Welcome

Amazon Elastic VMware Service

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Amazon Elastic VMware Service: Welcome

Table of Contents

Welcome **1**
Actions **2**
AssociateEipToVlan 3
Request Syntax 3
Request Parameters 3
Response Syntax 4
Response Elements 5
Errors 5
See Also 6
CreateEnvironment 8
Request Syntax 8
Request Parameters 10
Response Syntax 16
Response Elements 17
Errors 17
See Also 18
CreateEnvironmentHost 19
Request Syntax 19
Request Parameters 20
Response Syntax 21
Response Elements 22
Errors 22
See Also 23
DeleteEnvironment 24
Request Syntax 24
Request Parameters 24
Response Syntax 25
Response Elements 26
Errors 27
See Also 28
DeleteEnvironmentHost 29
Request Syntax 29
Request Parameters 29
Response Syntax 30

Response Elements ... 31
Errors ... 31
See Also ... 32
DisassociateEipFromVlan ... 34
Request Syntax ... 34
Request Parameters ... 34
Response Syntax ... 35
Response Elements ... 36
Errors ... 36
See Also ... 37
GetEnvironment ... 39
Request Syntax ... 39
Request Parameters ... 39
Response Syntax ... 39
Response Elements ... 41
Errors ... 41
See Also ... 42
GetVersions ... 43
Response Syntax ... 43
Response Elements ... 43
Errors ... 44
See Also ... 44
ListEnvironmentHosts ... 46
Request Syntax ... 46
Request Parameters ... 46
Response Syntax ... 47
Response Elements ... 47
Errors ... 48
See Also ... 49
ListEnvironments ... 50
Request Syntax ... 50
Request Parameters ... 50
Response Syntax ... 51
Response Elements ... 51
Errors ... 52
See Also ... 52

ListEnvironmentVlans ... 54
Request Syntax ... 54
Request Parameters ... 54
Response Syntax ... 55
Response Elements ... 55
Errors ... 56
See Also ... 57
ListTagsForResource ... 58
Request Syntax ... 58
Request Parameters ... 58
Response Syntax ... 58
Response Elements ... 59
Errors ... 59
See Also ... 60
TagResource ... 61
Request Syntax ... 61
Request Parameters ... 61
Response Elements ... 62
Errors ... 62
See Also ... 64
UntagResource ... 65
Request Syntax ... 65
Request Parameters ... 65
Response Elements ... 66
Errors ... 66
See Also ... 67
Data Types ... 68
Check ... 69
Contents ... 69
See Also ... 70
ConnectivityInfo ... 71
Contents ... 71
See Also ... 71
EipAssociation ... 72
Contents ... 72
See Also ... 73

Environment 74
Contents 74
See Also 78
EnvironmentSummary 80
Contents 80
See Also 82
Host 83
Contents 83
See Also 86
HostInfoForCreate 87
Contents 87
See Also 88
InitialVlanInfo 90
Contents 90
See Also 90
InitialVlans 92
Contents 92
See Also 95
InstanceTypeEsxVersionsInfo 96
Contents 96
See Also 96
LicenseInfo 97
Contents 97
See Also 97
NetworkInterface 99
Contents 99
See Also 99
Secret 100
Contents 100
See Also 100
ServiceAccessSecurityGroups 101
Contents 101
See Also 101
ValidationExceptionField 102
Contents 102
See Also 102

VcfHostnames ... 103
Contents ... 103
See Also ... 105
VcfVersionInfo ... 106
Contents ... 106
See Also ... 107
Vlan ... 108
Contents ... 108
See Also ... 110
Service-specific Errors ... 111
InternalServerException ... 112
Contents ... 112
See Also ... 112
ResourceNotFoundException ... 113
Contents ... 113
See Also ... 113
ServiceQuotaExceededException ... 114
Contents ... 114
See Also ... 114
TagPolicyException ... 115
Contents ... 115
See Also ... 115
ThrottlingException ... 116
Contents ... 116
See Also ... 116
TooManyTagsException ... 117
Contents ... 117
See Also ... 117
ValidationException ... 118
Contents ... 118
See Also ... 118
Common Parameters ... 119
Common Errors ... 122

Welcome

Amazon Elastic VMware Service (Amazon EVS) is a service that you can use to deploy a VMware Cloud Foundation (VCF) software environment directly on EC2 bare metal instances within an Amazon Virtual Private Cloud (VPC).

Workloads running on Amazon EVS are fully compatible with workloads running on any standard VMware vSphere environment. This means that you can migrate any VMware-based workload to Amazon EVS without workload modification.

This document was last published on April 3, 2026.

Actions

The following actions are supported:

- AssociateEipToVlan
- CreateEnvironment
- CreateEnvironmentHost
- DeleteEnvironment
- DeleteEnvironmentHost
- DisassociateEipFromVlan
- GetEnvironment
- GetVersions
- ListEnvironmentHosts
- ListEnvironments
- ListEnvironmentVlans
- ListTagsForResource
- TagResource
- UntagResource

AssociateEipToVlan

Associates an Elastic IP address with a public HCX VLAN. This operation is only allowed for public HCX VLANs at this time.

Request Syntax

```
{
   "allocationId": "string",
   "clientToken": "string",
   "environmentId": "string",
   "vlanName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

allocationId

The Elastic IP address allocation ID.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 26.

Pattern: `eipalloc-[a-zA-Z0-9_-]+`

Required: Yes

environmentId

A unique ID for the environment containing the VLAN that the Elastic IP address associates with.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

vlanName

The name of the VLAN. `hcx` is the only accepted VLAN name at this time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the environment creation request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[!-~]+`

Required: No

Response Syntax

```
{
   "vlan": {
      "availabilityZone": "string",
      "cidr": "string",
      "createdAt": number,
      "eipAssociations": [
         {
```

```
            "allocationId": "string",
            "associationId": "string",
            "ipAddress": "string"
         }
      ],
      "functionName": "string",
      "isPublic": boolean,
      "modifiedAt": number,
      "networkAclId": "string",
      "stateDetails": "string",
      "subnetId": "string",
      "vlanId": number,
      "vlanState": "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.

vlan

The VLANs that Amazon EVS creates during environment creation.

Type: Vlan object

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ThrottlingException

The operation could not be performed because the service is throttling requests. This exception is thrown when the service endpoint receives too many concurrent requests.

message

Describes the error encountered.

retryAfterSeconds

The seconds to wait to retry.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

CreateEnvironment

Creates an Amazon EVS environment that runs VCF software, such as SDDC Manager, NSX Manager, and vCenter Server.

During environment creation, Amazon EVS performs validations on DNS settings, provisions VLAN subnets and hosts, and deploys the supplied version of VCF.

It can take several hours to create an environment. After the deployment completes, you can configure VCF in the vSphere user interface according to your needs.

