.

### Sample Response

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
  "resourceMappings": [
    {
      "terraformSourceName": "application-state-file.tfstate",
      "mappingType": "Terraform",
      "physicalResourceId": {
        "identifier": "s3://terraform-bucket/web-app/latest/application-state-
file.tfstate",
        "type": "Native",
        "awsRegion": "us-west-2",
        "awsAccountId": "444455556666"
      }
    }
  ]
}
```

## Sample AppRegistry Request

The following is an example request payload.

### Sample Request

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
```

```
"resourceMappings": [  
  {  
    "appRegistryAppName": "MyWebApp",  
    "mappingType": "AppRegistryApp",  
    "physicalResourceId": {  
      "identifier": "arn:aws:servicecatalog:us-west-2:444455556666:/  
applications/123456789012abcdefghijklmnop",  
      "type": "ARN"  
    },  
  },  
]  
}
```

## Sample AppRegistry Response

The following is an example response payload.

### Sample Response

```
{  
  "appArn": "aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-  
b14dd46d1c3d",  
  "resourceMappings": [  
    {  
      "appRegistryAppName": "MyWebApp",  
      "mappingType": "AppRegistryApp",  
      "physicalResourceId": {  
        "identifier": "arn:aws:servicecatalog:us-west-2:444455556666:/  
applications/123456789012abcdefghijklmnop",  
        "type": "Arn"  
      },  
    },  
  ],  
}
```

## Sample Amazon EKS Request

The following is an example request payload.

### Sample Request

```
{
```

```
"appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/98f97a67-228f-40b3-8b2b-29da919c68cc",
  "resourceMappings": [
    {
      "eksSourceName": "my-cluster/my-namespace",
      "mappingType": "EKS",
      "physicalResourceId": {
        "identifier": "arn:aws:eks:us-west-2:444455556666:cluster/my-cluster/my-namespace",
        "type": "Arn"
      }
    }
  ]
}
```

## Sample Amazon EKS Response

The following is an example response payload.

### Sample Response

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/98f97a67-228f-40b3-8b2b-29da919c68cc",
  "resourceMappings": [
    {
      "eksSourceName": "my-cluster/my-namespace",
      "mappingType": "EKS",
      "physicalResourceId": {
        "identifier": "arn:aws:eks:us-west-2:444455556666:cluster/my-cluster/my-namespace",
        "type": "Arn"
      }
    }
  ]
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchUpdateRecommendationStatus

Enables you to include or exclude one or more operational recommendations.

## Request Syntax

```
POST /batch-update-recommendation-status HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "requestEntries": [
    {
      "appComponentId": "string",
      "entryId": "string",
      "excluded": boolean,
      "excludeReason": "string",
      "item": {
        "resourceId": "string",
        "targetAccountId": "string",
        "targetRegion": "string"
      },
      "referenceId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## requestEntries

Defines the list of operational recommendations that need to be included or excluded.

Type: Array of [UpdateRecommendationStatusRequestEntry](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "appArn": "string",
  "failedEntries": [
    {
      "entryId": "string",
      "errorMessage": "string"
    }
  ],
  "successfulEntries": [
    {
      "appComponentId": "string",
      "entryId": "string",
      "excluded": boolean,
      "excludeReason": "string",
      "item": {
        "resourceId": "string",
        "targetAccountId": "string",
        "targetRegion": "string"
      },
      "referenceId": "string"
    }
  ]
}
```

}

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### failedEntries

A list of items with error details about each item, which could not be included or excluded.

Type: Array of [BatchUpdateRecommendationStatusFailedEntry](#) objects

### successfulEntries

A list of items that were included or excluded.

Type: Array of [BatchUpdateRecommendationStatusSuccessfulEntry](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerErrorException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample request

This example illustrates one usage of `BatchUpdateRecommendationStatus`.

```
{
  "appArn": "APP_ARN",
  "requestEntries": [
    {
```

```
"entryId": "entry_num_1",
"referenceId": "s3:alarm:health_4xx_errors_count:2020-04-01",
"item": {
  "resourceId": "a-resource-id",
  "targetAccountId": "123456789012",
  "targetRegion": "us-west-2"
},
"excluded": true,
"excludeReason": "AlreadyImplemented"
},
{
  "entryId": "entry_num_2",
  "referenceId": "s3:alarm:health_total_request_latency:2020-04-01",
  "item": {
    "resourceId": "a-resource-id",
    "targetAccountId": "123456789012",
    "targetRegion": "us-west-2"
  },
  "excluded": true
}
]
}
```

## Sample response

This example illustrates one usage of `BatchUpdateRecommendationStatus`.

```
{
  "appArn": "APP_ARN",
  "successfulEntries": [
    {
      "entryId": "entry_num_2",
      "referenceId": "s3:alarm:health_total_request_latency:2020-04-01",
      "item": {
        "resourceId": "a-resource-id",
        "targetAccountId": "123456789012",
        "targetRegion": "us-west-2"
      },
      "excluded": true
    },
    {
      "entryId": "entry_num_1",
      "referenceId": "s3:alarm:health_4xx_errors_count:2020-04-01",
```

```
    "item": {
      "resourceId": "a-resource-id",
      "targetAccountId": "123456789012",
      "targetRegion": "us-west-2"
    },
    "excluded": true,
    "excludeReason": "AlreadyImplemented"
  }
],
"failedEntries": []
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateApp

Creates an AWS Resilience Hub application. An AWS Resilience Hub application is a collection of AWS resources structured to prevent and recover AWS application disruptions. To describe a AWS Resilience Hub application, you provide an application name, resources from one or more AWS CloudFormation stacks, AWS Resource Groups, Terraform state files, AppRegistry applications, and an appropriate resiliency policy. In addition, you can also add resources that are located on Amazon Elastic Kubernetes Service (Amazon EKS) clusters as optional resources. For more information about the number of resources supported per application, see [Service quotas](#).

After you create an AWS Resilience Hub application, you publish it so that you can run a resiliency assessment on it. You can then use recommendations from the assessment to improve resiliency by running another assessment, comparing results, and then iterating the process until you achieve your goals for recovery time objective (RTO) and recovery point objective (RPO).

## Request Syntax

```
POST /create-app HTTP/1.1
Content-type: application/json

{
  "assessmentSchedule": "string",
  "awsApplicationArn": "string",
  "clientToken": "string",
  "description": "string",
  "eventSubscriptions": [
    {
      "eventType": "string",
      "name": "string",
      "snsTopicArn": "string"
    }
  ],
  "name": "string",
  "permissionModel": {
    "crossAccountRoleArns": [ "string" ],
    "invokerRoleName": "string",
    "type": "string"
  },
  "policyArn": "string",
  "tags": {
    "string" : "string"
  }
}
```

```
}  
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: Disabled | Daily

Required: No

### awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### eventSubscriptions

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports only **Drift detected** and **Scheduled assessment failure** events notification.

Type: Array of [EventSubscription](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### name

Name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### permissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

Type: [PermissionModel](#) object

Required: No

## policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[\x00-\x1f\x22]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "app": {
    "appArn": "string",
```

```
"assessmentSchedule": "string",
"awsApplicationArn": "string",
"complianceStatus": "string",
"creationTime": number,
"description": "string",
"driftStatus": "string",
"eventSubscriptions": [
  {
    "eventType": "string",
    "name": "string",
    "snsTopicArn": "string"
  }
],
"lastAppComplianceEvaluationTime": number,
"lastDriftEvaluationTime": number,
"lastResiliencyScoreEvaluationTime": number,
"name": "string",
"permissionModel": {
  "crossAccountRoleArns": [ "string" ],
  "invokerRoleName": "string",
  "type": "string"
},
"policyArn": "string",
"resiliencyScore": number,
"rpoInSecs": number,
"rtoInSecs": number,
"status": "string",
"tags": {
  "string" : "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [app](#)

The created application returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: [App](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateAppVersionAppComponent

Creates a new AppComponent in the AWS Resilience Hub application.

## Note

This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the PublishAppVersion API.

## Request Syntax

```
POST /create-app-version-app-component HTTP/1.1
Content-type: application/json
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string",
  "clientToken": "string",
  "id": "string",
  "name": "string",
  "type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### additionalInfo

Currently, there is no supported additional information for AppComponents.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_-.-]{0,63}`

Required: No

### id

Identifier of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## name

Name of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## type

Type of AppComponent. For more information about the types of AppComponent, see [Grouping resources in an AppComponent](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "AppComponent": {
    "additionalInfo": {
      "string": [ "string" ]
    },
    "id": "string",
    "name": "string",
    "type": "string"
  },
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## [appArn](#)

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## [appComponent](#)

List of AppComponents that belong to this resource.

Type: [AppComponent](#) object

## [appVersion](#)

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

**InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

**ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAppVersionResource

Adds a resource to the AWS Resilience Hub application and assigns it to the specified AppComponents. If you specify a new AppComponent, AWS Resilience Hub will automatically create the AppComponent.

## Note

- This action has no effect outside AWS Resilience Hub.
- This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the PublishAppVersion API.
- To update application version with new physicalResourceID, you must call ResolveAppVersionResources API.
- AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see [Managing Application Components](#).

## Request Syntax

```
POST /create-app-version-resource HTTP/1.1
Content-type: application/json
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string",
  "appComponents": [ "string" ],
  "awsAccountId": "string",
  "awsRegion": "string",
  "clientToken": "string",
  "logicalResourceId": {
    "eksSourceName": "string",
    "identifier": "string",
    "logicalStackName": "string",
```

```
    "resourceGroupName": "string",
    "terraformSourceName": "string"
  },
  "physicalResourceId": "string",
  "resourceName": "string",
  "resourceType": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### additionalInfo

Currently, there is no supported additional information for resources.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

## appComponents

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: [0-9]{12}

Required: No

## awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: [a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]

Required: No

## clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [A-Za-z0-9\_.-]{0,63}

Required: No

## logicalResourceId

Logical identifier of the resource.

Type: [LogicalResourceId](#) object

Required: Yes

### [physicalResourceId](#)

Physical identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

### [resourceName](#)

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

### [resourceType](#)

Type of resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "physicalResource": {
    "additionalInfo": {
      "string" : [ "string" ]
    }
  }
}
```

```
    },
    "appComponents": [
      {
        "additionalInfo": {
          "string": [ "string" ]
        },
        "id": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "excluded": boolean,
    "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
    },
    "parentResourceName": "string",
    "physicalResourceId": {
      "awsAccountId": "string",
      "awsRegion": "string",
      "identifier": "string",
      "type": "string"
    },
    "resourceName": "string",
    "resourceType": "string",
    "sourceType": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

### physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: [PhysicalResource](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

**InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

**ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateRecommendationTemplate

Creates a new recommendation template for the AWS Resilience Hub application.

## Request Syntax

```
POST /create-recommendation-template HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "bucketName": "string",
  "clientToken": "string",
  "format": "string",
  "name": "string",
  "recommendationIds": [ "string" ],
  "recommendationTypes": [ "string" ],
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### bucketName

The name of the Amazon S3 bucket that will contain the recommendation template.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### format

The format for the recommendation template.

CfnJson

The template is CloudFormation JSON.

CfnYaml

The template is CloudFormation YAML.

Type: String

Valid Values: `CfnYaml` | `CfnJson`

Required: No

### name

The name for the recommendation template.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: Yes

### recommendationIds

Identifiers for the recommendations used to create a recommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}

Required: No

### recommendationTypes

An array of strings that specify the recommendation template type or types.

Alarm

The template is an [AlarmRecommendation](#) template.

Sop

The template is a [SopRecommendation](#) template.

Test

The template is a [TestRecommendation](#) template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: Alarm | Sop | Test

Required: No

### tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "recommendationTemplate": {
    "appArn": "string",
    "assessmentArn": "string",
    "endTime": number,
    "format": "string",
    "message": "string",
    "name": "string",
    "needsReplacements": boolean,
    "recommendationIds": [ "string" ],
    "recommendationTemplateArn": "string",
    "recommendationTypes": [ "string" ],
    "startTime": number,
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "templatesLocation": {
      "bucket": "string",
      "prefix": "string"
    }
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### recommendationTemplate

The newly created recommendation template, returned as an object. This object includes the template's name, format, status, tags, Amazon S3 bucket location, and more.

Type: [RecommendationTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateResiliencyPolicy

Creates a resiliency policy for an application.

## Note

AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

## Request Syntax

```
POST /create-resiliency-policy HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "dataLocationConstraint": "string",
  "policy": {
    "string": {
      "rpoInSecs": number,
      "rtoInSecs": number
    }
  },
  "policyDescription": "string",
  "policyName": "string",
  "tags": {
    "string": "string"
  },
  "tier": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### dataLocationConstraint

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: `AnyLocation` | `SameContinent` | `SameCountry`

Required: No

### policy

The type of resiliency policy to be created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: String to [FailurePolicy](#) object map

Valid Keys: `Software` | `Hardware` | `AZ` | `Region`

Required: Yes

### policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### policyName

Name of the resiliency policy.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[\^\x00-\x1f\x22]*`

Required: No

### tier

The tier for this resiliency policy, ranging from the highest severity (MissionCritical) to lowest (NonCritical).

Type: String

Valid Values: MissionCritical | Critical | Important | CoreServices | NonCritical | NotApplicable

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "policy": {
    "creationTime": number,
    "dataLocationConstraint": "string",
    "estimatedCostTier": "string",
    "policy": {
      "string" : {
        "rpoInSecs": number,
        "rtoInSecs": number
      }
    },
    "policyArn": "string",
    "policyDescription": "string",
    "policyName": "string",
    "tags": {
      "string" : "string"
    },
    "tier": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### policy

The type of resiliency policy that was created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: [ResiliencyPolicy](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample ResilienceHub ResiliencyPolicy

This example illustrates one usage of CreateResiliencyPolicy.

```
AWSTemplateFormatVersion: 2010-09-09
Resources:
  ResiliencyPolicyCFNCanaryStack:
    Type: AWS::ResilienceHub::ResiliencyPolicy
    Properties:
      PolicyName: "ResiliencyPolicyCFNCanaryExample"
      PolicyDescription: 'ResilienceHub TestResiliencyPolicy for CFN'
      Tier: 'MissionCritical'
      Tags:
        TagKey: ""
    Policy:
      Software:
        RtoInSecs: 10
        RpoInSecs: 10
      Hardware:
        RtoInSecs: 10
        RpoInSecs: 10
      AZ:
        RtoInSecs: 10
        RpoInSecs: 10
      Region:
        RtoInSecs: 10
        RpoInSecs: 10
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteApp

Deletes an AWS Resilience Hub application. This is a destructive action that can't be undone.

## Request Syntax

```
POST /delete-app HTTP/1.1
Content-type: application/json

{
  "appArn": "string",
  "clientToken": "string",
  "forceDelete": boolean
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### forceDelete

A boolean option to force the deletion of an AWS Resilience Hub application.

