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Welcome

AWS Systems Manager is a collection of capabilities that helps you automate management tasks such as collecting system inventory, applying operating system (OS) patches, automating the creation of Amazon Machine Images (AMIs), and configuring operating systems (OSs) and applications at scale. Systems Manager lets you remotely and securely manage the configuration of your managed instances. A managed instance is any Amazon Elastic Compute Cloud instance (EC2 instance), or any on-premises server or virtual machine (VM) in your hybrid environment that has been configured for Systems Manager.

This reference is intended to be used with the AWS Systems Manager User Guide.

To get started, verify prerequisites and configure managed instances. For more information, see Setting up AWS Systems Manager in the AWS Systems Manager User Guide.

Related resources

- For information about how to use a Query API, see Making API requests.
- For information about other API actions you can perform on EC2 instances, see the Amazon EC2 API Reference.
- For information about AWS AppConfig, a capability of Systems Manager, see the AWS AppConfig User Guide and the AWS AppConfig API Reference.
- For information about AWS Incident Manager, a capability of Systems Manager, see the AWS Incident Manager User Guide and the AWS Incident Manager API Reference.

This document was last published on May 29, 2021.
Actions

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- AssociateOpsItemRelatedItem (p. 10)
- CancelCommand (p. 13)
- CancelMaintenanceWindowExecution (p. 16)
- CreateActivation (p. 19)
- CreateAssociation (p. 23)
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AddTagsToResource

Adds or overwrites one or more tags for the specified resource. Tags are metadata that you can assign to your documents, managed instances, maintenance windows, Parameter Store parameters, and patch baselines. Tags enable you to categorize your resources in different ways, for example, by purpose, owner, or environment. Each tag consists of a key and an optional value, both of which you define. For example, you could define a set of tags for your account's managed instances that helps you track each instance's owner and stack level. For example: Key=Owner and Value=DbAdmin, SysAdmin, or Dev. Or Key=Stack and Value=Production, Pre-Production, or Test.

Each resource can have a maximum of 50 tags.

We recommend that you devise a set of tag keys that meets your needs for each resource type. Using a consistent set of tag keys makes it easier for you to manage your resources. You can search and filter the resources based on the tags you add. Tags don't have any semantic meaning to and are interpreted strictly as a string of characters.

For more information about using tags with EC2 instances, see Tagging your Amazon EC2 resources in the Amazon EC2 User Guide.

Request Syntax

```json
{  
   "ResourceId": "string",
   "ResourceType": "string",
   "Tags": [
   
    
      {  
        "Key": "string",
        "Value": "string"
      }
  
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

ResourceId (p. 6)

The resource ID you want to tag.

Use the ID of the resource. Here are some examples:

ManagedInstance: mi-012345abcde

MaintenanceWindow: mw-012345abcde

PatchBaseline: pb-012345abcde

OpsMetadata object: ResourceID for tagging is created from the Amazon Resource Name (ARN) for the object. Specifically, ResourceID is created from the strings that come after the word opsmetadata in the ARN. For example, an OpsMetadata object with an ARN of arn:aws:ssm:us-east-2:1234567890:opsmetadata/aws/ssm/MyGroup/appmanager has a ResourceID of either aws/ssm/MyGroup/appmanager or /aws/ssm/MyGroup/appmanager.
For the Document and Parameter values, use the name of the resource.

**Note**  
The ManagedInstance type for this API action is only for on-premises managed instances. You must specify the name of the managed instance in the following format: mi-ID_number. For example, mi-1a2b3c4d5e6f.

Type: String  
Required: Yes

**ResourceType (p. 6)**

Specifies the type of resource you are tagging.

**Note**  
The ManagedInstance type for this API action is for on-premises managed instances. You must specify the name of the managed instance in the following format: mi-ID_number. For example, mi-1a2b3c4d5e6f.

Type: String  
Valid Values: Document | ManagedInstance | MaintenanceWindow | Parameter | PatchBaseline | OpsItem | OpsMetadata  
Required: Yes

**Tags (p. 6)**

One or more tags. The value parameter is required.

**Important**  
Do not enter personally identifiable information in this field.

Type: Array of Tag (p. 816) objects  
Array Members: Maximum number of 1000 items.  
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. 823)].

**InternalServerError**  
An error occurred on the server side.

HTTP Status Code: 500

**InvalidResourceId**  
The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

**InvalidResourceType**  
The resource type is not valid. For example, if you are attempting to tag an instance, the instance must be a registered, managed instance.
HTTP Status Code: 400

**TooManyTagsError**

The `Targets` parameter includes too many tags. Remove one or more tags and try the command again.

HTTP Status Code: 400

**TooManyUpdates**

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of `AddTagsToResource`.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.AddTagsToResource
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200220T232503Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200220/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 122

{
    "ResourceType": "PatchBaseline",
    "ResourceId": "pb-0c10e65780EXAMPLE",
    "Tags": [
        {
            "Key": "Stack",
            "Value": "Production"
        }
    ]
}
```

**Sample Response**

```
{}
```

**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++
See Also

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
AssociateOpsItemRelatedItem

Associates a related resource to a Systems Manager OpsCenter OpsItem. For example, you can associate an Incident Manager incident or analysis with an OpsItem. Incident Manager is a capability of AWS Systems Manager.

Request Syntax

```json
{
    "AssociationType": "string",
    "OpsItemId": "string",
    "ResourceType": "string",
    "ResourceUri": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationType** (p. 10)

The type of association that you want to create between an OpsItem and a resource. OpsCenter supports IsParentOf and RelatesTo association types.

Type: String

Required: Yes

**OpsItemId** (p. 10)

The ID of the OpsItem to which you want to associate a resource as a related item.

Type: String

Pattern: `^(oi)-[0-9a-f]{12}$`

Required: Yes

**ResourceType** (p. 10)

The type of resource that you want to associate with an OpsItem. OpsCenter supports the following types:

- `AWS::SSM::IncidentRecord`: an Incident Manager incident. Incident Manager is a capability of AWS Systems Manager.
- `AWS::SSM::Document`: a Systems Manager (SSM) document.

Type: String

Required: Yes

**ResourceUri** (p. 10)

The Amazon Resource Name (ARN) of the AWS resource that you want to associate with the OpsItem.

Type: String
Required: Yes

Response Syntax

```
{
  "AssociationId": "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.

**AssociationId** (p. 11)

- The association ID.
- **Type**: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

- An error occurred on the server side.
- HTTP Status Code: 500

**OpsItemInvalidParameterException**

- A specified parameter argument isn't valid. Verify the available arguments and try again.
- HTTP Status Code: 400

**OpsItemLimitExceededException**

- The request caused OpsItems to exceed one or more quotas. For information about OpsItem quotas, see What are the resource limits for OpsCenter?.
- HTTP Status Code: 400

**OpsItemNotFoundException**

- The specified OpsItem ID doesn't exist. Verify the ID and try again.
- HTTP Status Code: 400

**OpsItemRelatedItemAlreadyExistsException**

- The Amazon Resource Name (ARN) is already associated with the OpsItem.
- 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
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
## CancelCommand

Attempts to cancel the command specified by the Command ID. There is no guarantee that the command will be terminated and the underlying process stopped.

### Request Syntax

```
{
  "CommandId": "string",
  "InstanceIds": [ "string" ]
}
```

### Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**CommandId (p. 13)**

The ID of the command you want to cancel.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

**InstanceIds (p. 13)**

(Optional) A list of instance IDs on which you want to cancel the command. If not provided, the command is canceled on every instance on which it was requested.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Pattern: (^i-(\w{8}|\w{17}$)|(^mi-\w{17}$)

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. 823).

**DuplicateInstanceId**

You cannot specify an instance ID in more than one association.

HTTP Status Code: 400
InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidCommandId

The specified command ID is not valid. Verify the ID and try again.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

- You do not have permission to access the instance.
- SSM Agent is not running. Verify that SSM Agent is running.
- SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.
- The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CancelCommand.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CancelCommand
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200220T233525Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200220/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 53

{
  "CommandId": "25173b39-c88d-4459-ba3d-8704aEXAMPLE"
}
```

Sample Response

```
{}
```

See Also

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

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

Stops a maintenance window execution that is already in progress and cancels any tasks in the window that have not already starting running. (Tasks already in progress will continue to completion.)

Request Syntax

```
{
   "WindowExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

WindowExecutionId (p. 16)

The ID of the maintenance window execution to stop.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`

Required: Yes

Response Syntax

```
{
   "WindowExecutionId": "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.

WindowExecutionId (p. 16)

The ID of the maintenance window execution that has been stopped.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of CancelMaintenanceWindowExecution.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CancelMaintenanceWindowExecution
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T010054Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 61

{
  "WindowExecutionId": "02f05632-d0bc-470d-b1e5-c59a8EXAMPLE"
}
```

Sample Response

```plaintext
{
  "WindowExecutionId": "02f05632-d0bc-470d-b1e5-c59a8EXAMPLE"
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateActivation

Generates an activation code and activation ID you can use to register your on-premises server or virtual machine (VM) with Systems Manager. Registering these machines with Systems Manager makes it possible to manage them using Systems Manager capabilities. You use the activation code and ID when installing SSM Agent on machines in your hybrid environment. For more information about requirements for managing on-premises instances and VMs using Systems Manager, see Setting up AWS Systems Manager for hybrid environments in the AWS Systems Manager User Guide.

Note
On-premises servers or VMs that are registered with Systems Manager and EC2 instances that you manage with Systems Manager are all called managed instances.

Request Syntax

```json
{
  "DefaultInstanceName": "string",
  "Description": "string",
  "ExpirationDate": number,
  "IamRole": "string",
  "RegistrationLimit": number,
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DefaultInstanceName (p. 19)**

The name of the registered, managed instance as it will appear in the Systems Manager console or when you use the AWS command line tools to list Systems Manager resources.

**Important**

Do not enter personally identifiable information in this field.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}]_\+:=/+-\@]*$`

Required: No

**Description (p. 19)**

A user-defined description of the resource that you want to register with Systems Manager.

**Important**

Do not enter personally identifiable information in this field.

Type: String
**Length Constraints:** Minimum length of 0. Maximum length of 256.

**Required:** No

**ExpirationDate (p. 19)**

The date by which this activation request should expire, in timestamp format, such as "2021-07-07T00:00:00". You can specify a date up to 30 days in advance. If you don't provide an expiration date, the activation code expires in 24 hours.

Type: Timestamp

**Required:** No

**IamRole (p. 19)**

The Amazon Identity and Access Management (IAM) role that you want to assign to the managed instance. This IAM role must provide AssumeRole permissions for the Systems Manager service principal `ssm.amazonaws.com`. For more information, see Create an IAM service role for a hybrid environment in the AWS Systems Manager User Guide.

Type: String

**Length Constraints:** Maximum length of 64.

**Required:** Yes

**RegistrationLimit (p. 19)**

Specify the maximum number of managed instances you want to register. The default value is 1 instance.

Type: Integer

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

**Required:** No

**Tags (p. 19)**

Optional metadata that you assign to a resource. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag an activation to identify which servers or virtual machines (VMs) in your on-premises environment you intend to activate. In this case, you could specify the following key name/value pairs:

- `Key=OS, Value=Windows`
- `Key=Environment, Value=Production`

**Important**

When you install SSM Agent on your on-premises servers and VMs, you specify an activation ID and code. When you specify the activation ID and code, tags assigned to the activation are automatically applied to the on-premises servers or VMs.

You can't add tags to or delete tags from an existing activation. You can tag your on-premises servers and VMs after they connect to Systems Manager for the first time and are assigned a managed instance ID. This means they are listed in the AWS Systems Manager console with an ID that is prefixed with "mi-". For information about how to add tags to your managed instances, see AddTagsToResource (p. 6). For information about how to remove tags from your managed instances, see RemoveTagsFromResource (p. 444).

Type: Array of Tag (p. 816) objects

**Array Members:** Maximum number of 1000 items.

**Required:** No
Response Syntax

```
{
  "ActivationCode": "string",
  "ActivationId": "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.

**ActivationCode (p. 21)**

The code the system generates when it processes the activation. The activation code functions like a password to validate the activation ID.

Type: String


**ActivationId (p. 21)**

The ID number generated by the system when it processed the activation. The activation ID functions like a user name.

Type: String

Pattern: `^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerErro**

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of CreateActivation.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateActivation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
```

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Sample Response

```
{
  "ActivationCode":"Fjz3/sZfSvv78EXAMPLE",
  "ActivationId":"e488f2f6-e686-4af6-8a04-ef6dfEXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateAssociation

A State Manager association defines the state that you want to maintain on your instances. For example, an association can specify that anti-virus software must be installed and running on your instances, or that certain ports must be closed. For static targets, the association specifies a schedule for when the configuration is reapplied. For dynamic targets, such as an AWS Resource Group or an AWS Autoscaling Group, State Manager applies the configuration when new instances are added to the group. The association also specifies actions to take when applying the configuration. For example, an association for anti-virus software might run once a day. If the software is not installed, then State Manager installs it. If the software is installed, but the service is not running, then the association might instruct State Manager to start the service.

Request Syntax

```
{
    "ApplyOnlyAtCronInterval": boolean,
    "AssociationName": "string",
    "AutomationTargetParameterName": "string",
    "CalendarNames": [ "string" ],
    "ComplianceSeverity": "string",
    "DocumentVersion": "string",
    "InstanceId": "string",
    "MaxConcurrency": "string",
    "MaxErrors": "string",
    "Name": "string",
    "OutputLocation": {
        "S3Location": {
            "OutputS3BucketName": "string",
            "OutputS3KeyPrefix": "string",
            "OutputS3Region": "string"
        }
    },
    "Parameters": {
        "string": [ "string" ]
    },
    "ScheduleExpression": "string",
    "SyncCompliance": "string",
    "TargetLocations": [
        {
            "Accounts": [ "string" ],
            "ExecutionRoleName": "string",
            "Regions": [ "string" ],
            "TargetLocationMaxConcurrency": "string",
            "TargetLocationMaxErrors": "string"
        }
    ],
    "Targets": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.
ApplyOnlyAtCronInterval (p. 23)

By default, when you create a new association, the system runs it immediately after it is created and then according to the schedule you specified. Specify this option if you don't want an association to run immediately after you create it. This parameter is not supported for rate expressions.

Type: Boolean
Required: No

AssociationName (p. 23)

Specify a descriptive name for the association.

Type: String

Pattern: ^[a-zA-Z0-9_.\-]{3,128}$
Required: No

AutomationTargetParameterName (p. 23)

Specify the target for the association. This target is required for associations that use an Automation document and target resources by using rate controls.

Type: String

Required: No

CalendarNames (p. 23)

The names or Amazon Resource Names (ARNs) of the Systems Manager Change Calendar type documents you want to gate your associations under. The associations only run when that Change Calendar is open. For more information, see AWS Systems Manager Change Calendar.

Type: Array of strings
Required: No

ComplianceSeverity (p. 23)

The severity level to assign to the association.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | UNSPECIFIED
Required: No

DocumentVersion (p. 23)

The document version you want to associate with the target(s). Can be a specific version or the default version.

Type: String

Pattern: ([$]\$LATEST|[$]\$DEFAULT|^[1-9]\^[0-9]*$)
Required: No

InstanceId (p. 23)

The instance ID.
Note
InstanceId has been deprecated. To specify an instance ID for an association, use the Targets parameter. Requests that include the parameter InstanceId with SSM documents that use schema version 2.0 or later will fail. In addition, if you use the parameter InstanceId, you cannot use the parameters AssociationName, DocumentVersion, MaxErrors, MaxConcurrency, OutputLocation, or ScheduleExpression. To use these parameters, you must use the Targets parameter.

Type: String
Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)
Required: No

MaxConcurrency (p. 23)
The maximum number of targets allowed to run the association at the same time. You can specify a number, for example 10, or a percentage of the target set, for example 10%. The default value is 100%, which means all targets run the association at the same time.

If a new instance starts and attempts to run an association while Systems Manager is running MaxConcurrency associations, the association is allowed to run. During the next association interval, the new instance will process its association within the limit specified for MaxConcurrency.

Type: String
Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[0-9]%|100%)$
Required: No

MaxErrors (p. 23)
The number of errors that are allowed before the system stops sending requests to run the association on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops sending requests when the fourth error is received. If you specify 0, then the system stops sending requests after the first error is returned. If you run an association on 50 instances and set MaxErrors to 10%, then the system stops sending the request when the sixth error is received.

Executions that are already running an association when MaxErrors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be more than max-errors failed executions, set MaxConcurrency to 1 so that executions proceed one at a time.

Type: String
Pattern: ^([1-9][0-9]*|[0][1-9][0-9]%|[1-9][0-9]%|100%)$
Required: No

Name (p. 23)
The name of the SSM document that contains the configuration information for the instance. You can specify Command or Automation documents.

You can specify AWS-predefined documents, documents you created, or a document that is shared with you from another account.

For SSM documents that are shared with you from other AWS accounts, you must specify the complete SSM document ARN, in the following format:

For example:

For AWS-predefined documents and SSM documents you created in your account, you only need to specify the document name. For example, AWS-ApplyPatchBaseline or My-Document.

Type: String

Pattern: ^[a-zA-Z0-9_-./\]{3,128}$

Required: Yes

OutputLocation (p. 23)

An S3 bucket where you want to store the output details of the request.

Type: InstanceAssociationOutputLocation (p. 661) object

Required: No

Parameters (p. 23)

The parameters for the runtime configuration of the document.

Type: String to array of strings map

Required: No

ScheduleExpression (p. 23)

A cron expression when the association will be applied to the target(s).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

SyncCompliance (p. 23)

The mode for generating association compliance. You can specify AUTO or MANUAL. In AUTO mode, the system uses the status of the association execution to determine the compliance status. If the association execution runs successfully, then the association is COMPLIANT. If the association execution doesn’t run successfully, the association is NON-COMPLIANT.

In MANUAL mode, you must specify the AssociationId as a parameter for the PutComplianceItems (p. 410) API action. In this case, compliance data is not managed by State Manager. It is managed by your direct call to the PutComplianceItems (p. 410) API action.

By default, all associations use AUTO mode.

Type: String

Valid Values: AUTO | MANUAL

Required: No

TargetLocations (p. 23)

A location is a combination of AWS Regions and AWS accounts where you want to run the association. Use this action to create an association in multiple Regions and multiple accounts.

Type: Array of TargetLocation (p. 819) objects
Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

**Targets (p. 23)**

The targets for the association. You can target instances by using tags, AWS Resource Groups, all instances in an AWS account, or individual instance IDs. For more information about choosing targets for an association, see Using targets and rate controls with State Manager associations in the AWS Systems Manager User Guide.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**Response Syntax**

```json
{
   "AssociationDescription": {
      "ApplyOnlyAtCronInterval": boolean,
      "AssociationId": "string",
      "AssociationName": "string",
      "AssociationVersion": "string",
      "AutomationTargetParameterName": "string",
      "CalendarNames": [ "string" ],
      "ComplianceSeverity": "string",
      "Date": number,
      "DocumentVersion": "string",
      "InstanceId": "string",
      "LastExecutionDate": number,
      "LastSuccessfulExecutionDate": number,
      "LastUpdateAssociationDate": number,
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "Name": "string",
      "OutputLocation": {
         "S3Location": {
            "OutputS3BucketName": "string",
            "OutputS3KeyPrefix": "string",
            "OutputS3Region": "string"
         }
      },
      "Overview": {
         "AssociationStatusAggregatedCount": {
            "string" : number
         },
         "DetailedStatus": "string",
         "Status": "string"
      },
      "Parameters": {
         "string" : [ "string" ]
      },
      "ScheduleExpression": "string",
      "Status": {
         "AdditionalInfo": "string",
         "Date": number,
         "Message": "string",
         "Name": "string"
      },
      "SyncCompliance": "string",
      "TargetLocations": [ [ ]
   }
}
```
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.

**AssociationDescription (p. 27)**

Information about the association.

Type: AssociationDescription (p. 570) object

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**AssociationAlreadyExists**

The specified association already exists.

HTTP Status Code: 400

**AssociationLimitExceeded**

You can have at most 2,000 active associations.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentVersion**

The document version is not valid or does not exist.

HTTP Status Code: 400
InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

InvalidOutputLocation

The output location is not valid or does not exist.

HTTP Status Code: 400

InvalidParameters

You must specify values for all required parameters in the Systems Manager document. You can only supply values to parameters defined in the Systems Manager document.

HTTP Status Code: 400

InvalidSchedule

The schedule is invalid. Verify your cron or rate expression and try again.

HTTP Status Code: 400

InvalidTarget

The target is not valid or does not exist. It might not be configured for Systems Manager or you might not have permission to perform the operation.

HTTP Status Code: 400

UnsupportedPlatformType

The document does not support the platform type of the given instance ID(s). For example, you sent an document for a Windows instance to a Linux instance.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateAssociation.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateAssociation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
```
X-Amz-Date: 20200324T140427Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aw4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 67
{
    "Name": "AWS-UpdateSSMAgent",
    "InstanceId": "i-02573cacfCEXAMPLE"
}

Sample Response
{
    "AssociationDescription": {
        "ApplyOnlyAtCronInterval": false,
        "AssociationId": "f7d193fe-7722-4f2b-ac53-d8736EXAMPLE",
        "AssociationVersion": "1",
        "Date": 1.585058668255E9,
        "DocumentVersion": "$DEFAULT",
        "InstanceId": "i-02573cacfCEXAMPLE",
        "LastUpdateAssociationDate": 1.585058668255E9,
        "Name": "AWS-UpdateSSMAgent",
        "Overview": {
            "DetailedStatus": "Creating",
            "Status": "Pending"
        },
        "Status": {
            "Date": 1.585058668255E9,
            "Message": "Associated with AWS-UpdateSSMAgent",
            "Name": "Associated"
        },
        "Targets": [
            {
                "Key": "InstanceId",
                "Values": [
                    "i-02573cacfCEXAMPLE"
                ]
            }
        ]
    }
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateAssociationBatch

Associates the specified Systems Manager document with the specified instances or targets.

When you associate a document with one or more instances using instance IDs or tags, SSM Agent running on the instance processes the document and configures the instance as specified.

If you associate a document with an instance that already has an associated document, the system returns the AssociationAlreadyExists exception.

Request Syntax

```json
{
  "Entries": [
    {
      "ApplyOnlyAtCronInterval": boolean,
      "AssociationName": "string",
      "AutomationTargetParameterName": "string",
      "CalendarNames": [ "string" ],
      "ComplianceSeverity": "string",
      "DocumentVersion": "string",
      "InstanceId": "string",
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "Name": "string",
      "OutputLocation": {
        "S3Location": {
          "OutputS3BucketName": "string",
          "OutputS3KeyPrefix": "string",
          "OutputS3Region": "string"
        }
      },
      "Parameters": {
        "string": [ "string" ]
      },
      "ScheduleExpression": "string",
      "SyncCompliance": "string",
      "TargetLocations": [
        {
          "Accounts": [ "string" ],
          "ExecutionRoleName": "string",
          "Regions": [ "string" ],
          "TargetLocationMaxConcurrency": "string",
          "TargetLocationMaxErrors": "string"
        }
      ],
      "Targets": [
        {
          "Key": "string",
          "Values": [ "string" ]
        }
      ]
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).
The request accepts the following data in JSON format.

Entries (p. 31)

One or more associations.

