



API Reference

# Amazon CodeGuru Profiler



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# Amazon CodeGuru Profiler: API Reference

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# Welcome

This section provides documentation for the Amazon CodeGuru Profiler API operations.

Amazon CodeGuru Profiler collects runtime performance data from your live applications, and provides recommendations that can help you fine-tune your application performance. Using machine learning algorithms, CodeGuru Profiler can help you find your most expensive lines of code and suggest ways you can improve efficiency and remove CPU bottlenecks.

Amazon CodeGuru Profiler provides different visualizations of profiling data to help you identify what code is running on the CPU, see how much time is consumed, and suggest ways to reduce CPU utilization.

## Note

Amazon CodeGuru Profiler currently supports applications written in all Java virtual machine (JVM) languages and Python. While CodeGuru Profiler supports both visualizations and recommendations for applications written in Java, it can also generate visualizations and a subset of recommendations for applications written in other JVM languages and Python.

For more information, see [What is Amazon CodeGuru Profiler](#) in the *Amazon CodeGuru Profiler User Guide*.

This document was last published on April 5, 2026.

# Actions

The following actions are supported:

- [AddNotificationChannels](#)
- [BatchGetFrameMetricData](#)
- [ConfigureAgent](#)
- [CreateProfilingGroup](#)
- [DeleteProfilingGroup](#)
- [DescribeProfilingGroup](#)
- [GetFindingsReportAccountSummary](#)
- [GetNotificationConfiguration](#)
- [GetPolicy](#)
- [GetProfile](#)
- [GetRecommendations](#)
- [ListFindingsReports](#)
- [ListProfileTimes](#)
- [ListProfilingGroups](#)
- [ListTagsForResource](#)
- [PostAgentProfile](#)
- [PutPermission](#)
- [RemoveNotificationChannel](#)
- [RemovePermission](#)
- [SubmitFeedback](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateProfilingGroup](#)

# AddNotificationChannels

Add up to 2 anomaly notifications channels for a profiling group.

## Request Syntax

```
POST /profilingGroups/profilingGroupName/notificationConfiguration HTTP/1.1
Content-type: application/json

{
  "channels": [
    {
      "eventPublishers": [ "string" ],
      "id": "string",
      "uri": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group that we are setting up notifications for.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### channels

One or 2 channels to report to when anomalies are detected.

Type: Array of [Channel](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

## Response Syntax

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

{
  "notificationConfiguration": {
    "channels": [
      {
        "eventPublishers": [ "string" ],
        "id": "string",
        "uri": "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.

### notificationConfiguration

The new notification configuration for this profiling group.

Type: [NotificationConfiguration](#) object

## Errors

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

### ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

### **InternalServerErrorException**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

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**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The parameter 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](#)

# BatchGetFrameMetricData

Returns the time series of values for a requested list of frame metrics from a time period.

## Request Syntax

```
POST /profilingGroups/profilingGroupName/frames/-/metrics?
endTime=endTime&period=period&startTime=startTime&targetResolution=targetResolution
HTTP/1.1
Content-type: application/json

{
  "frameMetrics": [
    {
      "frameName": "string",
      "threadStates": [ "string" ],
      "type": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### endTime

The end time of the time period for the returned time series values. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

### period

The duration of the frame metrics used to return the time series values. Specify using the ISO 8601 format. The maximum period duration is one day (PT24H or P1D).

Length Constraints: Minimum length of 1. Maximum length of 64.

### profilingGroupName

The name of the profiling group associated with the the frame metrics used to return the time series values.

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

Pattern: `[\w- ]+`

Required: Yes

### [startTime](#)

The start time of the time period for the frame metrics used to return the time series values. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

### [targetResolution](#)

The requested resolution of time steps for the returned time series of values. If the requested target resolution is not available due to data not being retained we provide a best effort result by falling back to the most granular available resolution after the target resolution. There are 3 valid values.

- P1D — 1 day
- PT1H — 1 hour
- PT5M — 5 minutes

Valid Values: PT5M | PT1H | P1D

## Request Body

The request accepts the following data in JSON format.

### [frameMetrics](#)

The details of the metrics that are used to request a time series of values. The metric includes the name of the frame, the aggregation type to calculate the metric value for the frame, and the thread states to use to get the count for the metric value of the frame.

Type: Array of [FrameMetric](#) objects

Required: No

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "endTime": "string",
  "endTimes": [
    {
      "value": "string"
    }
  ],
  "frameMetricData": [
    {
      "frameMetric": {
        "frameName": "string",
        "threadStates": [ "string" ],
        "type": "string"
      },
      "values": [ number ]
    }
  ],
  "resolution": "string",
  "startTime": "string",
  "unprocessedEndTimes": {
    "string" : [
      {
        "value": "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.

### endTime

The end time of the time period for the returned time series values. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## endTimes

List of instances, or time steps, in the time series. For example, if the period is one day (PT24H)), and the resolution is five minutes (PT5M), then there are 288 endTime in the list that are each five minutes apart.

Type: Array of [TimestampStructure](#) objects

## frameMetricData

Details of the metrics to request a time series of values. The metric includes the name of the frame, the aggregation type to calculate the metric value for the frame, and the thread states to use to get the count for the metric value of the frame.

Type: Array of [FrameMetricDatum](#) objects

## resolution

Resolution or granularity of the profile data used to generate the time series. This is the value used to jump through time steps in a time series. There are 3 valid values.

- P1D — 1 day
- PT1H — 1 hour
- PT5M — 5 minutes

Type: String

Valid Values: PT5M | PT1H | P1D

## startTime

The start time of the time period for the returned time series values. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## unprocessedEndTimes

List of instances which remained unprocessed. This will create a missing time step in the list of end times.

Type: String to array of [TimestampStructure](#) objects map

## Errors

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

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The parameter 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](#)

# ConfigureAgent

Used by profiler agents to report their current state and to receive remote configuration updates. For example, ConfigureAgent can be used to tell an agent whether to profile or not and for how long to return profiling data.