Type: Boolean

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAppAssessment

Deletes an AWS Resilience Hub application assessment. This is a destructive action that can't be undone.

## Request Syntax

```
POST /delete-app-assessment HTTP/1.1
Content-type: application/json

{
  "assessmentArn": "string",
  "clientToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "assessmentArn": "string",
  "assessmentStatus": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [assessmentArn](#)

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### [assessmentStatus](#)

The current status of the assessment for the resiliency policy.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAppInputSource

Deletes the input source and all of its imported resources from the AWS Resilience Hub application.

## Request Syntax

```
POST /delete-app-input-source HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "clientToken": "string",
  "eksSourceClusterNamespace": {
    "eksClusterArn": "string",
    "namespace": "string"
  },
  "sourceArn": "string",
  "terraformSource": {
    "s3StateFileUrl": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### eksSourceClusterNamespace

The namespace on your Amazon Elastic Kubernetes Service cluster that you want to delete from the AWS Resilience Hub application.

Type: [EksSourceClusterNamespace](#) object

Required: No

### sourceArn

The Amazon Resource Name (ARN) of the imported resource you want to remove from the AWS Resilience Hub application. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### terraformSource

The imported Terraform s3 state file you want to remove from the AWS Resilience Hub application.

Type: [TerraformSource](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appInputSource": {
    "eksSourceClusterNamespace": {
      "eksClusterArn": "string",
      "namespace": "string"
    },
    "importType": "string",
    "resourceCount": number,
    "sourceArn": "string",
    "sourceName": "string",
    "terraformSource": {
      "s3StateFileUrl": "string"
    }
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

### appInputSource

Name of the input source from where the application resource is imported from.

Type: [AppInputSource](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAppVersionAppComponent

Deletes an AppComponent from the AWS Resilience Hub application.

## Note

- This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the PublishAppVersion API.
- You will not be able to delete an AppComponent if it has resources associated with it.

## Request Syntax

```
POST /delete-app-version-app-component HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "clientToken": "string",
  "id": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_-.-]{0,63}`

Required: No

### id

Identifier of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "appArn": "string",
  "AppComponent": {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "id": "string",
    "name": "string",
    "type": "string"
  },
}
```

```
"appVersion": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appComponent

List of AppComponents that belong to this resource.

Type: [AppComponent](#) object

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAppVersionResource

Deletes a resource from the AWS Resilience Hub application.

## Note

- You can only delete a manually added resource. To exclude non-manually added resources, use the UpdateAppVersionResource API.
- This action has no effect outside AWS Resilience Hub.
- This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the PublishAppVersion API.

## Request Syntax

```
POST /delete-app-version-resource HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "appArn": "string",
  "awsAccountId": "string",
  "awsRegion": "string",
  "clientToken": "string",
  "logicalResourceId": {
    "eksSourceName": "string",
    "identifier": "string",
    "logicalStackName": "string",
    "resourceGroupName": "string",
    "terraformSourceName": "string"
  },
  "physicalResourceId": "string",
  "resourceName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

### awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

### awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [A-Za-z0-9\_.--]{0,63}

Required: No

### logicalResourceId

Logical identifier of the resource.

Type: [LogicalResourceId](#) object

Required: No

### physicalResourceId

Physical identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

### resourceName

Name of the resource.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "physicalResource": {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "appComponents": [
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "id": "string",
  "name": "string",
  "type": "string"
},
"excluded": boolean,
"logicalResourceId": {
  "eksSourceName": "string",
  "identifier": "string",
  "logicalStackName": "string",
  "resourceGroupName": "string",
  "terraformSourceName": "string"
},
"parentResourceName": "string",
"physicalResourceId": {
  "awsAccountId": "string",
  "awsRegion": "string",
  "identifier": "string",
  "type": "string"
},
"resourceName": "string",
"resourceType": "string",
"sourceType": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

### physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: [PhysicalResource](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteRecommendationTemplate

Deletes a recommendation template. This is a destructive action that can't be undone.

## Request Syntax

```
POST /delete-recommendation-template HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "recommendationTemplateArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [A-Za-z0-9\_.-]{0,63}

Required: No

### recommendationTemplateArn

The Amazon Resource Name (ARN) for a recommendation template.

Type: String

```
Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9]
[A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-
[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}
```

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "recommendationTemplateArn": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [recommendationTemplateArn](#)

The Amazon Resource Name (ARN) for a recommendation template.

Type: String

```
Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9]
[A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-
[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}
```

### [status](#)

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteResiliencyPolicy

Deletes a resiliency policy. This is a destructive action that can't be undone.

## Request Syntax

```
POST /delete-resiliency-policy HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "policyArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

### policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "policyArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeApp

Describes an AWS Resilience Hub application.

## Request Syntax

```
POST /describe-app HTTP/1.1
Content-type: application/json

{
  "appArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9])):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "app": {
    "appArn": "string",
    "assessmentSchedule": "string",
    "awsApplicationArn": "string",
    "complianceStatus": "string",
    "creationTime": number,
    "description": "string",
    "driftStatus": "string",
    "eventSubscriptions": [
      {
        "eventType": "string",
        "name": "string",
        "snsTopicArn": "string"
      }
    ],
    "lastAppComplianceEvaluationTime": number,
    "lastDriftEvaluationTime": number,
    "lastResiliencyScoreEvaluationTime": number,
    "name": "string",
    "permissionModel": {
      "crossAccountRoleArns": [ "string" ],
      "invokerRoleName": "string",
      "type": "string"
    },
    "policyArn": "string",
    "resiliencyScore": number,
    "rpoInSecs": number,
    "rtoInSecs": number,
    "status": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## [app](#)

The specified application, returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: [App](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppAssessment

Describes an assessment for an AWS Resilience Hub application.

## Request Syntax

```
POST /describe-app-assessment HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "assessment": {
    "appArn": "string",
    "appVersion": "string",
    "assessmentArn": "string",
    "assessmentName": "string",
    "assessmentStatus": "string",
    "compliance": {
      "string": {
        "achievableRpoInSecs": number,
        "achievableRtoInSecs": number,
        "complianceStatus": "string",
        "currentRpoInSecs": number,
        "currentRtoInSecs": number,
        "message": "string",
        "rpoDescription": "string",
        "rpoReferenceId": "string",
        "rtoDescription": "string",
        "rtoReferenceId": "string"
      }
    }
  },
  "complianceStatus": "string",
  "cost": {
    "amount": number,
    "currency": "string",
    "frequency": "string"
  },
  "driftStatus": "string",
  "endTime": number,
  "invoker": "string",
  "message": "string",
  "policy": {
    "creationTime": number,
    "dataLocationConstraint": "string",
    "estimatedCostTier": "string",
    "policy": {
      "string": {
        "rpoInSecs": number,
        "rtoInSecs": number
      }
    }
  },
  "policyArn": "string",
  "policyDescription": "string",
```

```
    "policyName": "string",
    "tags": {
      "string" : "string"
    },
    "tier": "string"
  },
  "resiliencyScore": {
    "componentScore": {
      "string" : {
        "excludedCount": number,
        "outstandingCount": number,
        "possibleScore": number,
        "score": number
      }
    },
    "disruptionScore": {
      "string" : number
    },
    "score": number
  },
  "resourceErrorsDetails": {
    "hasMoreErrors": boolean,
    "resourceErrors": [
      {
        "logicalResourceId": "string",
        "physicalResourceId": "string",
        "reason": "string"
      }
    ]
  },
  "startTime": number,
  "summary": {
    "riskRecommendations": [
      {
        "appComponents": [ "string" ],
        "recommendation": "string",
        "risk": "string"
      }
    ],
    "summary": "string"
  },
  "tags": {
    "string" : "string"
  },
}
```

```
    "versionName": "string"  
  }  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### assessment

The assessment for an AWS Resilience Hub application, returned as an object. This object includes Amazon Resource Names (ARNs), compliance information, compliance status, cost, messages, resiliency scores, and more.

Type: [AppAssessment](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

## resourceType

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppVersion

Describes the AWS Resilience Hub application version.

## Request Syntax

```
POST /describe-app-version HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: \S{1,50}

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string",
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

#### Note

Currently, this parameter supports only failover region and account.

Type: String to array of strings map

Key Pattern: \S{1,128}

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

## appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

## appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

## resourceType

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppVersionAppComponent

Describes an AppComponent in the AWS Resilience Hub application.

## Request Syntax

```
POST /describe-app-version-app-component HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "id": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### id

Identifier of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "AppComponent": {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "id": "string",
    "name": "string",
    "type": "string"
  },
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## [appComponent](#)

List of AppComponents that belong to this resource.

Type: [AppComponent](#) object

## [appVersion](#)

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppVersionResource

Describes a resource of the AWS Resilience Hub application.

## Note

This API accepts only one of the following parameters to describe the resource:

- `resourceName`
- `logicalResourceId`
- `physicalResourceId` (Along with `physicalResourceId`, you can also provide `awsAccountId`, and `awsRegion`)

## Request Syntax

```
POST /describe-app-version-resource HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "awsAccountId": "string",
  "awsRegion": "string",
  "logicalResourceId": {
    "eksSourceName": "string",
    "identifier": "string",
    "logicalStackName": "string",
    "resourceGroupName": "string",
    "terraformSourceName": "string"
  },
  "physicalResourceId": "string",
  "resourceName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

### awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

### logicalResourceId

Logical identifier of the resource.

Type: [LogicalResourceId](#) object

Required: No

### physicalResourceId

Physical identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

### resourceName

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "physicalResource": {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "appComponents": [
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "id": "string",
  "name": "string",
  "type": "string"
},
"excluded": boolean,
"logicalResourceId": {
  "eksSourceName": "string",
  "identifier": "string",
  "logicalStackName": "string",
  "resourceGroupName": "string",
  "terraformSourceName": "string"
},
"parentResourceName": "string",
"physicalResourceId": {
  "awsAccountId": "string",
  "awsRegion": "string",
  "identifier": "string",
  "type": "string"
},
"resourceName": "string",
"resourceType": "string",
"sourceType": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

### physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: [PhysicalResource](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppVersionResourcesResolutionStatus

Returns the resolution status for the specified resolution identifier for an application version. If `resolutionId` is not specified, the current resolution status is returned.

## Request Syntax

```
POST /describe-app-version-resources-resolution-status HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "resolutionId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "errorMessage": "string",
  "resolutionId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

### errorMessage

The returned error message for the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

### resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### status

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAppVersionTemplate

Describes details about an AWS Resilience Hub application.

## Request Syntax

```
POST /describe-app-version-template HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appTemplateBody": "string",
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)| (gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appTemplateBody

A JSON string that provides information about your application structure. To learn more about the `appTemplateBody` template, see the sample template provided in the *Examples* section.

The `appTemplateBody` JSON string has the following structure:

- **resources**

The list of logical resources that must be included in the AWS Resilience Hub application.

Type: Array

**Note**

Don't add the resources that you want to exclude.

Each resources array item includes the following fields:

- *logicalResourceId*

Logical identifier of the resource.

Type: Object

Each logicalResourceId object includes the following fields:

- *identifier*

Identifier of the resource.

Type: String

- *logicalStackName*

The name of the AWS CloudFormation stack this resource belongs to.

Type: String

- *resourceGroupName*

The name of the resource group this resource belongs to.

Type: String

- *terraformSourceName*

The name of the Terraform S3 state file this resource belongs to.

Type: String

- *eksSourceName*

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

**Note**

This parameter accepts values in "eks-cluster/namespace" format.

Type: String

- *type*

The type of resource.

Type: string

- *name*

The name of the resource.

Type: String

- `additionalInfo`

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

**Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

- **appComponents**

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array

Each `appComponents` array item includes the following fields:

- **name**

Name of the AppComponent.

Type: String

- **type**

Type of AppComponent. For more information about the types of AppComponent, see [Grouping resources in an AppComponent](#).

Type: String

- **resourceNames**

The list of included resources that are assigned to the AppComponent.

Type: Array of strings

- **additionalInfo**

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

 **Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

- **excludedResources**

The list of logical resource identifiers to be excluded from the application.

Type: Array

 **Note**

Don't add the resources that you want to include.

Each `excludedResources` array item includes the following fields:

- `logicalResourceIds`

Logical identifier of the resource.

Type: Object

 **Note**

You can configure only one of the following fields:

- `logicalStackName`
- `resourceGroupName`
- `terraformSourceName`
- `eksSourceName`

Each `logicalResourceIds` object includes the following fields:

- `identifier`

Identifier of the resource.

Type: String

- `logicalStackName`

The name of the AWS CloudFormation stack this resource belongs to.

Type: String

- `resourceGroupName`

The name of the resource group this resource belongs to.

Type: String


- `terraformSourceName`

The name of the Terraform S3 state file this resource belongs to.

Type: String

- `eksSourceName`

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

 **Note**

This parameter accepts values in "eks-cluster/namespace" format.


Type: String

- **version**

AWS Resilience Hub application version.

- `additionalInfo`

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

 **Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}"

Type: String

Length Constraints: Minimum length of 0. Maximum length of 409600.

Pattern: `[\w\s:,-\.'\{\}\[\]]:"\\"]+`

### [appVersion](#)

The version of the application.

Type: String

Pattern: \S{1,50}

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample appTemplateBody template

This example illustrates one usage of DescribeAppVersionTemplate.

