
AWS Application Discovery Service

API Reference

API Version 2015-11-01



AWS Application Discovery Service: API Reference

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Welcome

AWS Application Discovery Service helps you plan application migration projects by automatically identifying servers, virtual machines (VMs), software, and software dependencies running in your on-premises data centers. Application Discovery Service also collects application performance data, which can help you assess the outcome of your migration. The data collected by Application Discovery Service is securely retained in an AWS-hosted and managed database in the cloud. You can export the data as a CSV or XML file into your preferred visualization tool or cloud-migration solution to plan your migration. For more information, see [AWS Application Discovery Service FAQ](#).

Application Discovery Service offers two modes of operation:

- **Agentless discovery** mode is recommended for environments that use VMware vCenter Server. This mode doesn't require you to install an agent on each host. Agentless discovery gathers server information regardless of the operating systems, which minimizes the time required for initial on-premises infrastructure assessment. Agentless discovery doesn't collect information about software and software dependencies. It also doesn't work in non-VMware environments.
- **Agent-based discovery** mode collects a richer set of data than agentless discovery by using the AWS Application Discovery Agent, which you install on one or more hosts in your data center. The agent captures infrastructure and application information, including an inventory of installed software applications, system and process performance, resource utilization, and network dependencies between workloads. The information collected by agents is secured at rest and in transit to the Application Discovery Service database in the cloud.

We recommend that you use agent-based discovery for non-VMware environments and to collect information about software and software dependencies. You can also run agent-based and agentless discovery simultaneously. Use agentless discovery to quickly complete the initial infrastructure assessment and then install agents on select hosts.

Application Discovery Service integrates with application discovery solutions from AWS Partner Network (APN) partners. Third-party application discovery tools can query Application Discovery Service and write to the Application Discovery Service database using a public API. You can then import the data into either a visualization tool or cloud-migration solution.

Important

Application Discovery Service doesn't gather sensitive information. All data is handled according to the [AWS Privacy Policy](#). You can operate Application Discovery Service offline to inspect collected data before it is shared with the service.

Your AWS account must be granted access to Application Discovery Service, a process called *whitelisting*. This is true for AWS partners and customers alike. To request access, [sign up for Application Discovery Service](#).

This API reference provides descriptions, syntax, and usage examples for each of the actions and data types for Application Discovery Service. The topic for each action shows the API request parameters and the response. Alternatively, you can use one of the AWS SDKs to access an API that is tailored to the programming language or platform that you're using. For more information, see [AWS SDKs](#).

This guide is intended for use with the [Application Discovery Service User Guide](#).

Querying Discovered Configuration Items

A *configuration item* is an IT asset that was discovered in your data center by an agent or the connector. When you use Application Discovery Service, you can specify filters and query specific configuration items for server, application, process, and connection assets.

The tables in the following sections list the available input filters and output sorting options for two Application Discovery Service actions:

- `DescribeConfigurations`
- `ListConfigurations`

The filtering and sorting options are organized by the type of asset to which apply (server, application, process, or connection).

Using the `DescribeConfigurations` Action

The `DescribeConfigurations` action retrieves attributes for a list of configuration IDs. All the supplied IDs must be for the same asset type (server, application, process, or connection). Output fields are specific to the asset type selected. For example, the output for a server configuration item includes a list of attributes about the server, such as host name, operating system, and number of network cards. For more information about command syntax, see [DescribeConfigurations](#).

The `DescribeConfigurations` action does not support filtering.

Output fields for `DescribeConfigurations`

The following tables, organized by asset type, list the supported output fields of the `DescribeConfigurations` action. The ones marked as mandatory are always present in the output.

Server assets

Field	Mandatory
<code>server.agentId</code>	
<code>server.applications</code>	
<code>server.applications.hasMoreValues</code>	

AWS Application Discovery Service API Reference
Using the DescribeConfigurations Action

Field	Mandatory
<code>server.configurationId</code>	✓
<code>server.cpuType</code>	
<code>server.hostName</code>	
<code>server.hypervisor</code>	
<code>server.networkInterfaceInfo</code>	
<code>server.networkInterfaceInfo.hasMoreValues</code>	
<code>server.osName</code>	
<code>server.osVersion</code>	
<code>server.tags</code>	
<code>server.tags.hasMoreValues</code>	
<code>server.timeOfCreation</code>	✓
<code>server.type</code>	
<code>server.performance.avgCpuUsagePct</code>	
<code>server.performance.avgDiskReadIOPS</code>	
<code>server.performance.avgDiskReadsPerSecondInKB</code>	
<code>server.performance.avgDiskWriteIOPS</code>	
<code>server.performance.avgDiskWritesPerSecondInKB</code>	
<code>server.performance.avgFreeRAMInKB</code>	
<code>server.performance.avgNetworkReadsPerSecondInKB</code>	
<code>server.performance.avgNetworkWritesPerSecondInKB</code>	
<code>server.performance.maxCpuUsagePct</code>	
<code>server.performance.maxDiskReadIOPS</code>	
<code>server.performance.maxDiskReadsPerSecondInKB</code>	
<code>server.performance.maxDiskWriteIOPS</code>	
<code>server.performance.maxDiskWritesPerSecondInKB</code>	
<code>server.performance.maxNetworkReadsPerSecondInKB</code>	
<code>server.performance.maxNetworkWritesPerSecondInKB</code>	
<code>server.performance.minFreeRAMInKB</code>	
<code>server.performance.numCores</code>	
<code>server.performance.numCpus</code>	
<code>server.performance.numDisks</code>	