Type: Array of CreateAssociationBatchRequestEntry (p. 630) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```json
{
    "Failed": [
        {
            "Entry": {
                "ApplyOnlyAtCronInterval": boolean,
                "AssociationName": "string",
                "AutomationTargetParameterName": "string",
                "CalendarNames": [ "string" ],
                "ComplianceSeverity": "string",
                "DocumentVersion": "string",
                "InstanceId": "string",
                "MaxConcurrency": "string",
                "MaxErrors": "string",
                "Name": "string",
                "OutputLocation": {
                    "S3Location": {
                        "OutputS3BucketName": "string",
                        "OutputS3KeyPrefix": "string",
                        "OutputS3Region": "string"
                    }
                },
                "Parameters": {
                    "string" : [ "string" ]
                },
                "ScheduleExpression": "string",
                "SyncCompliance": "string",
                "TargetLocations": [
                    {
                        "Accounts": [ "string" ],
                        "ExecutionRoleName": "string",
                        "Regions": [ "string" ],
                        "TargetLocationMaxConcurrency": "string",
                        "TargetLocationMaxErrors": "string"
                    }
                ],
                "Targets": [
                    {
                        "Key": "string",
                        "Values": [ "string" ]
                    }
                ],
                "Fault": "string",
                "Message": "string"
            }
        }
    ],
    "Successful": [
        {
            "ApplyOnlyAtCronInterval": boolean,
            "AssociationName": "string",
            "AutomationTargetParameterName": "string",
            "CalendarNames": [ "string" ],
            "ComplianceSeverity": "string",
            "DocumentVersion": "string",
            "InstanceId": "string",
            "MaxConcurrency": "string",
            "MaxErrors": "string",
            "Name": "string",
            "OutputLocation": {
                "S3Location": {
                    "OutputS3BucketName": "string",
                    "OutputS3KeyPrefix": "string",
                    "OutputS3Region": "string"
                }
            },
            "Parameters": {
                "string" : [ "string" ]
            },
            "ScheduleExpression": "string",
            "SyncCompliance": "string",
            "TargetLocations": ["string"],
            "Targets": ["string"],
            "Fault": "string",
            "Message": "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.
Failed (p. 32)

Information about the associations that failed.

Type: Array of FailedCreateAssociation (p. 657) objects

Successful (p. 32)

Information about the associations that succeeded.

Type: Array of AssociationDescription (p. 570) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

AssociationLimitExceeded

You can have at most 2,000 active associations.

HTTP Status Code: 400

DuplicateInstanceId

You cannot specify an instance ID in more than one association.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidDocumentVersion

The document version is not valid or does not exist.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

- You do not have permission to access the instance.
- SSM Agent is not running. Verify that SSM Agent is running.
- SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.
- The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

InvalidOutputLocation

The output location is not valid or does not exist.

HTTP Status Code: 400
InvalidParameters

You must specify values for all required parameters in the Systems Manager document. You can only supply values to parameters defined in the Systems Manager document.

HTTP Status Code: 400

InvalidSchedule

The schedule is invalid. Verify your cron or rate expression and try again.

HTTP Status Code: 400

InvalidTarget

The target is not valid or does not exist. It might not be configured for Systems Manager or you might not have permission to perform the operation.

HTTP Status Code: 400

UnsupportedPlatformType

The document does not support the platform type of the given instance ID(s). For example, you sent an document for a Windows instance to a Linux instance.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateAssociationBatch.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateAssociationBatch
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T142446Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 151

{
  "Entries": [
    {
      "InstanceId": "i-0471e04240EXAMPLE",
      "Name": "AWS-UpdateSSMAgent"
    },
    {
      "InstanceId": "i-07782c72faEXAMPLE",
      "Name": "AWS-UpdateSSMAgent"
    }
  ]
}
```

Sample Response

```
{
}
```
"Failed": [],
"Successful": [

- "ApplyOnlyAtCronInterval":false,
  "AssociationId":"33858bec-0c55-4547-a054-eb5fcEXAMPLE",
  "AssociationVersion":"1",
  "Date":1.585059887692E9,
  "DocumentVersion": "$DEFAULT",
  "InstanceId":"i-0471e04240EXAMPLE",
  "LastUpdateAssociationDate":1.585059887692E9,
  "Name":"AWS-UpdateSSMAgent",
  "Overview":{
    "DetailedStatus": "Creating",
    "Status": "Pending"
  },
  "Status": {
    "Date": 1.585059887692E9,
    "Message": "Associated with AWS-UpdateSSMAgent",
    "Name": "Associated"
  },
  "Targets": [
    {
      "Key": "InstanceIds",
      "Values": ["i-0471e04240EXAMPLE"
    ]
  }
],

- "ApplyOnlyAtCronInterval":false,
  "AssociationId":"e0e0a062-3dcb-4b3e-bb2b-d01b4EXAMPLE",
  "AssociationVersion":"1",
  "Date":1.585059887726E9,
  "DocumentVersion": "$DEFAULT",
  "InstanceId":"i-07782c72faEXAMPLE",
  "LastUpdateAssociationDate":1.585059887726E9,
  "Name":"AWS-UpdateSSMAgent",
  "Overview":{
    "DetailedStatus": "Creating",
    "Status": "Pending"
  },
  "Status": {
    "Date": 1.585059887726E9,
    "Message": "Associated with AWS-UpdateSSMAgent",
    "Name": "Associated"
  },
  "Targets": [
    {
      "Key": "InstanceIds",
      "Values": ["i-07782c72faEXAMPLE"
    ]
  }
]
]

See Also

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

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

Creates a Systems Manager (SSM) document. An SSM document defines the actions that Systems Manager performs on your managed instances. For more information about SSM documents, including information about supported schemas, features, and syntax, see AWS Systems Manager Documents in the AWS Systems Manager User Guide.

Request Syntax

```json
{
  "Attachments": [
    {
      "Key": "string",
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Content": "string",
  "DisplayName": "string",
  "DocumentFormat": "string",
  "DocumentType": "string",
  "Name": "string",
  "Requires": [
    {
      "Name": "string",
      "Version": "string"
    }
  ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TargetType": "string",
  "VersionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Attachments (p. 38)

A list of key and value pairs that describe attachments to a version of a document.

Type: Array of AttachmentsSource (p. 591) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

Content (p. 38)

The content for the new SSM document in JSON or YAML format. We recommend storing the contents for your new document in an external JSON or YAML file and referencing the file in a command.
For examples, see the following topics in the AWS Systems Manager User Guide.

- Create an SSM document (AWS API)
- Create an SSM document (AWS CLI)
- Create an SSM document (API)

**Type:** String

**Length Constraints:** Minimum length of 1.

**Required:** Yes

**DisplayName (p. 38)**

An optional field where you can specify a friendly name for the Systems Manager document. This value can differ for each version of the document. You can update this value at a later time using the UpdateDocument (p. 503) action.

**Type:** String

**Length Constraints:** Maximum length of 1024.

**Pattern:** `^[\w\.\-\:/\ ]*$`

**Required:** No

**DocumentFormat (p. 38)**

Specify the document format for the request. The document format can be JSON, YAML, or TEXT. JSON is the default format.

**Type:** String

**Valid Values:** YAML | JSON | TEXT

**Required:** No

**DocumentType (p. 38)**

The type of document to create.

**Type:** String

**Valid Values:** Command | Policy | Automation | Session | Package | ApplicationConfiguration | ApplicationConfigurationSchema | DeploymentStrategy | ChangeCalendar | Automation.ChangeTemplate | ProblemAnalysis | ProblemAnalysisTemplate

**Required:** No

**Name (p. 38)**

A name for the Systems Manager document.

**Important**

You can't use the following strings as document name prefixes. These are reserved by AWS for use as document name prefixes:

- `aws-`
- `amazon`
- `amzn`
Type: String

Pattern: ^[^a-zA-Z0-9_\-\.]\{3,128}\$

Required: Yes

**Requires (p. 38)**

A list of SSM documents required by a document. This parameter is used exclusively by AWS AppConfig. When a user creates an AppConfig configuration in an SSM document, the user must also specify a required document for validation purposes. In this case, an ApplicationConfiguration document requires an ApplicationConfigurationSchema document for validation purposes. For more information, see AWS AppConfig in the AWS Systems Manager User Guide.

Type: Array of DocumentRequires (p. 649) objects

Array Members: Minimum number of 1 item.

Required: No

**Tags (p. 38)**

Optional metadata that you assign to a resource. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag an SSM document to identify the types of targets or the environment where it will run. In this case, you could specify the following key name/value pairs:

- Key=OS, Value=Windows
- Key=Environment, Value=Production

**Note**

To add tags to an existing SSM document, use the AddTagsToResource (p. 6) action.

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

**TargetType (p. 38)**

Specify a target type to define the kinds of resources the document can run on. For example, to run a document on EC2 instances, specify the following value: /AWS::EC2::Instance. If you specify a value of '/' the document can run on all types of resources. If you don't specify a value, the document can't run on any resources. For a list of valid resource types, see AWS resource and property types reference in the AWS CloudFormation User Guide.

Type: String

Length Constraints: Maximum length of 200.

Pattern: ^\/[\w.\-:/\\]*$

Required: No

**VersionName (p. 38)**

An optional field specifying the version of the artifact you are creating with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String
Pattern: ^[a-zA-Z0-9\-_.]{1,128}$
Required: No

Response Syntax

{
  "DocumentDescription": {
    "ApprovedVersion": "string",
    "AttachmentsInformation": [
      {
        "Name": "string"
      }
    ],
    "Author": "string",
    "CreatedAt": number,
    "DefaultVersion": "string",
    "Description": "string",
    "DisplayName": "string",
    "DocumentFormat": "string",
    "DocumentType": "string",
    "DocumentVersion": "string",
    "Hash": "string",
    "HashType": "string",
    "LatestVersion": "string",
    "Name": "string",
    "Owner": "string",
    "Parameters": [
      {
        "DefaultValue": "string",
        "Description": "string",
        "Name": "string",
        "Type": "string"
      }
    ],
    "PendingReviewVersion": "string",
    "PlatformTypes": ["string"],
    "Requires": [
      {
        "Name": "string",
        "Version": "string"
      }
    ],
    "ReviewInformation": [
      {
        "ReviewedTime": number,
        "Reviewer": "string",
        "Status": "string"
      }
    ],
    "ReviewStatus": "string",
    "SchemaVersion": "string",
    "Sha1": "string",
    "Status": "string",
    "StatusInformation": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "TargetType": "string",
    "VersionName": "string"
  }
}
Response Elements

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

**DocumentDescription (p. 41)**

Information about the Systems Manager document.

Type: DocumentDescription (p. 636) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

- **DocumentAlreadyExists**
  - The specified document already exists.
  - HTTP Status Code: 400

- **DocumentLimitExceeded**
  - You can have at most 500 active Systems Manager documents.
  - HTTP Status Code: 400

- **InternalServerError**
  - An error occurred on the server side.
  - HTTP Status Code: 500

- **InvalidDocumentContent**
  - The content for the document is not valid.
  - HTTP Status Code: 400

- **InvalidDocumentSchemaVersion**
  - The version of the document schema is not supported.
  - HTTP Status Code: 400

- **MaxDocumentSizeExceeded**
  - The size limit of a document is 64 KB.
  - HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateDocument.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateDocument
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T145550Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 963

{
"Content":"---

description: "Example"
schemaVersion: '0.3'
assumeRole: "{{ AutomationAssumeRole }}"
---truncated--,
"Name":"Example",
"DocumentType":"Automation",
"DocumentFormat":"YAML"
}

Sample Response

{
"DocumentDescription":{
"CreateDate":1.585061751738E9,
"DefaultVersion":"1",
"Description":"Custom Automation Example",
"DocumentFormat":"YAML",
"DocumentType":"Automation",
"DocumentVersion":"1",
"Hash":"0d3d879b3ca072e03c12630d0255eb004d2c65bd318f8354fcd820dEXAMPLE",
"HashType":"Sha256",
"LatestVersion":"1",
"Name":"Example",
"Owner":"111122223333",
"Parameters": [
{
"DefaultValue":"",
"Description":"(Optional) The ARN of the role that allows Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses your IAM permissions to execute this document.",
"Name":"AutomationAssumeRole",
"Type":"String"
},
{
"DefaultValue":"",
"Description":"(Required) The Instance Id to create an image of.",
"Name":"InstanceId",
"Type":"String"
}
],
"PlatformTypes": [
"Windows",
"Linux"
],
"SchemaVersion":"0.3",
"Status":"Creating",
"Tags":[]
}

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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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateMaintenanceWindow

Creates a new maintenance window.

Note
The value you specify for Duration determines the specific end time for the maintenance window based on the time it begins. No maintenance window tasks are permitted to start after the resulting endtime minus the number of hours you specify for Cutoff. For example, if the maintenance window starts at 3 PM, the duration is three hours, and the value you specify for Cutoff is one hour, no maintenance window tasks can start after 5 PM.

Request Syntax

{
  "AllowUnassociatedTargets": boolean,
  "ClientToken": "string",
  "Cutoff": number,
  "Description": "string",
  "Duration": number,
  "EndDate": "string",
  "Name": "string",
  "Schedule": "string",
  "ScheduleOffset": number,
  "ScheduleTimezone": "string",
  "StartDate": "string",
  "Tags": [
    { "Key": "string",
      "Value": "string"
    }
  ]
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

AllowUnassociatedTargets (p. 45)

Enables a maintenance window task to run on managed instances, even if you have not registered those instances as targets. If enabled, then you must specify the unregistered instances (by instance ID) when you register a task with the maintenance window.

If you don't enable this option, then you must specify previously-registered targets when you register a task with the maintenance window.

Type: Boolean

Required: Yes

ClientToken (p. 45)

User-provided idempotency token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

**Cutoff (p. 45)**

The number of hours before the end of the maintenance window that Systems Manager stops scheduling new tasks for execution.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: Yes

**Description (p. 45)**

An optional description for the maintenance window. We recommend specifying a description to help you organize your maintenance windows.

Type: String


Required: No

**Duration (p. 45)**

The duration of the maintenance window in hours.

Type: Integer


Required: Yes

**EndDate (p. 45)**

The date and time, in ISO-8601 Extended format, for when you want the maintenance window to become inactive. EndDate allows you to set a date and time in the future when the maintenance window will no longer run.

Type: String

Required: No

**Name (p. 45)**

The name of the maintenance window.

Type: String


Pattern: ^\[a-zA-Z0-9_-\.\]\(3,128\)$

Required: Yes

**Schedule (p. 45)**

The schedule of the maintenance window in the form of a cron or rate expression.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes
ScheduleOffset (p. 45)

The number of days to wait after the date and time specified by a CRON expression before running the maintenance window.

For example, the following cron expression schedules a maintenance window to run on the third Tuesday of every month at 11:30 PM.

cron(30 23 ? * TUE#3 *)

If the schedule offset is 2, the maintenance window won't run until two days later.

Type: Integer


Required: No

ScheduleTimezone (p. 45)

The time zone that the scheduled maintenance window executions are based on, in Internet Assigned Numbers Authority (IANA) format. For example: "America/Los_Angeles", "UTC", or "Asia/Seoul". For more information, see the Time Zone Database on the IANA website.

Type: String

Required: No

StartDate (p. 45)

The date and time, in ISO-8601 Extended format, for when you want the maintenance window to become active. StartDate allows you to delay activation of the maintenance window until the specified future date.

Type: String

Required: No

Tags (p. 45)

Optional metadata that you assign to a resource. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag a maintenance window to identify the type of tasks it will run, the types of targets, and the environment it will run in. In this case, you could specify the following key name/value pairs:

• Key=TaskType, Value=AgentUpdate
• Key=OS, Value=Windows
• Key=Environment, Value=Production

Note
To add tags to an existing maintenance window, use the AddTagsToResource (p. 6) action.

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

Response Syntax

{

}
"WindowId": "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.

WindowId (p. 47)

The ID of the created maintenance window.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

IdempotentParameterMismatch

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ResourceLimitExceeded Exception

Error returned when the caller has exceeded the default resource quotas. For example, too many maintenance windows or patch baselines have been created.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateMaintenanceWindow.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
AWS Systems Manager API Reference

See Also

Content-Length: 186
X-Amz-Target: AmazonSSM.CreateMaintenanceWindow
X-Amz-Date: 20180312T201809Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180312/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "Name": "My-Development-Maintenance-Window",
    "Cutoff": 2,
    "Schedule": "cron(0 12 ? * WED *)",
    "AllowUnassociatedTargets": true,
    "Duration": 6,
    "Tags": [
        {
            "Key": "Environment",
            "Value": "Development"
        }
    ],
    "ClientToken": "a1b2cd2e-27e3-42ff-9c8d-99380EXAMPLE"
}

Sample Response

{
    "WindowId": "mw-0c50858d01EXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateOpsItem

Creates a new OpsItem. You must have permission in AWS Identity and Access Management (IAM) to create a new OpsItem. For more information, see Getting started with OpsCenter in the AWS Systems Manager User Guide.

Operations engineers and IT professionals use OpsCenter to view, investigate, and remediate operational issues impacting the performance and health of their AWS resources. For more information, see AWS Systems Manager OpsCenter in the AWS Systems Manager User Guide.

Request Syntax

```json
{
  "ActualEndTime": number,
  "ActualStartTime": number,
  "Category": "string",
  "Description": "string",
  "Notifications": [
    {
      "Arn": "string"
    }
  ],
  "OperationalData": {
    "string": {
      "Type": "string",
      "Value": "string"
    }
  },
  "OpsItemType": "string",
  "PlannedEndTime": number,
  "PlannedStartTime": number,
  "Priority": number,
  "RelatedOpsItems": [
    {
      "OpsItemId": "string"
    }
  ],
  "Severity": "string",
  "Source": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Title": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ActualEndTime (p. 50)**

The time a runbook workflow ended. Currently reported only for the OpsItem type `/aws/changerequest`.  

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Type: Timestamp
Required: No

**ActualStartTime (p. 50)**

The time a runbook workflow started. Currently reported only for the OpsItem type `/aws/changerequest`.

Type: Timestamp
Required: No

**Category (p. 50)**

Specify a category to assign to an OpsItem.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Pattern: `^(?!\s*$).+`
Required: No

**Description (p. 50)**

Information about the OpsItem.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 2048.
Pattern: `^[\s\S]*\S[\s\S]*`
Required: Yes

**Notifications (p. 50)**

The Amazon Resource Name (ARN) of an SNS topic where notifications are sent when this OpsItem is edited or changed.

Type: Array of OpsItemNotification (p. 737) objects
Required: No

**OperationalData (p. 50)**

Operational data is custom data that provides useful reference details about the OpsItem. For example, you can specify log files, error strings, license keys, troubleshooting tips, or other relevant data. You enter operational data as key-value pairs. The key has a maximum length of 128 characters. The value has a maximum size of 20 KB.

**Important**

Operational data keys can't begin with the following: `amazon, aws, amzn, ssm, /amazon, /aws, /amzn, /ssm`.

You can choose to make the data searchable by other users in the account or you can restrict search access. Searchable data means that all users with access to the OpsItem Overview page (as provided by the DescribeOpsItems (p. 207) API action) can view and search on the specified data. Operational data that is not searchable is only viewable by users who have access to the OpsItem (as provided by the GetOpsItem (p. 301) API action).

Use the `/aws/resources` key in OperationalData to specify a related resource in the request. Use the `/aws/automations` key in OperationalData to associate an Automation runbook with the
OpsItem. To view AWS CLI example commands that use these keys, see Creating OpsItems manually in the AWS Systems Manager User Guide.

Type: String to OpsItemDataValue (p. 731) object map

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

Key Pattern: ^(?!\s*$).+

Required: No

**OpsItemType (p. 50)**

The type of OpsItem to create. Currently, the only valid values are /aws/changerequest and /aws/issue.

Type: String

Required: No

**PlannedEndTime (p. 50)**

The time specified in a change request for a runbook workflow to end. Currently supported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

**PlannedStartTime (p. 50)**

The time specified in a change request for a runbook workflow to start. Currently supported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

**Priority (p. 50)**

The importance of this OpsItem in relation to other OpsItems in the system.

Type: Integer


Required: No

**RelatedOpsItems (p. 50)**

One or more OpsItems that share something in common with the current OpsItems. For example, related OpsItems can include OpsItems with similar error messages, impacted resources, or statuses for the impacted resource.

Type: Array of RelatedOpsItem (p. 781) objects

Required: No

**Severity (p. 50)**

Specify a severity to assign to an OpsItem.

Type: String

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

```json
{
    "OpsItemId": "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.
OpsItemId (p. 53)

The ID of the OpsItem.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerException

An error occurred on the server side.

HTTP Status Code: 500

OpsItemAlreadyExistsException

The OpsItem already exists.

HTTP Status Code: 400

OpsItemInvalidParameterException

A specified parameter argument isn't valid. Verify the available arguments and try again.

HTTP Status Code: 400

OpsItemLimitExceededException

The request caused OpsItems to exceed one or more quotas. For information about OpsItem quotas, see What are the resource limits for OpsCenter?.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateOpsItem.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateOpsItem
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T161257Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 80

{
  "Description":"Example Ops Item",
  "Source":"SSM",
  "Title":"DocumentDeleted"
}
```
Sample Response

```json
{
  "OpsItemId":"oi-1f050EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateOpsMetadata

If you create a new application in Application Manager, Systems Manager calls this API action to specify information about the new application, including the application type.

Request Syntax

```json
{
   "Metadata": {
      "string": {
         "Value": "string"
      }
   },
   "ResourceId": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Metadata (p. 56)**

Metadata for a new Application Manager application.

Type: String to MetadataValue (p. 719) object map

Map Entries: Maximum number of 5 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: ^(?![\s$]).+

Required: No

**ResourceId (p. 56)**

A resource ID for a new Application Manager application.

Type: String


Pattern: ^(?![\s$]).+

Required: Yes

**Tags (p. 56)**

Optional metadata that you assign to a resource. You can specify a maximum of five tags for an OpsMetadata object. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag an OpsMetadata object to identify an environment or target AWS Region. In this case, you could specify the following key-value pairs:
AWS Systems Manager API Reference
Response Syntax

- Key=Environment,Value=Production
- Key=Region,Value=us-east-2

Type: Array of Tag (p. 816) objects
Array Members: Maximum number of 1000 items.
Required: No

Response Syntax

```json
{
   "OpsMetadataArn": "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.

**OpsMetadataArn (p. 57)**

The Amazon Resource Name (ARN) of the OpsMetadata Object or blob created by the call.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 1011.
Pattern: arn:(aws[\w\-]*):ssm:[\w\-\.]{0,63}:opsmetadata\/[\w\-\.\/]*/

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**OpsMetadataAlreadyExistsException**

An OpsMetadata object already exists for the selected resource.

HTTP Status Code: 400

**OpsMetadataInvalidArgumentException**

One of the arguments passed is invalid.

HTTP Status Code: 400

**OpsMetadataLimitExceededException**

Your account reached the maximum number of OpsMetadata objects allowed by Application Manager. The maximum is 200 OpsMetadata objects. Delete one or more OpsMetadata object and try again.
HTTP Status Code: 400

OpsMetadataTooManyUpdatesException

The system is processing too many concurrent updates. Wait a few moments and try again.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreatePatchBaseline

Creates a patch baseline.

**Note**
For information about valid key and value pairs in `PatchFilters` for each supported operating system type, see `PatchFilter`.