```
{
  "resources": [{
    "logicalResourceId": {
      "identifier": "testResourceID1",
      "logicalStackName": "testResourceStack1",
      "resourceGroupName": null
    },
    "type": "AWS::RDS::DBInstance",
    "name": "testResourceName"
  }],
  "appComponents": [{
    "name": "testappcomponent-test",
    "type": "AWS::ResilienceHub::AppComponent",
    "resourceNames": [
      "testResourceName"
    ]
  },
  {
    "name": "testappcommon",
    "type": "AWS::ResilienceHub::AppComponent",
    "resourceNames": "[testResourceName]"
  }
],
  "excludedResources": {
    "logicalResourceIds": [{
      "identifier": "testResourceID2",
      "logicalStackName": "testResourceStack2",
      "resourceGroupName": ""
    }]
  },
  "version": 2.0
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeDraftAppVersionResourcesImportStatus

Describes the status of importing resources to an application version.

## Note

If you get a 404 error with `ResourceImportStatusNotFoundAppMetadataException`, you must call `importResourcesToDraftAppVersion` after creating the application and before calling `describeDraftAppVersionResourcesImportStatus` to obtain the status.

## Request Syntax

```
POST /describe-draft-app-version-resources-import-status HTTP/1.1
Content-type: application/json

{
  "appArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "errorDetails": [
    {
      "errorMessage": "string"
    }
  ],
  "errorMessage": "string",
  "status": "string",
  "statusChangeTime": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_.-]{0,1023}

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

### errorDetails

List of errors that were encountered while importing resources.

Type: Array of [ErrorDetail](#) objects

### errorMessage

The error message returned for the resource request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

### status

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

### statusChangeTime

The time when the status last changed.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerErrorException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeMetricsExport

Describes the metrics of the application configuration being exported.

## Request Syntax

```
POST /describe-metrics-export HTTP/1.1
Content-type: application/json
```

```
{
  "metricsExportId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [metricsExportId](#)

Identifier of the metrics export task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "errorMessage": "string",
  "exportLocation": {
    "bucket": "string",
    "prefix": "string"
  }
}
```

```
  },  
  "metricsExportId": "string",  
  "status": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errorMessage

Explains the error that occurred while exporting the metrics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

### exportLocation

Specifies the name of the Amazon S3 bucket where the exported metrics is stored.

Type: [S3Location](#) object

### metricsExportId

Identifier for the metrics export task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### status

Indicates the status of the metrics export task.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample Request

The following is an example request payload.

#### Sample Request

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691"
}
```

### Sample Response

The following is an example response payload.

#### Sample Response

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691",
  "status": "Success",
  "exportLocation": {
    "bucket": "my-bucket-name",
    "prefix": "resiliencehub-metrics/2024-11-14/fe0e1e00-03eb-11ee-8796-02038f8a9691"
  }
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeResiliencyPolicy

Describes a specified resiliency policy for an AWS Resilience Hub application. The returned policy object includes creation time, data location constraints, the Amazon Resource Name (ARN) for the policy, tags, tier, and more.

## Request Syntax

```
POST /describe-resiliency-policy HTTP/1.1
Content-type: application/json

{
  "policyArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9: _/+.-]{0,1023}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "policy": {
    "creationTime": number,
    "dataLocationConstraint": "string",
    "estimatedCostTier": "string",
    "policy": {
      "string" : {
        "rpoInSecs": number,
        "rtoInSecs": number
      }
    },
    "policyArn": "string",
    "policyDescription": "string",
    "policyName": "string",
    "tags": {
      "string" : "string"
    },
    "tier": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### policy

Information about the specific resiliency policy, returned as an object. This object includes creation time, data location constraints, its name, description, tags, the recovery time objective (RTO) and recovery point objective (RPO) in seconds, and more.

Type: [ResiliencyPolicy](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeResourceGroupingRecommendationTask

Describes the resource grouping recommendation tasks run by AWS Resilience Hub for your application.

## Request Syntax

```
POST /describe-resource-grouping-recommendation-task HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "groupingId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### groupingId

Identifier of the grouping recommendation task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "errorMessage": "string",
  "groupingId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errorMessage

Error that occurred while generating a grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

### groupingId

Identifier of the grouping recommendation task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### status

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ImportResourcesToDraftAppVersion

Imports resources to AWS Resilience Hub application draft version from different input sources. For more information about the input sources supported by AWS Resilience Hub, see [Discover the structure and describe your Resilience Hub application](#).

## Request Syntax

```
POST /import-resources-to-draft-app-version HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "eksSources": [
    {
      "eksClusterArn": "string",
      "namespaces": [ "string" ]
    }
  ],
  "importStrategy": "string",
  "sourceArns": [ "string" ],
  "terraformSources": [
    {
      "s3StateFileUrl": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [appArn](#)

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### [eksSources](#)

The input sources of the Amazon Elastic Kubernetes Service resources you need to import.

Type: Array of [EksSource](#) objects

Required: No

### [importStrategy](#)

The import strategy you would like to set to import resources into AWS Resilience Hub application.

Type: String

Valid Values: `AddOnly` | `ReplaceAll`

Required: No

### [sourceArns](#)

The Amazon Resource Names (ARNs) for the resources.

Type: Array of strings

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### [terraformSources](#)

A list of terraform file s3 URLs you need to import.

Type: Array of [TerraformSource](#) objects

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "eksSources": [
    {
      "eksClusterArn": "string",
      "namespaces": [ "string " ]
    }
  ],
  "sourceArns": [ "string " ],
  "status": "string",
  "terraformSources": [
    {
      "s3StateFileUrl": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## [appVersion](#)

The version of the application.

Type: String

Pattern: `\S{1,50}`

## [eksSources](#)

The input sources of the Amazon Elastic Kubernetes Service resources you have imported.

Type: Array of [EksSource](#) objects

## [sourceArns](#)

The Amazon Resource Names (ARNs) for the resources you have imported.

Type: Array of strings

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## [status](#)

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## [terraformSources](#)

A list of terraform file s3 URLs you have imported.

Type: Array of [TerraformSource](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAlarmRecommendations

Lists the alarm recommendations for an AWS Resilience Hub application.

## Request Syntax

```
POST /list-alarm-recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "alarmRecommendations": [
    {
      "appComponentName": "string",
      "appComponentNames": [ "string" ],
      "description": "string",
      "items": [
        {
          "alreadyImplemented": boolean,
          "discoveredAlarm": {
            "alarmArn": "string",
            "source": "string"
          },
          "excluded": boolean,
          "excludeReason": "string",
          "latestDiscoveredExperiment": {
            "experimentArn": "string",
```

```
        "experimentTemplateId": "string"
    },
    "resourceId": "string",
    "targetAccountId": "string",
    "targetRegion": "string"
  }
],
"name": "string",
"prerequisite": "string",
"recommendationId": "string",
"recommendationStatus": "string",
"referenceId": "string",
"type": "string"
}
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### alarmRecommendations

The alarm recommendations for an AWS Resilience Hub application, returned as an object. This object includes AppComponent names, descriptions, information about whether a recommendation has already been implemented or not, prerequisites, and more.

Type: Array of [AlarmRecommendation](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppAssessmentComplianceDrifts

List of compliance drifts that were detected while running an assessment.

## Request Syntax

```
POST /list-app-assessment-compliance-drifts HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

### maxResults

Maximum number of compliance drifts requested.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "complianceDrifts": [
    {
      "actualReferenceId": "string",
      "actualValue": {
        "string": {
          "achievableRpoInSecs": number,
          "achievableRtoInSecs": number,
          "complianceStatus": "string",
          "currentRpoInSecs": number,
          "currentRtoInSecs": number,
          "message": "string",
          "rpoDescription": "string",
          "rpoReferenceId": "string",
          "rtoDescription": "string",
          "rtoReferenceId": "string"
        }
      }
    },
    "appId": "string",
    "appVersion": "string",
    "diffType": "string",
    "driftType": "string",
    "entityId": "string",
    "entityType": "string",
    "expectedReferenceId": "string",
```

```
    "expectedValue": {
      "string": {
        "achievableRpoInSecs": number,
        "achievableRtoInSecs": number,
        "complianceStatus": "string",
        "currentRpoInSecs": number,
        "currentRtoInSecs": number,
        "message": "string",
        "rpoDescription": "string",
        "rpoReferenceId": "string",
        "rtoDescription": "string",
        "rtoReferenceId": "string"
      }
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### complianceDrifts

Indicates compliance drifts (recovery time objective (RTO) and recovery point objective (RPO)) detected for an assessed entity.

Type: Array of [ComplianceDrift](#) objects

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppAssessmentResourceDrifts

List of resource drifts that were detected while running an assessment.

## Request Syntax

```
POST /list-app-assessment-resource-drifts HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of drift results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourceDrifts": [
    {
      "appArn": "string",
      "appVersion": "string",
      "diffType": "string",
      "referenceId": "string",
      "resourceIdentifier": {
        "logicalResourceId": {
          "eksSourceName": "string",
          "identifier": "string",
          "logicalStackName": "string",
          "resourceGroupName": "string",
          "terraformSourceName": "string"
        }
      }
    }
  ],
}
```

```
    "resourceType": "string"  
  }  
}  
]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

### resourceDrifts

Indicates all the resource drifts detected for an assessed entity.

Type: Array of [ResourceDrift](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppAssessments

Lists the assessments for an AWS Resilience Hub application. You can use request parameters to refine the results for the response object.

## Request Syntax

```
GET /list-app-assessments?  
appArn=appArn&assessmentName=assessmentName&assessmentStatus=assessmentStatus&complianceStatus=  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### assessmentName

The name for the assessment.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

### assessmentStatus

The current status of the assessment for the resiliency policy.

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Valid Values: Pending | InProgress | Failed | Success

### complianceStatus

The current status of compliance for the resiliency policy.

Valid Values: PolicyBreached | PolicyMet | NotApplicable | MissingPolicy

### invoker

Specifies the entity that invoked a specific assessment, either a User or the System.

Valid Values: User | System

### maxResults

Maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: \S{1,2000}

### reverseOrder

The default is to sort by ascending **startTime**. To sort by descending **startTime**, set reverseOrder to true.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "assessmentSummaries": [
    {
      "appArn": "string",
      "appVersion": "string",
      "assessmentArn": "string",
      "assessmentName": "string",
      "assessmentStatus": "string",
```

```
    "complianceStatus": "string",
    "cost": {
      "amount": number,
      "currency": "string",
      "frequency": "string"
    },
    "driftStatus": "string",
    "endTime": number,
    "invoker": "string",
    "message": "string",
    "resiliencyScore": number,
    "startTime": number,
    "versionName": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### assessmentSummaries

The summaries for the specified assessments, returned as an object. This object includes application versions, associated Amazon Resource Numbers (ARNs), cost, messages, resiliency scores, and more.

Type: Array of [AppAssessmentSummary](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppComponentCompliances

Lists the compliances for an AWS Resilience Hub AppComponent.

## Request Syntax

```
POST /list-app-component-compliances HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "componentCompliances": [
    {
      "appComponentName": "string",
      "compliance": {
        "string": {
          "achievableRpoInSecs": number,
          "achievableRtoInSecs": number,
          "complianceStatus": "string",
          "currentRpoInSecs": number,
          "currentRtoInSecs": number,
          "message": "string",
          "rpoDescription": "string",
          "rpoReferenceId": "string",
          "rtoDescription": "string",
          "rtoReferenceId": "string"
        }
      }
    }
  ]
}
```

```
    },
    "cost": {
      "amount": number,
      "currency": "string",
      "frequency": "string"
    },
    "message": "string",
    "resiliencyScore": {
      "componentScore": {
        "string" : {
          "excludedCount": number,
          "outstandingCount": number,
          "possibleScore": number,
          "score": number
        }
      },
      "disruptionScore": {
        "string" : number
      },
      "score": number
    },
    "status": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### componentCompliances

The compliances for an AWS Resilience Hub AppComponent, returned as an object. This object contains the names of the AppComponents, compliances, costs, resiliency scores, outage scores, and more.

Type: Array of [AppComponentCompliance](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppComponentRecommendations

Lists the recommendations for an AWS Resilience Hub AppComponent.

## Request Syntax

```
POST /list-app-component-recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "componentRecommendations": [
    {
      "appComponentName": "string",
      "configRecommendations": [
        {
          "appComponentName": "string",
          "compliance": {
            "string": {
              "achievableRpoInSecs": number,
              "achievableRtoInSecs": number,
              "complianceStatus": "string",
              "currentRpoInSecs": number,
              "currentRtoInSecs": number,
              "message": "string",
              "rpoDescription": "string",
              "rpoReferenceId": "string",
```

```

        "rtoDescription": "string",
        "rtoReferenceId": "string"
    }
},
"cost": {
    "amount": number,
    "currency": "string",
    "frequency": "string"
},
"description": "string",
"haArchitecture": "string",
"name": "string",
"optimizationType": "string",
"recommendationCompliance": {
    "string" : {
        "expectedComplianceStatus": "string",
        "expectedRpoDescription": "string",
        "expectedRpoInSecs": number,
        "expectedRtoDescription": "string",
        "expectedRtoInSecs": number
    }
},
"referenceId": "string",
"suggestedChanges": [ "string" ]
}
],
"recommendationStatus": "string"
}
],
"nextToken": "string"
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### componentRecommendations

The recommendations for an AWS Resilience Hub AppComponent, returned as an object. This object contains the names of the AppComponents, configuration recommendations, and recommendation statuses.

Type: Array of [ComponentRecommendation](#) objects

### [nextToken](#)

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppInputSources

Lists all the input sources of the AWS Resilience Hub application. For more information about the input sources supported by AWS Resilience Hub, see [Discover the structure and describe your Resilience Hub application](#).