## Request Syntax

```
POST /profilingGroups/profilingGroupName/configureAgent HTTP/1.1
```

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

```
{
  "fleetInstanceId": "string",
  "metadata": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group for which the configured agent is collecting profiling data.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### fleetInstanceId

A universally unique identifier (UUID) for a profiling instance. For example, if the profiling instance is an Amazon EC2 instance, it is the instance ID. If it is an AWS Fargate container, it is the container's task ID.

Type: String

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

Required: No

### metadata

Metadata captured about the compute platform the agent is running on. It includes information about sampling and reporting. The valid fields are:

- COMPUTE\_PLATFORM - The compute platform on which the agent is running
- AGENT\_ID - The ID for an agent instance.
- AWS\_REQUEST\_ID - The AWS request ID of a Lambda invocation.
- EXECUTION\_ENVIRONMENT - The execution environment a Lambda function is running on.
- LAMBDA\_FUNCTION\_ARN - The Amazon Resource Name (ARN) that is used to invoke a Lambda function.
- LAMBDA\_MEMORY\_LIMIT\_IN\_MB - The memory allocated to a Lambda function.
- LAMBDA\_REMAINING\_TIME\_IN\_MILLISECONDS - The time in milliseconds before execution of a Lambda function times out.
- LAMBDA\_TIME\_GAP\_BETWEEN\_INVOKES\_IN\_MILLISECONDS - The time in milliseconds between two invocations of a Lambda function.
- LAMBDA\_PREVIOUS\_EXECUTION\_TIME\_IN\_MILLISECONDS - The time in milliseconds for the previous Lambda invocation.

Type: String to string map

Valid Keys: ComputePlatform | AgentId | AwsRequestId |  
ExecutionEnvironment | LambdaFunctionArn | LambdaMemoryLimitInMB |  
LambdaRemainingTimeInMilliseconds |  
LambdaTimeGapBetweenInvokesInMilliseconds |  
LambdaPreviousExecutionTimeInMilliseconds

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "agentParameters": {
    "string" : "string"
  },
  "periodInSeconds": number,
  "shouldProfile": boolean
}
```

## 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.

### agentParameters

Parameters used by the profiler. The valid parameters are:

- **MaxStackDepth** - The maximum depth of the stacks in the code that is represented in the profile. For example, if CodeGuru Profiler finds a method A, which calls method B, which calls method C, which calls method D, then the depth is 4. If the `maxDepth` is set to 2, then the profiler evaluates A and B.
- **MemoryUsageLimitPercent** - The percentage of memory that is used by the profiler.
- **MinimumTimeForReportingInMilliseconds** - The minimum time in milliseconds between sending reports.
- **ReportingIntervalInMilliseconds** - The reporting interval in milliseconds used to report profiles.
- **SamplingIntervalInMilliseconds** - The sampling interval in milliseconds that is used to profile samples.

Type: String to string map

Valid Keys: `SamplingIntervalInMilliseconds` |  
`ReportingIntervalInMilliseconds` | `MinimumTimeForReportingInMilliseconds`  
| `MemoryUsageLimitPercent` | `MaxStackDepth`

## periodInSeconds

How long a profiling agent should send profiling data using [ConfigureAgent](#). For example, if this is set to 300, the profiling agent calls [ConfigureAgent](#) every 5 minutes to submit the profiled data collected during that period.

Type: Integer

## shouldProfile

A Boolean that specifies whether the profiling agent collects profiling data or not. Set to true to enable profiling.

Type: Boolean

## Errors

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

### **InternalServerErrorException**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The parameter 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](#)

# CreateProfilingGroup

Creates a profiling group.

## Request Syntax

```
POST /profilingGroups?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "agentOrchestrationConfig": {  
    "profilingEnabled": boolean  
  },  
  "computePlatform": "string",  
  "profilingGroupName": "string",  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### clientToken

Amazon CodeGuru Profiler uses this universally unique identifier (UUID) to prevent the accidental creation of duplicate profiling groups if there are failures and retries.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### agentOrchestrationConfig

Specifies whether profiling is enabled or disabled for the created profiling group.

Type: [AgentOrchestrationConfig](#) object

Required: No

### [computePlatform](#)

The compute platform of the profiling group. Use `AWSLambda` if your application runs on AWS Lambda. Use `Default` if your application runs on a compute platform that is not AWS Lambda, such as an Amazon EC2 instance, an on-premises server, or a different platform. If not specified, `Default` is used.

Type: String

Valid Values: `Default` | `AWSLambda`

Required: No

### [profilingGroupName](#)

The name of the profiling group to create.

Type: String

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

Pattern: `[\w- ]+`

Required: Yes

### [tags](#)

A list of tags to add to the created profiling group.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
```

```
"agentOrchestrationConfig": {
  "profilingEnabled": boolean
},
"arn": "string",
"computePlatform": "string",
"createdAt": "string",
"name": "string",
"profilingStatus": {
  "latestAgentOrchestratedAt": "string",
  "latestAgentProfileReportedAt": "string",
  "latestAggregatedProfile": {
    "period": "string",
    "start": "string"
  }
},
"tags": {
  "string" : "string"
},
"updatedAt": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### [agentOrchestrationConfig](#)

An [AgentOrchestrationConfig](#) object that indicates if the profiling group is enabled for profiled or not.

Type: [AgentOrchestrationConfig](#) object

### [arn](#)

The Amazon Resource Name (ARN) identifying the profiling group resource.

Type: String

### [computePlatform](#)

The compute platform of the profiling group. If it is set to `AWSLambda`, then the profiled application runs on AWS Lambda. If it is set to `Default`, then the profiled application runs on

a compute platform that is not AWS Lambda, such as an Amazon EC2 instance, an on-premises server, or a different platform. The default is `Default`.

Type: String

Valid Values: `Default` | `AWSLambda`

### createdAt

The time when the profiling group was created. Specify using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

### name

The name of the profiling group.

Type: String

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

Pattern: `[\w- ]+`

### profilingStatus

A [ProfilingStatus](#) object that includes information about the last time a profile agent pinged back, the last time a profile was received, and the aggregation period and start time for the most recent aggregated profile.

Type: [ProfilingStatus](#) object

### tags

A list of the tags that belong to this profiling group.

Type: String to string map

### updatedAt

The date and time when the profiling group was last updated. Specify using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## Errors

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

### ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ServiceQuotaExceededException

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

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The parameter 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](#)

# DeleteProfilingGroup

Deletes a profiling group.

## Request Syntax

```
DELETE /profilingGroups/profilingGroupName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group to delete.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

## ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

## InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# DescribeProfilingGroup

Returns a [ProfilingGroupDescription](#) object that contains information about the requested profiling group.