**Request Syntax**

```json
{
    "ApprovalRules": {
        "PatchRules": [
            {
                "ApproveAfterDays": number,
                "ApproveUntilDate": "string",
                "ComplianceLevel": "string",
                "EnableNonSecurity": boolean,
                "PatchFilterGroup": {
                    "PatchFilters": [
                        {
                            "Key": "string",
                            "Values": [ "string" ]
                        }
                    ]
                }
            }
        ],
        "ApprovedPatches": [ "string" ],
        "ApprovedPatchesComplianceLevel": "string",
        "ApprovedPatchesEnableNonSecurity": boolean,
        "ClientToken": "string",
        "Description": "string",
        "GlobalFilters": {
            "PatchFilters": [
                {
                    "Key": "string",
                    "Values": [ "string" ]
                }
            ]
        },
        "Name": "string",
        "OperatingSystem": "string",
        "RejectedPatches": [ "string" ],
        "RejectedPatchesAction": "string",
        "Sources": [
            {
                "Configuration": "string",
                "Name": "string",
                "Products": [ "string" ]
            }
        ],
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ApprovalRules (p. 59)**
A set of rules used to include patches in the baseline.

Type: `PatchRuleGroup (p. 775)` object

Required: No

**ApprovedPatches (p. 59)**
A list of explicitly approved patches for the baseline.

For information about accepted formats for lists of approved patches and rejected patches, see About package name formats for approved and rejected patch lists in the AWS Systems Manager User Guide.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

**ApprovedPatchesComplianceLevel (p. 59)**
Defines the compliance level for approved patches. When an approved patch is reported as missing, this value describes the severity of the compliance violation. The default value is UNSPECIFIED.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

**ApprovedPatchesEnableNonSecurity (p. 59)**
Indicates whether the list of approved patches includes non-security updates that should be applied to the instances. The default value is 'false'. Applies to Linux instances only.

Type: Boolean

Required: No

**ClientToken (p. 59)**
User-provided idempotency token.

Type: String

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

Required: No

**Description (p. 59)**
A description of the patch baseline.
Type: String
Required: No

**GlobalFilters (p. 59)**
A set of global filters used to include patches in the baseline.
Type: `PatchFilterGroup (p. 770)` object
Required: No

**Name (p. 59)**
The name of the patch baseline.
Type: String
Pattern: `^[a-zA-Z0-9_\-\.]{3,128}$`
Required: Yes

**OperatingSystem (p. 59)**
Defines the operating system the patch baseline applies to. The Default value is `WINDOWS`.
Type: String
Valid Values: `WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS`
Required: No

**RejectedPatches (p. 59)**
A list of explicitly rejected patches for the baseline.
For information about accepted formats for lists of approved patches and rejected patches, see `About package name formats for approved and rejected patch lists` in the `AWS Systems Manager User Guide`.
Type: Array of strings
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

**RejectedPatchesAction (p. 59)**
The action for Patch Manager to take on patches included in the RejectedPackages list.
- **ALLOW_AS_DEPENDENCY**: A package in the Rejected patches list is installed only if it is a dependency of another package. It is considered compliant with the patch baseline, and its status is reported as `InstalledOther`. This is the default action if no option is specified.
- **BLOCK**: Packages in the RejectedPatches list, and packages that include them as dependencies, are not installed under any circumstances. If a package was installed before it was added to the Rejected patches list, it is considered non-compliant with the patch baseline, and its status is reported as `InstalledRejected`.

Type: String
Valid Values: ALLOW_AS_DEPENDENCY | BLOCK
Required: No

Sources (p. 59)
Information about the patches to use to update the instances, including target operating systems and source repositories. Applies to Linux instances only.
Type: Array of PatchSource (p. 776) objects
Array Members: Minimum number of 0 items. Maximum number of 20 items.
Required: No

Tags (p. 59)
Optional metadata that you assign to a resource. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag a patch baseline to identify the severity level of patches it specifies and the operating system family it applies to. In this case, you could specify the following key name/value pairs:
- Key=PatchSeverity,Value=Critical
- Key=OS,Value=Windows

Note
To add tags to an existing patch baseline, use the AddTagsToResource (p. 6) action.
Type: Array of Tag (p. 816) objects
Array Members: Maximum number of 1000 items.
Required: No

Response Syntax

```json
{
  "BaselineId": "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.

BaselineId (p. 62)
The ID of the created patch baseline.
Type: String
Pattern: ^[a-zA-Z0-9_.\-\/]\{20,128\}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).
IdempotentParameterMismatch

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource quotas. For example, too many maintenance windows or patch baselines have been created.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreatePatchBaseline.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 461
X-Amz-Target: AmazonSSM.CreatePatchBaseline
X-Amz-Date: 20180309T022356Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200309/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
{
    "Description": "Baseline containing all updates approved for production systems",
    "ApprovalRules": {
        "PatchRules": [
            {
                "PatchFilterGroup": {
                    "PatchFilters": [
                        {
                            "Values": [
                                "Critical",
                                "Important",
                                "Moderate"
                            ],
                            "Key": "MSRC_SEVERITY"
                        },
                        {
                            "Values": [
                                "SecurityUpdates",
                                "Updates"
                            ]
                        }
                    ]
                }
            }
        ]
    }
}
```
{
    "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

### 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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateResourceDataSync

A resource data sync helps you view data from multiple sources in a single location. Systems Manager offers two types of resource data sync: SyncToDestination and SyncFromSource.

You can configure Systems Manager Inventory to use the SyncToDestination type to synchronize Inventory data from multiple AWS Regions to a single S3 bucket. For more information, see Configuring Resource Data Sync for Inventory in the AWS Systems Manager User Guide.

You can configure Systems Manager Explorer to use the SyncFromSource type to synchronize operational work items (OpsItems) and operational data (OpsData) from multiple AWS Regions to a single S3 bucket. This type can synchronize OpsItems and OpsData from multiple AWS accounts and Regions or EntireOrganization by using AWS Organizations. For more information, see Setting up Systems Manager Explorer to display data from multiple accounts and Regions in the AWS Systems Manager User Guide.

A resource data sync is an asynchronous operation that returns immediately. After a successful initial sync is completed, the system continuously syncs data. To check the status of a sync, use the ListResourceDataSync (p. 400).

Note
By default, data is not encrypted in Amazon S3. We strongly recommend that you enable encryption in Amazon S3 to ensure secure data storage. We also recommend that you secure access to the Amazon S3 bucket by creating a restrictive bucket policy.

Request Syntax

```json
{
  "S3Destination": {
    "AWSKMSKeyARN": "string",
    "BucketName": "string",
    "DestinationDataSharing": {
      "DestinationDataSharingType": "string"
    },
    "Prefix": "string",
    "Region": "string",
    "SyncFormat": "string"
  },
  "SyncName": "string",
  "SyncSource": {
    "AwsOrganizationsSource": {
      "OrganizationalUnits": [
        {
          "OrganizationalUnitId": "string"
        }
      ],
      "OrganizationSourceType": "string"
    },
    "EnableAllOpsDataSources": boolean,
    "IncludeFutureRegions": boolean,
    "SourceRegions": [ "string" ],
    "SourceType": "string"
  },
  "SyncType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).
The request accepts the following data in JSON format.

**S3Destination (p. 65)**
Amazon S3 configuration details for the sync. This parameter is required if the `SyncType` value is `SyncToDestination).

Type: `ResourceDataSyncS3Destination (p. 790)` object

Required: No

**SyncName (p. 65)**
A name for the configuration.

Type: String

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

Required: Yes

**SyncSource (p. 65)**
Specify information about the data sources to synchronize. This parameter is required if the `SyncType` value is `SyncFromSource`.

Type: `ResourceDataSyncSource (p. 792)` object

Required: No

**SyncType (p. 65)**
Specify `SyncToDestination` to create a resource data sync that synchronizes data to an S3 bucket for Inventory. If you specify `SyncToDestination`, you must provide a value for `S3Destination`. Specify `SyncFromSource` to synchronize data from a single account and multiple Regions, or multiple AWS accounts and Regions, as listed in AWS Organizations for Explorer. If you specify `SyncFromSource`, you must provide a value for `SyncSource`. The default value is `SyncToDestination`.

Type: String

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

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. 823).

**InternalServerException**
An error occurred on the server side.

HTTP Status Code: 500

**ResourceDataSyncAlreadyExistsException**
A sync configuration with the same name already exists.
HTTP Status Code: 400

ResourceDataSyncCountExceededException

You have exceeded the allowed maximum sync configurations.

HTTP Status Code: 400

ResourceDataSyncInvalidConfigurationException

The specified sync configuration is invalid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateResourceDataSync.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.CreateResourceDataSync
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200327T173437Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200327/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 186

{
  "SyncName":"Example",
  "S3Destination":{
    "BucketName":"exampleBucket",
    "Prefix":"exampleSubDirectory",
    "SyncFormat":"JsonSerDe",
    "Region":"us-east-2"
  },
  "SyncType":"SyncToDestination"
}
```

Sample Response

```plaintext
{}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DeleteActivation

Deletes an activation. You are not required to delete an activation. If you delete an activation, you can no longer use it to register additional managed instances. Deleting an activation does not de-register managed instances. You must manually de-register managed instances.

Request Syntax

```
{
  "ActivationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ActivationId (p. 69)**

The ID of the activation that you want to delete.

Type: String

Pattern: `^[0-9a-f]{8} \-[0-9a-f]{4} \-[0-9a-f]{4} \-[0-9a-f]{4} \-[0-9a-f]{12}$`

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. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidActivation**

The activation is not valid. The activation might have been deleted, or the ActivationId and the ActivationCode do not match.

HTTP Status Code: 400

**InvalidActivationId**

The activation ID is not valid. Verify the you entered the correct ActivationId or ActivationCode and try again.

HTTP Status Code: 400
TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeleteActivation.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeleteActivation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T151218Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 56
{
    "ActivationId":"e488f2f6-e686-4afb-8a04-ef6dfEXAMPLE"
}
```

Sample Response

```
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteAssociation

Disassociates the specified Systems Manager document from the specified instance.

When you disassociate a document from an instance, it does not change the configuration of the instance. To change the configuration state of an instance after you disassociate a document, you must create a new document with the desired configuration and associate it with the instance.

Request Syntax

```json
{
   "AssociationId": "string",
   "InstanceId": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

AssociationId (p. 71)

The association ID that you want to delete.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

InstanceId (p. 71)

The ID of the instance.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: No

Name (p. 71)

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_\-.:]{3,128}$

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. 823).

**AssociationDoesNotExist**

The specified association does not exist.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidInstanceId**

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

**TooManyUpdates**

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of DeleteAssociation.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeleteAssociation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T150348Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteDocument

Deletes the Systems Manager document and all instance associations to the document.

Before you delete the document, we recommend that you use DeleteAssociation (p. 71) to disassociate all instances that are associated with the document.

Request Syntax

```json
{
    "DocumentVersion": "string",
    "Force": boolean,
    "Name": "string",
    "VersionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentVersion (p. 74)**

The version of the document that you want to delete. If not provided, all versions of the document are deleted.

Type: String

Pattern: ([$]LATEST|[$]DEFAULT|^\[1-9]\[0-9]*$)

Required: No

**Force (p. 74)**

Some SSM document types require that you specify a Force flag before you can delete the document. For example, you must specify a Force flag to delete a document of type ApplicationConfigurationSchema. You can restrict access to the Force flag in an AWS Identity and Access Management (IAM) policy.

Type: Boolean

Required: No

**Name (p. 74)**

The name of the document.

Type: String

Pattern: ^[a-zA-Z0-9-\_\.]\(3,128\)$

Required: Yes

**VersionName (p. 74)**

The version name of the document that you want to delete. If not provided, all versions of the document are deleted.
Type: String

Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$

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](https://docs.aws.amazon.com/systemsmanager/latest/api/errors.html) (p. 823).

**AssociatedInstances**

You must disassociate a document from all instances before you can delete it.

HTTP Status Code: 400

**InternalError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentOperation**

You attempted to delete a document while it is still shared. You must stop sharing the document before you can delete it.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of DeleteDocument.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeleteDocument
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T151532Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 19
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteInventory

Delete a custom inventory type or the data associated with a custom Inventory type. Deleting a custom inventory type is also referred to as deleting a custom inventory schema.

Request Syntax

```
{
   "ClientToken": "string",
   "DryRun": boolean,
   "SchemaDeleteOption": "string",
   "TypeName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ClientToken (p. 77)**

User-provided idempotency token.

Type: String

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

Required: No

**DryRun (p. 77)**

Use this option to view a summary of the deletion request without deleting any data or the data type. This option is useful when you only want to understand what will be deleted. Once you validate that the data to be deleted is what you intend to delete, you can run the same command without specifying the DryRun option.

Type: Boolean

Required: No

**SchemaDeleteOption (p. 77)**

Use the SchemaDeleteOption to delete a custom inventory type (schema). If you don't choose this option, the system only deletes existing inventory data associated with the custom inventory type. Choose one of the following options:

- **DisableSchema**: If you choose this option, the system ignores all inventory data for the specified version, and any earlier versions. To enable this schema again, you must call the PutInventory action for a version greater than the disabled version.

- **DeleteSchema**: This option deletes the specified custom type from the Inventory service. You can recreate the schema later, if you want.

Type: String

Valid Values: DisableSchema | DeleteSchema
Required: No

**TypeName (p. 77)**

The name of the custom inventory type for which you want to delete either all previously collected data or the inventory type itself.

Type: String

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

Pattern: ^(AWS|Custom)\.:.*$

Required: Yes

**Response Syntax**

```
{
  "DeletionId": "string",
  "DeletionSummary": {
    "RemainingCount": number,
    "SummaryItems": [
      {
        "Count": number,
        "RemainingCount": number,
        "Version": "string"
      }
    ],
    "TotalCount": number
  },
  "TypeName": "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.

**DeletionId (p. 78)**

Every `DeleteInventory` action is assigned a unique ID. This option returns a unique ID. You can use this ID to query the status of a delete operation. This option is useful for ensuring that a delete operation has completed before you begin other actions.

Type: String

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

**DeletionSummary (p. 78)**

A summary of the delete operation. For more information about this summary, see Deleting custom inventory in the AWS Systems Manager User Guide.

Type: `InventoryDeletionSummary (p. 680)` object

**TypeName (p. 78)**

The name of the inventory data type specified in the request.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerException**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDeleteInventoryParametersException**

One or more of the parameters specified for the delete operation is not valid. Verify all parameters and try again.

HTTP Status Code: 400

**InvalidInventoryRequestException**

The request is not valid.

HTTP Status Code: 400

**InvalidOptionException**

The delete inventory option specified is not valid. Verify the option and try again.

HTTP Status Code: 400

**InvalidTypeNameException**

The parameter type name is not valid.

HTTP Status Code: 400

See Also

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

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

Deletes a maintenance window.

**Request Syntax**

```json
{
    "WindowId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters (p. 821)](#).

The request accepts the following data in JSON format.

**WindowId (p. 80)**

The ID of the maintenance window to delete.

- Type: String
- Pattern: ^mw-[0-9a-f]{17}$
- Required: Yes

**Response Syntax**

```json
{
    "WindowId": "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.

**WindowId (p. 80)**

The ID of the deleted maintenance window.

- Type: String
- Pattern: ^mw-[0-9a-f]{17}$

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 823)](#).
InternalServerError
An error occurred on the server side.
HTTP Status Code: 500

Examples

Example
This example illustrates one usage of DeleteMaintenanceWindow.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 36
X-Amz-Target: AmazonSSM.DeleteMaintenanceWindow
X-Amz-Date: 20180312T210257Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180312/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "WindowId": "mw-0c50858d01EXAMPLE"
}

Sample Response

{
  "WindowId": "mw-0c50858d01EXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteOpsMetadata

Delete OpsMetadata related to an application.

Request Syntax

```json
{
   "OpsMetadataArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**OpsMetadataArn (p. 82)**

The Amazon Resource Name (ARN) of an OpsMetadata Object to delete.

Type: String

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

Pattern: arn:(aws[\-a-zA-Z]*)?:ssm:\[a-z0-9-.]*{0,63}:[a-z0-9-.]{0,63}:opsmetadata\/([a-zA-Z0-9-_\.\//]*)

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. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**OpsMetadataInvalidArgumentException**

One of the arguments passed is invalid.

HTTP Status Code: 400

**OpsMetadataNotFoundException**

The OpsMetadata object does not exist.

HTTP Status Code: 400

API Version 2014-11-06
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteParameter

Delete a parameter from the system.

Request Syntax

```json
{
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Name (p. 84)

The name of the parameter to delete.

Type: String

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

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. 823).

InternalServer_error

An error occurred on the server side.

HTTP Status Code: 500

ParameterNot_found

The parameter could not be found. Verify the name and try again.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeleteParameter.
Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 28
X-Amz-Target: AmazonSSM.DeleteParameter
X-Amz-Date: 20180316T010702Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
   "Name": "EC2DevServerType"
}
```

Sample Response

```
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteParameters

Delete a list of parameters.

Request Syntax

```json
{
    "Names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Names (p. 86)

The names of the parameters to delete.

Type: Array of strings

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

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

Required: Yes

Response Syntax

```json
{
    "DeletedParameters": [ "string" ],
    "InvalidParameters": [ "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.

DeletedParameters (p. 86)

The names of the deleted parameters.

Type: Array of strings

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

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

InvalidParameters (p. 86)

The names of parameters that weren't deleted because the parameters are not valid.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DeleteParameters.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 53
X-Amz-Target: AmazonSSM.DeleteParameters
X-Amz-Date: 20180316T010844Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
   "Names": [
      "EC2TestServerType",
      "EC2ProdServerType"
   ]
}
```

Sample Response

```
{
   "DeletedParameters": [
      "EC2ProdServerType",
      "EC2TestServerType"
   ],
   "InvalidParameters": []
}
```

See Also

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

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

Deletes a patch baseline.

Request Syntax

```
{
  "BaselineId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**BaselineId (p. 89)**

The ID of the patch baseline to delete.

Type: String


Pattern: ^[a-zA-Z0-9_-:/]{20,128}$

Required: Yes

Response Syntax

```
{
  "BaselineId": "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.

**BaselineId (p. 89)**

The ID of the deleted patch baseline.

Type: String


Pattern: ^[a-zA-Z0-9_-:/]{20,128}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).
InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ResourceInUseException

Error returned if an attempt is made to delete a patch baseline that is registered for a patch group.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeletePatchBaseline.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 38
X-Amz-Target: AmazonSSM.DeletePatchBaseline
X-Amz-Date: 20180309T062407Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

Sample Response

```plaintext
{
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
See Also

- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteResourceDataSync

Deletes a Resource Data Sync configuration. After the configuration is deleted, changes to data on managed instances are no longer synced to or from the target. Deleting a sync configuration does not delete data.

Request Syntax

```json
{
   "SyncName": "string",
   "SyncType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

SyncName (p. 92)

The name of the configuration to delete.

- Type: String
- Length Constraints: Minimum length of 1. Maximum length of 64.
- Required: Yes

SyncType (p. 92)

Specify the type of resource data sync to delete.

- Type: String
- Length Constraints: Minimum length of 1. Maximum length of 64.
- 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. 823).

InternalServerError

An error occurred on the server side.

- HTTP Status Code: 500

ResourceDataSyncInvalidConfigurationException

The specified sync configuration is invalid.
HTTP Status Code: 400

**ResourceDataSyncNotFoundException**

The specified sync name was not found.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of DeleteResourceDataSync.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeleteResourceDataSync
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T144518Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200330/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 28

{
  "SyncName": "exampleSync"
}
```

**Sample Response**

```
{}
```

**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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeregisterManagedInstance

Removes the server or virtual machine from the list of registered servers. You can reregister the instance again at any time. If you don't plan to use Run Command on the server, we suggest uninstalling SSM Agent first.

Request Syntax

```json
{
  "InstanceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

InstanceId (p. 94)

The ID assigned to the managed instance when you registered it using the activation process.

Type: String

Pattern: `^mi-[0-9a-f]{17}$`

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. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.
Examples

Example

This example illustrates one usage of DeregisterManagedInstance.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeregisterManagedInstance
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200220T234004Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200220/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 37

{
  "InstanceId": "mi-017431b35cEXAMPLE"
}
```

Sample Response

```
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeregisterPatchBaselineForPatchGroup

Removes a patch group from a patch baseline.

Request Syntax

```json
{
    "BaselineId": "string",
    "PatchGroup": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**BaselineId (p. 96)**

The ID of the patch baseline to deregister the patch group from.

Type: String


Pattern: `^[a-zA-Z0-9-\_/:\-]{20,128}$`

Required: Yes

**PatchGroup (p. 96)**

The name of the patch group that should be deregistered from the patch baseline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^\([\p{L}\p{Z}\p{N}_.:/=+\-@]*)\$`

Required: Yes

Response Syntax

```json
{
    "BaselineId": "string",
    "PatchGroup": "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.
BaselineId (p. 96)

The ID of the patch baseline the patch group was deregistered from.

Type: String
Pattern: ^[a-zA-Z0-9-\-_/:\]{20,128}$

PatchGroup (p. 96)

The name of the patch group deregistered from the patch baseline.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Pattern: ^([\p{L}\p{Z}\p{N}_\p{P}\p{N}_./:\=+/\-@])*$
Sample Response

```json
{
  "PatchGroup": "mypatchgroup",
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

**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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeregisterTargetFromMaintenanceWindow

Removes a target from a maintenance window.

**Request Syntax**

```
{
    "Safe": boolean,
    "WindowId": "string",
    "WindowTargetId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](p. 821).

The request accepts the following data in JSON format.

**Safe (p. 99)**

The system checks if the target is being referenced by a task. If the target is being referenced, the system returns an error and does not deregister the target from the maintenance window.

Type: Boolean

Required: No

**WindowId (p. 99)**

The ID of the maintenance window the target should be removed from.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

**WindowTargetId (p. 99)**

The ID of the target definition to remove.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-zA-F]{8}-[0-9a-zA-F]{4}-[0-9a-zA-F]{4}-[0-9a-zA-F]{4}-[0-9a-zA-F]{12}$

Required: Yes

**Response Syntax**

```
{
    "WindowId": "string",
    "WindowTargetId": "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.

**WindowId (p. 99)**

The ID of the maintenance window the target was removed from.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

**WindowTargetId (p. 99)**

The ID of the removed target definition.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**TargetInUseException**

You specified the Safe option for the DeregisterTargetFromMaintenanceWindow operation, but the target is still referenced in a task.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of DeregisterTargetFromMaintenanceWindow.
Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeregisterTargetFromMaintenanceWindow
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T182719Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 94

{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
}
```

Sample Response

```
{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeregisterTaskFromMaintenanceWindow

Removes a task from a maintenance window.

Request Syntax

```json
{
  "WindowId": "string",
  "WindowTaskId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**WindowId (p. 102)**

The ID of the maintenance window the task should be removed from.

Type: String


Pattern: `^mw-[0-9a-f]{17}$`

Required: Yes

**WindowTaskId (p. 102)**

The ID of the task to remove from the maintenance window.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`

Required: Yes

Response Syntax

```json
{
  "WindowId": "string",
  "WindowTaskId": "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.
WindowId (p. 102)

The ID of the maintenance window the task was removed from.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

WindowTaskId (p. 102)

The ID of the task removed from the maintenance window.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DeregisterTaskFromMaintenanceWindow.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DeregisterTaskFromMaintenanceWindow
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T180133Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/ aws4_request,
                 SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
```
Content-Length: 92
{
   "WindowId": "mw-0c50858d01EXAMPLE",
   "WindowTaskId": "50772993-c6b5-4a2a-8d04-7bfd7EXAMPLE"
}

Sample Response
{
   "WindowId": "mw-0c50858d01EXAMPLE",
   "WindowTaskId": "50772993-c6b5-4a2a-8d04-7bfd7EXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeActivations

Describes details about the activation, such as the date and time the activation was created, its expiration date, the IAM role assigned to the instances in the activation, and the number of instances registered by using this activation.