## Request Syntax

```
POST /list-app-input-sources HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [appArn](#)

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

## appVersion

AWS Resilience Hub application version.

Type: String

Pattern: \S{1,50}

Required: Yes

## maxResults

Maximum number of input sources to be displayed per AWS Resilience Hub application.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: \S{1,2000}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appInputSources": [
    {
      "eksSourceClusterNamespace": {
        "eksClusterArn": "string",
        "namespace": "string"
      },
      "importType": "string",
```

```
    "resourceCount": number,
    "sourceArn": "string",
    "sourceName": "string",
    "terraformSource": {
      "s3StateFileUrl": "string"
    }
  },
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appInputSources

The list of AWS Resilience Hub application input sources.

Type: Array of [AppInputSource](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerErrorException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListApps

Lists your AWS Resilience Hub applications.

## Note

You can filter applications using only one filter at a time or without using any filter. If you try to filter applications using multiple filters, you will get the following error:  
An error occurred (ValidationException) when calling the ListApps operation: Only one filter is supported for this operation.

## Request Syntax

```
GET /list-apps?  
appArn=appArn&awsApplicationArn=awsApplicationArn&fromLastAssessmentTime=fromLastAssessmentTime  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### fromLastAssessmentTime

Lower limit of the range that is used to filter applications based on their last assessment times.

### maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

The name for the one of the listed applications.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

### nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

### reverseOrder

The application list is sorted based on the values of `lastAppComplianceEvaluationTime` field. By default, application list is sorted in ascending order. To sort the application list in descending order, set this field to `True`.

### toLastAssessmentTime

Upper limit of the range that is used to filter the applications based on their last assessment times.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "appSummaries": [
    {
      "appArn": "string",
      "assessmentSchedule": "string",
      "awsApplicationArn": "string",
      "complianceStatus": "string",
      "creationTime": number,
      "description": "string",
      "driftStatus": "string",
      "lastAppComplianceEvaluationTime": number,
      "name": "string",
      "resiliencyScore": number,
      "rpoInSecs": number,
      "rtoInSecs": number,
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appSummaries

Summaries for the AWS Resilience Hub application.

Type: Array of [AppSummary](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppVersionAppComponents

Lists all the AppComponents in the AWS Resilience Hub application.

## Request Syntax

```
POST /list-app-version-app-components HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

Version of the AppComponent.

Type: String

Pattern: \S{1,50}

Required: Yes

### maxResults

Maximum number of AppComponents to be displayed per AWS Resilience Hub application version.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: \S{1,2000}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appComponents": [
    {
      "additionalInfo": {
        "string" : [ "string" ]
      },
      "id": "string",
      "name": "string",
      "type": "string"
    }
  ]
}
```

```
],  
  "appVersion": "string",  
  "nextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

### appComponents

Defines an AppComponent.

Type: Array of [AppComponent](#) objects

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppVersionResourceMappings

Lists how the resources in an application version are mapped/sourced from. Mappings can be physical resource identifiers, CloudFormation stacks, resource-groups, or an application registry app.

## Request Syntax

```
POST /list-app-version-resource-mappings HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## appVersion

The version of the application.

Type: String

Pattern: \S{1,50}

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: \S{1,2000}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resourceMappings": [
    {
      "appRegistryAppName": "string",
```

```
    "eksSourceName": "string",
    "logicalStackName": "string",
    "mappingType": "string",
    "physicalResourceId": {
      "awsAccountId": "string",
      "awsRegion": "string",
      "identifier": "string",
      "type": "string"
    },
    "resourceGroupName": "string",
    "resourceName": "string",
    "terraformSourceName": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### resourceMappings

Mappings used to map logical resources from the template to physical resources. You can use the mapping type `CFN_STACK` if the application template uses a logical stack name. Or you can map individual resources by using the mapping type `RESOURCE`. We recommend using the mapping type `CFN_STACK` if the application is backed by a CloudFormation stack.

Type: Array of [ResourceMapping](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppVersionResources

Lists all the resources in an AWS Resilience Hub application.

## Request Syntax

```
POST /list-app-version-resources HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "maxResults": number,
  "nextToken": "string",
  "resolutionId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_.-]{0,1023}

Required: Yes

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

### resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
```

```

"physicalResources": [
  {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "appComponents": [
      {
        "additionalInfo": {
          "string" : [ "string" ]
        },
        "id": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "excluded": boolean,
    "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
    },
    "parentResourceName": "string",
    "physicalResourceId": {
      "awsAccountId": "string",
      "awsRegion": "string",
      "identifier": "string",
      "type": "string"
    },
    "resourceName": "string",
    "resourceType": "string",
    "sourceType": "string"
  }
],
"resolutionId": "string"
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## physicalResources

The physical resources in the application version.

Type: Array of [PhysicalResource](#) objects

## resolutionId

The ID for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

**InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

**ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAppVersions

Lists the different versions for the AWS Resilience Hub applications.

## Request Syntax

```
POST /list-app-versions HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "endTime": number,
  "maxResults": number,
  "nextToken": "string",
  "startTime": number
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_/+.-]{0,1023}

Required: Yes

### endTime

Upper limit of the time range to filter the application versions.

Type: Timestamp

Required: No

### maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

### startTime

Lower limit of the time range to filter the application versions.

Type: Timestamp

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appVersions": [
    {
      "appVersion": "string",
```

```
    "creationTime": number,
    "identifier": number,
    "versionName": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appVersions

The version of the application.

Type: Array of [AppVersionSummary](#) objects

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMetrics

Lists the metrics that can be exported.

## Request Syntax

```
POST /list-metrics HTTP/1.1
Content-type: application/json
```

```
{
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "dataSource": "string",
  "fields": [
    {
      "aggregation": "string",
      "name": "string"
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "sorts": [
    {
      "ascending": boolean,
      "field": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## conditions

Indicates the list of all the conditions that were applied on the metrics.

Type: Array of [Condition](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## dataSource

Indicates the data source of the metrics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## fields

Indicates the list of fields in the data source.

Type: Array of [Field](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

### sorts

(Optional) Indicates the order in which you want to sort the fields in the metrics. By default, the fields are sorted in the ascending order.

Type: Array of [Sort](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "nextToken": "string",
  "rows": [
    [ "string" ]
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### rows

Specifies all the list of metric values for each row of metrics.

Type: Array of arrays of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample Request

The following is an example request payload.

## Sample Request

```
{
  "dataSource": "Applications",
  "fields": [
    {
      "name": "Application Arn"
    }
  ]
}
```

## Sample Response

The following is an example response payload.

### Sample Response

```
{
  "headers": [
    "Application Arn"
  ],
  "rows": [
    [
      "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-
c634cb3edb39"
    ]
  ]
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRecommendationTemplates

Lists the recommendation templates for the AWS Resilience Hub applications.

## Request Syntax

```
GET /list-recommendation-templates?  
assessmentArn=assessmentArn&maxResults=maxResults&name=name&nextToken=nextToken&recommendationT  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is:  
arn:partition:resiliencehub:region:account:app-assessment/app-id. For more  
information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference*  
guide.

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9]  
[A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-  
[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_.-]{0,1023}

### maxResults

Maximum number of results to include in the response. If more results exist than the specified  
MaxResults value, a token is included in the response so that the remaining results can be  
retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

The name for one of the listed recommendation templates.

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

### nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: \S{1,2000}

## recommendationTemplateArn

The Amazon Resource Name (ARN) for a recommendation template.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## reverseOrder

The default is to sort by ascending **startTime**. To sort by descending **startTime**, set `reverseOrder` to `true`.

## status

Status of the action.

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: Pending | InProgress | Failed | Success

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "recommendationTemplates": [
    {
      "appArn": "string",
      "assessmentArn": "string",
      "endTime": number,
      "format": "string",
      "message": "string",
      "name": "string",
      "needsReplacements": boolean,
      "recommendationIds": [ "string" ],
      "recommendationTemplateArn": "string",
```

```
    "recommendationTypes": [ "string" ],
    "startTime": number,
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "templatesLocation": {
      "bucket": "string",
      "prefix": "string"
    }
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### recommendationTemplates

The recommendation templates for the AWS Resilience Hub applications.

Type: Array of [RecommendationTemplate](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListResiliencyPolicies

Lists the resiliency policies for the AWS Resilience Hub applications.

## Request Syntax

```
GET /list-resiliency-policies?  
maxResults=maxResults&nextToken=nextToken&policyName=policyName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

### policyName

Name of the resiliency policy.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "nextToken": "string",
  "resiliencyPolicies": [
    {
      "creationTime": number,
      "dataLocationConstraint": "string",
      "estimatedCostTier": "string",
      "policy": {
        "string": {
          "rpoInSecs": number,
          "rtoInSecs": number
        }
      },
      "policyArn": "string",
      "policyDescription": "string",
      "policyName": "string",
      "tags": {
        "string": "string"
      },
      "tier": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### resiliencyPolicies

The resiliency policies for the AWS Resilience Hub applications.

Type: Array of [ResiliencyPolicy](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListResourceGroupingRecommendations

Lists the resource grouping recommendations suggested by AWS Resilience Hub for your application.

## Request Syntax

```
GET /list-resource-grouping-recommendations?  
appArn=appArn&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### maxResults

Maximum number of grouping recommendations to be displayed per AWS Resilience Hub application.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "groupingRecommendations": [
    {
      "confidenceLevel": "string",
      "creationTime": number,
      "groupingAppComponent": {
        "appId": "string",
        "appName": "string",
        "appType": "string"
      },
      "groupingRecommendationId": "string",
      "recommendationReasons": [ "string" ],
      "rejectionReason": "string",
      "resources": [
        {
          "logicalResourceId": {
            "eksSourceName": "string",
            "identifier": "string",
            "logicalStackName": "string",
            "resourceGroupName": "string",
            "terraformSourceName": "string"
          },
          "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
          },
          "resourceName": "string",
          "resourceType": "string",
          "sourceAppComponentIds": [ "string" ]
        }
      ],
      "score": number,
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### groupingRecommendations

List of resource grouping recommendations generated by AWS Resilience Hub.

Type: Array of [GroupingRecommendation](#) objects

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListSopRecommendations

Lists the standard operating procedure (SOP) recommendations for the AWS Resilience Hub applications.

## Request Syntax

```
POST /list-sop-recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: \S{1,2000}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "sopRecommendations": [
    {
      "appComponentName": "string",
      "description": "string",
      "items": [
        {
          "alreadyImplemented": boolean,
          "discoveredAlarm": {
            "alarmArn": "string",
            "source": "string"
          },
          "excluded": boolean,
          "excludeReason": "string",
          "latestDiscoveredExperiment": {
```

```
        "experimentArn": "string",
        "experimentTemplateId": "string"
    },
    "resourceId": "string",
    "targetAccountId": "string",
    "targetRegion": "string"
}
],
"name": "string",
"prerequisite": "string",
"recommendationId": "string",
"recommendationStatus": "string",
"referenceId": "string",
"serviceType": "string"
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### sopRecommendations

The standard operating procedure (SOP) recommendations for the AWS Resilience Hub applications.

Type: Array of [SopRecommendation](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListSuggestedResiliencyPolicies

Lists the suggested resiliency policies for the AWS Resilience Hub applications.

## Request Syntax

```
GET /list-suggested-resiliency-policies?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "resiliencyPolicies": [
    {
```

```
    "creationTime": number,
    "dataLocationConstraint": "string",
    "estimatedCostTier": "string",
    "policy": {
      "string" : {
        "rpoInSecs": number,
        "rtoInSecs": number
      }
    },
    "policyArn": "string",
    "policyDescription": "string",
    "policyName": "string",
    "tags": {
      "string" : "string"
    },
    "tier": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### resiliencyPolicies

The suggested resiliency policies for the AWS Resilience Hub applications.

Type: Array of [ResiliencyPolicy](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags for your resources in your AWS Resilience Hub applications.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) for a specific resource in your AWS Resilience Hub application.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListTestRecommendations

Lists the test recommendations for the AWS Resilience Hub application.

## Request Syntax

```
POST /list-test-recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "assessmentArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## maxResults

Maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: \S{1,2000}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "testRecommendations": [
    {
      "appComponentId": "string",
      "appComponentName": "string",
      "dependsOnAlarms": [ "string" ],
      "description": "string",
      "intent": "string",
      "items": [
        {
          "alreadyImplemented": boolean,
          "discoveredAlarm": {
            "alarmArn": "string",
            "source": "string"
          },
          "excluded": boolean,
```

```
    "excludeReason": "string",
    "latestDiscoveredExperiment": {
      "experimentArn": "string",
      "experimentTemplateId": "string"
    },
    "resourceId": "string",
    "targetAccountId": "string",
    "targetRegion": "string"
  }
],
"name": "string",
"prerequisite": "string",
"recommendationId": "string",
"recommendationStatus": "string",
"referenceId": "string",
"risk": "string",
"type": "string"
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern:  $\backslash S\{1,2000\}$

### testRecommendations

The test recommendations for the AWS Resilience Hub application.

Type: Array of [TestRecommendation](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListUnsupportedAppVersionResources

Lists the resources that are not currently supported in AWS Resilience Hub. An unsupported resource is a resource that exists in the object that was used to create an app, but is not supported by AWS Resilience Hub.

## Request Syntax

```
POST /list-unsupported-app-version-resources HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "maxResults": number,
  "nextToken": "string",
  "resolutionId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

### resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "nextToken": "string",
  "resolutionId": "string",
  "unsupportedResources": [
    {
      "logicalResourceId": {
        "eksSourceName": "string",
        "identifier": "string",
        "logicalStackName": "string",
        "resourceGroupName": "string",
        "terraformSourceName": "string"
      },
      "physicalResourceId": {
        "awsAccountId": "string",
        "awsRegion": "string",
        "identifier": "string",
        "type": "string"
      },
      "resourceType": "string",
      "unsupportedResourceStatus": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

### resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### unsupportedResources

The unsupported resources for the application.

Type: Array of [UnsupportedResource](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# PublishAppVersion

Publishes a new version of a specific AWS Resilience Hub application.

## Request Syntax

```
POST /publish-app-version HTTP/1.1
Content-type: application/json

{
  "appArn": "string",
  "versionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "identifier": number,
  "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

## identifier

Identifier of the application version.