Field	Mandatory
<code>server.performance.numNetworkCards</code>	
<code>server.performance.totalRAMInKB</code>	

Process assets

Field	Mandatory
<code>process.commandLine</code>	
<code>process.configurationId</code>	✓
<code>process.name</code>	
<code>process.path</code>	
<code>process.timeOfCreation</code>	✓

Application assets

Field	Mandatory
<code>application.configurationId</code>	✓
<code>application.description</code>	
<code>application.lastModifiedTime</code>	✓
<code>application.name</code>	✓
<code>application.serverCount</code>	✓
<code>application.timeOfCreation</code>	✓

Using the `ListConfigurations` Action

The `ListConfigurations` action retrieves a list of configuration items according to the criteria that you specify in a filter. For more information about command syntax, see [ListConfigurations](#).

Output fields for `ListConfigurations`

The following tables, organized by asset type, list the supported output fields of the `ListConfigurations` action. The ones marked as mandatory are always present in the output.

Server assets

Field	Mandatory
<code>server.configurationId</code>	✓
<code>server.agentId</code>	
<code>server.hostName</code>	
<code>server.osName</code>	

Field	Mandatory
<code>server.osVersion</code>	
<code>server.timeOfCreation</code>	✓
<code>server.type</code>	

Process assets

Field	Mandatory
<code>process.commandLine</code>	
<code>process.configurationId</code>	✓
<code>process.name</code>	
<code>process.path</code>	
<code>process.timeOfCreation</code>	✓
<code>server.agentId</code>	
<code>server.configurationId</code>	✓

Application assets

Field	Mandatory
<code>application.configurationId</code>	✓
<code>application.description</code>	
<code>application.name</code>	✓
<code>application.serverCount</code>	✓
<code>application.timeOfCreation</code>	✓
<code>application.lastModifiedTime</code>	✓

Connection assets

Field	Mandatory
<code>connection.destinationIp</code>	✓
<code>connection.destinationPort</code>	✓
<code>connection.ipVersion</code>	✓
<code>connection.latestTimestamp</code>	✓
<code>connection.occurrence</code>	✓
<code>connection.sourceIp</code>	✓
<code>connection.transportProtocol</code>	

Field	Mandatory
<code>destinationProcess.configurationId</code>	
<code>destinationProcess.name</code>	
<code>destinationServer.configurationId</code>	
<code>destinationServer.hostName</code>	
<code>sourceProcess.configurationId</code>	
<code>sourceProcess.name</code>	
<code>sourceServer.configurationId</code>	
<code>sourceServer.hostName</code>	

Supported filters for `ListConfigurations`

The following tables, organized by asset type, list the supported filters for the `ListConfigurations` action. Filters and values are in a key/value relationship defined by one of the supported logical conditions. You can sort the output of the indicated filters.

Server assets

Filter	Supported conditions	Supported values	Supported sorting
<code>server.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> Any valid server configuration ID 	None
<code>server.hostName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.osName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.osVersion</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.agentId</code>	<ul style="list-style-type: none"> EQUALS 	<ul style="list-style-type: none"> String 	None

Filter	Supported conditions	Supported values	Supported sorting
	<ul style="list-style-type: none"> NOT_EQUALS EQ NE 		
<code>server.connectorId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> String 	None
<code>server.type</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	String with one of the following values: <ul style="list-style-type: none"> EC2 OTHER VMWARE_VM VMWARE_HOST VMWARE_VM_TEMPLATE 	None
<code>server.vmWareInfo.moreInfo</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.vmWareInfo.vcenterId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.vmWareInfo.hostId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.networkInterfaceInfo.subnetGroupId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None

Filter	Supported conditions	Supported values	Supported sorting
<code>server.networkInterfaceInfo.subnetGroupName</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	None
<code>server.networkInterfaceInfo.subnetSwitchName</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	None
<code>server.networkInterfaceInfo.ipAddress</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	None
<code>server.networkInterfaceInfo.ipv6Address</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	None
<code>server.performance.avgCpuUsagePct</code>	<ul style="list-style-type: none"> • GE • LE • GT • LT 	<ul style="list-style-type: none"> • Percentage 	None
<code>server.performance.totalDiskFreeSizeInKB</code>	<ul style="list-style-type: none"> • GE • LE • GT • LT 	<ul style="list-style-type: none"> • Double 	None
<code>server.performance.avgFreeRAMInKB</code>	<ul style="list-style-type: none"> • GE • LE • GT • LT 	<ul style="list-style-type: none"> • Double 	None

Filter	Supported conditions	Supported values	Supported sorting
<code>server.tag.value</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.tag.key</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.application.name</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.application.description</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None
<code>server.application.configuration.id</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> Any valid application configuration ID 	None
<code>server.process.configuration.id</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ProcessId 	None
<code>server.process.name</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	None

Filter	Supported conditions	Supported values	Supported sorting
<code>server.process.commandLine</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	None