Request Syntax

```json
{
   "Filters": [
      {
         "FilterKey": "string",
         "FilterValues": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 105)**

A filter to view information about your activations.

Type: Array of DescribeActivationsFilter (p. 634) objects

Required: No

**MaxResults (p. 105)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 105)**

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

Type: String

Required: No

Response Syntax

```json
{
}
```
"ActivationList": [  
  {  
    "ActivationId": "string",  
    "CreatedDate": number,  
    "DefaultInstanceName": "string",  
    "Description": "string",  
    "ExpirationDate": number,  
    "Expired": boolean,  
    "IamRole": "string",  
    "RegistrationLimit": number,  
    "RegistrationsCount": number,  
    "Tags": [  
      {  
        "Key": "string",  
        "Value": "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.

**ActivationList (p. 105)**

A list of activations for your AWS account.

Type: Array of Activation (p. 566) objects

**NextToken (p. 105)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilter**

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of DescribeActivations.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeActivations
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T152059Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```json
{
   "ActivationList": [
      {
         "ActivationId": "e9136c70-ba7b-4d7d-8e31-174a7EXAMPLE",
         "CreatedDate": 1581954699792E9,
         "Description": "Example",
         "ExpirationDate": 158431680E9,
         "Expired": true,
         "IamRole": "service-role/RoleForManagedInstances",
         "RegistrationLimit": 5,
         "RegistrationsCount": 1
      }
   ]
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeAssociation

Describes the association for the specified target or instance. If you created the association by using the Targets parameter, then you must retrieve the association by using the association ID. If you created the association by specifying an instance ID and a Systems Manager document, then you retrieve the association by specifying the document name and the instance ID.

Request Syntax

```json
{
  "AssociationId": "string",
  "AssociationVersion": "string",
  "InstanceId": "string",
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationId (p. 108)**

The association ID for which you want information.

Type: String

Pattern: \[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}\]

Required: No

**AssociationVersion (p. 108)**

Specify the association version to retrieve. To view the latest version, either specify $LATEST for this parameter, or omit this parameter. To view a list of all associations for an instance, use ListAssociations (p. 344). To get a list of versions for a specific association, use ListAssociationVersions (p. 348).

Type: String

Pattern: ([\$]LATEST)|([1-9][0-9]*)

Required: No

**InstanceId (p. 108)**

The instance ID.

Type: String

Pattern: \(^\w\(8\)\|\w\{17\}\)$|(\^mi-\w\{17\}$)

Required: No

**Name (p. 108)**

The name of the Systems Manager document.
Type: String

Pattern: `^[a-zA-Z0-9_-\.:/]{3,128}$`

Required: No

**Response Syntax**

```json
{
    "AssociationDescription": {
        "ApplyOnlyAtCronInterval": boolean,
        "AssociationId": "string",
        "AssociationName": "string",
        "AssociationVersion": "string",
        "AutomationTargetParameterName": "string",
        "CalendarNames": [ "string" ],
        "ComplianceSeverity": "string",
        "Date": number,
        "DocumentVersion": "string",
        "InstanceId": "string",
        "LastExecutionDate": number,
        "LastSuccessfulExecutionDate": number,
        "LastUpdateAssociationDate": number,
        "MaxConcurrency": "string",
        "MaxErrors": "string",
        "Name": "string",
        "OutputLocation": {
            "S3Location": {
                "OutputS3BucketName": "string",
                "OutputS3KeyPrefix": "string",
                "OutputS3Region": "string"
            }
        },
        "Overview": {
            "AssociationStatusAggregatedCount": {
                "string" : number
            },
            "DetailedStatus": "string",
            "Status": "string"
        },
        "Parameters": {
            "string" : [ "string" ]
        },
        "ScheduleExpression": "string",
        "Status": {
            "AdditionalInfo": "string",
            "Date": number,
            "Message": "string",
            "Name": "string"
        },
        "SyncCompliance": "string",
        "TargetLocations": [
            {
                "Accounts": [ "string" ],
                "ExecutionRoleName": "string",
                "Regions": [ "string" ],
                "TargetLocationMaxConcurrency": "string",
                "TargetLocationMaxErrors": "string"
            }
        ],
        "Targets": [
            {
                "Key": "string",
```
"Values": [ "string" ]

}\n  ]
}\n}

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.

AssociationDescription (p. 109)

Information about the association.

Type: AssociationDescription (p. 570) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidAssociationVersion

The version you specified is not valid. Use ListAssociationVersions to view all versions of an association according to the association ID. Or, use the $LATEST parameter to view the latest version of the association.

HTTP Status Code: 400

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of DescribeAssociation.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeAssociation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T153423Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 57

{
  "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE"
}
```

Sample Response

```plaintext
{
  "AssociationDescription": {
    "ApplyOnlyAtCronInterval": false,
    "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE",
    "AssociationVersion": "1",
    "ComplianceSeverity": "UNSPECIFIED",
    "Date": 1.561053271583E9,
    "DocumentVersion": "$DEFAULT",
    "LastExecutionDate": 1.582037438692E9,
    "LastSuccessfulExecutionDate": 1.582037438692E9,
    "LastUpdateAssociationDate": 1.561053271583E9,
    "Name": "AWS-UpdateSSMAgent",
    "Overview": {
      "AssociationStatusAggregatedCount": {
        "Success": 3
      },
      "DetailedStatus": "Success",
      "Status": "Success"
    },
    "Parameters": {
      "allowDowngrade": [
        "false"
      ],
      "version": [
        ""
      ]
    },
    "Targets": [
      {
        "Key": "tag:ssm",
        "Values": [
          "true"
        ]
      }
    ]
  }
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeAssociationExecutions

Use this API action to view all executions for a specific association ID.

Request Syntax

```json
{
   "AssociationId": "string",
   "Filters": [
      {
         "Key": "string",
         "Type": "string",
         "Value": "string"
      }
   ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationId (p. 113)**

The association ID for which you want to view execution history details.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: Yes

**Filters (p. 113)**

Filters for the request. You can specify the following filters and values.

ExecutionId (EQUAL)

Status (EQUAL)

CreatedTime (EQUAL, GREATER_THAN, LESS_THAN)

Type: Array of AssociationExecutionFilter (p. 577) objects

Array Members: Minimum number of 1 item.

Required: No

**MaxResults (p. 113)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer

Required: No

**NextToken (p. 113)**

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

Type: String

Required: No

## Response Syntax

```
{
  "AssociationExecutions": [
    {
      "AssociationId": "string",
      "AssociationVersion": "string",
      "CreatedTime": number,
      "DetailedStatus": "string",
      "ExecutionId": "string",
      "LastExecutionDate": number,
      "ResourceCountByStatus": "string",
      "Status": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### AssociationExecutions (p. 114)

A list of the executions for the specified association ID.

Type: Array of AssociationExecution (p. 575) objects

### NextToken (p. 114)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

### AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

### InternalServerError

An error occurred on the server side.
HTTP Status Code: 500

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAssociationExecutions.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeAssociationExecutions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T154610Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 57

{
  "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE"
}
```

Sample Response

```plaintext
{
  "AssociationExecutions":[
    {
      "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
      "AssociationVersion":"1",
      "CreatedTime":1.561053271718E9,
      "DetailedStatus":"Success",
      "ExecutionId":"d6d51ef5-4eca-48ef-9d7d-bd6ceEXAMPLE",
      "ResourceCountByStatus": "{Success=3}",
      "Status":"Success"
    }
  ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeAssociationExecutionTargets

Use this API action to view information about a specific execution of a specific association.

Request Syntax

```json
{
    "AssociationId": "string",
    "ExecutionId": "string",
    "Filters": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationId (p. 117)**

The association ID that includes the execution for which you want to view details.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: Yes

**ExecutionId (p. 117)**

The execution ID for which you want to view details.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: Yes

**Filters (p. 117)**

Filters for the request. You can specify the following filters and values.

Status (EQUAL)

ResourceId (EQUAL)

ResourceType (EQUAL)

Type: Array of AssociationExecutionTargetsFilter (p. 580) objects
Array Members: Minimum number of 1 item.

Required: No

MaxResults (p. 117)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer
Required: No

NextToken (p. 117)

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

Type: String
Required: No

Response Syntax

```
{
    "AssociationExecutionTargets": [
        {
            "AssociationId": "string",
            "AssociationVersion": "string",
            "DetailedStatus": "string",
            "ExecutionId": "string",
            "LastExecutionDate": number,
            "OutputSource": {
                "OutputSourceId": "string",
                "OutputSourceType": "string"
            },
            "ResourceId": "string",
            "ResourceType": "string",
            "Status": "string"
        }
    ]
    "NextToken": "string"
}
```

Response Elements

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

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

AssociationExecutionTargets (p. 118)

Information about the execution.

Type: Array of AssociationExecutionTarget (p. 578) objects

NextToken (p. 118)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**AssociationDoesNotExist**

The specified association does not exist.

HTTP Status Code: 400

**AssociationExecutionDoesNotExist**

The specified execution ID does not exist. Verify the ID number and try again.

HTTP Status Code: 400

**InternalError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAssociationExecutionTargets.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeAssociationExecutionTargets
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T165104Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 112

{
  "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
  "ExecutionId":"d6d51ef5-4eca-48ef-9d7d-bd6ceEXAMPLE"
}
```

**Sample Response**

```
{
  "AssociationExecutionTargets":[
    {
      "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
      "AssociationVersion":"1",
      "AssociationExecutionId":null
    }
  ]
}
```
"DetailedStatus":"Success",
"ExecutionId":"d6d51ef5-4eca-48ef-9d7d-bd6ceEXAMPLE",
"LastExecutionDate":1.582037438692E9,
"OutputSource":{
    "OutputSourceId":"1cdbb1e6-2e69-40b1-ac1d-121dcEXAMPLE",
    "OutputSourceType":"RunCommand"
},
"ResourceId":"i-02573cafcfEXAMPLE",
"ResourceType":"ManagedInstance",
"Status":"Success"
},
{
"AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
"AssociationVersion":1,
"DetailedStatus":"Success",
"ExecutionId":"d6d51ef5-4eca-48ef-9d7d-bd6ceEXAMPLE",
"LastExecutionDate":1.581948052198E9,
"OutputSource":{
    "OutputSourceId":"b170ae99-4959-479b-ab4d-f6ae0EXAMPLE",
    "OutputSourceType":"RunCommand"
},
"ResourceId":"i-0471e04240EXAMPLE",
"ResourceType":"ManagedInstance",
"Status":"Success"
},
{
"AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
"AssociationVersion":1,
"DetailedStatus":"Success",
"ExecutionId":"d6d51ef5-4eca-48ef-9d7d-bd6ceEXAMPLE",
"LastExecutionDate":1.561053316711E9,
"OutputSource":{
    "OutputSourceId":"89cd739c-d1a5-4dc9-af4f-8b624EXAMPLE",
    "OutputSourceType":"RunCommand"
},
"ResourceId":"i-07782c72faEXAMPLE",
"ResourceType":"ManagedInstance",
"Status":"Success"
]}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeAutomationExecutions

Provides details about all active and terminated Automation executions.

Request Syntax

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    },
    "MaxResults": number,
    "NextToken": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 121)**

Filters used to limit the scope of executions that are requested.

Type: Array of AutomationExecutionFilter (p. 599) objects

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

Required: No

**MaxResults (p. 121)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 121)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
  "AutomationExecutionMetadataList": [
    {

```
"AssociationId": "string",
"AutomationExecutionId": "string",
"AutomationExecutionStatus": "string",
"AutomationSubtype": "string",
"AutomationType": "string",
"ChangeRequestName": "string",
"CurrentAction": "string",
"CurrentStepName": "string",
"DocumentName": "string",
"DocumentVersion": "string",
"ExecutedBy": "string",
"ExecutionEndTime": number,
"ExecutionStartTime": number,
"FailureMessage": "string",
"LogFile": "string",
"MaxConcurrency": "string",
"MaxErrors": "string",
"Mode": "string",
"OpsItemId": "string",
"Outputs": {
  "string": [ "string" ]
},
"ParentAutomationExecutionId": "string",
"ResolvedTargets": {
  "ParameterValues": [ "string" ],
  "Truncated": boolean
},
"Runbooks": [
  {
    "DocumentName": "string",
    "DocumentVersion": "string",
    "MaxConcurrency": "string",
    "MaxErrors": "string",
    "Parameters": {
      "string": [ "string" ]
    },
    "TargetLocations": [
      {
        "Accounts": [ "string" ],
        "ExecutionRoleName": "string",
        "Regions": [ "string" ],
        "TargetLocationMaxConcurrency": "string",
        "TargetLocationMaxErrors": "string"
      }
    ],
    "TargetParameterName": "string",
    "Targets": [
      {
        "Key": "string",
        "Values": [ "string" ]
      }
    ]
  }
],
"ScheduledTime": number,
"Target": "string",
"TargetMaps": [
  {
    "string": [ "string" ]
  }
],
"TargetParameterName": "string",
"Targets": [
  {
    "Key": "string",
    "Values": [ "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.

**AutomationExecutionMetadataList (p. 121)**

The list of details about each automation execution which has occurred which matches the filter specification, if any.

Type: Array of AutomationExecutionMetadata (p. 600) objects

**NextToken (p. 121)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400

**InvalidFilterValue**

The filter value is not valid. Verify the value and try again.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of DescribeAutomationExecutions.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeAutomationExecutions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T173011Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2

Sample Response

{
   "AutomationExecutionMetadataList": [
      {
         "AutomationExecutionId": "8a5f5be8-5d93-437a-adbb-394f7EXAMPLE",
         "AutomationExecutionStatus": "Success",
         "AutomationType": "Local",
         "DocumentName": "Example",
         "DocumentVersion": "1",
         "ExecutedBy": "arn:aws:sts::111122223333:assumed-role/Example",
         "ExecutionEndTime": 1.585062669053E9,
         "ExecutionStartTime": 1.585061570827E9,
         "LogFile": "",
         "Mode": "Auto",
         "Outputs": {
            "ResolvedTargets": {
               "ParameterValues": [],
               "Truncated": false
            },
            "Targets": []
         }
      }
   ]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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DescribeAutomationStepExecutions

Information about all active and terminated step executions in an Automation workflow.

Request Syntax

```json
{
    "AutomationExecutionId": "string",
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string",
    "ReverseOrder": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AutomationExecutionId (p. 126)**

The Automation execution ID for which you want step execution descriptions.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

**Filters (p. 126)**

One or more filters to limit the number of step executions returned by the request.

Type: Array of StepExecutionFilter (p. 815) objects

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Required: No

**MaxResults (p. 126)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 126)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String
Required: No

**ReverseOrder (p. 126)**

Indicates whether to list step executions in reverse order by start time. The default value is 'false'.

Type: Boolean

Required: No

### Response Syntax

```
{
    "NextToken": "string",
    "StepExecutions": [
        {
            "Action": "string",
            "ExecutionEndTime": number,
            "ExecutionStartTime": number,
            "FailureDetails": {
                "Details": {
                    "string": [ "string" ]
                },
                "FailureStage": "string",
                "FailureType": "string"
            },
            "FailureMessage": "string",
            "Inputs": {
                "string": "string"
            },
            "IsCritical": boolean,
            "IsEnd": boolean,
            "MaxAttempts": number,
            "NextStep": "string",
            "OnFailure": "string",
            "Outputs": {
                "string": [ "string" ]
            },
            "OverriddenParameters": {
                "string": [ "string" ]
            },
            "Response": "string",
            "ResponseCode": "string",
            "StepExecutionId": "string",
            "StepName": "string",
            "StepStatus": "string",
            "TargetLocation": {
                "Accounts": [ "string" ],
                "ExecutionRoleName": "string",
                "Regions": [ "string" ],
                "TargetLocationMaxConcurrency": "string",
                "TargetLocationMaxErrors": "string"
            },
            "Targets": [
                {
                    "Key": "string",
                    "Values": [ "string" ]
                }
            ],
            "TimeoutSeconds": number,
            "ValidNextSteps": [ "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. 127)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

StepExecutions (p. 127)

A list of details about the current state of all steps that make up an execution.

Type: Array of StepExecution (p. 811) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

AutomationExecutionNotFoundException

There is no automation execution information for the requested automation execution ID.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidFilterKey

The specified key is not valid.

HTTP Status Code: 400

InvalidFilterValue

The filter value is not valid. Verify the value and try again.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAutomationStepExecutions.
Sample Request

```bash
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeAutomationStepExecutions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T180909Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 65

{   "AutomationExecutionId":"8a5f5be8-5d93-437a-adbb-394f7EXAMPLE"
}
```

Sample Response

```json
{
   "StepExecutions": [   
      {
         "Action": "aws:createImage",
         "ExecutionEndTime": 1585062668968E9,
         "ExecutionStartTime": 1585061571144E9,
         "Inputs": {
            "ImageDescription": "AMI for i-02573cafcfEXAMPLE created on 2020-03-24_14.52.51",
            "ImageName": "i-02573cafcfEXAMPLE-2020-03-24_14.52.51",
            "InstanceId": "i-02573cafcfEXAMPLE",
            "NoReboot": "false"
         },
         "OnFailure": "Abort",
         "Outputs": {
            "ImageId": ["ami-0f4706cb37EXAMPLE"],
            "ImageState": ["available"],
            "OutputPayload": ["{"ImageId":"ami-0f4706cb37EXAMPLE","ImageState":"available"}"
         ],
         "OverriddenParameters": {
         },
         "StepExecutionId": "eff80946-356d-4128-97b2-6a0f5EXAMPLE",
         "StepName": "createImage",
         "StepStatus": "Success"
      }
   ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeAvailablePatches

Lists all patches eligible to be included in a patch baseline.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    },
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 131)**

Filters used to scope down the returned patches.

- **Type**: Array of PatchOrchestratorFilter (p. 772) objects
- **Array Members**: Minimum number of 0 items. Maximum number of 5 items.
- **Required**: No

**MaxResults (p. 131)**

The maximum number of patches to return (per page).

- **Type**: Integer
- **Valid Range**: Minimum value of 1. Maximum value of 100.
- **Required**: No

**NextToken (p. 131)**

The token for the next set of items to return. (You received this token from a previous call.)

- **Type**: String
- **Required**: No

**Response Syntax**

```json
{
  "NextToken": "string",
  "Patches": [
    {
      "AdvisoryIds": [ "string" ],
      "Arch": "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. 131)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Patches (p. 131)

An array of patches. Each entry in the array is a patch structure.

Type: Array of Patch (p. 760) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeAvailablePatches.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 17
X-Amz-Target: AmazonSSM.DescribeAvailablePatches
X-Amz-Date: 20180308T193543Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
"Filters": [
  
  {
    "Values": [
      "WindowsServer2016"
    ],
    "Key": "PRODUCT"
  },
  {
    "Values": [
      "SecurityUpdates"
    ],
    "Key": "CLASSIFICATION"
  },
  {
    "Values": [
      "Critical"
    ],
    "Key": "MSRC_SEVERITY"
  }
]
}

Sample Response

{
"Patches": [
  
  {
    "Classification": "SecurityUpdates",
    "ContentUrl": "https://support.microsoft.com/en-us/kb/4074588",
    "Description": "A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system."
    "Id": "11adea10-0701-430e-954f-9471595ae246",
    "KbNumber": "KB4074588",
    "Language": "All",
    "MsrsNumber": "",
    "MsrsSeverity": "Critical",
    "Product": "WindowsServer2016",
    "ProductFamily": "Windows",
    "ReleaseDate": 1518548400,
    "Title": "2018-02 Cumulative Update for Windows Server 2016 (1709) for x64-based Systems (KB4074588)",&
    "Vendor": "Microsoft"
  }
]
"Classification": "SecurityUpdates",
"ContentUrl": "https://support.microsoft.com/en-us/kb/4074590",
"Description": "A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.",
"Id": "f5f58231-ac5d-4640-ab1b-9dc8857c265",
"KbNumber": "KB4074590",
"Language": "All",
"MsrcNumber": "",
"MsrcSeverity": "Critical",
"Product": "WindowsServer2016",
"ProductFamily": "Windows",
"ReleaseDate": 1518544805,
"Title": "2018-02 Cumulative Update for Windows Server 2016 for x64-based Systems (KB4074590)",
"Vendor": "Microsoft"
},
{
"Classification": "SecurityUpdates",
"ContentUrl": "https://support.microsoft.com/en-us/kb/4074595",
"Description": "A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.",
"Id": "754b5889-2e01-40cc-8833-edf86b35541f",
"KbNumber": "KB4074595",
"Language": "All",
"MsrcNumber": "",
"MsrcSeverity": "Critical",
"Product": "WindowsServer2016",
"ProductFamily": "Windows",
"ReleaseDate": 1517965209,
"Title": "2018-02 Security Update for Adobe Flash Player for Windows Server 2016 for x64-based Systems (KB4074595)",
"Vendor": "Microsoft"
}
]

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeDocument

Describes the specified Systems Manager document.

Request Syntax

```
{
  "DocumentVersion": "string",
  "Name": "string",
  "VersionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentVersion (p. 135)**

The document version for which you want information. Can be a specific version or the default version.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^\[1-9][0-9]*$)

Required: No

**Name (p. 135)**

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_\-./]{3,128}$

Required: Yes

**VersionName (p. 135)**

An optional field specifying the version of the artifact associated with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String

Pattern: ^[a-zA-Z0-9_.\-]{1,128}$

Required: No

Response Syntax

```
{
}
```
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.
Document (p. 135)

Information about the Systems Manager document.

Type: DocumentDescription (p. 636) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidDocumentVersion

The document version is not valid or does not exist.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeDocument.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeDocument
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T182134Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 23

{
   "Name":"Example"
}
```

Sample Response

```
{
   "Document":{
      "CreatedDate":1.585061514204E9,
      "DefaultVersion":"1",
   }
}
```
"Description":"Example",
"DocumentFormat":"YAML",
"DocumentType":"Automation",
"DocumentVersion":"1",
"DisplayName":"ExampleDoc",
"Hash":"68b196e538f5a95f87a0cc15eb74614021f44b47329aa95ccc0f4f71EXAMPLE",
"HashType":"Sha256",
"LatestVersion":"1",
"Name":"Example",
"Owner":"111122223333",
"Parameters":[
  {
    "DefaultValue":"
    "Description":"(Required) The ARN of the role that allows Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses your IAM permissions to execute this document."
    "Name":"AutomationAssumeRole",
    "Type":"String"
  },
  {
    "DefaultValue":"
    "Description":"(Required) The Instance Id to create an image of."
    "Name":"InstanceId",
    "Type":"String"
  }
],
"PlatformTypes":[
  "Windows",
  "Linux"
],
"SchemaVersion":"0.3",
"Status":"Active",
"Tags":[]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeDocumentPermission

Describes the permissions for a Systems Manager document. If you created the document, you are the owner. If a document is shared, it can either be shared privately (by specifying a user’s AWS account ID) or publicly (All).

**Request Syntax**

```json
{
   "MaxResults": number,
   "Name": "string",
   "NextToken": "string",
   "PermissionType": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**MaxResults (p. 139)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**Name (p. 139)**

The name of the document for which you are the owner.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128}$

Required: Yes

**NextToken (p. 139)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**PermissionType (p. 139)**

The permission type for the document. The permission type can be `Share`.