Important

When creating a new environment, the default ESX version for the selected VCF version will be used, you cannot choose a specific ESX version in `CreateEnvironment` action. When a host has been added with a specific ESX version, it can only be upgraded using vCenter Lifecycle Manager.

Note

You cannot use the `dedicatedHostId` and `placementGroupId` parameters together in the same `CreateEnvironment` action. This results in a `ValidationException` response.

Request Syntax

```
{
   "clientToken": "string",
   "connectivityInfo": {
      "privateRouteServerPeerings": [ "string" ]
   },
   "environmentName": "string",
   "hosts": [
      {
         "dedicatedHostId": "string",
         "hostName": "string",
         "instanceType": "string",
         "keyName": "string",
         "placementGroupId": "string"
```

```
      }
   ],
   "initialVlans": {
      "edgeVTep": {
         "cidr": "string"
      },
      "expansionVlan1": {
         "cidr": "string"
      },
      "expansionVlan2": {
         "cidr": "string"
      },
      "hcx": {
         "cidr": "string"
      },
      "hcxNetworkAclId": "string",
      "isHcxPublic": boolean,
      "nsxUplink": {
         "cidr": "string"
      },
      "vmkManagement": {
         "cidr": "string"
      },
      "vmManagement": {
         "cidr": "string"
      },
      "vMotion": {
         "cidr": "string"
      },
      "vSan": {
         "cidr": "string"
      },
      "vTep": {
         "cidr": "string"
      }
   },
   "kmsKeyId": "string",
   "licenseInfo": [
      {
         "solutionKey": "string",
         "vsanKey": "string"
      }
   ],
   "serviceAccessSecurityGroups": {
```

```
      "securityGroups": [ "string" ]
   },
   "serviceAccessSubnetId": "string",
   "siteId": "string",
   "tags": {
      "string" : "string"
   },
   "termsAccepted": boolean,
   "vcfHostnames": {
      "cloudBuilder": "string",
      "nsx": "string",
      "nsxEdge1": "string",
      "nsxEdge2": "string",
      "nsxManager1": "string",
      "nsxManager2": "string",
      "nsxManager3": "string",
      "sddcManager": "string",
      "vCenter": "string"
   },
   "vcfVersion": "string",
   "vpcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

connectivityInfo

The connectivity configuration for the environment. Amazon EVS requires that you specify two route server peer IDs. During environment creation, the route server endpoints peer with the NSX edges over the NSX uplink subnet, providing BGP-based dynamic routing for overlay networks.

Type: ConnectivityInfo object

Required: Yes

hosts

The ESX hosts to add to the environment. Amazon EVS requires that you provide details for a minimum of 4 hosts during environment creation.

For each host, you must provide the desired hostname, EC2 SSH keypair name, and EC2 instance type. Optionally, you can also provide a partition or cluster placement group to use, or use Amazon EC2 Dedicated Hosts.

Type: Array of HostInfoForCreate objects

Array Members: Fixed number of 4 items.

Required: Yes

initialVlans

The initial VLAN subnets for the Amazon EVS environment.

> **Note**
>
> For each Amazon EVS VLAN subnet, you must specify a non-overlapping CIDR block. Amazon EVS VLAN subnets have a minimum CIDR block size of /28 and a maximum size of /24.

Type: InitialVlans object

Required: Yes

licenseInfo

The license information that Amazon EVS requires to create an environment. Amazon EVS requires two license keys: a VCF solution key and a vSAN license key. The VCF solution key must cover a minimum of 256 cores. The vSAN license key must provide at least 110 TiB of vSAN capacity.

VCF licenses can be used for only one Amazon EVS environment. Amazon EVS does not support reuse of VCF licenses for multiple environments.

VCF license information can be retrieved from the Broadcom portal.

Type: Array of LicenseInfo objects

Array Members: Fixed number of 1 item.

Required: Yes

serviceAccessSubnetId

The subnet that is used to establish connectivity between the Amazon EVS control plane and VPC. Amazon EVS uses this subnet to validate mandatory DNS records for your VCF appliances and hosts and create the environment.

Type: String

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `subnet-[a-f0-9]{8}([a-f0-9]{9})?`

Required: Yes

siteId

The Broadcom Site ID that is allocated to you as part of your electronic software delivery. This ID allows customer access to the Broadcom portal, and is provided to you by Broadcom at the close of your software contract or contract renewal. Amazon EVS uses the Broadcom Site ID that you provide to meet Broadcom VCF license usage reporting requirements for Amazon EVS.

Type: String

Required: Yes

termsAccepted

Customer confirmation that the customer has purchased and will continue to maintain the required number of VCF software licenses to cover all physical processor cores in the Amazon EVS environment. Information about your VCF software in Amazon EVS will be shared with Broadcom to verify license compliance. Amazon EVS does not validate license keys. To validate license keys, visit the Broadcom support portal.

Type: Boolean

Required: Yes

vcfHostnames

The DNS hostnames for the virtual machines that host the VCF management appliances. Amazon EVS requires that you provide DNS hostnames for the following appliances: vCenter, NSX Manager, SDDC Manager, and Cloud Builder.

Type: VcfHostnames object

Required: Yes

vcfVersion

The VCF version to use for the environment.

Type: String

Valid Values: `VCF-5.2.1 | VCF-5.2.2`

Required: Yes

vpcId

A unique ID for the VPC that the environment is deployed inside.

Amazon EVS requires that all VPC subnets exist in a single Availability Zone in a Region where the service is available.

The VPC that you specify must have a valid DHCP option set with domain name, at least two DNS servers, and an NTP server. These settings are used to configure your VCF appliances and hosts. The VPC cannot be used with any other deployed Amazon EVS environment. Amazon EVS does not provide multi-VPC support for environments at this time.

Amazon EVS does not support the following AWS networking options for NSX overlay connectivity: cross-Region VPC peering, Amazon S3 gateway endpoints, or AWS Direct Connect virtual private gateway associations.

> **Note**
>
> Ensure that you specify a VPC that is adequately sized to accommodate the Amazon EVS subnets.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `vpc-[a-f0-9]{8}([a-f0-9]{9})?`

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the environment creation request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[!-~]+`

Required: No

environmentName

The name to give to your environment. The name can contain only alphanumeric characters (case-sensitive), hyphens, and underscores. It must start with an alphanumeric character, and can't be longer than 100 characters. The name must be unique within the AWS Region and AWS account that you're creating the environment in.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

kmsKeyId

A unique ID for the customer-managed KMS key that is used to encrypt the VCF credential pairs for SDDC Manager, NSX Manager, and vCenter appliances. These credentials are stored in AWS Secrets Manager.

Type: String

Required: No

serviceAccessSecurityGroups

The security group that controls communication between the Amazon EVS control plane and VPC. The default security group is used if a custom security group isn't specified.

The security group should allow access to the following.

- TCP/UDP access to the DNS servers
- HTTPS/SSH access to the host management VLAN subnet
- HTTPS/SSH access to the Management VM VLAN subnet

You should avoid modifying the security group rules after deployment, as this can break the persistent connection between the Amazon EVS control plane and VPC. This can cause future environment actions like adding or removing hosts to fail.

Type: ServiceAccessSecurityGroups object

Required: No

tags

Metadata that assists with categorization and organization. Each tag consists of a key and an optional value. You define both. Tags don't propagate to any other cluster or AWS resources.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `[\w.:/=+-@]+`

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

Value Pattern: `[\w.:/=+-@]+|`

Required: No

Response Syntax