Application assets

Filter	Supported conditions	Supported values	Supported sorting
<code>application.configurationId</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE 	<ul style="list-style-type: none"> • ApplicationId 	None
<code>application.name</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	<ul style="list-style-type: none"> • ASC • DESC
<code>application.description</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	<ul style="list-style-type: none"> • ASC • DESC
<code>application.serverCount</code>	Filtering not supported.	Filtering not supported.	<ul style="list-style-type: none"> • ASC • DESC
<code>application.timeOfCreation</code>	Filtering not supported.	Filtering not supported.	<ul style="list-style-type: none"> • ASC • DESC
<code>application.lastModifiedTime</code>	Filtering not supported.	Filtering not supported.	<ul style="list-style-type: none"> • ASC • DESC

Filter	Supported conditions	Supported values	Supported sorting
<code>server.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ServerId 	None

Process assets

Filter	Supported conditions	Supported values	Supported sorting
<code>process.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ProcessId 	
<code>process.name</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>process.commandLine</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ServerId 	
<code>server.hostName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.osName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC

Filter	Supported conditions	Supported values	Supported sorting
<code>server.osVersion</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>server.agentId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	

Connection assets

Filter	Supported conditions	Supported values	Supported sorting
<code>connection.sourceIp</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> IP 	<ul style="list-style-type: none"> ASC DESC
<code>connection.destinationIp</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> IP 	<ul style="list-style-type: none"> ASC DESC
<code>connection.destinationPort</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> Integer 	<ul style="list-style-type: none"> ASC DESC
<code>sourceServer.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ServerId 	

Filter	Supported conditions	Supported values	Supported sorting
<code>sourceServer.hostName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>destinationServer.osName</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>destinationServer.osVersion</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>destinationServer.agentId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	
<code>sourceProcess.configurationId</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE 	<ul style="list-style-type: none"> ProcessId 	
<code>sourceProcess.name</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC
<code>sourceProcess.commandLine</code>	<ul style="list-style-type: none"> EQUALS NOT_EQUALS EQ NE CONTAINS NOT_CONTAINS 	<ul style="list-style-type: none"> String 	<ul style="list-style-type: none"> ASC DESC

Filter	Supported conditions	Supported values	Supported sorting
<code>destinationProcess.configId</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE 	<ul style="list-style-type: none"> • ProcessId 	
<code>destinationProcess.name</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	<ul style="list-style-type: none"> • ASC • DESC
<code>destinationprocess.command</code>	<ul style="list-style-type: none"> • EQUALS • NOT_EQUALS • EQ • NE • CONTAINS • NOT_CONTAINS 	<ul style="list-style-type: none"> • String 	<ul style="list-style-type: none"> • ASC • DESC

Actions

The following actions are supported:

- [AssociateConfigurationItemsToApplication](#) (p. 17)
- [CreateApplication](#) (p. 19)
- [CreateTags](#) (p. 21)
- [DeleteApplications](#) (p. 23)
- [DeleteTags](#) (p. 25)
- [DescribeAgents](#) (p. 27)
- [DescribeConfigurations](#) (p. 30)
- [DescribeExportConfigurations](#) (p. 32)
- [DescribeExportTasks](#) (p. 34)
- [DescribeTags](#) (p. 37)
- [DisassociateConfigurationItemsFromApplication](#) (p. 39)
- [ExportConfigurations](#) (p. 41)
- [GetDiscoverySummary](#) (p. 43)
- [ListConfigurations](#) (p. 45)
- [ListServerNeighbors](#) (p. 48)
- [StartDataCollectionByAgentIds](#) (p. 51)
- [StartExportTask](#) (p. 53)
- [StopDataCollectionByAgentIds](#) (p. 56)
- [UpdateApplication](#) (p. 58)

AssociateConfigurationItemsToApplication

Associates one or more configuration items with an application.

Request Syntax

```
{  
  "applicationConfigurationId": "string",  
  "configurationIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

applicationConfigurationId (p. 17)

The configuration ID of an application with which items are to be associated.

Type: String

Required: Yes

configurationIds (p. 17)

The ID of each configuration item to be associated with an application.

Type: array of Strings

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

CreateApplication

Creates an application with the given name and description.

Request Syntax

```
{  
  "description": "string",  
  "name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

description (p. 19)

Description of the application to be created.

Type: String

Required: No

name (p. 19)

Name of the application to be created.

Type: String

Required: Yes

Response Syntax

```
{  
  "configurationId": "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.

configurationId (p. 19)

Configuration ID of an application to be created.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

CreateTags

Creates one or more tags for configuration items. Tags are metadata that help you categorize IT assets. This API accepts a list of multiple configuration items.

Request Syntax

```
{
  "configurationIds": [ "string" ],
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationIds (p. 21)

A list of configuration items that you want to tag.

Type: array of Strings

Required: Yes

tags (p. 21)

Tags that you want to associate with one or more configuration items. Specify the tags that you want to create in a *key-value* format. For example:

```
{ "key": "serverType", "value": "webServer" }
```

Type: array of [Tag \(p. 72\)](#) objects

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified configuration ID was not located. Verify the configuration ID and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DeleteApplications

Deletes a list of applications and their associations with configuration items.