## Request Syntax

```
GET /profilingGroups/profilingGroupName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [profilingGroupName](#)

The name of the profiling group to get information about.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "agentOrchestrationConfig": {
    "profilingEnabled": boolean
  },
  "arn": "string",
  "computePlatform": "string",
  "createdAt": "string",
  "name": "string",
```

```
"profilingStatus": {
  "latestAgentOrchestratedAt": "string",
  "latestAgentProfileReportedAt": "string",
  "latestAggregatedProfile": {
    "period": "string",
    "start": "string"
  }
},
"tags": {
  "string" : "string"
},
"updatedAt": "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.

### agentOrchestrationConfig

An [AgentOrchestrationConfig](#) object that indicates if the profiling group is enabled for profiled or not.

Type: [AgentOrchestrationConfig](#) object

### arn

The Amazon Resource Name (ARN) identifying the profiling group resource.

Type: String

### computePlatform

The compute platform of the profiling group. If it is set to `AWSLambda`, then the profiled application runs on AWS Lambda. If it is set to `Default`, then the profiled application runs on a compute platform that is not AWS Lambda, such as an Amazon EC2 instance, an on-premises server, or a different platform. The default is `Default`.

Type: String

Valid Values: `Default` | `AWSLambda`

### createdAt

The time when the profiling group was created. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

### name

The name of the profiling group.

Type: String

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

Pattern: `[\w- ]+`

### profilingStatus

A [ProfilingStatus](#) object that includes information about the last time a profile agent pinged back, the last time a profile was received, and the aggregation period and start time for the most recent aggregated profile.

Type: [ProfilingStatus](#) object

### tags

A list of the tags that belong to this profiling group.

Type: String to string map

### updatedAt

The date and time when the profiling group was last updated. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## Errors

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

## InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# GetFindingsReportAccountSummary

Returns a list of [FindingsReportSummary](#) objects that contain analysis results for all profiling groups in your AWS account.

## Request Syntax

```
GET /internal/findingsReports?
dailyReportsOnly=dailyReportsOnly&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [dailyReportsOnly](#)

A Boolean value indicating whether to only return reports from daily profiles. If set to `True`, only analysis data from daily profiles is returned. If set to `False`, analysis data is returned from smaller time windows (for example, one hour).

### [maxResults](#)

The maximum number of results returned by `GetFindingsReportAccountSummary` in paginated output. When this parameter is used, `GetFindingsReportAccountSummary` only returns `maxResults` results in a single page along with a `nextToken` response element. The remaining results of the initial request can be seen by sending another `GetFindingsReportAccountSummary` request with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 1000.

### [nextToken](#)

The `nextToken` value returned from a previous paginated `GetFindingsReportAccountSummary` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value.

#### Note

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "reportSummaries": [
    {
      "id": "string",
      "profileEndTime": "string",
      "profileStartTime": "string",
      "profilingGroupName": "string",
      "totalNumberOfFindings": 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.

### [nextToken](#)

The `nextToken` value to include in a future `GetFindingsReportAccountSummary` request. When the results of a `GetFindingsReportAccountSummary` request exceed `maxResults`, this value can be used to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

## [reportSummaries](#)

The return list of [FindingsReportSummary](#) objects that contain summaries of analysis results for all profiling groups in your AWS account.

Type: Array of [FindingsReportSummary](#) objects

## Errors

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

### InternalServerError

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The parameter 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](#)

# GetNotificationConfiguration

Get the current configuration for anomaly notifications for a profiling group.

## Request Syntax

```
GET /profilingGroups/profilingGroupName/notificationConfiguration HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group we want to get the notification configuration for.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "notificationConfiguration": {
    "channels": [
      {
        "eventPublishers": [ "string" ],
        "id": "string",
        "uri": "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.

### [notificationConfiguration](#)

The current notification configuration for this profiling group.

Type: [NotificationConfiguration](#) object

## Errors

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

### **InternalServerError**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The parameter 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](#)

# GetPolicy

Returns the JSON-formatted resource-based policy on a profiling group.

## Request Syntax

```
GET /profilingGroups/profilingGroupName/policy HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group.

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

Pattern: `[\w-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "policy": "string",  
  "revisionId": "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 JSON-formatted resource-based policy attached to the `ProfilingGroup`.

Type: String

### revisionId

A unique identifier for the current revision of the returned policy.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

## Errors

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

### **InternalServerErrorException**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## 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](#)

# GetProfile

Gets the aggregated profile of a profiling group for a specified time range. Amazon CodeGuru Profiler collects posted agent profiles for a profiling group into aggregated profiles.

## Note

Because aggregated profiles expire over time `GetProfile` is not idempotent.

Specify the time range for the requested aggregated profile using 1 or 2 of the following parameters: `startTime`, `endTime`, `period`. The maximum time range allowed is 7 days. If you specify all 3 parameters, an exception is thrown. If you specify only `period`, the latest aggregated profile is returned.

Aggregated profiles are available with aggregation periods of 5 minutes, 1 hour, and 1 day, aligned to UTC. The aggregation period of an aggregated profile determines how long it is retained. For more information, see [AggregatedProfileTime](#). The aggregated profile's aggregation period determines how long it is retained by CodeGuru Profiler.

- If the aggregation period is 5 minutes, the aggregated profile is retained for 15 days.
- If the aggregation period is 1 hour, the aggregated profile is retained for 60 days.
- If the aggregation period is 1 day, the aggregated profile is retained for 3 years.

There are two use cases for calling `GetProfile`.

1. If you want to return an aggregated profile that already exists, use [ListProfileTimes](#) to view the time ranges of existing aggregated profiles. Use them in a `GetProfile` request to return a specific, existing aggregated profile.
2. If you want to return an aggregated profile for a time range that doesn't align with an existing aggregated profile, then CodeGuru Profiler makes a best effort to combine existing aggregated profiles from the requested time range and return them as one aggregated profile.

If aggregated profiles do not exist for the full time range requested, then aggregated profiles for a smaller time range are returned. For example, if the requested time range is from 00:00 to 00:20, and the existing aggregated profiles are from 00:15 and 00:25, then the aggregated profiles from 00:15 to 00:20 are returned.