Type: String

Valid Values: Share

Required: Yes
Response Syntax

```json
{
    "AccountIds": [ "string" ],
    "AccountSharingInfoList": [
        {
            "AccountId": "string",
            "SharedDocumentVersion": "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.

**AccountIds (p. 140)**

The account IDs that have permission to use this document. The ID can be either an AWS account or *All*.

Type: Array of strings

Array Members: Maximum number of 20 items.

Pattern: (?i)all|[0-9]{12}

**AccountSharingInfoList (p. 140)**

A list of AWS accounts where the current document is shared and the version shared with each account.

Type: Array of AccountSharingInfo (p. 565) objects

**NextToken (p. 140)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServer**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400
InvalidDocumentOperation

You attempted to delete a document while it is still shared. You must stop sharing the document before you can delete it.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

InvalidPermissionType

The permission type is not supported. Share is the only supported permission type.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeDocumentPermission.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeDocumentPermission
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T182653Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 50

{
    "Name":"Example",
    "PermissionType":"Share"
}
```

Sample Response

```plaintext
{
    "AccountIds":[
    ],
    "AccountSharingInfoList":[
    ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeEffectiveInstanceAssociations

All associations for the instance(s).

Request Syntax

```json
{
    "InstanceId": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**InstanceId (p. 143)**

The instance ID for which you want to view all associations.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi\w{17}$)

Required: Yes

**MaxResults (p. 143)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 143)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
    "Associations": [
        {
            "AssociationId": "string",
            "AssociationVersion": "string",
            "Content": "string",
            "InstanceId": "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.

Associations (p. 143)

The associations for the requested instance.

Type: Array of InstanceAssociation (p. 660) objects

NextToken (p. 143)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeEffectiveInstanceAssociations.
**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeEffectiveInstanceAssociations
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200326T144721Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200326/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 37

{
  "InstanceId":"i-02573cafcfEXAMPLE"
}
```

**Sample Response**

```plaintext
{
  "Associations": [
    {
      "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE",
      "InstanceId": "i-02573cafcfEXAMPLE",
      "Content": "{
        "schemaVersion": "1.2",
        "description": "Update the Amazon SSM Agent to the latest version or specified version.",
        "AssociationVersion": "1"
      }"
    }
  ]
}
```

**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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeEffectivePatchesForPatchBaseline

Retrieves the current effective patches (the patch and the approval state) for the specified patch baseline. Note that this API applies only to Windows patch baselines.

Request Syntax

```json
{
  "BaselineId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

BaselineId (p. 146)

The ID of the patch baseline to retrieve the effective patches for.

Type: String


Pattern: ^[a-zA-Z0-9_\-:/\]{20,128}$

Required: Yes

MaxResults (p. 146)

The maximum number of patches to return (per page).

Type: Integer

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

Required: No

NextToken (p. 146)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
  "EffectivePatches": [
    {
      "Patch": {
      
```
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.

EffectivePatches (p. 146)

An array of patches and patch status.

Type: Array of EffectivePatch (p. 656) objects

NextToken (p. 146)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.
For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidResourceId

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

UnsupportedOperatingSystem

The operating systems you specified is not supported, or the operation is not supported for the operating system.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeEffectivePatchesForPatchBaseline.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 38
X-Amz-Target: AmazonSSM.DescribeEffectivePatchesForPatchBaseline
X-Amz-Date: 20180309T061447Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

Sample Response

```
{
  "EffectivePatches": [
    {
      "Patch": {
        "Classification": "SecurityUpdates",
        "ContentUrl": "https://support.microsoft.com/en-us/kb/2032276",
        "Description": "A security issue has been identified that could allow an unauthenticated remote attacker to compromise your system and gain control over it. You can help protect your system by installing this update from API Version 2014-11-06

148"}
```
Microsoft. After you install this update, you may have to restart your system.

```json
{
  "Patch": {
    "Classification": "SecurityUpdates",
    "ContentUrl": "https://support.microsoft.com/en-us/kb/2124261",
    "Description": "A security issue has been identified that could allow an unauthenticated remote attacker to compromise your system and gain control over it. You can help protect your system by installing this update from Microsoft. After you install this update, you may have to restart your system."
  },
  "PatchStatus": {
    "ApprovalDate": 1284742800,
    "ComplianceLevel": "UNSPECIFIED",
    "DeploymentStatus": "APPROVED"
  }
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeInstanceAssociationsStatus

The status of the associations for the instance(s).

Request Syntax

```
{
    "InstanceId": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**InstanceId (p. 151)**

The instance IDs for which you want association status information.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: Yes

**MaxResults (p. 151)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 151)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```
{
    "InstanceAssociationStatusInfos": [
    {
        "AssociationId": "string",
        "AssociationName": "string",
        "AssociationVersion": "string",
        "DetailedStatus": "string",
    }
    ]
}
```
"DocumentVersion": "string",
"ErrorCode": "string",
"ExecutionDate": number,
"ExecutionSummary": "string",
"InstanceId": "string",
"Name": "string",
"OutputUrl": {
  "S3OutputUrl": {
    "OutputUrl": "string"
  }
},
"Status": "string"
],
"NextToken": "string"}

Response Elements

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

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

InstanceAssociationStatusInfos (p. 151)

Status information about the association.

Type: Array of InstanceAssociationStatusInfo (p. 663) objects

NextToken (p. 151)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of DescribeInstanceAssociationsStatus.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeInstanceAssociationsStatus
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/10.7.0 botocore/1.14.12
X-Amz-Date: 20200324T185152Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
               SignedHeaders=content-type;host;x-amz-date;x-amz-target,
               Signature=39c3b3042cd2aEXAMPLE
Content-Length: 37

{
    "InstanceId":"i-02573cafcfEXAMPLE"
}
```

Sample Response

```
{
    "InstanceAssociationStatusInfos": [
        {
            "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE",
            "AssociationVersion": "1",
            "DetailedStatus": "Success",
            "DocumentVersion": "1",
            "ExecutionDate": 1581948052198E9,
            "InstanceId": "i-02573cafcfEXAMPLE",
            "Name": "AWS-UpdateSSMAgent",
            "Status": "Success"
        }
    ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeInstanceInformation

Describes one or more of your instances, including information about the operating system platform, the version of SSM Agent installed on the instance, instance status, and so on.

If you specify one or more instance IDs, it returns information for those instances. If you do not specify instance IDs, it returns information for all your instances. If you specify an instance ID that is not valid or an instance that you do not own, you receive an error.

**Note**
The IamRole field for this API action is the Amazon Identity and Access Management (IAM) role assigned to on-premises instances. This call does not return the IAM role for EC2 instances.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "InstanceInformationFilterList": [
    {
      "key": "string",
      "valueSet": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 155)**

One or more filters. Use a filter to return a more specific list of instances. You can filter based on tags applied to EC2 instances. Use this Filters data type instead of InstanceInformationFilterList, which is deprecated.

Type: Array of InstanceInformationStringFilter (p. 671) objects

Array Members: Minimum number of 0 items.

Required: No

**InstanceInformationFilterList (p. 155)**

This is a legacy method. We recommend that you don't use this method. Instead, use the Filters data type. Filters enables you to return instance information by filtering based on tags applied to managed instances.

**Note**
Attempting to use InstanceInformationFilterList and Filters leads to an exception error.
Response Syntax

```json
{
  "InstanceInformationList": [
    {
      "ActivationId": "string",
      "AgentVersion": "string",
      "AssociationOverview": {
        "DetailedStatus": "string",
        "InstanceAssociationStatusAggregatedCount": {
          "string": number
        }
      },
      "AssociationStatus": "string",
      "ComputerName": "string",
      "IamRole": "string",
      "InstanceId": "string",
      "IPAddress": "string",
      "IsLatestVersion": boolean,
      "LastAssociationExecutionDate": number,
      "LastPingDateTime": number,
      "LastSuccessfulAssociationExecutionDate": number,
      "Name": "string",
      "PingStatus": "string",
      "PlatformName": "string",
      "PlatformType": "string",
      "PlatformVersion": "string",
      "RegistrationDate": number,
      "ResourceType": "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.

**InstanceInformationList (p. 156)**

The instance information list.

Type: Array of InstancelInformation (p. 666) objects

**NextToken (p. 156)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400

**InvalidInstanceId**

The following problems can cause this exception:

- You do not have permission to access the instance.
- SSM Agent is not running. Verify that SSM Agent is running.
- SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.
- The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

**InvalidInstanceInformationFilterValue**

The specified filter value is not valid.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of DescribeInstanceInformation.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeInstanceInformation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200220T234247Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200220/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 72
{
  "Filters": [
    {
      "Key": "InstanceIds",
      "Values": [
        "i-02573cafcfEXAMPLE"
      ]
    }
  ]
}

Sample Response

{
  "InstanceInformationList": [
    {
      "AgentVersion": "2.3.871.0",
      "AssociationOverview": {
        "DetailedStatus": "Failed",
        "InstanceAssociationStatusAggregatedCount": {
          "Failed": 1,
          "Success": 1
        }
      },
      "AssociationStatus": "Failed",
      "ComputerName": "WIN-11RMS222RPK.WORKGROUP",
      "IPAddress": "203.0.113.0",
      "InstanceId": "i-02573cafcfEXAMPLE",
      "IsLatestVersion": false,
      "LastAssociationExecutionDate": 1582242019,
      "LastPingDateTime": 1582242018.094,
      "PingStatus": "Online",
      "PlatformName": "Microsoft Windows Server 2008 R2 Datacenter",
      "PlatformType": "Windows",
      "PlatformVersion": "6.1.7601",
      "ResourceType": "EC2Instance"
    }
  ]
}

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++
See Also

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeInstancePatches

Retrieves information about the patches on the specified instance and their state relative to the patch baseline being used for the instance.

Request Syntax

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "InstanceId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 160)

An array of structures. Each entry in the array is a structure containing a Key, Value combination. Valid values for Key are Classification | KBId | Severity | State.

Type: Array of PatchOrchestratorFilter (p. 772) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

InstanceId (p. 160)

The ID of the instance whose patch state information should be retrieved.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: Yes

MaxResults (p. 160)

The maximum number of patches to return (per page).

Type: Integer


Required: No

NextToken (p. 160)

The token for the next set of items to return. (You received this token from a previous call.)
Response Syntax

```
{
  "NextToken": "string",
  "Patches": [
    {
      "Classification": "string",
      "CVEIds": "string",
      "InstalledTime": number,
      "KBId": "string",
      "Severity": "string",
      "State": "string",
      "Title": "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. 161)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Patches (p. 161)**

Each entry in the array is a structure containing:

Title (string)

KBId (string)

Classification (string)

Severity (string)

State (string, such as "INSTALLED" or "FAILED")

InstalledTime (DateTime)

InstalledBy (string)

Type: Array of PatchComplianceData (p. 766) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).
InternalServerError

An error occurred on the server side.
HTTP Status Code: 500

InvalidFilter

The filter name is not valid. Verify that you entered the correct name and try again.
HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.
SSM Agent is not running. Verify that SSM Agent is running.
SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.
The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.
HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.
HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeInstancePatches.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 37
X-Amz-Target: AmazonSSM.DescribeInstancePatches
X-Amz-Date: 20180308T205131Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "InstanceId": "i-02573cafcfEXAMPLE"
}

Sample Response

{
"Patches": [
  {
    "Classification": "Security",
    "InstalledTime": 0,
    "KBId": "file.x86_64",
    "Severity": "Important",
    "State": "Installed",
    "Title": "file.x86_64:0:5.30-11.34.amzn1"
  },
  {
    "Classification": "Security",
    "InstalledTime": 0,
    "KBId": "file-libs.x86_64",
    "Severity": "Important",
    "State": "Installed",
    "Title": "file-libs.x86_64:0:5.30-11.34.amzn1"
  },
  {
    "Classification": "Security",
    "InstalledTime": 0,
    "KBId": "freetype.x86_64",
    "Severity": "Important",
    "State": "Installed",
    "Title": "freetype.x86_64:0:2.3.11-15.14.amzn1"
  }
] // There may be more content here

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeInstancePatchStates

Retrieves the high-level patch state of one or more instances.

Request Syntax

```json
{
    "InstanceIds": [ "string" ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**InstanceIds (p. 164)**

The ID of the instance whose patch state information should be retrieved.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: Yes

**MaxResults (p. 164)**

The maximum number of instances to return (per page).

Type: Integer


Required: No

**NextToken (p. 164)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
    "InstancePatchStates": [
        {
            "BaselineId": "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.

**InstancePatchStates (p. 164)**

The high-level patch state for the requested instances.

Type: Array of InstancePatchState (p. 672) objects

**NextToken (p. 164)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of DescribeInstancePatchStates.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 40
X-Amz-Target: AmazonSSM.DescribeInstancePatchStates
X-Amz-Date: 20180308T202310Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "InstanceIds": [
    "i-02573cafcfEXAMPLE"
  ]
}

Sample Response

{
  "InstancePatchStates": [
    {
      "InstanceId": "i-02573cafcfEXAMPLE",
      "PatchGroup": "mypatchgroup",
      "BaselineId": "pb-0c10e69780EXAMPLE",
      "SnapshotId": "a3f5ff34-9bc4-4d2c-a665-4d1c1EXAMPLE",
      "CriticalNonCompliantCount": 2,
      "SecurityNonCompliantCount": 2,
      "OtherNonCompliantCount": 1,
      "InstalledCount": 123,
      "InstalledOtherCount": 334,
      "InstalledPendingRebootCount": 0,
      "InstalledRejectedCount": 0,
      "MissingCount": 1,
      "FailedCount": 2,
      "UnreportedNotApplicableCount": 11,
      "NotApplicableCount": 2063,
      "OperationStartTime": "2021-05-03T11:00:56-07:00",
      "OperationEndTime": "2021-05-03T11:01:09-07:00",
      "Operation": "Scan",
      "LastNoRebootInstallOperationTime": "2020-06-14T12:17:41-07:00",
      "RebootOption": "RebootIfNeeded"
    }
  ]
}

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeInstancePatchStatesForPatchGroup

Retrieves the high-level patch state for the instances in the specified patch group.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Key": "string",
      "Type": "string",
      "Values": [ "string" ]
    },
    "MaxResults": number,
    "NextToken": "string",
    "PatchGroup": "string"
  }
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 168)**

Each entry in the array is a structure containing:

- **Key** (string between 1 and 200 characters)
- **Values** (array containing a single string)
- **Type** (string "Equal", "NotEqual", "LessThan", "GreaterThan")

Type: Array of InstancePatchStateFilter (p. 676) objects

Required: No

**MaxResults (p. 168)**

The maximum number of patches to return (per page).

Type: Integer


Required: No

**NextToken (p. 168)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No
PatchGroup (p. 168)

The name of the patch group for which the patch state information should be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([\p{L}\p{Z}\p{N}_/:=+/\-@]*$)

Required: Yes

Response Syntax

```json
{
  "InstancePatchStates": [
    {
      "BaselineId": "string",
      "CriticalNonCompliantCount": number,
      "FailedCount": number,
      "InstalledCount": number,
      "InstalledOtherCount": number,
      "InstalledPendingRebootCount": number,
      "InstalledRejectedCount": number,
      "InstallOverrideList": "string",
      "InstanceId": "string",
      "LastNoRebootInstallOperationTime": number,
      "MissingCount": number,
      "NotApplicableCount": number,
      "Operation": "string",
      "OperationEndTime": number,
      "OperationStartTime": number,
      "OtherNonCompliantCount": number,
      "OwnerInformation": "string",
      "PatchGroup": "string",
      "RebootOption": "string",
      "SecurityNonCompliantCount": number,
      "SnapshotId": "string",
      "UnreportedNotApplicableCount": number
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

InstancePatchStates (p. 169)

The high-level patch state for the requested instances.

Type: Array of InstancePatchState (p. 672) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

NextToken (p. 169)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidFilter

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeInstancePatchStatesForPatchGroup.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: AmazonSSM.DescribeInstancePatchStatesForPatchGroup
X-Amz-Date: 20180308T204541Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

\
{  
  "PatchGroup": "mypatchgroup"
}
```

Sample Response

```

{  
  "InstancePatchStates": [  
  
  
  "InstanceId": "i-02573cafcfEXAMPLE",  
  "BaselineId": "pb-0c10e65780EXAMPLE",  
  "SnapshotId": "a3f5ff34-9bc4-4d2c-a665-4d1c1EXAMPLE",  
  "PatchGroup": "mypatchgroup",  
  "OwnerInformation": " ",  
  "FailedCount": 0,
  
  
```
"InstalledCount": 17,
"InstalledOtherCount": 378,
"InstalledPendingRebootCount": 3,
"InstalledRejectedCount": 1
"MissingCount": 4,
"UnreportedNotApplicableCount": 0,
"NotApplicableCount": 396,
"Operation": "Scan",
"OperationEndTime": 1520964020,
"OperationStartTime": 1520964019,
"RebootOption": "RebootIfNeeded"
},

{ "InstanceId": "i-0471e04240EXAMPLE",
"BaselineId": "pb-09ca3fb51fEXAMPLE",
"SnapshotId": "05d8ff0-1bbe-4812-ba2d-d9b7bEXAMPLE",
"PatchGroup": "mypatchgroup",
"OwnerInformation": "",
"FailedCount": 0,
"InstalledCount": 22,
"InstalledOtherCount": 452,
"InstalledPendingRebootCount": 3,
"InstalledRejectedCount": 1,
"MissingCount": 6,
"UnreportedNotApplicableCount": 0,
"NotApplicableCount": 401,
"Operation": "Scan",
"OperationEndTime": 1520964020,
"OperationStartTime": 1520964019,
"RebootOption": "RebootIfNeeded"
},

{ "InstanceId": "i-02ea876da3EXAMPLE",
"BaselineId": "i-07782c72faEXAMPLE",
"OperationStartTime": 1520965519.43,
"SnapshotId": "f87f7ad-a0ed-4e08-a035-10a2bEXAMPLE",
"PatchGroup": "mypatchgroup",
"OwnerInformation": "",
"FailedCount": 0,
"InstalledCount": 0,
"InstalledOtherCount": 10,
"InstalledPendingRebootCount": 3,
"InstalledRejectedCount": 2,
"MissingCount": 0,
"UnreportedNotApplicableCount": 0,
"NotApplicableCount": 2390,
"Operation": "Scan",
"OperationEndTime": 1520965621.126,
"OperationStartTime": 1520965643.845,
"RebootOption": "RebootIfNeeded"
}

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++
See Also

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeInventoryDeletions

Describes a specific delete inventory operation.

Request Syntax

```
{
  "DeletionId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DeletionId (p. 173)**

Specify the delete inventory ID for which you want information. This ID was returned by the DeleteInventory action.

Type: String

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

Required: No

**MaxResults (p. 173)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 173)**

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

Type: String

Required: No

Response Syntax

```
{
  "InventoryDeletions": [
    {
      "DeletionId": "string",
      "DeletionStartTime": number,
      "DeletionSummary": {
        "RemainingCount": number
      }
    }
  ]
}
```
"SummaryItems": [
   {
      "Count": number,
      "RemainingCount": number,
      "Version": "string"
   },
   "TotalCount": number
],
"LastStatus": "string",
"LastStatusMessage": "string",
"LastStatusUpdateTime": number,
"TypeName": "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.

InventoryDeletions (p. 173)

A list of status items for deleted inventory.

Type: Array of InventoryDeletionStatusItem (p. 678) objects

NextToken (p. 173)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDeletionIdException

The ID specified for the delete operation does not exist or is not valid. Verify the ID and try again.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

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

Lists the executions of a maintenance window. This includes information about when the maintenance window was scheduled to be active, and information about tasks registered and run with the maintenance window.

Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "WindowId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 176)**

Each entry in the array is a structure containing:

- **Key** (string, between 1 and 128 characters)
- **Values** (array of strings, each string is between 1 and 256 characters)

The supported Keys are ExecutedBefore and ExecutedAfter with the value being a date/time string such as 2016-11-04T05:00:00Z.

Type: Array of MaintenanceWindowFilter (p. 701) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**MaxResults (p. 176)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 176)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String
Required: No

**WindowId (p. 176)**

The ID of the maintenance window whose executions should be retrieved.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

**Response Syntax**

```json
{
    "NextToken": "string",
    "WindowExecutions": [
        {
            "EndTime": number,
            "StartTime": number,
            "Status": "string",
            "StatusDetails": "string",
            "WindowExecutionId": "string",
            "WindowId": "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. 177)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**WindowExecutions (p. 177)**

Information about the maintenance window executions.

Type: Array of MaintenanceWindowExecution (p. 694) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServer**

An error occurred on the server side.

HTTP Status Code: 500
Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowExecutions.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 36
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowExecutions
X-Amz-Date: 20180312T204551Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180312/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "WindowId": "mw-0c50858d01EXAMPLE"
}
```

Sample Response

```plaintext
{
  "NextToken": "AAEABbrXFUCgJpmXZxxu+AD17F+5bzlsAyqrig1EXAMPLE...pYY",
  "WindowExecutions": [
    {
      "EndTime": 1520887532.647,
      "StartTime": 1520887532.601,
      "Status": "SUCCESS",
      "WindowExecutionId": "6027b513-64fe-4cf0-be7d-1191aEXAMPLE",
      "WindowId": "mw-0c50858d01EXAMPLE"
    },
    {
      "EndTime": 1520887412.8,
      "StartTime": 1520887412.76,
      "Status": "SUCCESS",
      "WindowExecutionId": "ff75b750-4834-4377-8f61-b3cadEXAMPLE",
      "WindowId": "mw-0c50858d01EXAMPLE"
    },
    {
      "EndTime": 1520887725.703,
      "StartTime": 1520887725.251,
      "Status": "FAILED",
      "StatusDetails": "One or more tasks in the orchestration failed.",
      "WindowExecutionId": "9fac7dd9-ff21-42a5-96ad-bbc4bEXAMPLE",
      "WindowId": "mw-0c50858d01EXAMPLE"
    }
  ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeMaintenanceWindowExecutionTaskInvocations

Retrieves the individual task executions (one per target) for a particular task run as part of a maintenance window execution.

Request Syntax

```json
{
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string",
    "TaskId": "string",
    "WindowExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 180)**

Optional filters used to scope down the returned task invocations. The supported filter key is STATUS with the corresponding values PENDING, IN_PROGRESS, SUCCESS, FAILED, TIMED_OUT, CANCELLING, and CANCELLED.