```
{
   "environment": {
      "checks": [
         {
            "impairedSince": number,
            "result": "string",
            "type": "string"
         }
      ],
      "connectivityInfo": {
         "privateRouteServerPeerings": [ "string" ]
      },
      "createdAt": number,
      "credentials": [
         {
            "secretArn": "string"
         }
      ],
      "environmentArn": "string",
      "environmentId": "string",
      "environmentName": "string",
      "environmentState": "string",
      "environmentStatus": "string",
      "kmsKeyId": "string",
      "licenseInfo": [
         {
            "solutionKey": "string",
            "vsanKey": "string"
         }
      ],
      "modifiedAt": number,
      "serviceAccessSecurityGroups": {
         "securityGroups": [ "string" ]
      },
      "serviceAccessSubnetId": "string",
      "siteId": "string",
      "stateDetails": "string",
```

```
      "termsAccepted": boolean,
      "vcfHostnames": {
         "cloudBuilder": "string",
         "nsx": "string",
         "nsxEdge1": "string",
         "nsxEdge2": "string",
         "nsxManager1": "string",
         "nsxManager2": "string",
         "nsxManager3": "string",
         "sddcManager": "string",
         "vCenter": "string"
      },
      "vcfVersion": "string",
      "vpcId": "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.

environment

A description of the created environment.

Type: Environment object

Errors

For information about the errors that are common to all actions, see Common Errors.

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

CreateEnvironmentHost

Creates an ESX host and adds it to an Amazon EVS environment. Amazon EVS supports 4-16 hosts per environment.

This action can only be used after the Amazon EVS environment is deployed.

You can use the `dedicatedHostId` parameter to specify an Amazon EC2 Dedicated Host for ESX host creation.

You can use the `placementGroupId` parameter to specify a cluster or partition placement group to launch EC2 instances into.

> **Note**
>
> If you don't specify an ESX version when adding hosts using `CreateEnvironmentHost` action, Amazon EVS automatically uses the default ESX version associated with your environment's VCF version. To find the default ESX version for a particular VCF version, use the `GetVersions` action.

> **Note**
>
> You cannot use the `dedicatedHostId` and `placementGroupId` parameters together in the same `CreateEnvironmentHost` action. This results in a `ValidationException` response.

Request Syntax

```
{
   "clientToken": "string",
   "environmentId": "string",
   "esxVersion": "string",
   "host": {
      "dedicatedHostId": "string",
      "hostName": "string",
      "instanceType": "string",
      "keyName": "string",
      "placementGroupId": "string"
```

```
    }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID for the environment that the host is added to.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

host

The host that is created and added to the environment.

Type: HostInfoForCreate object

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the host creation request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [!-~]+

Required: No

esxVersion

The ESX version to use for the host.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

Response Syntax

```
{
   "environmentSummary": {
      "createdAt": number,
      "environmentArn": "string",
      "environmentId": "string",
      "environmentName": "string",
      "environmentState": "string",
      "environmentStatus": "string",
      "modifiedAt": number,
      "vcfVersion": "string"
   },
   "host": {
      "createdAt": number,
      "dedicatedHostId": "string",
      "ec2InstanceId": "string",
      "hostName": "string",
      "hostState": "string",
      "instanceType": "string",
      "ipAddress": "string",
      "keyName": "string",
      "modifiedAt": number,
      "networkInterfaces": [
         {
```

```
            "networkInterfaceId": "string"
         }
      ],
      "placementGroupId": "string",
      "stateDetails": "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.

environmentSummary

A summary of the environment that the host is created in.

Type: EnvironmentSummary object

host

A description of the created host.

Type: Host object

Errors

For information about the errors that are common to all actions, see Common Errors.

ThrottlingException

The operation could not be performed because the service is throttling requests. This exception is thrown when the service endpoint receives too many concurrent requests.

message

Describes the error encountered.

retryAfterSeconds

The seconds to wait to retry.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

DeleteEnvironment

Deletes an Amazon EVS environment.

Amazon EVS environments will only be enabled for deletion once the hosts are deleted. You can delete hosts using the `DeleteEnvironmentHost` action.

Environment deletion also deletes the associated Amazon EVS VLAN subnets and AWS Secrets Manager secrets that Amazon EVS created. AWS resources that you create are not deleted. These resources may continue to incur costs.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID associated with the environment to be deleted.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the environment deletion request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[!-~]+`

Required: No

Response Syntax

```
{
   "environment": {
      "checks": [
         {
            "impairedSince": number,
            "result": "string",
            "type": "string"
         }
      ],
      "connectivityInfo": {
         "privateRouteServerPeerings": [ "string" ]
      },
      "createdAt": number,
      "credentials": [
         {
            "secretArn": "string"
         }
      ],
      "environmentArn": "string",
      "environmentId": "string",
```

```
      "environmentName": "string",
      "environmentState": "string",
      "environmentStatus": "string",
      "kmsKeyId": "string",
      "licenseInfo": [
         {
            "solutionKey": "string",
            "vsanKey": "string"
         }
      ],
      "modifiedAt": number,
      "serviceAccessSecurityGroups": {
         "securityGroups": [ "string" ]
      },
      "serviceAccessSubnetId": "string",
      "siteId": "string",
      "stateDetails": "string",
      "termsAccepted": boolean,
      "vcfHostnames": {
         "cloudBuilder": "string",
         "nsx": "string",
         "nsxEdge1": "string",
         "nsxEdge2": "string",
         "nsxManager1": "string",
         "nsxManager2": "string",
         "nsxManager3": "string",
         "sddcManager": "string",
         "vCenter": "string"
      },
      "vcfVersion": "string",
      "vpcId": "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.

environment

A description of the deleted environment.

Type: Environment object

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

DeleteEnvironmentHost

Deletes a host from an Amazon EVS environment.

> **Note**
>
> Before deleting a host, you must unassign and decommission the host from within the SDDC Manager user interface. Not doing so could impact the availability of your virtual machines or result in data loss.

Request Syntax

```
{
   "clientToken": "string",
   "environmentId": "string",
   "hostName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID for the host's environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

hostName

The DNS hostname associated with the host to be deleted.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the host deletion request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[!-~]+`