Type: Long

## versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutDraftAppVersionTemplate

Adds or updates the app template for an AWS Resilience Hub application draft version.

## Note

AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see [Managing Application Components](#).

## Request Syntax

```
POST /put-draft-app-version-template HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appTemplateBody": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## appTemplateBody


A JSON string that provides information about your application structure. To learn more about the `appTemplateBody` template, see the sample template provided in the *Examples* section.

The `appTemplateBody` JSON string has the following structure:

- **resources**

The list of logical resources that must be included in the AWS Resilience Hub application.

Type: Array

 **Note**

Don't add the resources that you want to exclude.

Each `resources` array item includes the following fields:

- `logicalResourceId`

Logical identifier of the resource.

Type: Object

Each `logicalResourceId` object includes the following fields:

- `identifier`

Identifier of the resource.

Type: String

- `logicalStackName`

The name of the AWS CloudFormation stack this resource belongs to.

Type: String

- `resourceGroupName`

The name of the resource group this resource belongs to.

Type: String


- `terraformSourceName`

The name of the Terraform S3 state file this resource belongs to.

Type: String

- `eksSourceName`

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

 **Note**

This parameter accepts values in "eks-cluster/namespace" format.

Type: String

- `type`

The type of resource.

Type: string

- `name`

The name of the resource.

Type: String

- `additionalInfo`

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

**Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

- **appComponents**

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array

Each appComponent's array item includes the following fields:

- name

Name of the AppComponent.

Type: String

- type

Type of AppComponent. For more information about the types of AppComponent, see [Grouping resources in an AppComponent](#).

Type: String

- resourceNames

The list of included resources that are assigned to the AppComponent.

Type: Array of strings

- additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement additionalInfo through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

**Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

- **excludedResources**

The list of logical resource identifiers to be excluded from the application.

Type: Array

**Note**

Don't add the resources that you want to include.

Each `excludedResources` array item includes the following fields:

- *logicalResourceIds*

Logical identifier of the resource.

Type: Object

**Note**

You can configure only one of the following fields:

- `logicalStackName`
- `resourceGroupName`
- `terraformSourceName`
- `eksSourceName`

Each `logicalResourceIds` object includes the following fields:

- `identifier`

Identifier of the resource.

Type: String

- `logicalStackName`

The name of the AWS CloudFormation stack this resource belongs to.

Type: String

- `resourceGroupName`

The name of the resource group this resource belongs to.

Type: String


- `terraformSourceName`

The name of the Terraform S3 state file this resource belongs to.

Type: String

- `eksSourceName`

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

 **Note**

This parameter accepts values in "eks-cluster/namespace" format.

Type: String

- **`version`**

AWS Resilience Hub application version.

- `additionalInfo`

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

**Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

Type: String

Length Constraints: Minimum length of 0. Maximum length of 409600.

Pattern: [\w\s:,-\.'\{\}\[\]:"\\"]+

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_/+.-]{0,1023}

## appVersion

The version of the application.

Type: String

Pattern: \S{1,50}

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Sample appTemplateBody template

This example illustrates one usage of PutDraftAppVersionTemplate.

```
{
  "resources": [{
    "logicalResourceId": {
      "identifier": "testResourceID1",
      "logicalStackName": "testResourceStack1",
      "resourceGroupName": null
    },
    "type": "AWS::RDS::DBInstance",
    "name": "testResourceName"
  }
]
```

```
  ]],
  "appComponents": [{
    "name": "testappcomponent-test",
    "type": "AWS::ResilienceHub::AppComponent",
    "resourceNames": [
      "testResourceName"
    ]
  },
  {
    "name": "testappcommon",
    "type": "AWS::ResilienceHub::AppComponent",
    "resourceNames": "[testResourceName]"
  }
],
"excludedResources": {
  "logicalResourceIds": [{
    "identifier": "testResourceID2",
    "logicalStackName": "testResourceStack2",
    "resourceGroupName": ""
  }]
},
"version": 2.0
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# RejectResourceGroupingRecommendations

Rejects resource grouping recommendations.

## Request Syntax

```
POST /reject-resource-grouping-recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "entries": [
    {
      "groupingRecommendationId": "string",
      "rejectionReason": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

## entries

List of resource grouping recommendations you have selected to exclude from your application.

Type: Array of [RejectGroupingRecommendationEntry](#) objects

Array Members: Minimum number of 1 item. Maximum number of 30 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "failedEntries": [
    {
      "errorMessage": "string",
      "groupingRecommendationId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## [failedEntries](#)

List of resource grouping recommendations that failed to get excluded in your application.

Type: Array of [FailedGroupingRecommendationEntry](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RemoveDraftAppVersionResourceMappings

Removes resource mappings from a draft application version.

## Request Syntax

```
POST /remove-draft-app-version-resource-mappings HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appRegistryAppNames": [ "string" ],
  "eksSourceNames": [ "string" ],
  "logicalStackNames": [ "string" ],
  "resourceGroupNames": [ "string" ],
  "resourceNames": [ "string" ],
  "terraformSourceNames": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9/_.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:._/+.-]{0,1023}`

Required: Yes

### appRegistryAppNames

The names of the registered applications you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

### eksSourceNames

The names of the Amazon Elastic Kubernetes Service clusters and namespaces you want to remove from the resource mappings.

 **Note**

This parameter accepts values in "eks-cluster/namespace" format.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### logicalStackNames

The names of the CloudFormation stacks you want to remove from the resource mappings.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### resourceGroupNames

The names of the resource groups you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

## resourceNames

The names of the resources you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

## terraformSourceNames

The names of the Terraform sources you want to remove from the resource mappings.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ResolveAppVersionResources

Resolves the resources for an application version.

## Request Syntax

```
POST /resolve-app-version-resources HTTP/1.1
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "resolutionId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9/_.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:/_+.-]{0,1023}`

### appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

## resolutionId

The identifier for a specific resolution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

## status

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerErrorException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartAppAssessment

Creates a new application assessment for an application.

## Request Syntax

```
POST /start-app-assessment HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string",
  "appVersion": "string",
  "assessmentName": "string",
  "clientToken": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

## assessmentName

The name for the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

## clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_\. -]{0,63}`

Required: No

## tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "assessment": {
    "appArn": "string",
    "appVersion": "string",
    "assessmentArn": "string",
    "assessmentName": "string",
    "assessmentStatus": "string",
    "compliance": {
      "string": {
        "achievableRpoInSecs": number,
        "achievableRtoInSecs": number,
        "complianceStatus": "string",
        "currentRpoInSecs": number,
        "currentRtoInSecs": number,
        "message": "string",
        "rpoDescription": "string",
        "rpoReferenceId": "string",
        "rtoDescription": "string",
        "rtoReferenceId": "string"
      }
    },
    "complianceStatus": "string",
    "cost": {
      "amount": number,
      "currency": "string",
      "frequency": "string"
    },
    "driftStatus": "string",
    "endTime": number,
    "invoker": "string",
    "message": "string",
    "policy": {
      "creationTime": number,
      "dataLocationConstraint": "string",
```

```
"estimatedCostTier": "string",
"policy": {
  "string" : {
    "rpoInSecs": number,
    "rtoInSecs": number
  }
},
"policyArn": "string",
"policyDescription": "string",
"policyName": "string",
"tags": {
  "string" : "string"
},
"tier": "string"
},
"resiliencyScore": {
  "componentScore": {
    "string" : {
      "excludedCount": number,
      "outstandingCount": number,
      "possibleScore": number,
      "score": number
    }
  },
  "disruptionScore": {
    "string" : number
  },
  "score": number
},
"resourceErrorsDetails": {
  "hasMoreErrors": boolean,
  "resourceErrors": [
    {
      "logicalResourceId": "string",
      "physicalResourceId": "string",
      "reason": "string"
    }
  ]
},
"startTime": number,
"summary": {
  "riskRecommendations": [
    {
      "appComponents": [ "string" ],

```

```
        "recommendation": "string",
        "risk": "string"
    }
],
"summary": "string"
},
"tags": {
    "string" : "string"
},
"versionName": "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### assessment

The assessment created.

Type: [AppAssessment](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

**InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

**ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartMetricsExport

Initiates the export task of metrics.

## Request Syntax

```
POST /start-metrics-export HTTP/1.1
Content-type: application/json

{
  "bucketName": "string",
  "clientToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### bucketName

(Optional) Specifies the name of the Amazon Simple Storage Service bucket where the exported metrics will be stored.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

### clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [A-Za-z0-9\_.-]{0,63}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "metricsExportId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### metricsExportId

Identifier of the metrics export task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### status

Indicates the status of the metrics export task.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## Examples

### Example

The following is an example request payload.

#### Sample Request

```
{
  "bucketName": "my-bucket-name"
}
```

### Example

The following is an example response payload.

#### Sample Response

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691",
  "status": "Pending"
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartResourceGroupingRecommendationTask

Starts grouping recommendation task.

## Request Syntax

```
POST /start-resource-grouping-recommendation-task HTTP/1.1
Content-type: application/json
```

```
{
  "appArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_.-]{0,1023}

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "appArn": "string",
  "errorMessage": "string",
  "groupingId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

### errorMessage

Error that occurred while executing a grouping recommendation task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

### groupingId

Identifier of the grouping recommendation task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### status

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

## resourceType

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Applies one or more tags to a resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags to assign to the resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

## resourceType

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## retryAfterSeconds

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes one or more tags from a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### tagKeys

The keys of the tags you want to remove.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[^\x00-\x1f\x22]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateApp

Updates an application.

## Request Syntax

```
POST /update-app HTTP/1.1
Content-type: application/json

{
  "appArn": "string",
  "assessmentSchedule": "string",
  "clearResiliencyPolicyArn": boolean,
  "description": "string",
  "eventSubscriptions": [
    {
      "eventType": "string",
      "name": "string",
      "snsTopicArn": "string"
    }
  ],
  "permissionModel": {
    "crossAccountRoleArns": [ "string" ],
    "invokerRoleName": "string",
    "type": "string"
  },
  "policyArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: Disabled | Daily

Required: No

### clearResiliencyPolicyArn

Specifies if the resiliency policy ARN should be cleared.

Type: Boolean

Required: No

### description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### eventSubscriptions

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

Type: Array of [EventSubscription](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### permissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating an application, importing its resources, and running an assessment.

Type: [PermissionModel](#) object

Required: No

### policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "app": {
    "appArn": "string",
    "assessmentSchedule": "string",
    "awsApplicationArn": "string",
    "complianceStatus": "string",
    "creationTime": number,
    "description": "string",
    "driftStatus": "string",
    "eventSubscriptions": [
      {
```

```
        "eventType": "string",
        "name": "string",
        "snsTopicArn": "string"
    }
],
"lastAppComplianceEvaluationTime": number,
"lastDriftEvaluationTime": number,
"lastResiliencyScoreEvaluationTime": number,
"name": "string",
"permissionModel": {
    "crossAccountRoleArns": [ "string" ],
    "invokerRoleName": "string",
    "type": "string"
},
"policyArn": "string",
"resiliencyScore": number,
"rpoInSecs": number,
"rtoInSecs": number,
"status": "string",
"tags": {
    "string" : "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [app](#)

The specified application, returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: [App](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

## ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

## InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

## ResourceNotFoundException

This exception occurs when the specified resource could not be found.

### **resourceId**

The identifier of the resource that the exception applies to.

### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

## ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

## **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

## **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAppVersion

Updates the AWS Resilience Hub application version.

## Note

This API updates the AWS Resilience Hub application draft version. To use this information for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.

## Request Syntax

```
POST /update-app-version HTTP/1.1
Content-type: application/json
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

**Note**

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

Value: "[{"region": "<REGION>", "accounts": [{"id": "<ACCOUNT\_ID>"}]}]"

Type: String to array of strings map

Key Pattern: \S{1,128}

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

**appArn**

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

**Response Syntax**

HTTP/1.1 200

Content-type: application/json

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  }
}
```

```
},  
  "appArn": "string",  
  "appVersion": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

#### Note

Currently, this parameter supports only failover region and account.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### InternalServerError

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### ResourceNotFoundException

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateAppVersionAppComponent

Updates an existing AppComponent in the AWS Resilience Hub application.

## Note

This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the PublishAppVersion API.

## Request Syntax

```
POST /update-app-version-app-component HTTP/1.1
Content-type: application/json
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string",
  "id": "string",
  "name": "string",
  "type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### additionalInfo

Currently, there is no supported additional information for AppComponents.

Type: String to array of strings map

Key Pattern:  $\backslash S\{1, 128\}$

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### id

Identifier of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### name

Name of the AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### type

Type of AppComponent. For more information about the types of AppComponent, see [Grouping resources in an AppComponent](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appComponent": {
    "additionalInfo": {
      "string" : [ "string" ]
    },
    "id": "string",
    "name": "string",
    "type": "string"
  },
  "appVersion": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

## appComponent

List of AppComponents that belong to this resource.

Type: [AppComponent](#) object

## appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerError**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAppVersionResource

Updates the resource details in the AWS Resilience Hub application.

## Note

- This action has no effect outside AWS Resilience Hub.
- This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.
- To update application version with new `physicalResourceID`, you must call `ResolveVersionResources` API.
- AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see [Managing Application Components](#).

## Request Syntax

```
POST /update-app-version-resource HTTP/1.1
Content-type: application/json
```

```
{
  "additionalInfo": {
    "string" : [ "string" ]
  },
  "appArn": "string",
  "appComponents": [ "string" ],
  "awsAccountId": "string",
  "awsRegion": "string",
  "excluded": boolean,
  "logicalResourceId": {
    "eksSourceName": "string",
    "identifier": "string",
    "logicalStackName": "string",
    "resourceGroupName": "string",
    "terraformSourceName": "string"
  },
}
```

```
"physicalResourceId": "string",  
"resourceName": "string",  
"resourceType": "string"  
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### additionalInfo

Currently, there is no supported additional information for resources.