Type: Array of MaintenanceWindowFilter (p. 701) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**MaxResults (p. 180)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 180)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**TaskId (p. 180)**

The ID of the specific task in the maintenance window task that should be retrieved.
Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: Yes

**WindowExecutionId (p. 180)**

The ID of the maintenance window execution the task is part of.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: Yes

---

**Response Syntax**

```json
{
    "NextToken": "string",
    "WindowExecutionTaskInvocationIdentities": [
        {
            "EndTime": number,
            "ExecutionId": "string",
            "InvocationId": "string",
            "OwnerInformation": "string",
            "Parameters": "string",
            "StartTime": number,
            "Status": "string",
            "StatusDetails": "string",
            "TaskExecutionId": "string",
            "TaskType": "string",
            "WindowExecutionId": "string",
            "WindowTargetId": "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. 181)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**WindowExecutionTaskInvocationIdentities (p. 181)**

Information about the task invocation results per invocation.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

** DoesNotExistException **

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

** InternalServerError **

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowExecutionTaskInvocations.

** Sample Request **

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowExecutionTaskInvocations
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200224T233800Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200224/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 111

{
  "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef4EXAMPLE",
  "TaskId": "0c9ac961-dafd-4a94-b6c7-1bef3EXAMPLE"
}
```

** Sample Response **

```json
{
  "WindowExecutionTaskInvocationIdentities": [
    {
      "EndTime": 1582587906.166,
      "ExecutionId": "1203cf98-5a79-4ec3-97e9-12e0EXAMPLE",
      "InvocationId": "0e466033-290b-4d74-9ae0-f33e3EXAMPLE",
      "Parameters": "{"comment":"","documentName":"AWS-ApplyPatchBaseline","instanceIds":[]}",
      "maxConcurrency": "1"
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeMaintenanceWindowExecutionTasks

For a given maintenance window execution, lists the tasks that were run.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "WindowExecutionId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters (p. 821)].

The request accepts the following data in JSON format.

**Filters (p. 184)**

Optional filters used to scope down the returned tasks. The supported filter key is STATUS with the corresponding values PENDING, IN_PROGRESS, SUCCESS, FAILED, TIMED_OUT, CANCELLING, and CANCELLED.

*Type:* Array of [MaintenanceWindowFilter (p. 701)] objects

*Array Members:* Minimum number of 0 items. Maximum number of 5 items.

*Required:* No

**MaxResults (p. 184)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

*Type:* Integer


*Required:* No

**NextToken (p. 184)**

The token for the next set of items to return. (You received this token from a previous call.)

*Type:* String

*Required:* No

**WindowExecutionId (p. 184)**

The ID of the maintenance window execution whose task executions should be retrieved.

*Type:* String

---

AWS Systems Manager API Reference
DescribeMaintenanceWindowExecutionTasks

API Version 2014-11-06
184
Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "WindowExecutionTaskIdentities": [
    {
      "EndTime": number,
      "StartTime": number,
      "Status": "string",
      "StatusDetails": "string",
      "TaskArn": "string",
      "TaskExecutionId": "string",
      "TaskType": "string",
      "WindowExecutionId": "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. 185)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**WindowExecutionTaskIdentities (p. 185)**

Information about the task executions.

Type: Array of MaintenanceWindowExecutionTaskIdentity (p. 696) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400
InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowExecutionTasks.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowExecutionTasks
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200224T234903Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200224/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 61

{
  "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef4EXAMPLE"
}
```

Sample Response

```
{
  "WindowExecutionTaskIdentities": [
    {
      "EndTime": 1582587906.268,
      "StartTime": 1582587871.388,
      "Status": "SUCCESS",
      "TaskArn": "AWS-ApplyPatchBaseline",
      "TaskExecutionId": "0c9ac961-daf2-4a94-b6c7-1bef3EXAMPLE",
      "TaskType": "RUN_COMMAND",
      "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef4EXAMPLE"
    }
  ]
}
```

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 V2
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribeMaintenanceWindows

Retrieves the maintenance windows in an AWS account.

Request Syntax

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    },
    "MaxResults": number,
    "NextToken": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 188)

Optional filters used to narrow down the scope of the returned maintenance windows. Supported filter keys are Name and Enabled.

Type: Array of MaintenanceWindowFilter (p. 701) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

MaxResults (p. 188)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 188)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
  "NextToken": "string",
  "WindowIdentities": [
  ]
}
```
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. 188)
The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.
Type: String

WindowIdentities (p. 188)
Information about the maintenance windows.
Type: Array of MaintenanceWindowIdentity (p. 702) objects

Errors
For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServer Error
An error occurred on the server side.
HTTP Status Code: 500

Examples

Example
This example illustrates one usage of DescribeMaintenanceWindows.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindows
```
{  "Filters": [    {      "Values": [true],      "Key": "Enabled"    }  ]}  

Sample Response

{  "WindowIdentities": [    {      "WindowId": "mw-0c5ed765acEXAMPLE",      "Name": "Windows-Testing-Maintenance-Window",      "Description": "Standard maintenance windows for Test Servers",      "Enabled": true,      "Duration": 6,      "Cutoff": 2,      "Schedule": "rate(2 weeks)",      "NextExecutionTime": "2020-02-24T23:52:15.099Z"    },    {      "WindowId": "mw-0c50858d01EXAMPLE",      "Name": "Windows-Staging-Maintenance-Window",      "Description": "Standard maintenance windows for Staging Servers",      "Enabled": true,      "Duration": 10,      "Cutoff": 4,      "Schedule": "cron(0 0 6 ? * MON *)",      "NextExecutionTime": "2020-03-02T06:00:00.099Z"    },    {      "WindowId": "mw-07f80c1841EXAMPLE",      "Cutoff": 4,      "Name": "Windows-Production-Maintenance-Window",      "Description": "Standard maintenance windows for Production Servers",      "Enabled": true,      "Duration": 10,      "Cutoff": 4,      "Schedule": "cron(0 0 6 ? * WED *)",      "NextExecutionTime": "2020-03-05T06:00:00.099Z"    }  ]  // There may be more content here}  

See Also

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

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

Retrieves information about upcoming executions of a maintenance window.

Request Syntax

```json
{
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string",
    "ResourceType": "string",
    "Targets": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "WindowId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 192)

Filters used to limit the range of results. For example, you can limit maintenance window executions to only those scheduled before or after a certain date and time.

Type: Array of PatchOrchestratorFilter (p. 772) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

MaxResults (p. 192)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NextToken (p. 192)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String
ResourceType (p. 192)

The type of resource you want to retrieve information about. For example, "INSTANCE".
Type: String
Valid Values: INSTANCE | RESOURCE_GROUP

Targets (p. 192)

The instance ID or key/value pair to retrieve information about.
Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.

WindowId (p. 192)

The ID of the maintenance window to retrieve information about.
Type: String
Pattern: ^mw-[0-9a-f]{17}$

Response Syntax

```
{
"NextToken": "string",
"ScheduledWindowExecutions": [
{
"ExecutionTime": "string",
"Name": "string",
"WindowId": "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. 193)

The token for the next set of items to return. (You use this token in the next call.)
Type: String

ScheduledWindowExecutions (p. 193)

Information about maintenance window executions scheduled for the specified time range.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowSchedule.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowSchedule
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200224T235938Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200224/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 36

{
    "WindowId": "mw-0c50858d01EXAMPLE"
}
```

**Sample Response**

```
{
    "NextToken": "EXAMPLE/39c3b3042cd2aEXAMPLEAKIAIOSFODNN7EXAMPLE==",
    "ScheduledWindowExecutions": [
        {
            "ExecutionTime": "2020-02-25T00:00:15.099Z",
            "Name": "MyMaintenanceWindow",
            "WindowId": "mw-0c50858d01EXAMPLE"
        },
    
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeMaintenanceWindowsForTarget

Retrieves information about the maintenance window targets or tasks that an instance is associated with.

Request Syntax

```json
{
    "MaxResults": number,
    "NextToken": "string",
    "ResourceType": "string",
    "Targets": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

MaxResults (p. 196)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NextToken (p. 196)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

ResourceType (p. 196)

The type of resource you want to retrieve information about. For example, "INSTANCE".

Type: String

Valid Values: INSTANCE | RESOURCE_GROUP

Required: Yes

Targets (p. 196)

The instance ID or key/value pair to retrieve information about.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.
Required: Yes

Response Syntax

```json
{
  "NextToken": "string",
  "WindowIdentities": [
    {
      "Name": "string",
      "WindowId": "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. 197)**

The token for the next set of items to return. (You use this token in the next call.)

Type: String

**WindowIdentities (p. 197)**

Information about the maintenance window targets and tasks an instance is associated with.

Type: Array of MaintenanceWindowIdentityForTarget (p. 705) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServer>Error**

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowsForTarget.

Sample Request

```bash
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowsForTarget
```
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T003520Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 100

{
    "Targets": [
        {
            "Key": "InstanceIds",
            "Values": [
                "i-07782c72faEXAMPLE"
            ]
        }
    ],
    "ResourceType": "INSTANCE"
}

Sample Response

{
    "WindowIdentities": [
        {
            "Name": "MyFirstMaintenanceWindow",
            "WindowId": "mw-0c50858d01EXAMPLE"
        },
        {
            "Name": "MySecondMaintenanceWindow",
            "WindowId": "mw-05aaf9f490EXAMPLE"
        },
        {
            "Name": "MyThirdMaintenanceWindow",
            "WindowId": "mw-0ecb1226ddEXAMPLE"
        }
    ]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**DescribeMaintenanceWindowTargets**

Lists the targets registered with the maintenance window.

### Request Syntax

```json
{
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string",
    "WindowId": "string"
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters (p. 821)](https://docs.aws.amazon.com/systems-manager/latest/APIReference/common-parameters.html).

The request accepts the following data in JSON format.

**Filters (p. 199)**

Optional filters that can be used to narrow down the scope of the returned window targets. The supported filter keys are Type, WindowTargetId and OwnerInformation.

- **Type**: Array of [MaintenanceWindowFilter (p. 701)](https://docs.aws.amazon.com/systems-manager/latest/APIReference/maintenance-window-filter.html) objects
- **Array Members**: Minimum number of 0 items. Maximum number of 5 items.
- **Required**: No

**MaxResults (p. 199)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

- **Type**: Integer
- **Valid Range**: Minimum value of 10. Maximum value of 100.
- **Required**: No

**NextToken (p. 199)**

The token for the next set of items to return. (You received this token from a previous call.)

- **Type**: String
- **Required**: No

**WindowId (p. 199)**

The ID of the maintenance window whose targets should be retrieved.

- **Type**: String
Response Syntax

```json
{
    "NextToken": "string",
    "Targets": [
        {
            "Description": "string",
            "Name": "string",
            "OwnerInformation": "string",
            "ResourceType": "string",
            "Targets": [
                {
                    "Key": "string",
                    "Values": [ "string" ]
                }
            ],
            "WindowId": "string",
            "WindowTargetId": "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. 200)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Targets (p. 200)**

Information about the targets in the maintenance window.

Type: Array of MaintenanceWindowTarget (p. 712) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.
HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

## Examples

### Example

This example illustrates one usage of DescribeMaintenanceWindowTargets.

### Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowTargets
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T003928Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 36

{
  "WindowId": "mw-0c50858d01EXAMPLE"
}
```

### Sample Response

```
{
  "Targets": [
    {
      "Name": "MyTargets",
      "ResourceType": "INSTANCE",
      "Targets": [
        {
          "Key": "InstanceIds",
          "Values": [
            "i-02573cafcafEXAMPLE",
            "i-0471e04d0EXAMPLE"
          ]
        }
      ],
      "WindowId": "mw-0c50858d01EXAMPLE",
      "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
    },
    {
      "ResourceType": "INSTANCE",
      "Targets": [
        {
          "Key": "InstanceIds",
          "Values": [
            "i-07782c72faEXAMPLE"
          ]
        }
      ],
      "WindowId": "mw-0c50858d01EXAMPLE",
      "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeMaintenanceWindowTasks

Lists the tasks in a maintenance window.

**Note**
For maintenance window tasks without a specified target, you cannot supply values for `--max-errors` and `--max-concurrency`. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. These values do not affect the running of your task and can be ignored.

**Request Syntax**

```
{
"Filters": [
{
"Key": "string",
"Values": [ "string" ]
}
],
"MaxResults": number,
"NextToken": "string",
"WindowId": "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.

**Filters (p. 203)**
Optional filters used to narrow down the scope of the returned tasks. The supported filter keys are WindowTaskId, TaskArn, Priority, and TaskType.

- **Type**: Array of [MaintenanceWindowFilter](#) objects
- **Array Members**: Minimum number of 0 items. Maximum number of 5 items.
- **Required**: No

**MaxResults (p. 203)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

- **Type**: Integer
- **Valid Range**: Minimum value of 10. Maximum value of 100.
- **Required**: No

**NextToken (p. 203)**

The token for the next set of items to return. (You received this token from a previous call.)

- **Type**: String
- **Required**: No
WindowId (p. 203)

The ID of the maintenance window whose tasks should be retrieved.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Tasks": [
    {
      "Description": "string",
      "LoggingInfo": {
        "S3BucketName": "string",
        "S3KeyPrefix": "string",
        "S3Region": "string"
      },
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "Name": "string",
      "Priority": number,
      "ServiceRoleArn": "string",
      "Targets": [
        {
          "Key": "string",
          "Values": [ "string" ]
        }
      ],
      "TaskArn": "string",
      "TaskParameters": {
        "string": {
          "Values": [ "string" ]
        }
      },
      "Type": "string",
      "WindowId": "string",
      "WindowTaskId": "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. 204)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String
Tasks (p. 204)

Information about the tasks in the maintenance window.

Type: Array of MaintenanceWindowTask (p. 714) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeMaintenanceWindowTasks.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeMaintenanceWindowTasks
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T004311Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 36
{
    "WindowId": "mw-0ecb1226dd7bEXAMPLE"
}
```

Sample Response

```
{
    "Tasks": [
        {
            "Description": "Restarting EC2 Instance for maintenance",
            "MaxConcurrency": "1",
            "MaxErrors": "1",
        }
    ]
}
```
"Name": "My-Automation-Example-Task",
"Priority": 0,
"ServiceRoleArn": "arn:aws:iam::111122223333:role/aws-service-role/ssm.amazonaws.com/AWSServiceRoleForAmazonSSM",
"Targets": [
  
  "Key": "WindowTargetIds",
  "Values": [
    "da89dccc-7f9c-481d-ba2b-edcb7EXAMPLE"
  ]
],
"TaskArn": "AWS-RestartEC2Instance",
"TaskParameters": {},
"Type": "AUTOMATION",
"WindowId": "mw-0ecb1226ddEXAMPLE",
"WindowTaskId": "018b31c3-2d77-4b9e-bd48-c91edEXAMPLE"
},
{  
  "Description": "Automation task to disable read/write access on public S3 buckets",
  "MaxConcurrency": "10",
  "MaxErrors": "5",
  "Name": "My-Disable-S3-Public-Read-Write-Access-Automation-Task",
  "Priority": 0,
  "ServiceRoleArn": "arn:aws:iam::111122223333:role/aws-service-role/ssm.amazonaws.com/AWSServiceRoleForAmazonSSM",
  "Targets": [
    
    "Key": "WindowTargetIds",
    "Values": [
      "da89dccc-7f9c-481d-ba2b-edcb7EXAMPLE"
    ]
  ],
  "TaskArn": "AWS-DisableS3BucketPublicReadWrite",
  "TaskParameters": {},
  "Type": "AUTOMATION",
  "WindowId": "mw-0ecb1226ddEXAMPLE",
  "WindowTaskId": "1943dee0-0a17-4978-9bf4-3cc2fEXAMPLE"
},
// There may be more content here

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeOpsItems

Query a set of OpsItems. You must have permission in AWS Identity and Access Management (IAM) to query a list of OpsItems. For more information, see Getting started with OpsCenter in the AWS Systems Manager User Guide.

Operations engineers and IT professionals use OpsCenter to view, investigate, and remediate operational issues impacting the performance and health of their AWS resources. For more information, see AWS Systems Manager OpsCenter in the AWS Systems Manager User Guide.

Request Syntax

{
   "MaxResults": number,
   "NextToken": "string",
   "OpsItemFilters": [
      {
         "Key": "string",
         "Operator": "string",
         "Values": [ "string" ]
      }
   ]
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

MaxResults (p. 207)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 207)

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

Type: String

Required: No

OpsItemFilters (p. 207)

One or more filters to limit the response.

- Key: CreatedTime
  Operations: GreaterThan, LessThan

- Key: LastModifiedBy
  Operations: Contains, Equals
AWS Systems Manager API Reference
Response Syntax

- Key: LastModifiedTime
  Operations: GreaterThan, LessThan
- Key: Priority
  Operations: Equals
- Key: Source
  Operations: Contains, Equals
- Key: Status
  Operations: Equals
- Key: Title
  Operations: Contains
- Key: OperationalData*
  Operations: Equals
- Key: OperationalDataKey
  Operations: Equals
- Key: OperationalDataValue
  Operations: Equals, Contains
- Key: OpsItemId
  Operations: Equals
- Key: ResourceId
  Operations: Contains
- Key: AutomationId
  Operations: Equals

*If you filter the response by using the OperationalData operator, specify a key-value pair by using the following JSON format: {"key":"key_name","value":"a_value"}

Type: Array of OpsItemFilter (p. 735) objects
Required: No

Response Syntax

```json
{
  "NextToken": "string",
  "OpsItemSummaries": [
    {
      "ActualEndTime": number,
      "ActualStartTime": number,
      "Category": "string",
      "CreatedBy": "string",
      "CreatedTime": number,
      "LastModifiedBy": "string",
      "LastModifiedTime": number,
      "OperationalData": {
        "string": {
          "Type": "string",
```
"Value": "string"

"OpsItemId": "string",
"OpsItemType": "string",
"PlannedEndTime": number,
"PlannedStartTime": number,
"Priority": number,
"Severity": "string",
"Source": "string",
"Status": "string",
"Title": "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. 208)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

OpsItemSummaries (p. 208)

A list of OpsItems.

Type: Array of OpsItemSummary (p. 741) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeOpsItems.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeOpsItems
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T163154Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 80
{
"OpsItemFilters": [
{
"Key": "Status",
"Values": [
"Open"
],
"Operator": "Equal"
}
]
}

Sample Response
{
"OpsItemSummaries": [
{
"CreatedBy": "arn:aws:iam::111122223333:user/example",
"CreatedTime": 1.585757579218E9,
"LastModifiedBy": "arn:aws:iam::111122223333:user/example",
"LastModifiedTime": 1.585757579218E9,
"OpsItemId": "oi-1f050EXAMPLE",
"Source": "SSM",
"Status": "Open",
"Title": "DocumentDeleted"
},
{
"Category": "Availability",
"CreatedBy": "arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02aeea51784EXAMPLE",
"CreatedTime": 1.582701517193E9,
"LastModifiedBy": "arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02aeea51784EXAMPLE",
"LastModifiedTime": 1.582701517193E9,
"OperationalData": {
"/aws/dedup": {
"Type": "SearchableString",
"Value": "{"dedupString":"SSMOpsItems-SSM-maintenance-window-execution-failed"}"
},
"/aws/resources": {
"Type": "SearchableString",
"Value": "{"\"arn\": \"arn:aws:ssm:us-east-2:111122223333:maintenancewindow/mw-0e357ebdc6EXAMPLE\"}"
}
},
"OpsItemId": "oi-f99f2EXAMPLE",
"Severity": "3",
"Source": "SSM",
"Status": "Open",
"Title": "SSM Maintenance Window execution failed"
}
]
}

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 V2
AWS SDK for JavaScript
AWS SDK for PHP V3
AWS SDK for Python
AWS SDK for Ruby V3
DescribeParameters

Get information about a parameter.

**Note**
Request results are returned on a best-effort basis. If you specify `MaxResults` in the request, the response includes information up to the limit specified. The number of items returned, however, can be between zero and the value of `MaxResults`. If the service reaches an internal limit while processing the results, it stops the operation and returns the matching values up to that point and a `NextToken`. You can specify the `NextToken` in a subsequent call to get the next set of results.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "ParameterFilters": [ 
    {
      "Key": "string",
      "Option": "string",
      "Values": [ "string" ]
    }
  ]
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 212)**

This data type is deprecated. Instead, use `ParameterFilters`.

Type: Array of `ParametersFilter (p. 757)` objects

Required: No

**MaxResults (p. 212)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 212)**

The token for the next set of items to return. (You received this token from a previous call.)
Type: String
Required: No

**ParameterFilters (p. 212)**
Filters to limit the request results.
Type: Array of **ParameterStringFilter (p. 758)** objects
Required: No

**Response Syntax**

```
{
   "NextToken": "string",
   "Parameters": [
      {
         "AllowedPattern": "string",
         "DataType": "string",
         "Description": "string",
         "KeyId": "string",
         "LastModifiedDate": number,
         "LastModifiedUser": "string",
         "Name": "string",
         "Policies": [
            {
               "PolicyStatus": "string",
               "PolicyText": "string",
               "PolicyType": "string"
            }
         ],
         "Tier": "string",
         "Type": "string",
         "Version": number
      }
   ]
}
```

**Response Elements**

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

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

**NextToken (p. 213)**
The token to use when requesting the next set of items.
Type: String

**Parameters (p. 213)**
Parameters returned by the request.
Type: Array of **ParameterMetadata (p. 755)** objects

**Errors**
For information about the errors that are common to all actions, see **Common Errors (p. 823)**.
**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400

**InvalidFilterOption**

The specified filter option is not valid. Valid options are Equals and BeginsWith. For Path filter, valid options are Recursive and OneLevel.

HTTP Status Code: 400

**InvalidFilterValue**

The filter value is not valid. Verify the value and try again.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of DescribeParameters.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 95
X-Amz-Target: AmazonSSM.DescribeParameters
X-Amz-Date: 20180316T010204Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "ParameterFilters": [
        {
            "Values": [
                "String"
            ],
            "Key": "Type"
        },
        {
            "Values": [
                "/Branch312"
            ],
```
Sample Response

```
{
  "Parameters": [
    {
      "LastModifiedDate": 1521160696.821,
      "LastModifiedUser": "arn:aws:iam::111122223333:user/Mateo.Jackson",
      "Name": "/Branch312/Dev/Engineer1",
      "Policies": [],
      "Type": "String",
      "Version": 1,
      "Tier": "Standard"
    },
    {
      "LastModifiedDate": 1521160709.358,
      "LastModifiedUser": "arn:aws:iam::111122223333:user/Mateo.Jackson",
      "Name": "/Branch312/Dev/Engineer2",
      "Policies": [],
      "Type": "String",
      "Version": 1,
      "Tier": "Standard"
    },
    {
      "LastModifiedDate": 1521160717.945,
      "LastModifiedUser": "arn:aws:iam::111122223333:user/Mateo.Jackson",
      "Name": "/Branch312/Dev/Engineer3",
      "Policies": [],
      "Type": "String",
      "Version": 1,
      "Tier": "Standard"
    },
    {
      "LastModifiedDate": 1521160747.499,
      "LastModifiedUser": "arn:aws:iam::111122223333:user/Mary.Major",
      "Name": "/Branch312/Dev/Intern",
      "Policies": [
        {"PolicyStatus": "Pending",
         "PolicyText": "{"Type":"Expiration","Version":"1.0","Attributes":{"Timestamp":"2020-03-31T17:00:00Z"}}",
         "PolicyType": "Expiration"
        },
        {"PolicyStatus": "Pending",
         "PolicyText": "{"Type":"ExpirationNotification","Version":"1.0","Attributes":{"Before":"14","Unit":"Days"}}",
         "PolicyType": "ExpirationNotification"
        }
      ],
      "Type": "String",
      "Version": 1,
      "Tier": "Standard"
    },
    {
      "LastModifiedDate": 1521160588.291,
      "LastModifiedUser": "arn:aws:iam::111122223333:user/John.Stiles",
      "Name": "/Branch312/Dev/TeamLead",
      "Policies": [],
      "Type": "String",
      "Version": 1,
      "Tier": "Standard"
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribePatchBaselines

Lists the patch baselines in your AWS account.