## Request Syntax

```
GET /profilingGroups/profilingGroupName/profile?  
endTime=endTime&maxDepth=maxDepth&period=period&startTime=startTime HTTP/1.1  
Accept: accept
```

## URI Request Parameters

The request uses the following URI parameters.

### accept

The format of the returned profiling data. The format maps to the Accept and Content-Type headers of the HTTP request. You can specify one of the following: or the default .

- `application/json` — standard JSON format
- `application/x-amzn-ion` — the Amazon Ion data format. For more information, see [Amazon Ion](#).

### endTime

The end time of the requested profile. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

If you specify `endTime`, then you must also specify `period` or `startTime`, but not both.

### maxDepth

The maximum depth of the stacks in the code that is represented in the aggregated profile. For example, if CodeGuru Profiler finds a method A, which calls method B, which calls method C, which calls method D, then the depth is 4. If the `maxDepth` is set to 2, then the aggregated profile contains representations of methods A and B.

Valid Range: Minimum value of 1. Maximum value of 10000.

### period

Used with `startTime` or `endTime` to specify the time range for the returned aggregated profile. Specify using the ISO 8601 format. For example, P1DT1H1M1S.

To get the latest aggregated profile, specify only `period`.

Length Constraints: Minimum length of 1. Maximum length of 64.

## profilingGroupName

The name of the profiling group to get.

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

Pattern: `[\w- ]+`

Required: Yes

## startTime

The start time of the profile to get. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

If you specify `startTime`, then you must also specify `period` or `endTime`, but not both.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-Type: contentType
Content-Encoding: contentEncoding

profile
```

## Response Elements

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

The response returns the following HTTP headers.

### contentEncoding

The content encoding of the profile.

### contentType

The content type of the profile in the payload. It is either `application/json` or the default `application/x-amzn-ion`.

The response returns the following as the HTTP body.

## [profile](#)

Information about the profile.

## Errors

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

### **InternalServerErrorException**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The parameter 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](#)

# GetRecommendations

Returns a list of [Recommendation](#) objects that contain recommendations for a profiling group for a given time period. A list of [Anomaly](#) objects that contains details about anomalies detected in the profiling group for the same time period is also returned.

## Request Syntax

```
GET /internal/profilingGroups/profilingGroupName/recommendations?  
endTime=endTime&locale=locale&startTime=startTime HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [endTime](#)

The end time of the profile to get analysis data about. You must specify `startTime` and `endTime`. This is specified using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Required: Yes

### [locale](#)

The language used to provide analysis. Specify using a string that is one of the following BCP 47 language codes.

- `de-DE` - German, Germany
- `en-GB` - English, United Kingdom
- `en-US` - English, United States
- `es-ES` - Spanish, Spain
- `fr-FR` - French, France
- `it-IT` - Italian, Italy
- `ja-JP` - Japanese, Japan
- `ko-KR` - Korean, Republic of Korea
- `pt-BR` - Portugese, Brazil
- `zh-CN` - Chinese, China

- zh-TW - Chinese, Taiwan

### profilingGroupName

The name of the profiling group to get analysis data about.

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

Pattern: `[\w- ]+`

Required: Yes

### startTime

The start time of the profile to get analysis data about. You must specify `startTime` and `endTime`. This is specified using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "anomalies": [
    {
      "instances": [
        {
          "endTime": "string",
          "id": "string",
          "startTime": "string",
          "userFeedback": {
            "type": "string"
          }
        }
      ]
    },
    "metric": {
```

```

        "frameName": "string",
        "threadStates": [ "string" ],
        "type": "string"
    },
    "reason": "string"
}
],
"profileEndTime": "string",
"profileStartTime": "string",
"profilingGroupName": "string",
"recommendations": [
    {
        "allMatchesCount": number,
        "allMatchesSum": number,
        "endTime": "string",
        "pattern": {
            "countersToAggregate": [ "string" ],
            "description": "string",
            "id": "string",
            "name": "string",
            "resolutionSteps": "string",
            "targetFrames": [
                [ "string" ]
            ],
            "thresholdPercent": number
        },
        "startTime": "string",
        "topMatches": [
            {
                "frameAddress": "string",
                "targetFramesIndex": number,
                "thresholdBreachValue": 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.

## [anomalies](#)

The list of anomalies that the analysis has found for this profile.

Type: Array of [Anomaly](#) objects

## [profileEndTime](#)

The end time of the profile the analysis data is about. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## [profileStartTime](#)

The start time of the profile the analysis data is about. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## [profilingGroupName](#)

The name of the profiling group the analysis data is about.

Type: String

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

Pattern: `[\w- ]+`

## [recommendations](#)

The list of recommendations that the analysis found for this profile.

Type: Array of [Recommendation](#) objects

## Errors

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

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The parameter 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](#)

# ListFindingsReports

List the available reports for a given profiling group and time range.

## Request Syntax

```
GET /internal/profilingGroups/profilingGroupName/findingsReports?  
dailyReportsOnly=dailyReportsOnly&endTime=endTime&maxResults=maxResults&nextToken=nextToken&sta  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### dailyReportsOnly

A Boolean value indicating whether to only return reports from daily profiles. If set to True, only analysis data from daily profiles is returned. If set to False, analysis data is returned from smaller time windows (for example, one hour).

### endTime

The end time of the profile to get analysis data about. You must specify `startTime` and `endTime`. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Required: Yes

### maxResults

The maximum number of report results returned by `ListFindingsReports` in paginated output. When this parameter is used, `ListFindingsReports` only returns `maxResults` results in a single page along with a `nextToken` response element. The remaining results of the initial request can be seen by sending another `ListFindingsReports` request with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 1000.

### nextToken

The `nextToken` value returned from a previous paginated `ListFindingsReportsRequest` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value.

**Note**

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

**profilingGroupName**

The name of the profiling group from which to search for analysis data.

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

Pattern: `[\w- ]+`

Required: Yes

**startTime**

The start time of the profile to get analysis data about. You must specify `startTime` and `endTime`. This is specified using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "findingsReportSummaries": [
    {
      "id": "string",
```

```
    "profileEndTime": "string",
    "profileStartTime": "string",
    "profilingGroupName": "string",
    "totalNumberOfFindings": number
  }
],
"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.

### findingsReportSummaries

The list of analysis results summaries.

Type: Array of [FindingsReportSummary](#) objects

### nextToken

The nextToken value to include in a future ListFindingsReports request. When the results of a ListFindingsReports request exceed maxResults, this value can be used to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

## Errors

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

### **InternalServerError**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# ListProfileTimes

Lists the start times of the available aggregated profiles of a profiling group for an aggregation period within the specified time range.

## Request Syntax

```
GET /profilingGroups/profilingGroupName/profileTimes?  
endTime=endTime&maxResults=maxResults&nextToken=nextToken&orderBy=orderBy&period=period&startTi  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### endTime

The end time of the time range from which to list the profiles.