Required: No

Response Syntax

```
{
   "environmentSummary": {
      "createdAt": number,
      "environmentArn": "string",
      "environmentId": "string",
      "environmentName": "string",
      "environmentState": "string",
      "environmentStatus": "string",
      "modifiedAt": number,
```

```
      "vcfVersion": "string"
   },
   "host": {
      "createdAt": number,
      "dedicatedHostId": "string",
      "ec2InstanceId": "string",
      "hostName": "string",
      "hostState": "string",
      "instanceType": "string",
      "ipAddress": "string",
      "keyName": "string",
      "modifiedAt": number,
      "networkInterfaces": [
         {
            "networkInterfaceId": "string"
         }
      ],
      "placementGroupId": "string",
      "stateDetails": "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.

environmentSummary

A summary of the environment that the host was deleted from.

Type: EnvironmentSummary object

host

A description of the deleted host.

Type: Host object

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

DisassociateEipFromVlan

Disassociates an Elastic IP address from a public HCX VLAN. This operation is only allowed for public HCX VLANs at this time.

Request Syntax

```
{
   "associationId": "string",
   "clientToken": "string",
   "environmentId": "string",
   "vlanName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

associationId

A unique ID for the Elastic IP address association.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 26.

Pattern: `eipassoc-[a-zA-Z0-9_-]+`

Required: Yes

environmentId

A unique ID for the environment containing the VLAN that the Elastic IP address disassociates from.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

vlanName

The name of the VLAN. `hcx` is the only accepted VLAN name at this time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: Yes

clientToken

> **Note**
>
> This parameter is not used in Amazon EVS currently. If you supply input for this parameter, it will have no effect.

A unique, case-sensitive identifier that you provide to ensure the idempotency of the environment creation request. If you do not specify a client token, a randomly generated token is used for the request to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[!-~]+`

Required: No

Response Syntax

```
{
   "vlan": {
      "availabilityZone": "string",
      "cidr": "string",
      "createdAt": number,
      "eipAssociations": [
         {
```

```
            "allocationId": "string",
            "associationId": "string",
            "ipAddress": "string"
         }
      ],
      "functionName": "string",
      "isPublic": boolean,
      "modifiedAt": number,
      "networkAclId": "string",
      "stateDetails": "string",
      "subnetId": "string",
      "vlanId": number,
      "vlanState": "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.

vlan

The VLANs that Amazon EVS creates during environment creation.

Type: Vlan object

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ThrottlingException

The operation could not be performed because the service is throttling requests. This exception is thrown when the service endpoint receives too many concurrent requests.

message

Describes the error encountered.

retryAfterSeconds

The seconds to wait to retry.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

GetEnvironment

Returns a description of the specified environment.

Request Syntax

```
{
   "environmentId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID for the environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

Response Syntax

```
{
   "environment": {
      "checks": [
         {
            "impairedSince": number,
            "result": "string",
            "type": "string"
         }
```

```
      ],
      "connectivityInfo": {
         "privateRouteServerPeerings": [ "string" ]
      },
      "createdAt": number,
      "credentials": [
         {
            "secretArn": "string"
         }
      ],
      "environmentArn": "string",
      "environmentId": "string",
      "environmentName": "string",
      "environmentState": "string",
      "environmentStatus": "string",
      "kmsKeyId": "string",
      "licenseInfo": [
         {
            "solutionKey": "string",
            "vsanKey": "string"
         }
      ],
      "modifiedAt": number,
      "serviceAccessSecurityGroups": {
         "securityGroups": [ "string" ]
      },
      "serviceAccessSubnetId": "string",
      "siteId": "string",
      "stateDetails": "string",
      "termsAccepted": boolean,
      "vcfHostnames": {
         "cloudBuilder": "string",
         "nsx": "string",
         "nsxEdge1": "string",
         "nsxEdge2": "string",
         "nsxManager1": "string",
         "nsxManager2": "string",
         "nsxManager3": "string",
         "sddcManager": "string",
         "vCenter": "string"
      },
      "vcfVersion": "string",
      "vpcId": "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.

environment

A description of the requested environment.

Type: Environment object

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

GetVersions

Returns information about VCF versions, ESX versions and EC2 instance types provided by Amazon EVS. For each VCF version, the response also includes the default ESX version and provided EC2 instance types.

Response Syntax

```
{
   "instanceTypeEsxVersions": [
      {
         "esxVersions": [ "string" ],
         "instanceType": "string"
      }
   ],
   "vcfVersions": [
      {
         "defaultEsxVersion": "string",
         "instanceTypes": [ "string" ],
         "status": "string",
         "vcfVersion": "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.

instanceTypeEsxVersions

A list of EC2 instance types and their available ESX versions.

Type: Array of InstanceTypeEsxVersionsInfo objects

vcfVersions

A list of VCF versions with their availability status, default ESX version, and instance types.

Type: Array of VcfVersionInfo objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal server error occurred. Retry your request.

message

Describes the error encountered.

HTTP Status Code: 500

ThrottlingException

The operation could not be performed because the service is throttling requests. This exception is thrown when the service endpoint receives too many concurrent requests.

message

Describes the error encountered.

retryAfterSeconds

The seconds to wait to retry.

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

ListEnvironmentHosts

List the hosts within an environment.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID for the environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

maxResults

The maximum number of results to return. If you specify `MaxResults` in the request, the response includes information up to the limit specified.

Type: Integer

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

Required: No

nextToken

A unique pagination token for each page. If `nextToken` is returned, there are more results available. Make the call again using the returned token with all other arguments unchanged to retrieve the next page. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken* error.

Type: String

Required: No

Response Syntax

```
{
   "environmentHosts": [
      {
         "createdAt": number,
         "dedicatedHostId": "string",
         "ec2InstanceId": "string",
         "hostName": "string",
         "hostState": "string",
         "instanceType": "string",
         "ipAddress": "string",
         "keyName": "string",
         "modifiedAt": number,
         "networkInterfaces": [
            {
               "networkInterfaceId": "string"
            }
         ],
         "placementGroupId": "string",
         "stateDetails": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

environmentHosts

A list of hosts in the environment.

Type: Array of Host objects

nextToken

A unique pagination token for next page results. Make the call again using this token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

ListEnvironments

Lists the Amazon EVS environments in your AWS account in the specified AWS Region.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "state": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

maxResults

The maximum number of results to return. If you specify `MaxResults` in the request, the response includes information up to the limit specified.

Type: Integer

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

Required: No

nextToken

A unique pagination token for each page. If `nextToken` is returned, there are more results available. Make the call again using the returned token with all other arguments unchanged to retrieve the next page. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken* error.

Type: String

Required: No

state

The state of an environment. Used to filter response results to return only environments with the specified `environmentState`.

Type: Array of strings

Valid Values: `CREATING | CREATED | DELETING | DELETED | CREATE_FAILED`

Required: No

Response Syntax

```
{
   "environmentSummaries": [
      {
         "createdAt": number,
         "environmentArn": "string",
         "environmentId": "string",
         "environmentName": "string",
         "environmentState": "string",
         "environmentStatus": "string",
         "modifiedAt": number,
         "vcfVersion": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

environmentSummaries

A list of environments with summarized environment details.