Request Syntax

```
{  
  "configurationIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationIds (p. 23)

Configuration ID of an application to be deleted.

Type: array of Strings

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

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

DeleteTags

Deletes the association between configuration items and one or more tags. This API accepts a list of multiple configuration items.

Request Syntax

```
{
  "configurationIds": [ "string" ],
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationIds (p. 25)

A list of configuration items with tags that you want to delete.

Type: array of Strings

Required: Yes

tags (p. 25)

Tags that you want to delete from one or more configuration items. Specify the tags that you want to delete in a *key-value* format. For example:

```
{ "key": "serverType", "value": "webServer" }
```

Type: array of [Tag \(p. 72\)](#) objects

Required: No

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified configuration ID was not located. Verify the configuration ID and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DescribeAgents

Lists agents or the Connector by ID or lists all agents/Connectors associated with your user account if you did not specify an ID.

Request Syntax

```
{
  "agentIds": [ "string" ],
  "filters": [
    {
      "condition": "string",
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

agentIds (p. 27)

The agent or the Connector IDs for which you want information. If you specify no IDs, the system returns information about all agents/Connectors associated with your AWS user account.

Type: array of Strings

Required: No

filters (p. 27)

You can filter the request using various logical operators and a *key-value* format. For example:

```
{ "key": "collectionStatus", "value": "STARTED" }
```

Type: array of [Filter \(p. 69\)](#) objects

Required: No

maxResults (p. 27)

The total number of agents/Connectors to return in a single page of output. The maximum value is 100.

Type: Integer

Required: No

nextToken (p. 27)

Token to retrieve the next set of results. For example, if you previously specified 100 IDs for `DescribeAgentsRequest$agentIds` but set `DescribeAgentsRequest$maxResults` to 10, you received a set of 10 results along with a token. Use that token in this query to get the next set of 10.

Type: String

Required: No

Response Syntax

```
{
  "agentsInfo": [
    {
```

```

    "agentId": "string",
    "agentNetworkInfoList": [
      {
        "ipAddress": "string",
        "macAddress": "string"
      }
    ],
    "agentType": "string",
    "collectionStatus": "string",
    "connectorId": "string",
    "health": "string",
    "hostName": "string",
    "lastHealthPingTime": "string",
    "registeredTime": "string",
    "version": "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.

agentsInfo (p. 27)

Lists agents or the Connector by ID or lists all agents/Connectors associated with your user account if you did not specify an agent/Connector ID. The output includes agent/Connector IDs, IP addresses, media access control (MAC) addresses, agent/Connector health, host name where the agent/Connector resides, and the version number of each agent/Connector.

Type: array of [AgentInfo](#) (p. 62) objects

nextToken (p. 27)

Token to retrieve the next set of results. For example, if you specified 100 IDs for

`DescribeAgentsRequest$agentIds` but set `DescribeAgentsRequest$maxResults` to 10, you received a set of 10 results along with this token. Use this token in the next query to retrieve the next set of 10.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 76).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DescribeConfigurations

Retrieves attributes for a list of configuration item IDs. All of the supplied IDs must be for the same asset type (server, application, process, or connection). Output fields are specific to the asset type selected. For example, the output for a *server* configuration item includes a list of attributes about the server, such as host name, operating system, and number of network cards.

For a complete list of outputs for each asset type, see [Using the DescribeConfigurations Action](#).

Request Syntax

```
{  
  "configurationIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationIds (p. 30)

One or more configuration IDs.

Type: array of Strings

Required: Yes

Response Syntax

```
{  
  "configurations": [  
    {  
      "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.

configurations (p. 30)

A key in the response map. The value is an array of data.

Type: array of String to String maps

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DescribeExportConfigurations

Deprecated. Use `DescribeExportTasks` instead.

Retrieves the status of a given export process. You can retrieve status from a maximum of 100 processes.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

exportIds (p. 32)

A unique identifier that you can use to query the export status.

Type: array of Strings

Required: No

maxResults (p. 32)

The maximum number of results that you want to display as a part of the query.

Type: Integer

Required: No

nextToken (p. 32)

A token to get the next set of results. For example, if you specify 100 IDs for `DescribeExportConfigurationsRequest$exportIds` but set `DescribeExportConfigurationsRequest$maxResults` to 10, you get results in a set of 10. Use the token in the query to get the next set of 10.

Type: String

Required: No

Response Syntax

```
{
  "exportsInfo": [
    {
      "configurationsDownloadUrl": "string",
      "exportId": "string",
      "exportRequestTime": number,
      "exportStatus": "string",
      "statusMessage": "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.

exportsInfo (p. 32)

Returns export details. When the status is complete, the response includes a URL for an Amazon S3 bucket where you can view the data in a CSV file.

Type: array of [ExportInfo \(p. 68\)](#) objects

nextToken (p. 32)

A token to get the next set of results. For example, if you specify 100 IDs for

`DescribeExportConfigurationsRequest$exportIds` but set `DescribeExportConfigurationsRequest$maxResults` to 10, you get results in a set of 10. Use the token in the query to get the next set of 10.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified configuration ID was not located. Verify the configuration ID and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DescribeExportTasks

Retrieve status of one or more export tasks. You can retrieve the status of up to 100 export tasks.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

exportIds (p. 34)

One or more unique identifiers used to query the status of an export request.

Type: array of Strings

Required: No

maxResults (p. 34)

The maximum number of volume results returned by `DescribeExportTasks` in paginated output. When this parameter is used, `DescribeExportTasks` only returns `maxResults` results in a single page along with a `nextToken` response element.

Type: Integer

Required: No

nextToken (p. 34)

The `nextToken` value returned from a previous paginated `DescribeExportTasks` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value. This value is null when there are no more results to return.

Type: String

Required: No

Response Syntax