Required: Yes

### maxResults

The maximum number of profile time results returned by `ListProfileTimes` in paginated output. When this parameter is used, `ListProfileTimes` only returns `maxResults` results in a single page with a `nextToken` response element. The remaining results of the initial request can be seen by sending another `ListProfileTimes` request with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 1000.

### nextToken

The `nextToken` value returned from a previous paginated `ListProfileTimes` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value.

#### Note

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

### orderBy

The order (ascending or descending by start time of the profile) to use when listing profiles. Defaults to `TIMESTAMP_DESCENDING`.

Valid Values: `TimestampDescending` | `TimestampAscending`

### period

The aggregation period. This specifies the period during which an aggregation profile collects posted agent profiles for a profiling group. There are 3 valid values.

- `P1D` — 1 day
- `PT1H` — 1 hour
- `PT5M` — 5 minutes

Valid Values: `PT5M` | `PT1H` | `P1D`

Required: Yes

### profilingGroupName

The name of the profiling group.

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

Pattern: `[\w- ]+`

Required: Yes

### startTime

The start time of the time range from which to list the profiles.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "profileTimes": [
    {
      "start": "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

The nextToken value to include in a future ListProfileTimes request. When the results of a ListProfileTimes request exceed maxResults, this value can be used to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

### profileTimes

The list of start times of the available profiles for the aggregation period in the specified time range.

Type: Array of [ProfileTime](#) objects

## Errors

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

## InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# ListProfilingGroups

Returns a list of profiling groups. The profiling groups are returned as [ProfilingGroupDescription](#) objects.

## Request Syntax

```
GET /profilingGroups?  
includeDescription=includeDescription&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [includeDescription](#)

A Boolean value indicating whether to include a description. If `true`, then a list of [ProfilingGroupDescription](#) objects that contain detailed information about profiling groups is returned. If `false`, then a list of profiling group names is returned.

### [maxResults](#)

The maximum number of profiling groups results returned by `ListProfilingGroups` in paginated output. When this parameter is used, `ListProfilingGroups` only returns `maxResults` results in a single page along with a `nextToken` response element. The remaining results of the initial request can be seen by sending another `ListProfilingGroups` request with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 1000.

### [nextToken](#)

The `nextToken` value returned from a previous paginated `ListProfilingGroups` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value.

#### Note

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "profilingGroupNames": [ "string" ],
  "profilingGroups": [
    {
      "agentOrchestrationConfig": {
        "profilingEnabled": boolean
      },
      "arn": "string",
      "computePlatform": "string",
      "createdAt": "string",
      "name": "string",
      "profilingStatus": {
        "latestAgentOrchestratedAt": "string",
        "latestAgentProfileReportedAt": "string",
        "latestAggregatedProfile": {
          "period": "string",
          "start": "string"
        }
      },
      "tags": {
        "string" : "string"
      },
      "updatedAt": "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](#)

The `nextToken` value to include in a future `ListProfilingGroups` request. When the results of a `ListProfilingGroups` request exceed `maxResults`, this value can be used to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

### [profilingGroupNames](#)

A returned list of profiling group names. A list of the names is returned only if `includeDescription` is `false`, otherwise a list of [ProfilingGroupDescription](#) objects is returned.

Type: Array of strings

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

Pattern: `[\w- ]+`

### [profilingGroups](#)

A returned list [ProfilingGroupDescription](#) objects. A list of [ProfilingGroupDescription](#) objects is returned only if `includeDescription` is `true`, otherwise a list of profiling group names is returned.

Type: Array of [ProfilingGroupDescription](#) objects

## Errors

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

## InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## 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

Returns a list of the tags that are assigned to a specified resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource that contains the tags to return.

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

The list of tags assigned to the specified resource. This is the list of tags returned in the response.

Type: String to string map

## Errors

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

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

### ValidationException

The parameter 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](#)

# PostAgentProfile

Submits profiling data to an aggregated profile of a profiling group. To get an aggregated profile that is created with this profiling data, use [GetProfile](#).

## Request Syntax

```
POST /profilingGroups/profilingGroupName/agentProfile?profileToken=profileToken
HTTP/1.1
Content-Type: contentType

agentProfile
```

## URI Request Parameters

The request uses the following URI parameters.

### [contentType](#)

The format of the submitted profiling data. The format maps to the Accept and Content-Type headers of the HTTP request. You can specify one of the following: or the default .

- `application/json` — standard JSON format
- `application/x-amzn-ion` — the Amazon Ion data format. For more information, see [Amazon Ion](#).

Required: Yes

### [profileToken](#)

Amazon CodeGuru Profiler uses this universally unique identifier (UUID) to prevent the accidental submission of duplicate profiling data if there are failures and retries.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w- ]+`

### [profilingGroupName](#)

The name of the profiling group with the aggregated profile that receives the submitted profiling data.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following binary data.

### agentProfile

The submitted profiling data.

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### **InternalServerError**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# PutPermission

Adds permissions to a profiling group's resource-based policy that are provided using an action group. If a profiling group doesn't have a resource-based policy, one is created for it using the permissions in the action group and the roles and users in the `principals` parameter.

The one supported action group that can be added is `agentPermission` which grants `ConfigureAgent` and `PostAgent` permissions. For more information, see [Resource-based policies in CodeGuru Profiler](#) in the *Amazon CodeGuru Profiler User Guide*, [ConfigureAgent](#), and [PostAgentProfile](#).

The first time you call `PutPermission` on a profiling group, do not specify a `revisionId` because it doesn't have a resource-based policy. Subsequent calls must provide a `revisionId` to specify which revision of the resource-based policy to add the permissions to.

The response contains the profiling group's JSON-formatted resource policy.

## Request Syntax

```
PUT /profilingGroups/profilingGroupName/policy/actionGroup HTTP/1.1
Content-type: application/json

{
  "principals": [ "string" ],
  "revisionId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [actionGroup](#)

Specifies an action group that contains permissions to add to a profiling group resource. One action group is supported, `agentPermissions`, which grants permission to perform actions required by the profiling agent, `ConfigureAgent` and `PostAgentProfile` permissions.