Type: Array of EnvironmentSummary objects

nextToken

A unique pagination token for next page results. Make the call again using this token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

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

ListEnvironmentVlans

Lists environment VLANs that are associated with the specified environment.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

environmentId

A unique ID for the environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: Yes

maxResults

The maximum number of results to return. If you specify `MaxResults` in the request, the response includes information up to the limit specified.

Type: Integer

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

Required: No

nextToken

A unique pagination token for each page. If `nextToken` is returned, there are more results available. Make the call again using the returned token with all other arguments unchanged to retrieve the next page. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken* error.

Type: String

Required: No

Response Syntax

```
{
   "environmentVlans": [
      {
         "availabilityZone": "string",
         "cidr": "string",
         "createdAt": number,
         "eipAssociations": [
            {
               "allocationId": "string",
               "associationId": "string",
               "ipAddress": "string"
            }
         ],
         "functionName": "string",
         "isPublic": boolean,
         "modifiedAt": number,
         "networkAclId": "string",
         "stateDetails": "string",
         "subnetId": "string",
         "vlanId": number,
         "vlanState": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

environmentVlans

A list of VLANs that are associated with the specified environment.

Type: Array of Vlan objects

nextToken

A unique pagination token for next page results. Make the call again using this token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

fieldList

A list of fields that didn't validate.

message

Describes the error encountered.

reason

The reason for the exception.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

Lists the tags for an Amazon EVS resource.

Request Syntax

```
{
   "resourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

resourceArn

The Amazon Resource Name (ARN) that identifies the resource to list tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws:evs:[a-z]{2}-[a-z]+-[0-9]:[0-9]{12}:environment/[a-zA-Z0-9_-]+`

Required: Yes

Response Syntax

```
{
   "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 tags for the resource.

Type: String to string map

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

Key Pattern: `[\w.:/=+-@]+`

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

Value Pattern: `[\w.:/=+-@]+|`

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

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

Associates the specified tags to an Amazon EVS resource with the specified `resourceArn`. If existing tags on a resource are not specified in the request parameters, they aren't changed. When a resource is deleted, the tags associated with that resource are also deleted. Tags that you create for Amazon EVS resources don't propagate to any other resources associated with the environment. For example, if you tag an environment with this operation, that tag doesn't automatically propagate to the VLAN subnets and hosts associated with the environment.

Request Syntax

```
{
   "resourceArn": "string",
   "tags": {
      "string" : "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

resourceArn

The Amazon Resource Name (ARN) of the resource to add tags to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws:evs:[a-z]{2}-[a-z]+-[0-9]:[0-9]{12}:environment/[a-zA-Z0-9_-]+`

Required: Yes

tags

Metadata that assists with categorization and organization. Each tag consists of a key and an optional value. You define both. Tags don't propagate to any other environment or AWS resources.

Type: String to string map

Map Entries: Maximum number of 200 items.

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

Key Pattern: `[\w.:/=+-@]+`

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

Value Pattern: `[\w.:/=+-@]+|`

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

ServiceQuotaExceededException

The number of one or more Amazon EVS resources exceeds the maximum allowed. For a list of Amazon EVS quotas, see Amazon EVS endpoints and quotas in the *Amazon EVS User Guide*. Delete some resources or request an increase in your service quota. To request an increase, see AWS Service Quotas in the *AWS General Reference Guide*.

message

Describes the error encountered.

HTTP Status Code: 400

TagPolicyException

> **Note**
>
> `TagPolicyException` is deprecated. See `ValidationException` instead.

The request doesn't comply with IAM tag policy. Correct your request and then retry it.

message

Describes the error encountered

HTTP Status Code: 400

TooManyTagsException

> **Note**
>
> `TooManyTagsException` is deprecated. See `ServiceQuotaExceededException` instead.

A service resource associated with the request has more than 200 tags.

message

Describes the error encountered.

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

Deletes specified tags from an Amazon EVS resource.