```
{  
  "exportsInfo": [  
    {  
      "configurationsDownloadUrl": "string",  
      "exportId": "string",  
      "exportRequestTime": number,  
      "exportStatus": "string",  
      "statusMessage": "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.

exportsInfo (p. 34)

Contains one or more sets of export request details. When the status of a request is `SUCCEEDED`, the response includes a URL for an Amazon S3 bucket where you can view the data in a CSV file.

Type: array of [ExportInfo \(p. 68\)](#) objects

nextToken (p. 34)

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

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

Example

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see [Signature Version 4 Signing Process](#) in the *AWS General Reference*.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the [AWS Command Line Interface \(AWS CLI\)](#) or one of the [AWS SDKs](#) to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Retrieve status of two specified export tasks

Sample Request

```
POST / HTTP/1.1
Host: discovery.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 109
X-Amz-Target: AWSPoseidonService_V2015_11_01.DescribeExportTasks
X-Amz-Date: 20170308T232123Z
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
```

```
{
  "exportIds":[
    "export-123a4b56-7c89-01d2-3ef4-example5678f",
    "export-654a3b21-7c89-01d2-3ef4-example8765f"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 1140
Date: Wed, 08 Mar 2017 23:21:25 GMT

{
  "exportsInfo":[
    {
      "configurationsDownloadUrl":"[URL]",
      "exportId":"export-123a4b56-7c89-01d2-3ef4-example5678f",
      "exportRequestTime":1.489001254713E9,
      "exportStatus":"SUCCEEDED",
      "statusMessage":"Data export ran successfully and is accessible from the download
URL. The URL will expire in 24 hours. The export data expires in 10 days."
    },
    {
      "configurationsDownloadUrl":"[URL]",
      "exportId":"export-654a3b21-7c89-01d2-3ef4-example8765f",
      "exportRequestTime":1.488920016713E9,
      "exportStatus":"SUCCEEDED",
      "statusMessage":"Data export ran successfully and is accessible from the download
URL. The URL will expire in 24 hours. The export data expires in 10 days."
    }
  ],
  "nextToken":""
}
```

See Also

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

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

DescribeTags

Retrieves a list of configuration items that are tagged with a specific tag. Or retrieves a list of all tags assigned to a specific configuration item.

Request Syntax

```
{
  "filters": [
    {
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

filters (p. 37)

You can filter the list using a *key-value* format. You can separate these items by using logical operators. Allowed filters include `tagKey`, `tagValue`, and `configurationId`.

Type: array of [TagFilter \(p. 73\)](#) objects

Required: No

maxResults (p. 37)

The total number of items to return in a single page of output. The maximum value is 100.

Type: Integer

Required: No

nextToken (p. 37)

A token to start the list. Use this token to get the next set of results.

Type: String

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "tags": [
    {
      "configurationId": "string",
      "configurationType": "string",
      "key": "string",
      "timeOfCreation": number,
      "value": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

nextToken (p. 37)

The call returns a token. Use this token to get the next set of results.

Type: String

tags (p. 37)

Depending on the input, this is a list of configuration items tagged with a specific tag, or a list of tags for a specific configuration item.

Type: array of [ConfigurationTag](#) (p. 65) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 76).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified configuration ID was not located. Verify the configuration ID and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

DisassociateConfigurationItemsFromApplication

Disassociates one or more configuration items from an application.

Request Syntax

```
{  
  "applicationConfigurationId": "string",  
  "configurationIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

applicationConfigurationId (p. 39)

Configuration ID of an application from which each item is disassociated.

Type: String

Required: Yes

configurationIds (p. 39)

Configuration ID of each item to be disassociated from an application.

Type: array of Strings

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

ExportConfigurations

Deprecated. Use `StartExportTask` instead.

Exports all discovered configuration data to an Amazon S3 bucket or an application that enables you to view and evaluate the data. Data includes tags and tag associations, processes, connections, servers, and system performance. This API returns an export ID that you can query using the *DescribeExportConfigurations* API. The system imposes a limit of two configuration exports in six hours.

Response Syntax

```
{
  "exportId": "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.

exportId (p. 41)

A unique identifier that you can use to query the export status.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 76).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not permitted.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

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

GetDiscoverySummary

Retrieves a short summary of discovered assets.

Response Syntax