Valid Values: `agentPermissions`

Required: Yes

## profilingGroupName

The name of the profiling group to grant access to.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### principals

A list ARNs for the roles and users you want to grant access to the profiling group. Wildcards are not supported in the ARNs.

Type: Array of strings

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

Required: Yes

### revisionId

A universally unique identifier (UUID) for the revision of the policy you are adding to the profiling group. Do not specify this when you add permissions to a profiling group for the first time. If a policy already exists on the profiling group, you must specify the `revisionId`.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

Required: No

## Response Syntax

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

```
{
  "policy": "string",
  "revisionId": "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 JSON-formatted resource-based policy on the profiling group that includes the added permissions.

Type: String

### revisionId

A universally unique identifier (UUID) for the revision of the resource-based policy that includes the added permissions. The JSON-formatted policy is in the `policy` element of the response.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

## Errors

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

### **ConflictException**

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

### **InternalServerError**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# RemoveNotificationChannel

Remove one anomaly notifications channel for a profiling group.

## Request Syntax

```
DELETE /profilingGroups/profilingGroupName/notificationConfiguration/channelId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### channelId

The id of the channel that we want to stop receiving notifications.

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

Required: Yes

### profilingGroupName

The name of the profiling group we want to change notification configuration for.

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

Pattern: `[\w-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "notificationConfiguration": {
```

```
    "channels": [
      {
        "eventPublishers": [ "string" ],
        "id": "string",
        "uri": "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.

### notificationConfiguration

The new notification configuration for this profiling group.

Type: [NotificationConfiguration](#) object

## Errors

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

### **InternalServerError**

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource specified in the request does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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](#)

# RemovePermission

Removes permissions from a profiling group's resource-based policy that are provided using an action group. The one supported action group that can be removed is `agentPermission` which grants `ConfigureAgent` and `PostAgent` permissions. For more information, see [Resource-based policies in CodeGuru Profiler](#) in the *Amazon CodeGuru Profiler User Guide*, [ConfigureAgent](#), and [PostAgentProfile](#).

## Request Syntax

```
DELETE /profilingGroups/profilingGroupName/policy/actionGroup?revisionId=revisionId
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [actionGroup](#)

Specifies an action group that contains the permissions to remove from a profiling group's resource-based policy. One action group is supported, `agentPermissions`, which grants `ConfigureAgent` and `PostAgentProfile` permissions.

Valid Values: `agentPermissions`

Required: Yes

### [profilingGroupName](#)

The name of the profiling group.

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

Pattern: `[\w- ]+`

Required: Yes

### [revisionId](#)

A universally unique identifier (UUID) for the revision of the resource-based policy from which you want to remove permissions.

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "policy": "string",
  "revisionId": "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 JSON-formatted resource-based policy on the profiling group after the specified permissions were removed.

Type: String

### revisionId

A universally unique identifier (UUID) for the revision of the resource-based policy after the specified permissions were removed. The updated JSON-formatted policy is in the `policy` element of the response.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

## Errors

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

### ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The parameter 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](#)

# SubmitFeedback

Sends feedback to CodeGuru Profiler about whether the anomaly detected by the analysis is useful or not.

## Request Syntax

```
POST /internal/profilingGroups/profilingGroupName/anomalies/anomalyInstanceId/feedback
HTTP/1.1
Content-type: application/json

{
  "comment": "string",
  "type": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [anomalyInstanceId](#)

The universally unique identifier (UUID) of the [AnomalyInstance](#) object that is included in the analysis data.

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

Required: Yes

### [profilingGroupName](#)

The name of the profiling group that is associated with the analysis data.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## comment

Optional feedback about this anomaly.

Type: String

Required: No

## type

The feedback tpye. Thee are two valid values, Positive and Negative.

Type: String

Valid Values: Positive | Negative

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The parameter 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

Use to assign 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

The Amazon Resource Name (ARN) of the resource that the tags are added to.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The list of tags that are added to the specified resource.

Type: String to string map

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### InternalServerError

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

### ValidationException

The parameter 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

Use to remove 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

The Amazon Resource Name (ARN) of the resource that contains the tags to remove.

Required: Yes

### tagKeys

A list of tag keys. Existing tags of resources with keys in this list are removed from the specified resource.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

## InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

## ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

## ValidationException

The parameter 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](#)

# UpdateProfilingGroup

Updates a profiling group.