Request Syntax

```
{
   "resourceArn": "string",
   "tagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

> **Note**
>
> In the following list, the required parameters are described first.

resourceArn

The Amazon Resource Name (ARN) of the resource to delete tags from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws:evs:[a-z]{2}-[a-z]+-[0-9]:[0-9]{12}:environment/[a-zA-Z0-9_-]+`

Required: Yes

tagKeys

The keys of the tags to delete.

Type: Array of strings

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

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

Pattern: `[\w.:/=+-@]+`

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors.

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

message

Describes the error encountered.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 400

TagPolicyException

> **Note**
>
> `TagPolicyException` is deprecated. See `ValidationException` instead.

The request doesn't comply with IAM tag policy. Correct your request and then retry it.

message

Describes the error encountered

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 Elastic VMware Service 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:

- Check
- ConnectivityInfo
- EipAssociation
- Environment
- EnvironmentSummary
- Host
- HostInfoForCreate
- InitialVlanInfo
- InitialVlans
- InstanceTypeEsxVersionsInfo
- LicenseInfo
- NetworkInterface
- Secret
- ServiceAccessSecurityGroups
- ValidationExceptionField
- VcfHostnames
- VcfVersionInfo
- Vlan

Check

A check on the environment to identify environment health and validate VMware VCF licensing compliance.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

impairedSince

The time when environment health began to be impaired.

Type: Timestamp

Required: No

result

The check result.

Type: String

Valid Values: `PASSED | FAILED | UNKNOWN`

Required: No

type

The check type. Amazon EVS performs the following checks.

- `KEY_REUSE`: checks that the VCF license key is not used by another Amazon EVS environment. This check fails if a used license is added to the environment.
- `KEY_COVERAGE`: checks that your VCF license key allocates sufficient vCPU cores for all deployed hosts. The check fails when any assigned hosts in the EVS environment are not covered by license keys, or when any unassigned hosts cannot be covered by available vCPU cores in keys.
- `REACHABILITY`: checks that the Amazon EVS control plane has a persistent connection to SDDC Manager. If Amazon EVS cannot reach the environment, this check fails.

- `HOST_COUNT`: Checks that your environment has a minimum of 4 hosts.

  If this check fails, you will need to add hosts so that your environment meets this minimum requirement. Amazon EVS only supports environments with 4-16 hosts.

Type: String

Valid Values: `KEY_REUSE | KEY_COVERAGE | REACHABILITY | HOST_COUNT`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectivityInfo

The connectivity configuration for the environment. Amazon EVS requires that you specify two route server peer IDs. During environment creation, the route server endpoints peer with the NSX uplink VLAN for connectivity to the NSX overlay network.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

privateRouteServerPeerings

The unique IDs for private route server peers.

Type: Array of strings

Array Members: Fixed number of 2 items.

Length Constraints: Minimum length of 3. Maximum length of 21.

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

EipAssociation

An Elastic IP address association with the elastic network interface in the VLAN subnet.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

allocationId

The Elastic IP address allocation ID.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 26.

Pattern: `eipalloc-[a-zA-Z0-9_-]+`

Required: No

associationId

A unique ID for the elastic IP address association with the VLAN subnet.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 26.

Pattern: `eipassoc-[a-zA-Z0-9_-]+`

Required: No

ipAddress

The Elastic IP address.

Type: String

Pattern: `(\d{1,3}\.){3}\d{1,3}`

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

Environment

An object that represents an Amazon EVS environment.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

checks

A check on the environment to identify instance health and VMware VCF licensing issues.

Type: Array of Check objects

Required: No

connectivityInfo

The connectivity configuration for the environment. Amazon EVS requires that you specify two route server peer IDs. During environment creation, the route server endpoints peer with the NSX uplink VLAN for connectivity to the NSX overlay network.

Type: ConnectivityInfo object

Required: No

createdAt

The date and time that the environment was created.

Type: Timestamp

Required: No

credentials

The VCF credentials that are stored as Amazon EVS managed secrets in AWS Secrets Manager.

Amazon EVS stores credentials that are needed to install vCenter Server, NSX, and SDDC Manager.

Type: Array of Secret objects

Required: No

environmentArn

The Amazon Resource Name (ARN) that is associated with the environment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws:evs:[a-z]{2}-[a-z]+-[0-9]:[0-9]{12}:environment/[a-zA-Z0-9_-]+`

Required: No

environmentId

The unique ID for the environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: No

environmentName

The name of the environment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

environmentState

The state of an environment.

Type: String

Valid Values: `CREATING | CREATED | DELETING | DELETED | CREATE_FAILED`

Required: No

environmentStatus

Reports impaired functionality that stems from issues internal to the environment, such as impaired reachability.

Type: String

Valid Values: `PASSED | FAILED | UNKNOWN`

Required: No

kmsKeyId

The AWS KMS key ID that AWS Secrets Manager uses to encrypt secrets that are associated with the environment. These secrets contain the VCF credentials that are needed to install vCenter Server, NSX, and SDDC Manager.

By default, Amazon EVS use the AWS Secrets Manager managed key `aws/secretsmanager`. You can also specify a customer managed key.

Type: String

Required: No

licenseInfo

The license information that Amazon EVS requires to create an environment. Amazon EVS requires two license keys: a VCF solution key and a vSAN license key. The VCF solution key must cover a minimum of 256 cores. The vSAN license key must provide at least 110 TiB of vSAN capacity.

Type: Array of LicenseInfo objects

Array Members: Fixed number of 1 item.

Required: No

modifiedAt

The date and time that the environment was modified.

Type: Timestamp

Required: No

serviceAccessSecurityGroups

The security groups that allow traffic between the Amazon EVS control plane and your VPC for service access. If a security group is not specified, Amazon EVS uses the default security group in your account for service access.

Type: ServiceAccessSecurityGroups object

Required: No

serviceAccessSubnetId

The subnet that is used to establish connectivity between the Amazon EVS control plane and VPC. Amazon EVS uses this subnet to perform validations and create the environment.

Type: String

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `subnet-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

siteId

The Broadcom Site ID that is associated with your Amazon EVS environment. Amazon EVS uses the Broadcom Site ID that you provide to meet Broadcom VCF license usage reporting requirements for Amazon EVS.

Type: String

Required: No

stateDetails

A detailed description of the `environmentState` of an environment.

Type: String

Required: No

termsAccepted

Customer confirmation that the customer has purchased and will continue to maintain the required number of VCF software licenses to cover all physical processor cores in the Amazon EVS environment. Information about your VCF software in Amazon EVS will be shared with

Broadcom to verify license compliance. Amazon EVS does not validate license keys. To validate license keys, visit the Broadcom support portal.

Type: Boolean

Required: No

vcfHostnames

The DNS hostnames to be used by the VCF management appliances in your environment.

For environment creation to be successful, each hostname entry must resolve to a domain name that you've registered in your DNS service of choice and configured in the DHCP option set of your VPC. DNS hostnames cannot be changed after environment creation has started.

Type: VcfHostnames object

Required: No

vcfVersion

The VCF version of the environment.

Type: String

Valid Values: `VCF-5.2.1 | VCF-5.2.2`

Required: No

vpcId

The VPC associated with the environment.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `vpc-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EnvironmentSummary

A list of environments with summarized environment details.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

createdAt

The date and time that the environment was created.

Type: Timestamp

Required: No

environmentArn

The Amazon Resource Name (ARN) that is associated with the environment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws:evs:[a-z]{2}-[a-z]+-[0-9]:[0-9]{12}:environment/[a-zA-Z0-9_-]+`

Required: No

environmentId

A unique ID for the environment.

Type: String

Pattern: `(env-[a-zA-Z0-9]{10})`

Required: No

environmentName

The name of the environment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

environmentState

The state of an environment.

Type: String

Valid Values: `CREATING | CREATED | DELETING | DELETED | CREATE_FAILED`