Type: String to array of strings map

Key Pattern:  $\backslash S\{1, 128\}$

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### appComponents

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

### awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

### excluded

Indicates if a resource is excluded from an AWS Resilience Hub application.

#### **Note**

You can exclude only imported resources from an AWS Resilience Hub application.

Type: Boolean

Required: No

### logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: No

### physicalResourceId

Physical identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

### resourceName

Name of the resource.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### resourceType

Type of resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appArn": "string",
  "appVersion": "string",
  "physicalResource": {
    "additionalInfo": {
      "string" : [ "string" ]
    }
  }
}
```

```

    },
    "appComponents": [
      {
        "additionalInfo": {
          "string": [ "string" ]
        },
        "id": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "excluded": boolean,
    "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
    },
    "parentResourceName": "string",
    "physicalResourceId": {
      "awsAccountId": "string",
      "awsRegion": "string",
      "identifier": "string",
      "type": "string"
    },
    "resourceName": "string",
    "resourceType": "string",
    "sourceType": "string"
  }
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

### appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

### physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: [PhysicalResource](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

**InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

**ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

**resourceId**

The identifier of the resource that the exception applies to.

**resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

**ServiceQuotaExceededException**

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

**ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

**retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

**ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateResiliencyPolicy

Updates a resiliency policy.