```
{
  "agentSummary": {
    "activeAgents": number,
    "blackListedAgents": number,
    "healthyAgents": number,
    "shutdownAgents": number,
    "totalAgents": number,
    "unhealthyAgents": number,
    "unknownAgents": number
  },
  "applications": number,
  "connectorSummary": {
    "activeConnectors": number,
    "blackListedConnectors": number,
    "healthyConnectors": number,
    "shutdownConnectors": number,
    "totalConnectors": number,
    "unhealthyConnectors": number,
    "unknownConnectors": number
  },
  "servers": number,
  "serversMappedToApplications": number,
  "serversMappedtoTags": number
}
```

Response Elements

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

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

agentSummary (p. 43)

Details about discovered agents, including agent status and health.

Type: [CustomerAgentInfo](#) (p. 66) object

applications (p. 43)

The number of applications discovered.

Type: Long

connectorSummary (p. 43)

Details about discovered connectors, including connector status and health.

Type: [CustomerConnectorInfo](#) (p. 67) object

servers (p. 43)

The number of servers discovered.

Type: Long

serversMappedToApplications (p. 43)

The number of servers mapped to applications.

Type: Long

serversMappedtoTags (p. 43)

The number of servers mapped to tags.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

ListConfigurations

Retrieves a list of configuration items according to criteria that you specify in a filter. The filter criteria identifies the relationship requirements.

Request Syntax

```
{
  "configurationType": "string",
  "filters": [
    {
      "condition": "string",
      "name": "string",
      "values": [ "string" ]
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "orderBy": [
    {
      "fieldName": "string",
      "sortOrder": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationType (p. 45)

A valid configuration identified by Application Discovery Service.

Type: String

Valid Values: SERVER | PROCESS | CONNECTION | APPLICATION

Required: Yes

filters (p. 45)

You can filter the request using various logical operators and a *key-value* format. For example:

```
{ "key": "serverType", "value": "webServer" }
```

For a complete list of filter options and guidance about using them with this action, see [Querying Discovered Configuration Items](#).

Type: array of [Filter \(p. 69\)](#) objects

Required: No

maxResults (p. 45)

The total number of items to return. The maximum value is 100.

Type: Integer

Required: No

nextToken (p. 45)

Token to retrieve the next set of results. For example, if a previous call to ListConfigurations returned 100 items, but you set ListConfigurationsRequest\$maxResults to 10, you received a set of 10 results along with a token. Use that token in this query to get the next set of 10.

Type: String

Required: No

orderBy (p. 45)

Certain filter criteria return output that can be sorted in ascending or descending order. For a list of output characteristics for each filter, see [Using the ListConfigurations Action](#).

Type: array of [OrderByElement \(p. 71\)](#) objects

Required: No

Response Syntax

```
{
  "configurations": [
    {
      "string" : "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.

configurations (p. 46)

Returns configuration details, including the configuration ID, attribute names, and attribute values.

Type: array of String to String maps

nextToken (p. 46)

Token to retrieve the next set of results. For example, if your call to ListConfigurations returned 100 items, but you set `ListConfigurationsRequest$maxResults` to 10, you received a set of 10 results along with this token. Use this token in the next query to retrieve the next set of 10.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified configuration ID was not located. Verify the configuration ID and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

ListServerNeighbors

Retrieves a list of servers that are one network hop away from a specified server.

Request Syntax

```
{
  "configurationId": "string",
  "maxResults": number,
  "neighborConfigurationIds": [ "string" ],
  "nextToken": "string",
  "portInformationNeeded": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationId (p. 48)

Configuration ID of the server for which neighbors are being listed.

Type: String

Required: Yes

maxResults (p. 48)

Maximum number of results to return in a single page of output.

Type: Integer

Required: No

neighborConfigurationIds (p. 48)

List of configuration IDs to test for one-hop-away.

Type: array of Strings

Required: No

nextToken (p. 48)

Token to retrieve the next set of results. For example, if you previously specified 100 IDs for `ListServerNeighborsRequest$neighborConfigurationIds` but set `ListServerNeighborsRequest$maxResults` to 10, you received a set of 10 results along with a token. Use that token in this query to get the next set of 10.

Type: String

Required: No

portInformationNeeded (p. 48)

Flag to indicate if port and protocol information is needed as part of the response.

Type: Boolean

Required: No

Response Syntax

```
{
  "knownDependencyCount": number,
  "neighbors": [
    {
      "connectionsCount": number,
      "destinationPort": number,

```

```
    "destinationServerId": "string",  
    "sourceServerId": "string",  
    "transportProtocol": "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.

knownDependencyCount (p. 48)

Count of distinct servers that are one hop away from the given server.

Type: Long

neighbors (p. 48)

List of distinct servers that are one hop away from the given server.

Type: array of [NeighborConnectionDetail](#) (p. 70) objects

nextToken (p. 48)

Token to retrieve the next set of results. For example, if you specified 100 IDs for

`ListServerNeighborsRequest$neighborConfigurationIds` but set `ListServerNeighborsRequest$maxResults` to 10, you received a set of 10 results along with this token. Use this token in the next query to retrieve the next set of 10.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 76).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

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

StartDataCollectionByAgentIds

Instructs the specified agents or connectors to start collecting data.

Request Syntax

```
{  
  "agentIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

agentIds (p. 51)

The IDs of the agents or connectors from which to start collecting data. If you send a request to an agent/connector ID that you do not have permission to contact, according to your AWS account, the service does not throw an exception. Instead, it returns the error in the *Description* field. If you send a request to multiple agents/connectors and you do not have permission to contact some of those agents/connectors, the system does not throw an exception. Instead, the system shows `Failed` in the *Description* field.