Required: No

environmentStatus

Reports impaired functionality that stems from issues internal to the environment, such as impaired reachability.

Type: String

Valid Values: `PASSED | FAILED | UNKNOWN`

Required: No

modifiedAt

The date and time that the environment was modified.

Type: Timestamp

Required: No

vcfVersion

The VCF version of the environment.

Type: String

Valid Values: `VCF-5.2.1 | VCF-5.2.2`

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

Host

An ESX host that runs on an Amazon EC2 bare metal instance. Four hosts are created in an Amazon EVS environment during environment creation. You can add hosts to an environment using the `CreateEnvironmentHost` operation. Amazon EVS supports 4-16 hosts per environment.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

createdAt

The date and time that the host was created.

Type: Timestamp

Required: No

dedicatedHostId

The unique ID of the Amazon EC2 Dedicated Host.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: `h-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

ec2InstanceId

The unique ID of the EC2 instance that represents the host.

Type: String

Required: No

hostName

The DNS hostname of the host. DNS hostnames for hosts must be unique across Amazon EVS environments and within VCF.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: No

hostState

The state of the host.

Type: String

Valid Values: `CREATING | CREATED | UPDATING | DELETING | DELETED | CREATE_FAILED | UPDATE_FAILED`

Required: No

instanceType

The EC2 instance type of the host.

> **Note**
>
> Currently, Amazon EVS supports only the `i4i.metal` instance type.

> **Note**
>
> EC2 instances created through Amazon EVS do not support associating an IAM instance profile.

Type: String

Valid Values: `i4i.metal`

Required: No

ipAddress

The IP address of the host.

Type: String

Pattern: `(\d{1,3}\.){3}\d{1,3}`

Required: No

keyName

The name of the SSH key that is used to access the host.

Type: String

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

Pattern: `[a-zA-Z0-9_-]+`

Required: No

modifiedAt

The date and time that the host was modified.

Type: Timestamp

Required: No

networkInterfaces

The elastic network interfaces that are attached to the host.

Type: Array of NetworkInterface objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

placementGroupId

The unique ID of the placement group where the host is placed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: `pg-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

stateDetails

A detailed description of the `hostState` of a host.

Type: String

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

HostInfoForCreate

An object that represents a host.

> **Note**
>
> You cannot use `dedicatedHostId` and `placementGroupId` together in the same `HostInfoForCreate`object. This results in a `ValidationException` response.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

hostName

The DNS hostname of the host. DNS hostnames for hosts must be unique across Amazon EVS environments and within VCF.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

instanceType

The EC2 instance type that represents the host.

> **Note**
>
> Currently, Amazon EVS supports only the `i4i.metal` instance type.

Type: String

Valid Values: `i4i.metal`

Required: Yes

keyName

The name of the SSH key that is used to access the host.

Type: String

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

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

dedicatedHostId

The unique ID of the Amazon EC2 Dedicated Host.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: `h-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

placementGroupId

The unique ID of the placement group where the host is placed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: `pg-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

See Also

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

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

InitialVlanInfo

An object that represents an initial VLAN subnet for the Amazon EVS environment. Amazon EVS creates initial VLAN subnets when you first create the environment. Amazon EVS creates the following 10 VLAN subnets: host management VLAN, vMotion VLAN, vSAN VLAN, VTEP VLAN, Edge VTEP VLAN, Management VM VLAN, HCX uplink VLAN, NSX uplink VLAN, expansion VLAN 1, expansion VLAN 2.

> **Note**
>
> For each Amazon EVS VLAN subnet, you must specify a non-overlapping CIDR block. Amazon EVS VLAN subnets have a minimum CIDR block size of /28 and a maximum size of /24.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

cidr

The CIDR block that you provide to create an Amazon EVS VLAN subnet. Amazon EVS VLAN subnets have a minimum CIDR block size of /28 and a maximum size of /24. Amazon EVS VLAN subnet CIDR blocks must not overlap with other subnets in the VPC.

Type: String

Pattern: `((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)/(3[0-2]|[1-2][0-9]|[0-9])`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InitialVlans

The initial VLAN subnets for the environment. Amazon EVS VLAN subnets have a minimum CIDR block size of /28 and a maximum size of /24. Amazon EVS VLAN subnet CIDR blocks must not overlap with other subnets in the VPC.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

edgeVTep

The edge VTEP VLAN subnet. This VLAN subnet manages traffic flowing between the internal network and external networks, including internet access and other site connections.

Type: InitialVlanInfo object

Required: Yes

expansionVlan1

An additional VLAN subnet that can be used to extend VCF capabilities once configured. For example, you can configure an expansion VLAN subnet to use NSX Federation for centralized management and synchronization of multiple NSX deployments across different locations.

Type: InitialVlanInfo object

Required: Yes

expansionVlan2

An additional VLAN subnet that can be used to extend VCF capabilities once configured. For example, you can configure an expansion VLAN subnet to use NSX Federation for centralized management and synchronization of multiple NSX deployments across different locations.

Type: InitialVlanInfo object

Required: Yes

hcx

The HCX VLAN subnet. This VLAN subnet allows the HCX Interconnnect (IX) and HCX Network Extension (NE) to reach their peers and enable HCX Service Mesh creation.

If you plan to use a public HCX VLAN subnet, the following requirements must be met:

- Must have a /28 netmask and be allocated from the IPAM public pool. Required for HCX internet access configuration.
- The HCX public VLAN CIDR block must be added to the VPC as a secondary CIDR block.
- Must have at least two Elastic IP addresses to be allocated from the public IPAM pool for HCX components.

Type: InitialVlanInfo object

Required: Yes

nsxUplink

The NSX uplink VLAN subnet. This VLAN subnet allows connectivity to the NSX overlay network.

Type: InitialVlanInfo object

Required: Yes

vmkManagement

The host VMkernel management VLAN subnet. This VLAN subnet carries traffic for managing ESX hosts and communicating with VMware vCenter Server.

Type: InitialVlanInfo object

Required: Yes

vmManagement

The VM management VLAN subnet. This VLAN subnet carries traffic for vSphere virtual machines.

Type: InitialVlanInfo object

Required: Yes

vMotion

The vMotion VLAN subnet. This VLAN subnet carries traffic for vSphere vMotion.

Type: InitialVlanInfo object

Required: Yes

vSan

The vSAN VLAN subnet. This VLAN subnet carries the communication between ESX hosts to implement a vSAN shared storage pool.

Type: InitialVlanInfo object

Required: Yes

vTep

The VTEP VLAN subnet. This VLAN subnet handles internal network traffic between virtual machines within a VCF instance.

Type: InitialVlanInfo object

Required: Yes

hcxNetworkAclId

A unique ID for a network access control list that the HCX VLAN uses. Required when `isHcxPublic` is set to `true`.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 21.

Pattern: `acl-[a-zA-Z0-9_-]+`

Required: No

isHcxPublic

Determines if the HCX VLAN that Amazon EVS provisions is public or private.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InstanceTypeEsxVersionsInfo

Information about ESX versions offered for each EC2 instance type.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

esxVersions

The list of ESX versions offered for this instance type.

Type: Array of strings

Required: Yes

instanceType

The EC2 instance type.

Type: String

Valid Values: `i4i.metal`

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

LicenseInfo

The license information that Amazon EVS requires to create an environment. Amazon EVS requires two license keys: a VCF solution key and a vSAN license key.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

solutionKey

The VCF solution key. This license unlocks VMware VCF product features, including vSphere, NSX, SDDC Manager, and vCenter Server. The VCF solution key must cover a minimum of 256 cores.

Type: String

Pattern: `[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}`

Required: Yes

vsanKey

The VSAN license key. This license unlocks vSAN features. The vSAN license key must provide at least 110 TiB of vSAN capacity.

Type: String

Pattern: `[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}-[a-zA-Z0-9]{5}`

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

NetworkInterface