## Note

AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

## Request Syntax

```
POST /update-resiliency-policy HTTP/1.1
Content-type: application/json
```

```
{
  "dataLocationConstraint": "string",
  "policy": {
    "string" : {
      "rpoInSecs": number,
      "rtoInSecs": number
    }
  },
  "policyArn": "string",
  "policyDescription": "string",
  "policyName": "string",
  "tier": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## dataLocationConstraint

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: AnyLocation | SameContinent | SameCountry

Required: No

## policy

Resiliency policy to be created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: String to [FailurePolicy](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

## policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:partition:resiliencehub:region:account:resiliency-policy/policy-id. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_/+.-]{0,1023}

Required: Yes

## policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### policyName

Name of the resiliency policy.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### tier

The tier for this resiliency policy, ranging from the highest severity (MissionCritical) to lowest (NonCritical).

Type: String

Valid Values: MissionCritical | Critical | Important | CoreServices | NonCritical | NotApplicable

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "policy": {
    "creationTime": number,
    "dataLocationConstraint": "string",
    "estimatedCostTier": "string",
    "policy": {
      "string" : {
        "rpoInSecs": number,
        "rtoInSecs": number
      }
    },
    "policyArn": "string",
    "policyDescription": "string",
    "policyName": "string",
    "tags": {
```

```
    "string" : "string"  
  },  
  "tier": "string"  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### policy

The resiliency policy that was updated, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: [ResiliencyPolicy](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

### **ConflictException**

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 409

### **InternalServerErrorException**

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

### **ResourceNotFoundException**

This exception occurs when the specified resource could not be found.

#### **resourceId**

The identifier of the resource that the exception applies to.

#### **resourceType**

The type of the resource that the exception applies to.

HTTP Status Code: 404

### **ThrottlingException**

This exception occurs when you have exceeded the limit on the number of requests per second.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the operation.

HTTP Status Code: 429

### **ValidationException**

This exception occurs when a request is not valid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS Resilience Hub API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AcceptGroupingRecommendationEntry](#)
- [Alarm](#)
- [AlarmRecommendation](#)
- [App](#)
- [AppAssessment](#)
- [AppAssessmentSummary](#)
- [AppComponent](#)
- [AppComponentCompliance](#)
- [AppInputSource](#)
- [AppSummary](#)
- [AppVersionSummary](#)
- [AssessmentRiskRecommendation](#)
- [AssessmentSummary](#)
- [BatchUpdateRecommendationStatusFailedEntry](#)
- [BatchUpdateRecommendationStatusSuccessfulEntry](#)
- [ComplianceDrift](#)
- [ComponentRecommendation](#)
- [Condition](#)
- [ConfigRecommendation](#)
- [Cost](#)

- [DisruptionCompliance](#)
- [EksSource](#)
- [EksSourceClusterNamespace](#)
- [ErrorDetail](#)
- [EventSubscription](#)
- [Experiment](#)
- [FailedGroupingRecommendationEntry](#)
- [FailurePolicy](#)
- [Field](#)
- [GroupingAppComponent](#)
- [GroupingRecommendation](#)
- [GroupingResource](#)
- [LogicalResourceId](#)
- [PermissionModel](#)
- [PhysicalResource](#)
- [PhysicalResourceId](#)
- [RecommendationDisruptionCompliance](#)
- [RecommendationItem](#)
- [RecommendationTemplate](#)
- [RejectGroupingRecommendationEntry](#)
- [ResiliencyPolicy](#)
- [ResiliencyScore](#)
- [ResourceDrift](#)
- [ResourceError](#)
- [ResourceErrorsDetails](#)
- [ResourceIdentifier](#)
- [ResourceMapping](#)
- [S3Location](#)
- [ScoringComponentResiliencyScore](#)
- [SopRecommendation](#)

- [Sort](#)
- [TerraformSource](#)
- [TestRecommendation](#)
- [UnsupportedResource](#)
- [UpdateRecommendationStatusItem](#)
- [UpdateRecommendationStatusRequestEntry](#)

# AcceptGroupingRecommendationEntry

Indicates the grouping recommendation you have accepted to include in your application.

## Contents

### groupingRecommendationId

Indicates the identifier of the grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Alarm

Indicates the Amazon CloudWatch alarm detected while running an assessment.

## Contents

### alarmArn

Amazon Resource Name (ARN) of the Amazon CloudWatch alarm.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: No

### source

Indicates the source of the Amazon CloudWatch alarm. That is, it indicates if the alarm was created using AWS Resilience Hub recommendation (`AwsResilienceHub`), or if you had created the alarm in Amazon CloudWatch (`Customer`).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AlarmRecommendation

Defines a recommendation for a CloudWatch alarm.

## Contents

### name

Name of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### recommendationId

Identifier of the alarm recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: Yes

### referenceId

Reference identifier of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### type

Type of alarm recommendation.

Type: String

Valid Values: `Metric` | `Composite` | `Canary` | `Logs` | `Event`

Required: Yes

### **appComponentName**

*This member has been deprecated.*

AppComponent name for the CloudWatch alarm recommendation. This name is saved as the first item in the appComponentNames list.

Type: String

Pattern: `\S{1,255}`

Required: No

### **appComponentNames**

List of AppComponent names for the CloudWatch alarm recommendation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **description**

Description of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### **items**

List of CloudWatch alarm recommendations.

Type: Array of [RecommendationItem](#) objects

Required: No

### **prerequisite**

The prerequisite for the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **recommendationStatus**

Status of the recommended Amazon CloudWatch alarm.

Type: String

Valid Values: Implemented | Inactive | NotImplemented | Excluded

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# App

Defines an AWS Resilience Hub application.

## Contents

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: Yes

### creationTime

Date and time when the application was created.

Type: Timestamp

Required: Yes

### name

Name for the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: Disabled | Daily

Required: No

### **awsApplicationArn**

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### **complianceStatus**

Current status of compliance for the resiliency policy.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotAssessed | ChangesDetected | NotApplicable | MissingPolicy

Required: No

### **description**

Optional description for an application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### **driftStatus**

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: NotChecked | NotDetected | Detected

Required: No

### **eventSubscriptions**

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

Type: Array of [EventSubscription](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### **lastAppComplianceEvaluationTime**

Date and time the most recent compliance evaluation.

Type: Timestamp

Required: No

### **lastDriftEvaluationTime**

Indicates the last time that a drift was evaluated.

Type: Timestamp

Required: No

### **lastResiliencyScoreEvaluationTime**

Date and time the most recent resiliency score evaluation.

Type: Timestamp

Required: No

### **permissionModel**

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

Type: [PermissionModel](#) object

Required: No

## policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## resiliencyScore

Current resiliency score for the application.

Type: Double

Required: No

## rpoinSecs

Recovery Point Objective (RPO) in seconds.

Type: Integer

Required: No

## rtoinSecs

Recovery Time Objective (RTO) in seconds.

Type: Integer

Required: No

## status

Status of the application.

Type: String

Valid Values: Active | Deleting

Required: No

## tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppAssessment

Defines an application assessment.

## Contents

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### assessmentStatus

Current status of the assessment for the resiliency policy.

Type: String

Valid Values: Pending | InProgress | Failed | Success

Required: Yes

### invoker

The entity that invoked the assessment.

Type: String

Valid Values: User | System

Required: Yes

## appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## appVersion

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: No

## assessmentName

Name of the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

## compliance

Application compliance against the resiliency policy.

Type: String to [DisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

## complianceStatus

Current status of the compliance for the resiliency policy.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotApplicable | MissingPolicy

Required: No

### **cost**

Cost for the application.

Type: [Cost](#) object

Required: No

### **driftStatus**

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: NotChecked | NotDetected | Detected

Required: No

### **endTime**

End time for the action.

Type: Timestamp

Required: No

### **message**

Error or warning message from the assessment execution

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **policy**

Resiliency policy of an application.

Type: [ResiliencyPolicy](#) object

Required: No

### **resiliencyScore**

Current resiliency score for an application.

Type: [ResiliencyScore](#) object

Required: No

### **resourceErrorsDetails**

A resource error object containing a list of errors retrieving an application's resources.

Type: [ResourceErrorsDetails](#) object

Required: No

### **startTime**

Starting time for the action.

Type: Timestamp

Required: No

### **summary**

Indicates the AI-generated summary for the AWS Resilience Hub assessment, providing a concise overview that highlights the top risks and recommendations.

#### **Note**

This property is available only in the US East (N. Virginia) Region.

Type: [AssessmentSummary](#) object

Required: No

### **tags**

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

### **versionName**

Version name of the published application.

Type: String

Pattern: `\S{1,50}`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppAssessmentSummary

Defines an application assessment summary.

## Contents

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### assessmentStatus

Current status of the assessment for the resiliency policy.

Type: String

Valid Values: Pending | InProgress | Failed | Success

Required: Yes

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### **appVersion**

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: No

### **assessmentName**

Name of the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-\-]{1,59}`

Required: No

### **complianceStatus**

Current status of compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached` | `PolicyMet` | `NotApplicable` | `MissingPolicy`

Required: No

### **cost**

Cost for an application.

Type: [Cost](#) object

Required: No

### **driftStatus**

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: NotChecked | NotDetected | Detected

Required: No

### **endTime**

End time for the action.

Type: Timestamp

Required: No

### **invoker**

Entity that invoked the assessment.

Type: String

Valid Values: User | System

Required: No

### **message**

Message from the assessment run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **resiliencyScore**

Current resiliency score for the application.

Type: Double

Required: No

### **startTime**

Starting time for the action.

Type: Timestamp

Required: No

## versionName

Name of an application version.

Type: String

Pattern: `\S{1,50}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppComponent

Defines an AppComponent.

## Contents

### name

Name of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

### type

The type of AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

#### Note

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: `"failover-regions"`

Value: `"[{"region":"<REGION>", "accounts":[{"id":"<ACCOUNT_ID>"}]}"`

Type: String to array of strings map

Key Pattern: `\S{1,128}`

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

## **id**

Identifier of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppComponentCompliance

Defines the compliance of an AppComponent against the resiliency policy.

## Contents

### appName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

### compliance

The compliance of the AppComponent against the resiliency policy.

Type: String to [DisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

### cost

The cost for the application.

Type: [Cost](#) object

Required: No

### message

The compliance message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### resiliencyScore

The current resiliency score for the application.

Type: [ResiliencyScore](#) object

Required: No

### **status**

Status of the action.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotApplicable | MissingPolicy

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppInputSource

The list of AWS Resilience Hub application input sources.

## Contents

### importType

The resource type of the input source.

Type: String

Valid Values: CfnStack | Resource | AppRegistryApp | ResourceGroup | Terraform | EKS

Required: Yes

### eksSourceClusterNamespace

The namespace on your Amazon Elastic Kubernetes Service cluster.

Type: [EksSourceClusterNamespace](#) object

Required: No

### resourceCount

The number of resources.

Type: Integer

Required: No

### sourceArn

The Amazon Resource Name (ARN) of the input source. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:\_/+.-]{0,1023}

Required: No

### **sourceName**

The name of the input source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **terraformSource**

The name of the Terraform s3 state file.

Type: [TerraformSource](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppSummary

Defines an application summary.

## Contents

### appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### creationTime

Date and time when the app was created.

Type: Timestamp

Required: Yes

### name

The name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: Disabled | Daily

Required: No

### **awsApplicationArn**

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

### **complianceStatus**

The current status of compliance for the resiliency policy.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotAssessed | ChangesDetected | NotApplicable | MissingPolicy

Required: No

### **description**

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### **driftStatus**

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: NotChecked | NotDetected | Detected

Required: No

### **lastAppComplianceEvaluationTime**

Date and time of the most recent compliance evaluation.

Type: Timestamp

Required: No

### **resiliencyScore**

The current resiliency score for the application.

Type: Double

Required: No

### **rpoInSecs**

Recovery Point Objective (RPO) in seconds.

Type: Integer

Required: No

### **rtoInSecs**

Recovery Time Objective (RTO) in seconds.

Type: Integer

Required: No

### **status**

Status of the application.

Type: String

Valid Values: Active | Deleting

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AppVersionSummary

Version of an application.

## Contents

### appVersion

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

### creationTime

Creation time of the application version.

Type: Timestamp

Required: No

### identifier

Identifier of the application version.

Type: Long

Required: No

### versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AssessmentRiskRecommendation

Indicates a specific risk identified in the AWS Resilience Hub assessment and the corresponding recommendation provided to address that risk.

## Note

The assessment summary generated by large language models (LLMs) on Amazon Bedrock are only suggestions. The current level of generative AI technology is not perfect and LLMs are not infallible. Bias and incorrect answers, although rare, should be expected. Review each recommendation in the assessment summary before you use the output from an LLM.

## Note

This property is available only in the US East (N. Virginia) Region.

## Contents

### appComponents

Indicates the Application Components (AppComponents) that were assessed as part of the assessment and are associated with the identified risk and recommendation.

## Note

This property is available only in the US East (N. Virginia) Region.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### recommendation

Indicates the recommendation provided by the AWS Resilience Hub to address the identified risks in the application.

**Note**

This property is available only in the US East (N. Virginia) Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

**risk**

Indicates the description of the potential risk identified in the application as part of the AWS Resilience Hub assessment.

**Note**

This property is available only in the US East (N. Virginia) Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No


**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AssessmentSummary

Indicates the AI-generated summary for the AWS Resilience Hub assessment, providing a concise overview that highlights the top risks and recommendations.


 **Note**

This property is available only in the US East (N. Virginia) Region.

## Contents

### riskRecommendations

Indicates the top risks and recommendations identified by the AWS Resilience Hub assessment, each representing a specific risk and the corresponding recommendation to address it.

 **Note**


This property is available only in the US East (N. Virginia) Region.

Type: Array of [AssessmentRiskRecommendation](#) objects

Required: No

### summary

Indicates a concise summary that provides an overview of the AWS Resilience Hub assessment.

 **Note**

This property is available only in the US East (N. Virginia) Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchUpdateRecommendationStatusFailedEntry

List of operational recommendations that did not get included or excluded.

## Contents

### entryId

An identifier of an entry in this batch that is used to communicate the result.

#### Note

The entryIds of a batch request need to be unique within a request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### errorMessage

Indicates the error that occurred while excluding an operational recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchUpdateRecommendationStatusSuccessfulEntry

List of operational recommendations that were successfully included or excluded.

## Contents

### entryId

An identifier for an entry in this batch that is used to communicate the result.

#### Note

The entryIds of a batch request need to be unique within a request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### excluded

Indicates if the operational recommendation was successfully excluded.

Type: Boolean

Required: Yes

### referenceId

Reference identifier of the operational recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### appComponentId

Indicates the identifier of an AppComponent.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{0,254}

Required: No

### **excludeReason**

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: AlreadyImplemented | NotRelevant | ComplexityOfImplementation

Required: No

### **item**

The operational recommendation item.

Type: [UpdateRecommendationStatusItem](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComplianceDrift

Indicates the compliance drifts (recovery time objective (RTO) and recovery point objective (RPO)) that were detected for an assessed entity.

## Contents

### **actualReferenceId**

Assessment identifier that is associated with this drift item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **actualValue**

Actual compliance value of the entity.

Type: String to [DisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

### **appId**

Identifier of your application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **appVersion**

Published version of your application on which drift was detected.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **diffType**

Difference type between actual and expected recovery point objective (RPO) and recovery time objective (RTO) values. Currently, AWS Resilience Hub supports only `NotEqual` difference type.

Type: String

Valid Values: `NotEqual` | `Added` | `Removed`

Required: No

### **driftType**

The type of drift detected. Currently, AWS Resilience Hub supports only **ApplicationCompliance** drift type.

Type: String

Valid Values: `ApplicationCompliance` | `AppComponentResiliencyComplianceStatus`

Required: No

### **entityId**

Identifier of an entity in which drift was detected. For compliance drift, the entity ID can be either application ID or the `AppComponent` ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **entityType**

The type of entity in which drift was detected. For compliance drifts, AWS Resilience Hub supports `AWS::ResilienceHub::AppComponent` and `AWS::ResilienceHub::Application`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## **expectedReferenceId**

Assessment identifier of a previous assessment of the same application version. AWS Resilience Hub uses the previous assessment (associated with the reference identifier) to compare the compliance with the current assessment to identify drifts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## **expectedValue**

The expected compliance value of an entity.

Type: String to [DisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentRecommendation

Defines recommendations for an AWS Resilience Hub AppComponent, returned as an object. This object contains component names, configuration recommendations, and recommendation statuses.

## Contents

### **AppComponentName**

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: Yes

### **configRecommendations**

List of recommendations.

Type: Array of [ConfigRecommendation](#) objects

Required: Yes

### **recommendationStatus**

Status of the recommendation.

Type: String

Valid Values: BreachedUnattainable | BreachedCanMeet | MetCanImprove | MissingPolicy

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Condition

Indicates the condition based on which you want to filter the metrics.

## Contents

### field

Indicates the field in the metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### operator

Indicates the type of operator or comparison to be used when evaluating a condition against the specified field.

Type: String

Valid Values: Equals | NotEquals | GreaterThen | GreaterOrEquals | LessThen  
| LessOrEquals

Required: Yes

### value

Indicates the value or data against which a condition is evaluated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfigRecommendation

Defines a recommendation configuration.

## Contents

### name

The name of the recommendation configuration.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### optimizationType

The type of optimization.

Type: String

Valid Values: `LeastCost` | `LeastChange` | `BestAZRecovery` | `LeastErrors` | `BestAttainable` | `BestRegionRecovery`

Required: Yes

### referenceId

Reference identifier for the recommendation configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

### **compliance**

The current compliance against the resiliency policy before applying the configuration change.

Type: String to [DisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

### **cost**

The cost for the application.

Type: [Cost](#) object

Required: No

### **description**

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### **haArchitecture**

The architecture type.

Type: String

Valid Values: MultiSite | WarmStandby | PilotLight | BackupAndRestore | NoRecoveryPlan

Required: No

### **recommendationCompliance**

The expected compliance against the resiliency policy after applying the configuration change.

Type: String to [RecommendationDisruptionCompliance](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

### **suggestedChanges**

List of the suggested configuration changes.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Cost

Defines a cost object.

## Contents

### amount

The cost amount.

Type: Double

Required: Yes

### currency

The cost currency, for example USD.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 3.

Required: Yes

### frequency

The cost frequency.

Type: String

Valid Values: Hourly | Daily | Monthly | Yearly

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DisruptionCompliance

Defines the compliance against the resiliency policy for a disruption.

## Contents

### **complianceStatus**

The current status of compliance for the resiliency policy.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotApplicable | MissingPolicy

Required: Yes

### **achievableRpoInSecs**

The Recovery Point Objective (RPO) that is achievable, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### **achievableRtoInSecs**

The Recovery Time Objective (RTO) that is achievable, in seconds

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### **currentRpoInSecs**

The current RPO, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

**currentRtoInSecs**

The current RTO, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

**message**

The disruption compliance message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

**rpoDescription**

The RPO description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

**rpoReferenceId**

Reference identifier of the RPO .

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

**rtoDescription**

The RTO description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **rtoReferenceId**

Reference identifier of the RTO.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EksSource

The input source of the Amazon Elastic Kubernetes Service cluster.

## Contents

### eksClusterArn

Amazon Resource Name (ARN) of the Amazon Elastic Kubernetes Service cluster. The format for this ARN is: `arn:aws:eks:region:account-id:cluster/cluster-name`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### namespaces

The list of namespaces located on your Amazon Elastic Kubernetes Service cluster.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[a-z0-9]([-a-z0-9]*[a-z0-9])?`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# EksSourceClusterNamespace

The input source of the namespace that is located on your Amazon Elastic Kubernetes Service cluster.

## Contents

### eksClusterArn

Amazon Resource Name (ARN) of the Amazon Elastic Kubernetes Service cluster. The format for this ARN is: `arn:aws:eks:region:account-id:cluster/cluster-name`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### namespace

Name of the namespace that is located on your Amazon Elastic Kubernetes Service cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[a-z0-9]([-a-z0-9]*[a-z0-9])?`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ErrorDetail

Indicates the error that was encountered while importing a resource.

## Contents

### errorMessage

Provides additional information about the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EventSubscription

Indicates an event you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

## Contents

### eventType

The type of event you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** (DriftDetected) and **Scheduled assessment failure** (ScheduledAssessmentFailure) events.

Type: String

Valid Values: ScheduledAssessmentFailure | DriftDetected

Required: Yes

### name

Unique name to identify an event subscription.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### snsTopicArn

Amazon Resource Name (ARN) of the Amazon Simple Notification Service topic. The format for this ARN is: `arn:partition:sns:region:account:topic-name`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Experiment

Indicates the AWS FIS experiment detected while running an assessment.

## Contents

### **experimentArn**

Amazon Resource Name (ARN) of the AWS FIS experiment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **experimentTemplateId**

Identifier of the AWS FIS experiment template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FailedGroupingRecommendationEntry

Indicates the accepted grouping recommendation whose implementation failed.

## Contents

### **errorMessage**

Indicates the error that occurred while implementing a grouping recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

### **groupingRecommendationId**

Indicates the identifier of the grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FailurePolicy

Defines a failure policy.

## Contents

### **rpoInSecs**

Recovery Point Objective (RPO) in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **rtoInSecs**

Recovery Time Objective (RTO) in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Field

Indicates the field or attribute of a resource or data structure on which a condition is being applied or evaluated.

## Contents

### name

Name of the field.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### aggregation

(Optional) Indicates the type of aggregation or summary operation (such as Sum, Average, and so on) to be performed on a particular field or set of data.

Type: String

Valid Values: Min | Max | Sum | Avg | Count

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GroupingAppComponent

Creates a new recommended Application Component (AppComponent).

## Contents

### appId

Indicates the identifier of an AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

### appName

Indicates the name of an AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

### appType

Indicates the type of an AppComponent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# GroupingRecommendation

Creates a new grouping recommendation.

## Contents

### **confidenceLevel**

Indicates the confidence level of AWS Resilience Hub on the grouping recommendation.

Type: String

Valid Values: High | Medium

Required: Yes

### **creationTime**

Indicates the creation time of the grouping recommendation.

Type: Timestamp

Required: Yes

### **groupingAppComponent**

Indicates the name of the recommended Application Component (AppComponent).

Type: [GroupingAppComponent](#) object

Required: Yes

### **groupingRecommendationId**

Indicates all the reasons available for rejecting a grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### **recommendationReasons**

Indicates all the reasons available for rejecting a grouping recommendation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### resources

Indicates the resources that are grouped in a recommended AppComponent.

Type: Array of [GroupingResource](#) objects

Required: Yes

### score

Indicates the confidence level of the grouping recommendation.

Type: Double

Required: Yes

### status

Indicates the status of grouping resources into AppComponent.

Type: String

Valid Values: Accepted | Rejected | PendingDecision

Required: Yes

### rejectionReason

Indicates the reason you had selected while rejecting a grouping recommendation.

Type: String

Valid Values: DistinctBusinessPurpose | SeparateDataConcern | DistinctUserGroupHandling | Other

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GroupingResource

Indicates the resource that will be grouped in the recommended Application Component (AppComponent).

## Contents

### logicalResourceId

Indicates the logical identifier of the resource.

Type: [LogicalResourceId](#) object

Required: Yes

### physicalResourceId

Indicates the physical identifier of the resource.

Type: [PhysicalResourceId](#) object

Required: Yes

### resourceName

Indicates the resource name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### resourceType

Indicates the resource type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### sourceAppComponentIds

Indicates the identifier of the source AppComponents in which the resources were previously grouped into.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LogicalResourceId

Defines a logical resource identifier.

## Contents

### identifier

Identifier of the resource.


Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### eksSourceName

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

 **Note**

This parameter accepts values in "eks-cluster/namespace" format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### logicalStackName

The name of the CloudFormation stack this resource belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### resourceGroupName

The name of the resource group that this resource belongs to.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### **terraformSourceName**

The name of the Terraform S3 state file this resource belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PermissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

## Contents

### type

Defines how AWS Resilience Hub scans your resources. It can scan for the resources by using a pre-existing role in your AWS account, or by using the credentials of the current IAM user.

Type: String

Valid Values: LegacyIAMUser | RoleBased

Required: Yes

### crossAccountRoleArns

Defines a list of role Amazon Resource Names (ARNs) to be used in other accounts. These ARNs are used for querying purposes while importing resources and assessing your application.

#### Note

- These ARNs are required only when your resources are in other accounts and you have different role name in these accounts. Else, the invoker role name will be used in the other accounts.
- These roles must have a trust policy with `iam:AssumeRole` permission to the invoker role in the primary account.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):iam:[0-9]{12}:role/(([/][!~]+/){1,511})?[A-Za-z0-9_+,.@-]{1,64}`

Required: No

## invokerRoleName

Existing AWS IAM role name in the primary AWS account that will be assumed by AWS Resilience Hub Service Principle to obtain a read-only access to your application resources while running an assessment.

If your IAM role includes a path, you must include the path in the `invokerRoleName` parameter. For example, if your IAM role's ARN is `arn:aws:iam:123456789012:role/my-path/role-name`, you should pass `my-path/role-name`.

### Note

- You must have `iam:passRole` permission for this role while creating or updating the application.
- Currently, `invokerRoleName` accepts only `[A-Za-z0-9_+=, .@-]` characters.

Type: String

Pattern: `([^\/]([!~]+/){1,511})?[A-Za-z0-9_+=, .@-]{1,64}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PhysicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or an AWS Resilience Hub-native identifier.

## Contents

### logicalResourceId

Logical identifier of the resource.

Type: [LogicalResourceId](#) object

Required: Yes

### physicalResourceId

Identifier of the physical resource.

Type: [PhysicalResourceId](#) object

Required: Yes

### resourceType

Type of resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see [Configure the application configuration parameters](#).

#### Note

Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.

Key: "failover-regions"