Type: array of Strings

Required: Yes

Response Syntax

```
{  
  "agentsConfigurationStatus": [  
    {  
      "agentId": "string",  
      "description": "string",  
      "operationSucceeded": boolean  
    }  
  ]  
}
```

Response Elements

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

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

agentsConfigurationStatus (p. 51)

Information about agents or the connector that were instructed to start collecting data. Information includes the agent/connector ID, a description of the operation performed, and whether the agent/connector configuration was updated.

Type: array of [AgentConfigurationStatus \(p. 61\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

StartExportTask

Export the configuration data about discovered configuration items and relationships to an S3 bucket in a specified format.

Request Syntax

```
{  
  "exportDataFormat": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

exportDataFormat (p. 53)

The file format for the returned export data. Default value is `csv`.

Type: array of Strings

Valid Values: `CSV` | `GRAPHML`

Required: No

Response Syntax

```
{  
  "exportId": "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.

exportId (p. 53)

A unique identifier used to query the status of an export request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

OperationNotPermittedException

This operation is not permitted.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

Example

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see [Signature Version 4 Signing Process](#) in the *AWS General Reference*.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the [AWS Command Line Interface \(AWS CLI\)](#) or one of the [AWS SDKs](#) to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Start an export task and specify output in GraphML format

Sample Request

```
POST / HTTP/1.1
Host: discovery.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: AWSPoseidonService_V2015_11_01.StartExportTask
X-Amz-Date: 20170309T171932Z
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "exportDataFormat": [
    "GRAPHML"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 58
Date: Thu, 09 Mar 2017 17:43:26 GMT

{
  "exportId": "export-123a4b56-7c89-01d2-3ef4-example5678f"
}
```

See Also

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

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

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

StopDataCollectionByAgentIds

Instructs the specified agents or connectors to stop collecting data.

Request Syntax

```
{  
  "agentIds": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

agentIds (p. 56)

The IDs of the agents or connectors from which to stop collecting data.

Type: array of Strings

Required: Yes

Response Syntax

```
{  
  "agentsConfigurationStatus": [  
    {  
      "agentId": "string",  
      "description": "string",  
      "operationSucceeded": boolean  
    }  
  ]  
}
```

Response Elements

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

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

agentsConfigurationStatus (p. 56)

Information about the agents or connector that were instructed to stop collecting data. Information includes the agent/connector ID, a description of the operation performed, and whether the agent/connector configuration was updated.

Type: array of [AgentConfigurationStatus \(p. 61\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

UpdateApplication

Updates metadata about an application.

Request Syntax

```
{  
  "configurationId": "string",  
  "description": "string",  
  "name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 74\)](#).

The request accepts the following data in JSON format.

configurationId (p. 58)

Configuration ID of the application to be updated.

Type: String

Required: Yes

description (p. 58)

New description of the application to be updated.

Type: String

Required: No

name (p. 58)

New name of the application to be updated.

Type: String

Required: No

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 \(p. 76\)](#).

AuthorizationErrorException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

InvalidParameterException

One or more parameters are not valid. Verify the parameters and try again.

HTTP Status Code: 400

InvalidParameterValueException

The value of one or more parameters are either invalid or out of range. Verify the parameter values and try again.

HTTP Status Code: 400

ServerInternalErrorException

The server experienced an internal error. Try again.

HTTP Status Code: 500

See Also

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

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

Data Types

The AWS Application Discovery 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:

- [AgentConfigurationStatus](#) (p. 61)
- [AgentInfo](#) (p. 62)
- [AgentNetworkInfo](#) (p. 64)
- [ConfigurationTag](#) (p. 65)
- [CustomerAgentInfo](#) (p. 66)
- [CustomerConnectorInfo](#) (p. 67)
- [ExportInfo](#) (p. 68)
- [Filter](#) (p. 69)
- [NeighborConnectionDetail](#) (p. 70)
- [OrderByElement](#) (p. 71)
- [Tag](#) (p. 72)
- [TagFilter](#) (p. 73)

AgentConfigurationStatus

Information about agents or connectors that were instructed to start collecting data. Information includes the agent/connector ID, a description of the operation, and whether the agent/connector configuration was updated.

Contents

agentId

The agent/connector ID.

Type: String

Required: No

description

A description of the operation performed.

Type: String

Required: No

operationSucceeded

Information about the status of the `StartDataCollection` and `StopDataCollection` operations. The system has recorded the data collection operation. The agent/connector receives this command the next time it polls for a new command.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

AgentInfo

Information about agents or connectors associated with the user's AWS account. Information includes agent or connector IDs, IP addresses, media access control (MAC) addresses, agent or connector health, hostname where the agent or connector resides, and agent version for each agent.

Contents

agentId

The agent or connector ID.

Type: String

Required: No

agentNetworkInfoList

Network details about the host where the agent or connector resides.

Type: array of [AgentNetworkInfo](#) (p. 64) objects

Required: No

agentType

Type of agent.

Type: String

Required: No

collectionStatus

Status of the collection process for an agent or connector.

Type: String

Required: No

connectorId

The ID of the connector.

Type: String

Required: No

health

The health of the agent or connector.

Type: String

Valid Values: HEALTHY | UNHEALTHY | RUNNING | UNKNOWN | BLACKLISTED | SHUTDOWN

Required: No

hostName

The name of the host where the agent or connector resides. The host can be a server or virtual machine.