## Request Syntax

```
PUT /profilingGroups/profilingGroupName HTTP/1.1  
Content-type: application/json
```

```
{  
  "agentOrchestrationConfig": {  
    "profilingEnabled": boolean  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### profilingGroupName

The name of the profiling group to update.

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

Pattern: `[\w- ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### agentOrchestrationConfig

Specifies whether profiling is enabled or disabled for a profiling group.

Type: [AgentOrchestrationConfig](#) object

Required: Yes

## Response Syntax

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

{
  "agentOrchestrationConfig": {
    "profilingEnabled": boolean
  },
  "arn": "string",
  "computePlatform": "string",
  "createdAt": "string",
  "name": "string",
  "profilingStatus": {
    "latestAgentOrchestratedAt": "string",
    "latestAgentProfileReportedAt": "string",
    "latestAggregatedProfile": {
      "period": "string",
      "start": "string"
    }
  },
  "tags": {
    "string" : "string"
  },
  "updatedAt": "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.

### [agentOrchestrationConfig](#)

An [AgentOrchestrationConfig](#) object that indicates if the profiling group is enabled for profiled or not.

Type: [AgentOrchestrationConfig](#) object

### [arn](#)

The Amazon Resource Name (ARN) identifying the profiling group resource.

Type: String

### computePlatform

The compute platform of the profiling group. If it is set to `AWSLambda`, then the profiled application runs on AWS Lambda. If it is set to `Default`, then the profiled application runs on a compute platform that is not AWS Lambda, such as an Amazon EC2 instance, an on-premises server, or a different platform. The default is `Default`.

Type: String

Valid Values: `Default` | `AWSLambda`

### createdAt

The time when the profiling group was created. Specify using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

### name

The name of the profiling group.

Type: String

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

Pattern: `[\w- ]+`

### profilingStatus

A [ProfilingStatus](#) object that includes information about the last time a profile agent pinged back, the last time a profile was received, and the aggregation period and start time for the most recent aggregated profile.

Type: [ProfilingStatus](#) object

### tags

A list of the tags that belong to this profiling group.

Type: String to string map

## updatedAt

The date and time when the profiling group was last updated. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

## Errors

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

### ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

### InternalServerError

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

### ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The parameter 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 Amazon CodeGuru Profiler 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:

- [AgentConfiguration](#)
- [AgentOrchestrationConfig](#)
- [AggregatedProfileTime](#)
- [Anomaly](#)
- [AnomalyInstance](#)
- [Channel](#)
- [FindingsReportSummary](#)
- [FrameMetric](#)
- [FrameMetricDatum](#)
- [Match](#)
- [Metric](#)
- [NotificationConfiguration](#)
- [Pattern](#)
- [ProfileTime](#)
- [ProfilingGroupDescription](#)
- [ProfilingStatus](#)
- [Recommendation](#)
- [TimestampStructure](#)
- [UserFeedback](#)

# AgentConfiguration

The response of [ConfigureAgent](#) that specifies if an agent profiles or not and for how long to return profiling data.

## Contents

### periodInSeconds

How long a profiling agent should send profiling data using [ConfigureAgent](#). For example, if this is set to 300, the profiling agent calls [ConfigureAgent](#) every 5 minutes to submit the profiled data collected during that period.

Type: Integer

Required: Yes

### shouldProfile

A Boolean that specifies whether the profiling agent collects profiling data or not. Set to true to enable profiling.

Type: Boolean

Required: Yes

### agentParameters

Parameters used by the profiler. The valid parameters are:

- `MaxStackDepth` - The maximum depth of the stacks in the code that is represented in the profile. For example, if CodeGuru Profiler finds a method A, which calls method B, which calls method C, which calls method D, then the depth is 4. If the `maxDepth` is set to 2, then the profiler evaluates A and B.
- `MemoryUsageLimitPercent` - The percentage of memory that is used by the profiler.
- `MinimumTimeForReportingInMilliseconds` - The minimum time in milliseconds between sending reports.
- `ReportingIntervalInMilliseconds` - The reporting interval in milliseconds used to report profiles.
- `SamplingIntervalInMilliseconds` - The sampling interval in milliseconds that is used to profile samples.

Type: String to string map

Valid Keys: SamplingIntervalInMilliseconds | ReportingIntervalInMilliseconds | MinimumTimeForReportingInMilliseconds | MemoryUsageLimitPercent | MaxStackDepth

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](#)

# AgentOrchestrationConfig

Specifies whether profiling is enabled or disabled for a profiling group. It is used by [ConfigureAgent](#) to enable or disable profiling for a profiling group.

## Contents

### profilingEnabled

A Boolean that specifies whether the profiling agent collects profiling data or not. Set to `true` to enable profiling.

Type: Boolean

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](#)

# AggregatedProfileTime

Specifies the aggregation period and aggregation start time for an aggregated profile. An aggregated profile is used to collect posted agent profiles during an aggregation period. There are three possible aggregation periods (1 day, 1 hour, or 5 minutes).

## Contents

### period

The aggregation period. This indicates the period during which an aggregation profile collects posted agent profiles for a profiling group. Use one of three valid durations that are specified using the ISO 8601 format.

- P1D — 1 day
- PT1H — 1 hour
- PT5M — 5 minutes

Type: String

Valid Values: PT5M | PT1H | P1D

Required: No

### start

The time that aggregation of posted agent profiles for a profiling group starts. The aggregation profile contains profiles posted by the agent starting at this time for an aggregation period specified by the `period` property of the `AggregatedProfileTime` object.

Specify `start` using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

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](#)

# Anomaly

Details about an anomaly in a specific metric of application profile. The anomaly is detected using analysis of the metric data over a period of time.

## Contents

### instances

A list of the instances of the detected anomalies during the requested period.

Type: Array of [AnomalyInstance](#) objects

Required: Yes

### metric

Details about the metric that the analysis used when it detected the anomaly. The metric includes the name of the frame that was analyzed with the type and thread states used to derive the metric value for that frame.

Type: [Metric](#) object

Required: Yes

### reason

The reason for which metric was flagged as anomalous.

Type: String

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](#)



# AnomalyInstance

The specific duration in which the metric is flagged as anomalous.

## Contents

### id

The universally unique identifier (UUID) of an instance of an anomaly in a metric.

Type: String

Required: Yes

### startTime

The start time of the period during which the metric is flagged as anomalous. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: Yes

### endTime

The end time of the period during which the metric is flagged as anomalous. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

### userFeedback

Feedback type on a specific instance of anomaly submitted by the user.

Type: [UserFeedback](#) 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](#)

# Channel

Notification medium for users to get alerted for events that occur in application profile. We support SNS topic as a notification channel.

## Contents

### eventPublishers

List of publishers for different type of events that may be detected in an application from the profile. Anomaly detection is the only event publisher in Profiler.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: AnomalyDetection

Required: Yes

### uri

Unique arn of the resource to be used for notifications. We support a valid SNS topic arn as a channel uri.

Type: String

Required: Yes

### id

Unique identifier for each Channel in the notification configuration of a Profiling Group. A random UUID for channelId is used when adding a channel to the notification configuration if not specified in the request.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

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](#)

# FindingsReportSummary

Information about potential recommendations that might be created from the analysis of profiling data.

## Contents

### id

The universally unique identifier (UUID) of the recommendation report.

Type: String

Pattern: `.*[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}.*`

Required: No

### profileEndTime

The end time of the period during which the metric is flagged as anomalous. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