Request Syntax

```
{
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 217)

Each element in the array is a structure containing:

- Key: (string, "NAME_PREFIX" or "OWNER")
- Value: (array of strings, exactly 1 entry, between 1 and 255 characters)
- Type: Array of PatchOrchestratorFilter (p. 772) objects
- Array Members: Minimum number of 0 items. Maximum number of 5 items.
- Required: No

MaxResults (p. 217)

The maximum number of patch baselines to return (per page).

- Type: Integer
- Valid Range: Minimum value of 1. Maximum value of 100.
- Required: No

NextToken (p. 217)

The token for the next set of items to return. (You received this token from a previous call.)

- Type: String
- Required: No

Response Syntax

```
{
```

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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.

**BaselineIdentities (p. 217)**

An array of PatchBaselineIdentity elements.

Type: Array of PatchBaselineIdentity (p. 764) objects

**NextToken (p. 217)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

Examples

**Example**

This example illustrates one usage of DescribePatchBaselines.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: AmazonSSM.DescribePatchBaselines
X-Amz-Date: 20180309T024139Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
```
Sample Response

```json
{
    "BaselineIdentities": [
        {
            "BaselineDescription": "Default Patch Baseline for Suse Provided by AWS.",
            "BaselineName": "AWS-SuseDefaultPatchBaseline",
            "DefaultBaseline": true,
            "OperatingSystem": "SUSE"
        },
        {
            "BaselineDescription": "Default Patch Baseline Provided by AWS.",
            "BaselineId": "arn:aws:ssm:us-east-2:111122223333:patchbaseline/pb-09ca3fb51fEXAMPLE",
            "BaselineName": "AWS-DefaultPatchBaseline",
            "DefaultBaseline": true,
            "OperatingSystem": "WINDOWS"
        },
        {
            "BaselineDescription": "Default Patch Baseline for Amazon Linux Provided by AWS.",
            "BaselineId": "arn:aws:ssm:us-east-2:111122223333:patchbaseline/pb-0c10e65780EXAMPLE",
            "BaselineName": "AWS-AmazonLinuxDefaultPatchBaseline",
            "DefaultBaseline": true,
            "OperatingSystem": "AMAZON_LINUX"
        },
        {
            "BaselineDescription": "Default Patch Baseline for Ubuntu Provided by AWS.",
            "BaselineId": "arn:aws:ssm:us-east-2:111122223333:patchbaseline/pb-0c7e89f711EXAMPLE",
            "BaselineName": "AWS-UbuntuDefaultPatchBaseline",
            "DefaultBaseline": true,
            "OperatingSystem": "UBUNTU"
        },
        {
            "BaselineDescription": "Default Patch Baseline for Redhat Enterprise Linux Provided by AWS.",
            "BaselineId": "arn:aws:ssm:us-east-2:111122223333:patchbaseline/pb-0cbb3a633dEXAMPLE",
            "BaselineName": "AWS-RedHatDefaultPatchBaseline",
            "DefaultBaseline": true,
            "OperatingSystem": "REDHAT_ENTERPRISE_LINUX"
        }
    ]
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DescribePatchGroups

Lists all patch groups that have been registered with patch baselines.

Request Syntax

```json
{
    "Filters": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 221)**

One or more filters. Use a filter to return a more specific list of results.

For DescribePatchGroups, valid filter keys include the following:

- **NAME_PREFIX**: The name of the patch group. Wildcards (*) are accepted.
- **OPERATING_SYSTEM**: The supported operating system type to return results for. For valid operating system values, see GetDefaultPatchBaseline:OperatingSystem (p. 257) in CreatePatchBaseline (p. 59).

Examples:

- `--filters Key=NAME_PREFIX,Values=MyPatchGroup*`
- `--filters Key=OPERATING_SYSTEM,Values=AMAZON_LINUX_2`

Type: Array of PatchOrchestratorFilter (p. 772) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**MaxResults (p. 221)**

The maximum number of patch groups to return (per page).

Type: Integer

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

Required: No

**NextToken (p. 221)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No
Response Syntax

{  "Mappings": [  {    "BaselineIdentity": {      "BaselineDescription": "string",      "BaselineId": "string",      "BaselineName": "string",      "DefaultBaseline": boolean,      "OperatingSystem": "string"    },    "PatchGroup": "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.

Mappings (p. 222)

Each entry in the array contains:

PatchGroup: string (between 1 and 256 characters, Regex: ^([^\p{L}\p{Z}\p{N}_\.:/+\-@]*)$)

PatchBaselineIdentity: A PatchBaselineIdentity element.

Type: Array of PatchGroupPatchBaselineMapping (p. 771) objects

NextToken (p. 222)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribePatchGroups.
Sample Request

POST / HTTP/1.1  
Host: ssm.us-east-2.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 2  
X-Amz-Target: AmazonSSM.DescribePatchGroups  
X-Amz-Date: 20180308T211212Z  
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38  
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE  
{}  

Sample Response

{  
  "Mappings": [  
    {  
      "PatchGroup": "Database Servers",  
      "BaselineIdentity": {  
        "BaselineName": "Windows-Server-2012R2",  
        "DefaultBaseline": false,  
        "BaselineDescription": "Windows Server 2012 R2, Important and Critical security updates",  
        "BaselineId": "pb-0c4e592064EXAMPLE",  
        "OperatingSystem": "WINDOWS"  
      }  
    },  
    {  
      "PatchGroup": "Production",  
      "BaselineIdentity": {  
        "BaselineName": "Windows-Server-2012R2",  
        "DefaultBaseline": false,  
        "BaselineDescription": "Windows Server 2012 R2, Important and Critical security updates",  
        "BaselineId": "pb-0c4e592064EXAMPLE",  
        "OperatingSystem": "WINDOWS"  
      }  
    },  
    {  
      "PatchGroup": "Production",  
      "BaselineIdentity": {  
        "BaselineName": "Amazon-Linux-Production",  
        "DefaultBaseline": false,  
        "BaselineDescription": "Patch baseline used for production instances",  
        "BaselineId": "pb-022c899cEXAMPLE",  
        "OperatingSystem": "AMAZON_LINUX"  
      }  
    },  
    {  
      "PatchGroup": "Production",  
      "BaselineIdentity": {  
        "BaselineName": "RHEL-ZeroDay-Critical",  
        "DefaultBaseline": false,  
        "BaselineId": "pb-0ea5bc85f4EXAMPLE",  
        "OperatingSystem": "REDHAT_ENTERPRISE_LINUX"  
      }  
    }  
  ]
}
"PatchGroup": "Production-Demo",
"BaselineIdentity": {
    "BaselineName": "Only-Security-Patches",
    "DefaultBaseline": false,
    "BaselineDescription": "Security updates for all versions of Windows",
    "BaselineId": "pb-08521bdf9eEXAMPLE",
    "OperatingSystem": "WINDOWS"
}
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribePatchGroupState

Returns high-level aggregated patch compliance state for a patch group.

Request Syntax

```json
{
  "PatchGroup": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**PatchGroup (p. 225)**

The name of the patch group whose patch snapshot should be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=\+\-@]*)$`

Required: Yes

Response Syntax

```json
{
  "Instances": number,
  "InstancesWithCriticalNonCompliantPatches": number,
  "InstancesWithFailedPatches": number,
  "InstancesWithInstalledOtherPatches": number,
  "InstancesWithInstalledPendingRebootPatches": number,
  "InstancesWithInstalledRejectedPatches": number,
  "InstancesWithMissingPatches": number,
  "InstancesWithNotApplicablePatches": number,
  "InstancesWithOtherNonCompliantPatches": number,
  "InstancesWithSecurityNonCompliantPatches": number,
  "InstancesWithUnreportedNotApplicablePatches": 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.

**Instances (p. 225)**

The number of instances in the patch group.
Type: Integer

**InstancesWithCriticalNonCompliantPatches (p. 225)**

The number of instances where patches that are specified as "Critical" for compliance reporting in the patch baseline are not installed. These patches might be missing, have failed installation, were rejected, or were installed but awaiting a required instance reboot. The status of these instances is NON_COMPLIANT.

Type: Integer

**InstancesWithFailedPatches (p. 225)**

The number of instances with patches from the patch baseline that failed to install.

Type: Integer

**InstancesWithInstalledOtherPatches (p. 225)**

The number of instances with patches installed that aren't defined in the patch baseline.

Type: Integer

**InstancesWithInstalledPatches (p. 225)**

The number of instances with installed patches.

Type: Integer

**InstancesWithInstalledPendingRebootPatches (p. 225)**

The number of instances with patches installed by Patch Manager that have not been rebooted after the patch installation. The status of these instances is NON_COMPLIANT.

Type: Integer

**InstancesWithInstalledRejectedPatches (p. 225)**

The number of instances with patches installed that are specified in a RejectedPatches list. Patches with a status of INSTALLED_REJECTED were typically installed before they were added to a RejectedPatches list.

**Note**

If ALLOW_AS_DEPENDENCY is the specified option for RejectedPatchesAction, the value of InstancesWithInstalledRejectedPatches will always be 0 (zero).

Type: Integer

**InstancesWithMissingPatches (p. 225)**

The number of instances with missing patches from the patch baseline.

Type: Integer

**InstancesWithNotApplicablePatches (p. 225)**

The number of instances with patches that aren't applicable.

Type: Integer

**InstancesWithOtherNonCompliantPatches (p. 225)**

The number of instances with patches installed that are specified as other than "Critical" or "Security" but are not compliant with the patch baseline. The status of these instances is NON_COMPLIANT.

Type: Integer
InstancesWithSecurityNonCompliantPatches (p. 225)

The number of instances where patches that are specified as "Security" in a patch advisory are not installed. These patches might be missing, have failed installation, were rejected, or were installed but awaiting a required instance reboot. The status of these instances is NON_COMPLIANT.

Type: Integer

InstancesWithUnreportedNotApplicablePatches (p. 225)

The number of instances with NotApplicable patches beyond the supported limit, which are not reported by name to Systems Manager Inventory.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribePatchGroupState.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: AmazonSSM.DescribePatchGroupState
X-Amz-Date: 20180308T205757Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180308/us-east-2/ssm/aws4_request,
               SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042c2aEXAMPLE

{
   "PatchGroup": "mypatchgroup"
}
```

Sample Response

```
{
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribePatchProperties

Lists the properties of available patches organized by product, product family, classification, severity, and other properties of available patches. You can use the reported properties in the filters you specify in requests for actions such as CreatePatchBaseline (p. 59), UpdatePatchBaseline (p. 547), DescribeAvailablePatches (p. 131), and DescribePatchBaselines (p. 217).

The following section lists the properties that can be used in filters for each major operating system type:

AMAZON_LINUX
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

AMAZON_LINUX_2
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

CENTOS
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

DEBIAN
Valid properties: PRODUCT, PRIORITY

MACOS
Valid properties: PRODUCT, CLASSIFICATION

ORACLE_LINUX
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

REDHAT_ENTERPRISE_LINUX
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

SUSE
Valid properties: PRODUCT, CLASSIFICATION, SEVERITY

UBUNTU
Valid properties: PRODUCT, PRIORITY

WINDOWS
Valid properties: PRODUCT, PRODUCT_FAMILY, CLASSIFICATION, MSRC_SEVERITY

Request Syntax

```
{
    "MaxResults": number,
    "NextToken": "string",
    "OperatingSystem": "string",
    "PatchSet": "string",
    "Property": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).
The request accepts the following data in JSON format.

**MaxResults (p. 229)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 229)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**OperatingSystem (p. 229)**

The operating system type for which to list patches.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

Required: Yes

**PatchSet (p. 229)**

Indicates whether to list patches for the Windows operating system or for Microsoft applications. Not applicable for the Linux or macOS operating systems.

Type: String

Valid Values: OS | APPLICATION

Required: No

**Property (p. 229)**

The patch property for which you want to view patch details.

Type: String

Valid Values: PRODUCT | PRODUCT_FAMILY | CLASSIFICATION | MSRC_SEVERITY | PRIORITY | SEVERITY

Required: Yes

**Response Syntax**

```
{
    "NextToken": "string",
    "Properties": [
        {
            "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.

NextToken (p. 230)

The token for the next set of items to return. (You use this token in the next call.)

Type: String

Properties (p. 230)

A list of the properties for patches matching the filter request parameters.

Type: Array of string to string maps

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribePatchProperties.

Sample Request

```json
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 95
X-Amz-Target: AmazonSSM.DescribePatchProperties
X-Amz-Date: 20190312T010204Z
User-Agent: aws-cli/1.16.96 Python/2.7.15 Windows/10 botocore/1.12.86
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20190312/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
{
    "OperatingSystem": "Windows",
    "Property": "PRODUCT",
```
Sample Response

```json
{
    "Properties": [
        {
            "Name": "WindowsServer2012",
            "ProductFamily": "Windows"
        },
        {
            "Name": "WindowsServer2012R2",
            "ProductFamily": "Windows"
        },
        {
            "Name": "WindowsServer2016",
            "ProductFamily": "Windows"
        },
        {
            "Name": "WindowsServer2019",
            "ProductFamily": "Windows"
        }
    ]
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DescribeSessions

Retrieves a list of all active sessions (both connected and disconnected) or terminated sessions from the past 30 days.

Request Syntax

```json
{
    "Filters": [
        
        
    ],
    "MaxResults": number,
    "NextToken": "string",
    "State": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 233)

One or more filters to limit the type of sessions returned by the request.

Type: Array of SessionFilter (p. 807) objects

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Required: No

MaxResults (p. 233)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 233)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

State (p. 233)

The session status to retrieve a list of sessions for. For example, "Active".

Type: String
Valid Values: Active | History
Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Sessions": [
    {
      "Details": "string",
      "DocumentName": "string",
      "EndDate": number,
      "OutputUrl": {
        "CloudWatchOutputUrl": "string",
        "S3OutputUrl": "string"
      },
      "Owner": "string",
      "SessionId": "string",
      "StartDate": number,
      "Status": "string",
      "Target": "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. 234)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

**Sessions (p. 234)**

A list of sessions meeting the request parameters.

Type: Array of Session (p. 805) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400
**Examples**

**Example**

This example illustrates one usage of DescribeSessions.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.DescribeSessions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T175636Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 20

{
    "State": "History"
}
```

**Sample Response**

```
{
    "Sessions": [
    {
        "EndDate": 1582069847.807,
        "OutputUrl": {
        },
        "Owner": "arn:aws:iam::111122223333:user/Mary-Major",
        "SessionId": "Mary-Major-0ab177d470EXAMPLE",
        "StartDate": 1582068633.188,
        "Status": "Terminated",
        "Target": "i-07782c72faEXAMPLE"
    }
    // There may be more content here
}
```

**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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DisassociateOpsItemRelatedItem

Deletes the association between an OpsItem and a related resource. For example, this API action can delete an Incident Manager incident from an OpsItem. Incident Manager is a capability of AWS Systems Manager.

Request Syntax

```json
{
  "AssociationId": "string",
  "OpsItemId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationId (p. 237)**

- The ID of the association for which you want to delete an association between the OpsItem and a related resource.
- Type: String
- Required: Yes

**OpsItemId (p. 237)**

- The ID of the OpsItem for which you want to delete an association between the OpsItem and a related resource.
- Type: String
- Pattern: ^\(oi\)-[0-9a-f]{12}$
- 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. 823).

- **InternalServerError**
  - An error occurred on the server side.
  - HTTP Status Code: 500
- **OpsItemInvalidParameterException**
  - A specified parameter argument isn't valid. Verify the available arguments and try again.
HTTP Status Code: 400

**OpsItemNotFoundException**

The specified OpsItem ID doesn't exist. Verify the ID and try again.

HTTP Status Code: 400

**OpsItemRelatedItemAssociationNotFoundException**

The association was not found using the parameters you specified in the call. Verify the information and try again.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetAutomationExecution

Get detailed information about a particular Automation execution.

Request Syntax

```
{
    "AutomationExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AutomationExecutionId (p. 239)**

The unique identifier for an existing automation execution to examine. The execution ID is returned by StartAutomationExecution when the execution of an Automation document is initiated.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

Response Syntax

```
{
    "AutomationExecution": {
        "AssociationId": "string",
        "AutomationExecutionId": "string",
        "AutomationExecutionStatus": "string",
        "AutomationSubtype": "string",
        "ChangeRequestName": "string",
        "CurrentAction": "string",
        "CurrentStepName": "string",
        "DocumentName": "string",
        "DocumentVersion": "string",
        "ExecutedBy": "string",
        "ExecutionEndTime": number,
        "ExecutionStartTime": number,
        "FailureMessage": "string",
        "MaxConcurrency": "string",
        "MaxErrors": "string",
        "Mode": "string",
        "OpsItemId": "string",
        "Outputs": {
            "string": [ "string" ]
        },
        "Parameters": {
            "string": [ "string" ]
        },
        "ParentAutomationExecutionId": "string",
        "ProgressCounters": {
            "CancelledSteps": number,
```
"FailedSteps": number,
"SuccessSteps": number,
"TimedOutSteps": number,
"TotalSteps": number
},
"ResolvedTargets": {
  "ParameterValues": [ "string" ],
  "Truncated": boolean
},
"Runbooks": [
  {
    "DocumentName": "string",
    "DocumentVersion": "string",
    "MaxConcurrency": "string",
    "MaxErrors": "string",
    "Parameters": {
      "string": [ "string" ]
    },
    "TargetLocations": {
      "Accounts": [ "string" ],
      "ExecutionRoleName": "string",
      "Regions": [ "string" ],
      "TargetLocationMaxConcurrency": "string",
      "TargetLocationMaxErrors": "string"
    }
  }
],
"TargetParameterName": "string",
"Targets": [ {
  "Key": "string",
  "Values": [ "string" ]
}],
"ScheduledTime": number,
"StepExecutions": [
  {
    "Action": "string",
    "ExecutionEndTime": number,
    "ExecutionStartTime": number,
    "FailureDetails": { "Details": [ "string" ] },
    "FailureStage": "string",
    "FailureType": "string"
  },
  "FailureMessage": "string",
  "Inputs": { "string": "string" },
  "IsCritical": boolean,
  "IsEnd": boolean,
  "MaxAttempts": number,
  "NextStep": "string",
  "OnFailure": "string",
  "Outputs": { "string": [ "string" ] },
  "OverriddenParameters": { "string": [ "string" ] },
  "Response": "string",
  "ResponseCode": "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.

**AutomationExecution (p. 239)**

Detailed information about the current state of an automation execution.

Type: AutomationExecution (p. 593) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).
AutomationExecutionNotFoundException

There is no automation execution information for the requested automation execution ID.
HTTP Status Code: 400

InternalServerError

An error occurred on the server side.
HTTP Status Code: 500

Examples

Example

This example illustrates one usage of GetAutomationExecution.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetAutomationExecution
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T185532Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 65

{
  "AutomationExecutionId":"8a5f5be8-5d93-437a-adbb-394f7EXAMPLE"
}
```

Sample Response

```
{
  "AutomationExecution":{
    "AutomationExecutionId":"8a5f5be8-5d93-437a-adbb-394f7EXAMPLE",
    "AutomationExecutionStatus":"Success",
    "DocumentName":"CreateImage",
    "DocumentVersion":"1",
    "ExecutedBy":"arn:aws:sts::111122223333:assumed-role/Example",
    "ExecutionEndTime":1.585062669053E9,
    "ExecutionStartTime":1.585061570827E9,
    "Mode":"Auto",
    "Outputs":{
    }
  },
  "Parameters":{
    "InstanceId":[
    "i-02573caf3fEXAMPLE"
  ],
  },
  "ResolvedTargets":{
    "ParameterValues":[
    ]
  }
}
```
"Truncated":false
},
"StepExecutions":[
{
  "Action":"aws:createImage",
  "ExecutionEndTime":1.585062668968E9,
  "ExecutionStartTime":1.585061571144E9,
  "Inputs":{
    "ImageDescription":"AMI for i-02573cafcfEXAMPLE created on 2020-03-24_14.52.51",
    "ImageName":"i-02573cafcfEXAMPLE-2020-03-24_14.52.51",
    "InstanceId":"i-02573cafcfEXAMPLE",
    "NoReboot":"false"
  },
  "OnFailure":"Abort",
  "Outputs":{
    "ImageId":[
      "ami-0f4706cb37EXAMPLE"
    ],
    "ImageState":[
      "available"
    ],
    "OutputPayload":{
      "ImageId":"ami-0f4706cb37EXAMPLE","ImageState":"available""
    }
  },
  "OverriddenParameters":{
  },
  "StepExecutionId":"eff80946-356d-4128-97b2-6a0f5EXAMPLE",
  "StepName":"createImage",
  "StepStatus":"Success"
},
"StepExecutionsTruncated":false,
"Targets":[]
]}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetCalendarState

Gets the state of the AWS Systems Manager Change Calendar at an optional, specified time. If you specify a time, GetCalendarState returns the state of the calendar at a specific time, and returns the next time that the Change Calendar state will transition. If you do not specify a time, GetCalendarState assumes the current time. Change Calendar entries have two possible states: OPEN or CLOSED.

If you specify more than one calendar in a request, the command returns the status of OPEN only if all calendars in the request are open. If one or more calendars in the request are closed, the status returned is CLOSED.

For more information about Systems Manager Change Calendar, see AWS Systems Manager Change Calendar in the AWS Systems Manager User Guide.

Request Syntax

```
{
    "AtTime": "string",
    "CalendarNames": [ "string"]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AtTime (p. 244)**

(Optional) The specific time for which you want to get calendar state information, in ISO 8601 format. If you do not add AtTime, the current time is assumed.

Type: String

Required: No

**CalendarNames (p. 244)**

The names or Amazon Resource Names (ARNs) of the Systems Manager documents that represent the calendar entries for which you want to get the state.

Type: Array of strings

Required: Yes

Response Syntax

```
{
    "AtTime": "string",
    "NextTransitionTime": "string",
    "State": "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.

**AtTime (p. 244)**

The time, as an ISO 8601 string, that you specified in your command. If you did not specify a time, GetCalendarState uses the current time.

Type: String

**NextTransitionTime (p. 244)**

The time, as an ISO 8601 string, that the calendar state will change. If the current calendar state is OPEN, NextTransitionTime indicates when the calendar state changes to CLOSED, and vice-versa.

Type: String

**State (p. 244)**

The state of the calendar. An OPEN calendar indicates that actions are allowed to proceed, and a CLOSED calendar indicates that actions are not allowed to proceed.

Type: String

Valid Values: OPEN | CLOSED

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentType**

The document type is not valid. Valid document types are described in the DocumentType property.

HTTP Status Code: 400

**UnsupportedCalendarException**

The calendar entry contained in the specified Systems Manager document is not supported.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of GetCalendarState.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetCalendarState
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200224T191829Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 67

{
    "CalendarNames": [
        "MyCalendar"
    ],
    "AtTime": "2020-02-25T19:05:47Z"
}

Sample Response

{
    "AtTime": "2020-02-25T19:05:47Z",
    "State": "OPEN"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetCommandInvocation

Returns detailed information about command execution for an invocation or plugin.

GetCommandInvocation only gives the execution status of a plugin in a document. To get the command execution status on a specific instance, use ListCommandInvocations (p. 352). To get the command execution status across instances, use ListCommands (p. 357).