Type: String

Required: No

lastHealthPingTime

Time since agent or connector health was reported.

Type: String

Required: No

registeredTime

Agent's first registration timestamp in UTC.

Type: String

Required: No

version

The agent or connector version.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

AgentNetworkInfo

Network details about the host where the agent/connector resides.

Contents

ipAddress

The IP address for the host where the agent/connector resides.

Type: String

Required: No

macAddress

The MAC address for the host where the agent/connector resides.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ConfigurationTag

Tags for a configuration item. Tags are metadata that help you categorize IT assets.

Contents

configurationId

The configuration ID for the item to tag. You can specify a list of keys and values.

Type: String

Required: No

configurationType

A type of IT asset to tag.

Type: String

Valid Values: `SERVER` | `PROCESS` | `CONNECTION` | `APPLICATION`

Required: No

key

A type of tag on which to filter. For example, *serverType*.

Type: String

Required: No

timeOfCreation

The time the configuration tag was created in Coordinated Universal Time (UTC).

Type: Timestamp

Required: No

value

A value on which to filter. For example *key* = *serverType* and *value* = *web server*.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CustomerAgentInfo

Inventory data for installed discovery agents.

Contents

activeAgents

Number of active discovery agents.

Type: Integer

Required: Yes

blackListedAgents

Number of blacklisted discovery agents.

Type: Integer

Required: Yes

healthyAgents

Number of healthy discovery agents

Type: Integer

Required: Yes

shutdownAgents

Number of discovery agents with status SHUTDOWN.

Type: Integer

Required: Yes

totalAgents

Total number of discovery agents.

Type: Integer

Required: Yes

unhealthyAgents

Number of unhealthy discovery agents.

Type: Integer

Required: Yes

unknownAgents

Number of unknown discovery agents.

Type: Integer

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CustomerConnectorInfo

Inventory data for installed discovery connectors.

Contents

activeConnectors

Number of active discovery connectors.

Type: Integer

Required: Yes

blackListedConnectors

Number of blacklisted discovery connectors.

Type: Integer

Required: Yes

healthyConnectors

Number of healthy discovery connectors.

Type: Integer

Required: Yes

shutdownConnectors

Number of discovery connectors with status SHUTDOWN,

Type: Integer

Required: Yes

totalConnectors

Total number of discovery connectors.

Type: Integer

Required: Yes

unhealthyConnectors

Number of unhealthy discovery connectors.

Type: Integer

Required: Yes

unknownConnectors

Number of unknown discovery connectors.

Type: Integer

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ExportInfo

Information regarding the export status of the discovered data. The value is an array of objects.

Contents

configurationsDownloadUrl

A URL for an Amazon S3 bucket where you can review the configuration data. The URL is displayed only if the export succeeded.

Type: String

Required: No

exportId

A unique identifier that you can use to query the export.

Type: String

Required: Yes

exportRequestTime

The time that the configuration data export was initiated.

Type: Timestamp

Required: Yes

exportStatus

The status of the configuration data export. The status can succeed, fail, or be in-progress.

Type: String

Valid Values: `FAILED` | `SUCCEEDED` | `IN_PROGRESS`

Required: Yes

statusMessage

Helpful status messages for API callers. For example: Too many exports in the last 6 hours. Export in progress. Export was successful.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Filter

A filter that can use conditional operators.

For more information about filters, see [Querying Discovered Configuration Items](#).

Contents

condition

A conditional operator. The following operators are valid: EQUALS, NOT_EQUALS, CONTAINS, NOT_CONTAINS. If you specify multiple filters, the system utilizes all filters as though concatenated by *AND*. If you specify multiple values for a particular filter, the system differentiates the values using *OR*. Calling either *DescribeConfigurations* or *ListConfigurations* returns attributes of matching configuration items.

Type: String

Required: Yes

name

The name of the filter.

Type: String

Required: Yes

values

A string value on which to filter. For example, if you choose the `destinationServer.osVersion` filter name, you could specify `Ubuntu` for the value.

Type: array of Strings

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

NeighborConnectionDetail

Details about neighboring servers.

Contents

connectionsCount

The number of open network connections with the neighboring server.

Type: Long

Required: Yes

destinationPort

The destination network port for the connection.

Type: Integer

Required: No

destinationServerId

The ID of the server that accepted the network connection.

Type: String

Required: Yes

sourceServerId

The ID of the server that opened the network connection.

Type: String

Required: Yes

transportProtocol

The network protocol used for the connection.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

OrderByElement

A field and direction for ordered output.

Contents

fieldName

The field on which to order.

Type: String

Required: Yes

sortOrder

Ordering direction.

Type: String

Valid Values: `ASC` | `DESC`

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Tag

Metadata that help you categorize IT assets.

Contents

key

The type of tag on which to filter.

Type: String

Required: Yes

value

A value for a tag key on which to filter.

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

TagFilter

The tag filter. Valid names are: `tagKey`, `tagValue`, `configurationId`.

Contents

name

A name of the tag filter.

Type: String

Required: Yes

values

Values for the tag filter.

Type: array of Strings

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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see [Examples of Signed Signature Version 4 Requests](#) or [Signature Version 4 Test Suite](#) in the *Amazon Web Services General Reference*.

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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in *Using Temporary Security Credentials*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

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

Throttling

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