```
Value: "[{"region":"<REGION>", "accounts":[{"id":"<ACCOUNT_ID>"}]}]"
```

Type: String to array of strings map

Key Pattern: \S{1,128}

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### **appComponents**

The Application Components that belong to this resource.

Type: Array of [AppComponent](#) objects

Required: No

### **excluded**

Indicates if a resource is included or excluded from the assessment.

Type: Boolean

Required: No

### **parentResourceName**

Name of the parent resource.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### **resourceName**

The name of the resource.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### **sourceType**

Type of input source.

Type: String

Valid Values: AppTemplate | Discovered

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PhysicalResourceId

Defines a physical resource identifier.

## Contents

### identifier

Identifier of the physical resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### type

Specifies the type of physical resource identifier.

Arn

The resource identifier is an Amazon Resource Name (ARN) and it can identify the following list of resources:

- `AWS::ECS::Service`
- `AWS::EFS::FileSystem`
- `AWS::ElasticLoadBalancingV2::LoadBalancer`
- `AWS::Lambda::Function`
- `AWS::SNS::Topic`

Native

The resource identifier is an AWS Resilience Hub-native identifier and it can identify the following list of resources:

- `AWS::ApiGateway::RestApi`
- `AWS::ApiGatewayV2::Api`
- `AWS::AutoScaling::AutoScalingGroup`
- `AWS::DocDB::DBCluster`
- `AWS::DocDB::DBGlobalCluster`

- `AWS::DocDB::DBInstance`
- `AWS::DynamoDB::GlobalTable`
- `AWS::DynamoDB::Table`
- `AWS::EC2::EC2Fleet`
- `AWS::EC2::Instance`
- `AWS::EC2::NatGateway`
- `AWS::EC2::Volume`
- `AWS::ElasticLoadBalancing::LoadBalancer`
- `AWS::RDS::DBCluster`
- `AWS::RDS::DBInstance`
- `AWS::RDS::GlobalCluster`
- `AWS::Route53::RecordSet`
- `AWS::S3::Bucket`
- `AWS::SQS::Queue`

Type: String

Valid Values: Arn | Native

Required: Yes

### **awsAccountId**

The AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

### **awsRegion**

The AWS Region that the physical resource is located in.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RecommendationDisruptionCompliance

Defines a disruption compliance recommendation.

## Contents

### **expectedComplianceStatus**

The expected compliance status after applying the recommended configuration change.

Type: String

Valid Values: PolicyBreached | PolicyMet | NotApplicable | MissingPolicy

Required: Yes

### **expectedRpoDescription**

The expected Recovery Point Objective (RPO) description after applying the recommended configuration change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **expectedRpoInSecs**

The expected RPO after applying the recommended configuration change.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### **expectedRtoDescription**

The expected Recovery Time Objective (RTO) description after applying the recommended configuration change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **expectedRtoInSecs**

The expected RTO after applying the recommended configuration change.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RecommendationItem

Defines a recommendation.

## Contents

### **alreadyImplemented**

Specifies if the recommendation has already been implemented.

Type: Boolean

Required: No

### **discoveredAlarm**

Indicates the previously implemented Amazon CloudWatch alarm discovered by AWS Resilience Hub.

Type: [Alarm](#) object

Required: No

### **excluded**

Indicates if an operational recommendation item is excluded.

Type: Boolean

Required: No

### **excludeReason**

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: AlreadyImplemented | NotRelevant | ComplexityOfImplementation

Required: No

### **latestDiscoveredExperiment**

Indicates the experiment created in AWS FIS that was discovered by AWS Resilience Hub, which matches the recommendation.

Type: [Experiment](#) object

Required: No

### **resourceId**

Identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **targetAccountId**

Identifier of the target account.

Type: String

Pattern: [0-9]{12}

Required: No

### **targetRegion**

The target region.

Type: String

Pattern: [a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RecommendationTemplate

Defines a recommendation template created with the [CreateRecommendationTemplate](#) action.

## Contents

### assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### format

Format of the recommendation template.

CfnJson

The template is CloudFormation JSON.

CfnYaml

The template is CloudFormation YAML.

Type: String

Valid Values: CfnYaml | CfnJson

Required: Yes

### name

Name for the recommendation template.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

### **recommendationTemplateArn**

Amazon Resource Name (ARN) for the recommendation template.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

### **recommendationTypes**

An array of strings that specify the recommendation template type or types.

Alarm

The template is an [AlarmRecommendation](#) template.

Sop

The template is a [SopRecommendation](#) template.

Test

The template is a [TestRecommendation](#) template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: Alarm | Sop | Test

Required: Yes

### **status**

Status of the action.

Type: String

Valid Values: Pending | InProgress | Failed | Success

Required: Yes

## appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: `arn:partition:resiliencehub:region:account:app/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## endTime

The end time for the action.

Type: Timestamp

Required: No

## message

Message for the recommendation template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

## needsReplacements

Indicates if replacements are needed.

Type: Boolean

Required: No

## recommendationIds

Identifiers for the recommendations used in the recommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}

Required: No

### startTime

The start time for the action.

Type: Timestamp

Required: No

### tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [^\x00-\x1f\x22]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: [^\x00-\x1f\x22]\*

Required: No

### templatesLocation

The file location of the template.

Type: [S3Location](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RejectGroupingRecommendationEntry

Indicates the rejected grouping recommendation.

## Contents

### groupingRecommendationId

Indicates the identifier of the grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### rejectionReason

Indicates the reason you had selected while rejecting a grouping recommendation.

Type: String

Valid Values: `DistinctBusinessPurpose` | `SeparateDataConcern` | `DistinctUserGroupHandling` | `Other`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResiliencyPolicy

Defines a resiliency policy.

## Note

AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

## Contents

### `creationTime`

Date and time when the resiliency policy was created.

Type: Timestamp

Required: No

### `dataLocationConstraint`

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: `AnyLocation` | `SameContinent` | `SameCountry`

Required: No

### `estimatedCostTier`

Specifies the estimated cost tier of the resiliency policy.

Type: String

Valid Values: `L1` | `L2` | `L3` | `L4`

Required: No

## policy

The resiliency policy.

Type: String to [FailurePolicy](#) object map

Valid Keys: Software | Hardware | AZ | Region

Required: No

## policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: `arn:partition:resiliencehub:region:account:resiliency-policy/policy-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:(([a-z]{2}-((iso[a-z]{0,1}-)|(gov-))){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

## policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## policyName

The name of the policy

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

## tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[^\x00-\x1f\x22]+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

## tier

The tier for this resiliency policy, ranging from the highest severity (`MissionCritical`) to lowest (`NonCritical`).

Type: String

Valid Values: `MissionCritical` | `Critical` | `Important` | `CoreServices` | `NonCritical` | `NotApplicable`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResiliencyScore

The overall resiliency score, returned as an object that includes the disruption score and outage score.

## Contents

### disruptionScore

The disruption score for a valid key.

Type: String to double map

Valid Keys: Software | Hardware | AZ | Region

Required: Yes

### score

The outage score for a valid key.

Type: Double

Required: Yes

### componentScore

The score generated by AWS Resilience Hub for the scoring component after running an assessment.

For example, if the score is 25 points, it indicates the overall score of your application generated by AWS Resilience Hub after running an assessment.

Type: String to [ScoringComponentResiliencyScore](#) object map

Valid Keys: Compliance | Test | Alarm | Sop

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceDrift

Indicates the resources that have drifted in the current application version.

## Contents

### appArn

Amazon Resource Name (ARN) of the application whose resources have drifted. The format for this ARN is: `arn:partition:resiliencehub:region:account:app-assessment/app-id`. For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_.-]{0,1023}`

Required: No

### appVersion

Version of the application whose resources have drifted.

Type: String

Pattern: `\S{1,50}`

Required: No

### diffType

Indicates if the resource was added or removed.

Type: String

Valid Values: `NotEqual | Added | Removed`

Required: No

### referenceId

Reference identifier of the resource drift.

Type: String

Pattern: `\S{1,255}`

Required: No

### **resourceIdentifier**

Identifier of the drifted resource.

Type: [ResourceIdentifier](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceError

Defines application resource errors.

## Contents

### **logicalResourceId**

Identifier of the logical resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **physicalResourceId**

Identifier of the physical resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **reason**

This is the error message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# ResourceErrorsDetails

A list of errors retrieving an application's resources.

## Contents

### hasMoreErrors

This indicates if there are more errors not listed in the `resourceErrors` list.

Type: Boolean

Required: No

### resourceErrors

A list of errors retrieving an application's resources.

Type: Array of [ResourceError](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceIdentifier

Defines a resource identifier for the drifted resource.

## Contents

### logicalResourceId

Logical identifier of the drifted resource.

Type: [LogicalResourceId](#) object

Required: No

### resourceType

Type of the drifted resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceMapping

Defines a resource mapping.

## Contents

### mappingType

Specifies the type of resource mapping.

Type: String

Valid Values: CfnStack | Resource | AppRegistryApp | ResourceGroup | Terraform | EKS

Required: Yes

### physicalResourceId

Identifier of the physical resource.

Type: [PhysicalResourceId](#) object

Required: Yes

### appRegistryAppName

Name of the application this resource is mapped to when the mappingType is AppRegistryApp.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

### eksSourceName

Name of the Amazon Elastic Kubernetes Service cluster and namespace that this resource is mapped to when the mappingType is EKS.

#### Note

This parameter accepts values in "eks-cluster/namespace" format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **logicalStackName**

Name of the CloudFormation stack this resource is mapped to when the mappingType is CfnStack.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **resourceGroupName**

Name of the AWS Resource Groups that this resource is mapped to when the mappingType is ResourceGroup.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### **resourceName**

Name of the resource that this resource is mapped to when the mappingType is Resource.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{1,59}

Required: No

### **terraformSourceName**

Name of the Terraform source that this resource is mapped to when the mappingType is Terraform.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3Location

The location of the Amazon S3 bucket.

## Contents

### bucket

The name of the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### prefix

The prefix for the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ScoringComponentResiliencyScore

Resiliency score of each scoring component. For more information about scoring component, see [Calculating resiliency score](#).

## Contents

### **excludedCount**

Number of recommendations that were excluded from the assessment.

For example, if the `excludedCount` for Alarms coverage scoring component is 7, it indicates that 7 Amazon CloudWatch alarms are excluded from the assessment.

Type: Long

Required: No

### **outstandingCount**

Number of recommendations that must be implemented to obtain the maximum possible score for the scoring component. For SOPs, alarms, and tests, these are the number of recommendations that must be implemented. For compliance, these are the number of Application Components that have breached the resiliency policy.

For example, if the `outstandingCount` for Alarms coverage scoring component is 5, it indicates that 5 Amazon CloudWatch alarms need to be implemented to achieve the maximum possible score.

Type: Long

Required: No

### **possibleScore**

Maximum possible score that can be obtained for the scoring component.

For example, if the `possibleScore` is 20 points, it indicates the maximum possible score you can achieve for the scoring component when you run a new assessment after implementing all the AWS Resilience Hub recommendations.

Type: Double

Required: No

### score

Resiliency score points given for the scoring component. The score is always less than or equal to the possibleScore.

Type: Double

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SopRecommendation

Defines a standard operating procedure (SOP) recommendation.

## Contents

### **recommendationId**

Identifier for the SOP recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: Yes

### **referenceId**

Reference identifier for the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### **serviceType**

The service type.

Type: String

Valid Values: SSM

Required: Yes

### **appComponentName**

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

### **description**

Description of the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **items**

The recommendation items.

Type: Array of [RecommendationItem](#) objects

Required: No

### **name**

Name of the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **prerequisite**

Prerequisite for the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **recommendationStatus**

Status of the recommended standard operating procedure.

Type: String

Valid Values: Implemented | Inactive | NotImplemented | Excluded

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Sort

Indicates the sorting order of the fields in the metrics.

## Contents

### field

Indicates the order in which you want to sort the metrics. By default, the list is sorted in ascending order. To sort the list in descending order, set this field to False.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### ascending

Indicates the name or identifier of the field or attribute that should be used as the basis for sorting the metrics.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TerraformSource

The Terraform s3 state file you need to import.

## Contents

### s3StateFileUrl

The URL of the Terraform s3 state file you need to import.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: `((https://([^\./]+)\.s3((-|\.)[^\./]+)?\.amazonaws\.com(\.cn)?)|(s3://([^\./]+)))/\S{1,2000}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TestRecommendation

Defines a test recommendation.

## Contents

### referenceId

Reference identifier for the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### appComponentId

Indicates the identifier of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

### appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

### dependsOnAlarms

A list of recommended alarms that are used in the test and must be exported before or with the test.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **description**

Description for the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **intent**

Intent of the test recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### **items**

The test recommendation items.

Type: Array of [RecommendationItem](#) objects

Required: No

### **name**

Name of the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **prerequisite**

Prerequisite of the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### **recommendationId**

Identifier for the test recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: No

### **recommendationStatus**

Status of the recommended test.

Type: String

Valid Values: Implemented | Inactive | NotImplemented | Excluded

Required: No

### **risk**

Level of risk for this test recommendation.

Type: String

Valid Values: Small | Medium | High

Required: No

### **type**

Type of test recommendation.

Type: String

Valid Values: Software | Hardware | AZ | Region

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UnsupportedResource

Defines a resource that is not supported by AWS Resilience Hub.

## Contents

### **logicalResourceId**

Logical resource identifier for the unsupported resource.

Type: [LogicalResourceId](#) object

Required: Yes

### **physicalResourceId**

Physical resource identifier for the unsupported resource.

Type: [PhysicalResourceId](#) object

Required: Yes

### **resourceType**

The type of resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### **unsupportedResourceStatus**

The status of the unsupported resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateRecommendationStatusItem

Defines the operational recommendation item that needs a status update.

## Contents

### resourceId

Resource identifier of the operational recommendation item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### targetAccountId

Identifier of the target AWS account.

Type: String

Pattern: `[0-9]{12}`

Required: No

### targetRegion

Identifier of the target AWS Region.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# UpdateRecommendationStatusRequestEntry

Defines the operational recommendation item that is to be included or excluded.

## Contents

### entryId

An identifier for an entry in this batch that is used to communicate the result.

#### Note

The entryIds of a batch request need to be unique within a request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### excluded

Indicates if the operational recommendation needs to be excluded. If set to True, the operational recommendation will be excluded.

Type: Boolean

Required: Yes

### referenceId

Reference identifier of the operational recommendation item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### appComponentId

Indicates the identifier of the AppComponent.

Type: String

Pattern: [A-Za-z0-9][A-Za-z0-9\_\-]{0,254}

Required: No

### **excludeReason**

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: AlreadyImplemented | NotRelevant | ComplexityOfImplementation

Required: No

### **item**

The operational recommendation item.

Type: [UpdateRecommendationStatusItem](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

## Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400