### profileStartTime

The start time of the profile the analysis data is about. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

### profilingGroupName

The name of the profiling group that is associated with the analysis data.

Type: String

Required: No

## **totalNumberOfFindings**

The total number of different recommendations that were found by the analysis.

Type: Integer

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](#)

# FrameMetric

The frame name, metric type, and thread states. These are used to derive the value of the metric for the frame.

## Contents

### frameName

Name of the method common across the multiple occurrences of a frame in an application profile.

Type: String

Required: Yes

### threadStates

List of application runtime thread states used to get the counts for a frame a derive a metric value.

Type: Array of strings

Required: Yes

### type

A type of aggregation that specifies how a metric for a frame is analyzed. The supported value `AggregatedRelativeTotalTime` is an aggregation of the metric value for one frame that is calculated across the occurrences of all frames in a profile.

Type: String

Valid Values: `AggregatedRelativeTotalTime`

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](#)

# FrameMetricDatum

Information about a frame metric and its values.

## Contents

### frameMetric

The frame name, metric type, and thread states. These are used to derive the value of the metric for the frame.

Type: [FrameMetric](#) object

Required: Yes

### values

A list of values that are associated with a frame metric.

Type: Array of doubles

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](#)

# Match

The part of a profile that contains a recommendation found during analysis.

## Contents

### **frameAddress**

The location in the profiling graph that contains a recommendation found during analysis.

Type: String

Required: No

### **targetFramesIndex**

The target frame that triggered a match.

Type: Integer

Required: No

### **thresholdBreachValue**

The value in the profile data that exceeded the recommendation threshold.

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](#)

# Metric

Details about the metric that the analysis used when it detected the anomaly. The metric what is analyzed to create recommendations. It includes the name of the frame that was analyzed and the type and thread states used to derive the metric value for that frame.

## Contents

### frameName

The name of the method that appears as a frame in any stack in a profile.

Type: String

Required: Yes

### threadStates

The list of application runtime thread states that is used to calculate the metric value for the frame.

Type: Array of strings

Required: Yes

### type

A type that specifies how a metric for a frame is analyzed. The supported value `AggregatedRelativeTotalTime` is an aggregation of the metric value for one frame that is calculated across the occurrences of all frames in a profile.

Type: String

Valid Values: `AggregatedRelativeTotalTime`

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](#)

# NotificationConfiguration

The configuration for notifications stored for each profiling group. This includes up to two channels and a list of event publishers associated with each channel.

## Contents

### channels

List of up to two channels to be used for sending notifications for events detected from the application profile.

Type: Array of [Channel](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

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](#)

# Pattern

A set of rules used to make a recommendation during an analysis.

## Contents

### **countersToAggregate**

A list of the different counters used to determine if there is a match.

Type: Array of strings

Required: No

### **description**

The description of the recommendation. This explains a potential inefficiency in a profiled application.

Type: String

Required: No

### **id**

The universally unique identifier (UUID) of this pattern.

Type: String

Required: No

### **name**

The name for this pattern.

Type: String

Required: No

### **resolutionSteps**

A string that contains the steps recommended to address the potential inefficiency.

Type: String

Required: No

## targetFrames

A list of frame names that were searched during the analysis that generated a recommendation.

Type: Array of arrays of strings

Required: No

## thresholdPercent

The percentage of time an application spends in one method that triggers a recommendation. The percentage of time is the same as the percentage of the total gathered sample counts during analysis.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

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](#)

# ProfileTime

Contains the start time of a profile.

## Contents

### start

The start time of a profile. It is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

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](#)

# ProfilingGroupDescription

Contains information about a profiling group.

## Contents

### agentOrchestrationConfig

An [AgentOrchestrationConfig](#) object that indicates if the profiling group is enabled for profiled or not.

Type: [AgentOrchestrationConfig](#) object

Required: No

### arn

The Amazon Resource Name (ARN) identifying the profiling group resource.

Type: String

Required: No

### computePlatform

The compute platform of the profiling group. If it is set to `AWSLambda`, then the profiled application runs on AWS Lambda. If it is set to `Default`, then the profiled application runs on a compute platform that is not AWS Lambda, such as an Amazon EC2 instance, an on-premises server, or a different platform. The default is `Default`.

Type: String

Valid Values: `Default` | `AWSLambda`

Required: No

### createdAt

The time when the profiling group was created. Specify using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

**name**

The name of the profiling group.

Type: String

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

Pattern: `[\w- ]+`

Required: No

**profilingStatus**

A [ProfilingStatus](#) object that includes information about the last time a profile agent pinged back, the last time a profile was received, and the aggregation period and start time for the most recent aggregated profile.

Type: [ProfilingStatus](#) object

Required: No

**tags**

A list of the tags that belong to this profiling group.

Type: String to string map

Required: No

**updatedAt**

The date and time when the profiling group was last updated. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

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](#)

# ProfilingStatus

Profiling status includes information about the last time a profile agent pinged back, the last time a profile was received, and the aggregation period and start time for the most recent aggregated profile.

## Contents

### latestAgentOrchestratedAt

The date and time when the profiling agent most recently pinged back. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

### latestAgentProfileReportedAt

The date and time when the most recent profile was received. Specify using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: No

### latestAggregatedProfile

An [AggregatedProfileTime](#) object that contains the aggregation period and start time for an aggregated profile.

Type: [AggregatedProfileTime](#) 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](#)

# Recommendation

A potential improvement that was found from analyzing the profiling data.

## Contents

### **allMatchesCount**

How many different places in the profile graph triggered a match.

Type: Integer

Required: Yes

### **allMatchesSum**

How much of the total sample count is potentially affected.

Type: Double

Required: Yes

### **endTime**

End time of the profile that was used by this analysis. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: Yes

### **pattern**

The pattern that analysis recognized in the profile to make this recommendation.

Type: [Pattern](#) object

Required: Yes

### **startTime**

The start time of the profile that was used by this analysis. This is specified using the ISO 8601 format. For example, 2020-06-01T13:15:02.001Z represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: Timestamp

Required: Yes

### **topMatches**

List of the matches with most impact.

Type: Array of [Match](#) objects

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](#)

# TimestampStructure

A data type that contains a `Timestamp` object. This is specified using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

## Contents

### value

A `Timestamp`. This is specified using the ISO 8601 format. For example, `2020-06-01T13:15:02.001Z` represents 1 millisecond past June 1, 2020 1:15:02 PM UTC.

Type: `Timestamp`

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](#)

# UserFeedback

Feedback that can be submitted for each instance of an anomaly by the user. Feedback is used for improvements in generating recommendations for the application.

## Contents

### type

Optional `Positive` or `Negative` feedback submitted by the user about whether the recommendation is useful or not.

Type: String

Valid Values: `Positive` | `Negative`

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](#)

# 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