An elastic network interface (ENI) that connects hosts to the VLAN subnets. Amazon EVS provisions two identically configured ENIs in the VMkernel management subnet during host creation. One ENI is active, and the other is in standby mode for automatic switchover during a failure scenario.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

networkInterfaceId

The unique ID of the elastic network interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length 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

Secret

A managed secret that contains the credentials for installing vCenter Server, NSX, and SDDC Manager. During environment creation, the Amazon EVS control plane uses AWS Secrets Manager to create, encrypt, validate, and store secrets. If you choose to delete your environment, Amazon EVS also deletes the secrets that are associated with your environment. Amazon EVS does not provide managed rotation of secrets. We recommend that you rotate secrets regularly to ensure that secrets are not long-lived.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

secretArn

The Amazon Resource Name (ARN) of the secret.

Type: String

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

ServiceAccessSecurityGroups

The security groups that allow traffic between the Amazon EVS control plane and your VPC for Amazon EVS service access. If a security group is not specified, Amazon EVS uses the default security group in your account for service access.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

securityGroups

The security groups that allow service access.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Length Constraints: Minimum length of 3. Maximum length of 25.

Pattern: `sg-[0-9a-zA-Z]*`

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

ValidationExceptionField

Stores information about a field passed inside a request that resulted in an exception.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

message

A message describing why the field failed validation.

Type: String

Required: Yes

name

The field name.

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

VcfHostnames

The DNS hostnames that Amazon EVS uses to install VMware vCenter Server, NSX, SDDC Manager, and Cloud Builder. Each hostname must be unique, and resolve to a domain name that you've registered in your DNS service of choice. Hostnames cannot be changed.

VMware VCF requires the deployment of two NSX Edge nodes, and three NSX Manager virtual machines.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

cloudBuilder

The hostname for VMware Cloud Builder.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsx

The VMware NSX hostname.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsxEdge1

The hostname for the first NSX Edge node.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsxEdge2

The hostname for the second NSX Edge node.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsxManager1

The hostname for the first VMware NSX Manager virtual machine (VM).

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsxManager2

The hostname for the second VMware NSX Manager virtual machine (VM).

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

nsxManager3

The hostname for the third VMware NSX Manager virtual machine (VM).

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

sddcManager

The hostname for SDDC Manager.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

vCenter

The VMware vCenter hostname.

Type: String

Pattern: `([a-zA-Z0-9\-]*)`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VcfVersionInfo

Information about a VCF versions provided by Amazon EVS, including its status, default ESX version, and EC2 instance types.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

defaultEsxVersion

The default ESX version for this VCF version. It is based on Broadcom's Bill Of Materials (BOM).

Type: String

Required: Yes

instanceTypes

EC2 instance types provided by Amazon EVS for this VCF version for creating environments.

Type: Array of strings

Valid Values: `i4i.metal`

Required: Yes

status

The status for this VCF version. Valid values are:

- `AVAILABLE` - This VCF version is available to you.
- `RESTRICTED` - This VCF version has limited availability.

> **Note**
>
> If the version you need shows RESTRICTED, and you require, check out VCF versions and EC2 instance types provided by Amazon EVS for more information.

Type: String

Required: Yes

vcfVersion

The VCF version number.

Type: String

Valid Values: `VCF-5.2.1 | VCF-5.2.2`

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

Vlan

The VLANs that Amazon EVS creates during environment creation.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

availabilityZone

The availability zone of the VLAN.

Type: String

Required: No

cidr

The CIDR block of the VLAN. Amazon EVS VLAN subnets have a minimum CIDR block size of /28 and a maximum size of /24.

Type: String

Pattern: `((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)/(3[0-2]|[1-2][0-9]|[0-9])`

Required: No

createdAt

The date and time that the VLAN was created.

Type: Timestamp

Required: No

eipAssociations

An array of Elastic IP address associations.

Type: Array of EipAssociation objects

Required: No

functionName

The VMware VCF traffic type that is carried over the VLAN. For example, a VLAN with a `functionName` of `hcx` is being used to carry VMware HCX traffic.

Type: String

Required: No

isPublic

Determines if the VLAN that Amazon EVS provisions is public or private.

Type: Boolean

Required: No

modifiedAt

The date and time that the VLAN was modified.

Type: Timestamp

Required: No

networkAclId

A unique ID for a network access control list.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 21.

Pattern: `acl-[a-zA-Z0-9_-]+`

Required: No

stateDetails

The state details of the VLAN.

Type: String

Required: No

subnetId

The unique ID of the VLAN subnet.

Type: String

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `subnet-[a-f0-9]{8}([a-f0-9]{9})?`

Required: No

vlanId

The unique ID of the VLAN.

Type: Integer

Required: No

vlanState

The state of the VLAN.

Type: String

Valid Values: `CREATING | CREATED | DELETING | DELETED | CREATE_FAILED`

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

Service-specific Errors

The Amazon Elastic VMware Service API contains service-specific exceptions that various actions return. This section describes each exception in detail.

The following service-specific exceptions are returned:

- InternalServerException
- ResourceNotFoundException
- ServiceQuotaExceededException
- TagPolicyException
- ThrottlingException
- TooManyTagsException
- ValidationException

InternalServerException

An internal server error occurred. Retry your request.

HTTP Status Code returned: 500

Contents

message

Describes the error encountered.

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 Ruby V3

ResourceNotFoundException

A service resource associated with the request could not be found. The resource might not be specified correctly, or it may have a `state` of `DELETED`.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered.

Type: String

Required: Yes

resourceId

The ID of the resource that could not be found.

Type: String

Required: Yes

resourceType

The type of the resource that is associated with the error.

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 Ruby V3

ServiceQuotaExceededException

The number of one or more Amazon EVS resources exceeds the maximum allowed. For a list of Amazon EVS quotas, see Amazon EVS endpoints and quotas in the *Amazon EVS User Guide*. Delete some resources or request an increase in your service quota. To request an increase, see AWS Service Quotas in the *AWS General Reference Guide*.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered.

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 Ruby V3

TagPolicyException

> **Note**
>
> `TagPolicyException` is deprecated. See `ValidationException` instead.

The request doesn't comply with IAM tag policy. Correct your request and then retry it.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered

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 Ruby V3

ThrottlingException

The operation could not be performed because the service is throttling requests. This exception is thrown when the service endpoint receives too many concurrent requests.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered.

Type: String

Required: Yes

retryAfterSeconds

The seconds to wait to retry.

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 Ruby V3

TooManyTagsException

> **Note**
>
> `TooManyTagsException` is deprecated. See `ServiceQuotaExceededException` instead.

A service resource associated with the request has more than 200 tags.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered.

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 Ruby V3

ValidationException

The input fails to satisfy the specified constraints. You will see this exception if invalid inputs are provided for any of the Amazon EVS environment operations, or if a list operation is performed on an environment resource that is still initializing.

HTTP Status Code returned: 400

Contents

message

Describes the error encountered.

Type: String

Required: Yes

reason

The reason for the exception.

Type: String

Valid Values: `unknownOperation | cannotParse | fieldValidationFailed | other`

Required: Yes

fieldList

A list of fields that didn't validate.

Type: Array of ValidationExceptionField objects

Required: No

See Also

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

- AWS SDK for 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*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400