Request Syntax

```json
{
    "CommandId": "string",
    "InstanceId": "string",
    "PluginName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

CommandId (p. 247)

(Required) The parent command ID of the invocation plugin.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

InstanceId (p. 247)

(Required) The ID of the managed instance targeted by the command. A managed instance can be an Amazon Elastic Compute Cloud (Amazon EC2) instance or an instance in your hybrid environment that is configured for AWS Systems Manager.

Type: String

Pattern: (^i-(\w{8}|-\w{17})$)|(^mi-\w{17}$)

Required: Yes

PluginName (p. 247)

The name of the plugin for which you want detailed results. If the document contains only one plugin, you can omit the name and details for that plugin. If the document contains more than one plugin, you must specify the name of the plugin for which you want to view details.

Plugin names are also referred to as step names in Systems Manager documents. For example, aws:RunShellScript is a plugin.

To find the PluginName, check the document content and find the name of the plugin. Alternatively, use ListCommandInvocations (p. 352) with the CommandId and Details parameters. The PluginName is the Name attribute of the CommandPlugin object in the CommandPlugins list.
Response Syntax

```json
{
    "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "string",
        "CloudWatchOutputEnabled": boolean
    },
    "CommandId": "string",
    "Comment": "string",
    "DocumentName": "string",
    "DocumentVersion": "string",
    "ExecutionElapsedTime": "string",
    "ExecutionEndDateTime": "string",
    "ExecutionStartDateTime": "string",
    "InstanceId": "string",
    "PluginName": "string",
    "ResponseCode": number,
    "StandardErrorContent": "string",
    "StandardErrorUrl": "string",
    "StandardOutputContent": "string",
    "StandardOutputUrl": "string",
    "Status": "string",
    "StatusDetails": "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.

**CloudWatchOutputConfig (p. 248)**

CloudWatch Logs information where Systems Manager sent the command output.

- Type: [CloudWatchOutputConfig (p. 607)](#) object

**CommandId (p. 248)**

The parent command ID of the invocation plugin.

- Type: String
- Length Constraints: Fixed length of 36.

**Comment (p. 248)**

The comment text for the command.

- Type: String
- Length Constraints: Maximum length of 100.

**DocumentName (p. 248)**

The name of the document that was run. For example, **AWS-RunShellScript**.
**DocumentVersion (p. 248)**

The SSM document version used in the request.

Type: String

Pattern: `^[\$]\{LATEST|\$DEFAULT|^[1-9][0-9]*$`

**ExecutionElapsedTime (p. 248)**

Duration since **ExecutionStartDateTime**.

Type: String

Pattern: `^(-)?\d{4}(?!\d{2}\b)(([01]\d|2[0-3]):?([0-5]\d)|24:00)(([.,]\d(?!:))|)([zZ]|((-)[01]\d|2[0-3]):([0-5]\d)))?$`

**ExecutionEndDateTime (p. 248)**

The date and time the plugin finished running. Date and time are written in ISO 8601 format. For example, June 7, 2017 is represented as 2017-06-7. The following sample AWS CLI command uses the **InvokedAfter** filter.

```bash
aws ssm list-commands --filters key=InvokedAfter,value=2017-06-07T00:00:00Z
```

If the plugin has not started to run, the string is empty.

Type: String

Pattern: `^(-)?\d{4}(?!\d{2}\b)(([01]\d|2[0-3]):?([0-5]\d)|24:00)(([.,]\d(?!:))|)([zZ]|((-)[01]\d|2[0-3]):([0-5]\d)))?$`

**ExecutionStartDateTime (p. 248)**

The date and time the plugin started running. Date and time are written in ISO 8601 format. For example, June 7, 2017 is represented as 2017-06-7. The following sample AWS CLI command uses the **InvokedBefore** filter.

```bash
aws ssm list-commands --filters key=InvokedBefore,value=2017-06-07T00:00:00Z
```

If the plugin has not started to run, the string is empty.

Type: String

Pattern: `^(-)?\d{4}(?!\d{2}\b)(([01]\d|2[0-3]):?([0-5]\d)|24:00)(([.,]\d(?!:))|)([zZ]|((-)[01]\d|2[0-3]):([0-5]\d)))?$`

**InstanceId (p. 248)**

The ID of the managed instance targeted by the command. A managed instance can be an EC2 instance or an instance in your hybrid environment that is configured for Systems Manager.

Type: String

Pattern: `^i-(\w{8}|-\w{17})$|(^mi-\w{17}$)`
**PluginName (p. 248)**

The name of the plugin, or step name, for which details are reported. For example, `aws:RunShellScript` is a plugin.

Type: String


**ResponseCode (p. 248)**

The error level response code for the plugin script. If the response code is -1, then the command has not started running on the instance, or it was not received by the instance.

Type: Integer

**StandardErrorContent (p. 248)**

The first 8,000 characters written by the plugin to stderr. If the command has not finished running, then this string is empty.

Type: String

Length Constraints: Maximum length of 8000.

**StandardErrorUrl (p. 248)**

The URL for the complete text written by the plugin to stderr. If the command has not finished running, then this string is empty.

Type: String

**StandardOutputContent (p. 248)**

The first 24,000 characters written by the plugin to stdout. If the command has not finished running, if ExecutionStatus is neither Succeeded nor Failed, then this string is empty.

Type: String

Length Constraints: Maximum length of 24000.

**StandardOutputUrl (p. 248)**

The URL for the complete text written by the plugin to stdout in Amazon Simple Storage Service (Amazon S3). If an S3 bucket was not specified, then this string is empty.

Type: String

**Status (p. 248)**

The status of this invocation plugin. This status can be different than StatusDetails.

Type: String

Valid Values: Pending | InProgress | Delayed | Success | Cancelled | TimedOut | Failed | Cancelling

**StatusDetails (p. 248)**

A detailed status of the command execution for an invocation. StatusDetails includes more information than Status because it includes states resulting from error and concurrency control parameters. StatusDetails can show different results than Status. For more information about these statuses, see Understanding command statuses in the AWS Systems Manager User Guide. StatusDetails can be one of the following values:

- Pending: The command has not been sent to the instance.
• In Progress: The command has been sent to the instance but has not reached a terminal state.
• Delayed: The system attempted to send the command to the target, but the target was not available. The instance might not be available because of network issues, because the instance was stopped, or for similar reasons. The system will try to send the command again.
• Success: The command or plugin ran successfully. This is a terminal state.
• Delivery Timed Out: The command was not delivered to the instance before the delivery timeout expired. Delivery timeouts do not count against the parent command's `MaxErrors` limit, but they do contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
• Execution Timed Out: The command started to run on the instance, but the execution was not complete before the timeout expired. Execution timeouts count against the `MaxErrors` limit of the parent command. This is a terminal state.
• Failed: The command wasn't run successfully on the instance. For a plugin, this indicates that the result code was not zero. For a command invocation, this indicates that the result code for one or more plugins was not zero. Invocation failures count against the `MaxErrors` limit of the parent command. This is a terminal state.
• Canceled: The command was terminated before it was completed. This is a terminal state.
• Undeliverable: The command can't be delivered to the instance. The instance might not exist or might not be responding. Undeliverable invocations don't count against the parent command's `MaxErrors` limit and don't contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
• Terminated: The parent command exceeded its `MaxErrors` limit and subsequent command invocations were canceled by the system. This is a terminal state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidCommandId**

The specified command ID is not valid. Verify the ID and try again.

HTTP Status Code: 400

**InvalidInstanceId**

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400
InvalidPluginName
The plugin name is not valid.
HTTP Status Code: 400

InvocationDoesNotExist
The command ID and instance ID you specified did not match any invocations. Verify the command ID and the instance ID and try again.
HTTP Status Code: 400

Examples

Example
This example illustrates one usage of GetCommandInvocation.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetCommandInvocation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200220T235111Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200220/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 90

{
  "CommandId": "32d70fe0-ddbc-4a4e-943f-ffbcEXAMPLE",
  "InstanceId": "i-02573cafcfEXAMPLE"
}
```

Sample Response

```plaintext
{
  "CloudWatchOutputConfig": {
    "CloudWatchLogGroupName": "",
    "CloudWatchOutputEnabled": false
  },
  "CommandId": "32d70fe0-ddbc-4a4e-943f-ffbcEXAMPLE",
  "Comment": "b48291dd-ba76-43e0-b9df-13e11ddac26:6960febb-2907-4b59-8e1a-d6ce8EXAMPLE",
  "DocumentName": "AWS-UpdateSSMAgent",
  "DocumentVersion": "",
  "ExecutionElapsedTime": "PT44.002S",
  "ExecutionEndDateTime": "2020-02-20T23:35:26.758Z",
  "ExecutionStartDateTime": "2020-02-20T23:34:42.758Z",
  "InstanceId": "i-02573cafcfEXAMPLE",
  "PluginName": "aws:updateSsmAgent",
  "ResponseCode": 0,
  "StandardErrorContent": "",
  "StandardErrorUrl": "",
  "StandardOutputContent": "Updating amazon-ssm-agent from 2.3.842.0 to latest
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetConnectionStatus

Retrieves the Session Manager connection status for an instance to determine whether it is running and ready to receive Session Manager connections.

Request Syntax

```json
{
    "Target": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Target (p. 254)**

The ID of the instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 400.

Required: Yes

Response Syntax

```json
{
    "Status": "string",
    "Target": "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.

**Status (p. 254)**

The status of the connection to the instance. For example, 'Connected' or 'Not Connected'.

Type: String

Valid Values: Connected | NotConnected

**Target (p. 254)**

The ID of the instance to check connection status.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of GetConnectionStatus.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetConnectionStatus
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T180655Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 33

{
  "Target": "i-02573cafcfEXAMPLE"
}
```

Sample Response

```
{
  "Status": "connected",
  "Target": "i-02573cafcfEXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetDefaultPatchBaseline

Retrieves the default patch baseline. Note that Systems Manager supports creating multiple default patch baselines. For example, you can create a default patch baseline for each operating system.

If you do not specify an operating system value, the default patch baseline for Windows is returned.

Request Syntax

```
{
    "OperatingSystem": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**OperatingSystem (p. 257)**

Returns the default patch baseline for the specified operating system.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

Required: No

Response Syntax

```
{
    "BaselineId": "string",
    "OperatingSystem": "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.

**BaselineId (p. 257)**

The ID of the default patch baseline.

Type: String


Pattern: ^[a-zA-Z0-9\-_\.\/]\{20,128\}$
OperatingSystem (p. 257)

The operating system for the returned patch baseline.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerErrors

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of GetDefaultPatchBaseline.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 35
X-Amz-Target: AmazonSSM.GetDefaultPatchBaseline
X-Amz-Date: 20180309T025228Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "OperatingSystem": "AMAZON_LINUX"
}
```

Sample Response

```
{
  "BaselineId": "arn:aws:ssm:us-east-2:111122233333:patchbaseline/pb-0c10e65780EXAMPLE",
  "OperatingSystem": "AMAZON_LINUX"
}
```

See Also

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

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

Retrieves the current snapshot for the patch baseline the instance uses. This API is primarily used by the AWS-RunPatchBaseline Systems Manager document.

**Request Syntax**

```json
{
    "BaselineOverride": {
        "ApprovalRules": {
            "PatchRules": [
                {
                    "ApproveAfterDays": number,
                    "ApproveUntilDate": "string",
                    "ComplianceLevel": "string",
                    "EnableNonSecurity": boolean,
                    "PatchFilterGroup": {
                        "PatchFilters": [
                            {
                                "Key": "string",
                                "Values": [ "string" ]
                            }
                        ]
                    }
                }
            ]
        },
        "ApprovedPatches": [ "string" ],
        "ApprovedPatchesComplianceLevel": "string",
        "ApprovedPatchesEnableNonSecurity": boolean,
        "GlobalFilters": {
            "PatchFilters": [
                {
                    "Key": "string",
                    "Values": [ "string" ]
                }
            ]
        },
        "OperatingSystem": "string",
        "RejectedPatches": [ "string" ],
        "RejectedPatchesAction": "string",
        "Sources": [
            {
                "Configuration": "string",
                "Name": "string",
                "Products": [ "string" ]
            }
        ],
        "InstanceId": "string",
        "SnapshotId": "string"
    }
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.
BaselineOverride (p. 260)

Defines the basic information about a patch baseline override.

Type: BaselineOverride (p. 605) object

Required: No

InstanceId (p. 260)

The ID of the instance for which the appropriate patch snapshot should be retrieved.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: Yes

SnapshotId (p. 260)

The user-defined snapshot ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Required: Yes

Response Syntax

```json
{
    "InstanceId": "string",
    "Product": "string",
    "SnapshotDownloadUrl": "string",
    "SnapshotId": "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.

InstanceId (p. 261)

The ID of the instance.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Product (p. 261)

Returns the specific operating system (for example Windows Server 2012 or Amazon Linux 2015.09) on the instance for the specified patch snapshot.

Type: String
SnapshotDownloadUrl (p. 261)

A pre-signed Amazon S3 URL that can be used to download the patch snapshot.

Type: String

SnapshotId (p. 261)

The user-defined snapshot ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerException

An error occurred on the server side.

HTTP Status Code: 500

UnsupportedFeatureRequiredException

Microsoft application patching is only available on EC2 instances and advanced instances. To patch Microsoft applications on on-premises servers and VMs, you must enable advanced instances. For more information, see Using the advanced-instances tier in the AWS Systems Manager User Guide.

HTTP Status Code: 400

UnsupportedOperatingSystem

The operating systems you specified is not supported, or the operation is not supported for the operating system.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDocument

Gets the contents of the specified Systems Manager document.

Request Syntax

```json
{
    "DocumentFormat": "string",
    "DocumentVersion": "string",
    "Name": "string",
    "VersionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentFormat (p. 263)**

Returns the document in the specified format. The document format can be either JSON or YAML. JSON is the default format.

Type: String

Valid Values: YAML | JSON | TEXT

Required: No

**DocumentVersion (p. 263)**

The document version for which you want information.

Type: String

Pattern: ([$]LATEST|[$]DEFAULT|^\[1-9]\[0-9]*$)

Required: No

**Name (p. 263)**

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_\-./\:]{3,128}$

Required: Yes

**VersionName (p. 263)**

An optional field specifying the version of the artifact associated with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document and can't be changed.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{1,128}$

Required: No
Response Syntax

```
{
  "AttachmentsContent": [
    {
      "Hash": "string",
      "HashType": "string",
      "Name": "string",
      "Size": number,
      "Url": "string"
    },
  ],
  "Content": "string",
  "CreatedDate": number,
  "DisplayName": "string",
  "DocumentFormat": "string",
  "DocumentType": "string",
  "DocumentVersion": "string",
  "Name": "string",
  "Requires": [
    {
      "Name": "string",
      "Version": "string"
    }
  ],
  "ReviewStatus": "string",
  "Status": "string",
  "StatusInformation": "string",
  "VersionName": "string"
}
```

Response Elements

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

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

**AttachmentsContent (p. 264)**

A description of the document attachments, including names, locations, sizes, and so on.

Type: Array of AttachmentContent (p. 588) objects

**Content (p. 264)**

The contents of the Systems Manager document.

Type: String

Length Constraints: Minimum length of 1.

**CreatedDate (p. 264)**

The date the Systems Manager document was created.

Type: Timestamp

**DisplayName (p. 264)**

The friendly name of the Systems Manager document. This value can differ for each version of the document. If you want to update this value, see UpdateDocument (p. 503).

Type: String
Length Constraints: Maximum length of 1024.

Pattern: ^[\w\ ./\:\\]/]*$

**DocumentFormat (p. 264)**

The document format, either JSON or YAML.

Type: String

Valid Values: YAML | JSON | TEXT

**DocumentType (p. 264)**

The document type.

Type: String


**DocumentVersion (p. 264)**

The document version.

Type: String

Pattern: ([$]LATEST|[$.]DEFAULT|^[1-9][0-9]*$)

**Name (p. 264)**

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_\-./:\ ]{3,128}$

**Requires (p. 264)**

A list of SSM documents required by a document. For example, an ApplicationConfiguration document requires an ApplicationConfigurationSchema document.

Type: Array of DocumentRequires (p. 649) objects

Array Members: Minimum number of 1 item.

**ReviewStatus (p. 264)**

The current review status of a new custom Systems Manager document (SSM document) created by a member of your organization, or of the latest version of an existing SSM document.

Only one version of an SSM document can be in the APPROVED state at a time. When a new version is approved, the status of the previous version changes to REJECTED.

Only one version of an SSM document can be in review, or PENDING, at a time.

Type: String

Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED

**Status (p. 264)**

The status of the Systems Manager document, such as Creating, Active, Updating, Failed, and Deleting.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidDocumentVersion

The document version is not valid or does not exist.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetDocument.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetDocument
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T190721Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
```

Type: String

Valid Values: Creating | Active | Updating | Deleting | Failed

StatusInformation (p. 264)

A message returned by AWS Systems Manager that explains the Status value. For example, a Failed status might be explained by the StatusInformation message, "The specified S3 bucket does not exist. Verify that the URL of the S3 bucket is correct."

Type: String

VersionName (p. 264)

The version of the artifact associated with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$
Sample Response

```json
{
    "Content" : "{\n        "schemaVersion" : "1.2",
        "description" : "Update the Amazon SSM Agent to the latest version or specified version.\n        "DocumentFormat" : "JSON",
        "DocumentType" : "Command",
        "DocumentVersion" : "1",
        "Name" : "AWS-UpdateSSMAgent",
        "Status" : "Active"
    }"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInventory

Query inventory information.

Request Syntax

```json
{
   "Aggregators": [
      {
         "Aggregators": [
            "InventoryAggregator"
         ],
         "Expression": "string",
         "Groups": [
            {
               "Filters": [
                  {
                     "Key": "string",
                     "Type": "string",
                     "Values": [ "string" ]
                  }
               ],
               "Name": "string"
            }
         ]
      }
   ],
   "Filters": [
      {
         "Key": "string",
         "Type": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string",
   "ResultAttributes": [
      {
         "TypeName": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Aggregators (p. 268)**

Returns counts of inventory types based on one or more expressions. For example, if you aggregate by using an expression that uses the AWS:InstanceInformation.PlatformType type, you can see a count of how many Windows and Linux instances exist in your inventoried fleet.

Type: Array of InventoryAggregator (p. 677) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.
Required: No

**Filters (p. 268)**

One or more filters. Use a filter to return a more specific list of results.

Type: Array of `InventoryFilter (p. 682)` objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

**MaxResults (p. 268)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 268)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**ResultAttributes (p. 268)**

The list of inventory item types to return.

Type: Array of `ResultAttribute (p. 796)` objects

Array Members: Fixed number of 1 item.

Required: No

### Response Syntax

```json
{
  "Entities": [
    {
      "Data": {
        "string": {
          "CaptureTime": "string",
          "Content": [
            "string": "string"
          ],
          "ContentHash": "string",
          "SchemaVersion": "string",
          "TypeName": "string"
        }
      },
      "Id": "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.

**Entities (p. 269)**

Collection of inventory entities such as a collection of instance inventory.

Type: Array of InventoryResultEntity (p. 688) objects

**NextToken (p. 269)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAggregatorException**

The specified aggregator is not valid for inventory groups. Verify that the aggregator uses a valid inventory type such as AWS:Application or AWS:InstanceInformation.

HTTP Status Code: 400

**InvalidFilter**

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

**InvalidInventoryGroupException**

The specified inventory group is not valid.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**InvalidResultAttributeException**

The specified inventory item result attribute is not valid.

HTTP Status Code: 400

**InvalidTypeNameException**

The parameter type name is not valid.
HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetInventory.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetInventory
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T145054Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200330/us-east-2/ssm/aw4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```json
{
  "Entities": [
    {
      "Data": {
        "AWS:InstanceInformation": {
          "CaptureTime": "2020-03-30T14:00:57Z",
          "Content": [
            {
              "AgentType": "amazon-ssm-agent",
              "AgentVersion": "2.3.930.0",
              "ComputerName": "EC2AMAZ-EXAMPLE.WORKGROUP",
              "InstanceId": "i-04bf6ad63bEXAMPLE",
              "IpAddress": "172.16.0.4",
              "PlatformName": "Microsoft Windows Server 2016 Datacenter",
              "PlatformType": "Windows",
              "PlatformVersion": "10.0.14393",
              "ResourceType": "EC2Instance"
            }
          ],
          "SchemaVersion": "1.0",
          "TypeName": "AWS:InstanceInformation"
        }
      },
      "Id": "i-04bf6ad63bEXAMPLE"
    }
  ]
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInventorySchema

Return a list of inventory type names for the account, or return a list of attribute names for a specific inventory item type.

Request Syntax

```
{
   "Aggregator": boolean,
   "MaxResults": number,
   "NextToken": "string",
   "SubType": boolean,
   "TypeName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Aggregator (p. 273)**

Returns inventory schemas that support aggregation. For example, this call returns the AWS:InstanceInformation type, because it supports aggregation based on the PlatformName, PlatformType, and PlatformVersion attributes.

Type: Boolean

Required: No

**MaxResults (p. 273)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 273)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**SubType (p. 273)**

Returns the sub-type schema for a specified inventory type.

Type: Boolean

Required: No

**TypeName (p. 273)**

The type of inventory item to return.
Response Syntax

```
{
  "NextToken": "string",
  "Schemas": [
    {
      "Attributes": [
        {
          "DataType": "string",
          "Name": "string"
        }
      ],
      "DisplayName": "string",
      "TypeName": "string",
      "Version": "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. 274)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Schemas (p. 274)**

Inventory schemas returned by the request.

Type: Array of InventoryItemSchema (p. 687) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400
InvalidTypeNameException

The parameter type name is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetInventorySchema.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetInventorySchema
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T150040Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200330/us-east-2/ssm/aws4_request,
               SignedHeaders=content-type;host;x-amz-date;x-amz-target,
               Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```
{
  "Schemas": [
    {
      "Attributes": [
        {
          "DataType": "STRING",
          "Name": "Name"
        },
        {
          "DataType": "STRING",
          "Name": "ApplicationType"
        },
        {
          "DataType": "STRING",
          "Name": "Publisher"
        },
        {
          "DataType": "STRING",
          "Name": "Version"
        },
        {
          "DataType": "STRING",
          "Name": "InstalledTime"
        },
        {
          "DataType": "STRING",
          "Name": "Architecture"
        },
        {
          "DataType": "STRING",
          "Name": "URL"
        }
    ]
  }
}
```
### 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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetMaintenanceWindow

Retrieves a maintenance window.

Request Syntax

```json
{
    "WindowId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**WindowId (p. 277)**

The ID of the maintenance window for which you want to retrieve information.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

Response Syntax

```json
{
    "AllowUnassociatedTargets": boolean,
    "CreatedDate": number,
    "Cutoff": number,
    "Description": "string",
    "Duration": number,
    "Enabled": boolean,
    "EndDate": "string",
    "ModifiedDate": number,
    "Name": "string",
    "NextExecutionTime": "string",
    "Schedule": "string",
    "ScheduleOffset": number,
    "ScheduleTimezone": "string",
    "StartDate": "string",
    "WindowId": "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.
AllowUnassociatedTargets (p. 277)

Whether targets must be registered with the maintenance window before tasks can be defined for those targets.

Type: Boolean

CreatedDate (p. 277)

The date the maintenance window was created.

Type: Timestamp

Cutoff (p. 277)

The number of hours before the end of the maintenance window that Systems Manager stops scheduling new tasks for execution.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Description (p. 277)

The description of the maintenance window.

Type: String


Duration (p. 277)

The duration of the maintenance window in hours.

Type: Integer


Enabled (p. 277)

Indicates whether the maintenance window is enabled.

Type: Boolean

EndDate (p. 277)

The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to become inactive. The maintenance window will not run after this specified time.

Type: String

ModifiedDate (p. 277)

The date the maintenance window was last modified.

Type: Timestamp

Name (p. 277)

The name of the maintenance window.

Type: String


Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}$
NextExecutionTime (p. 277)

The next time the maintenance window will actually run, taking into account any specified times for
the maintenance window to become active or inactive.

Type: String

Schedule (p. 277)

The schedule of the maintenance window in the form of a cron or rate expression.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

ScheduleOffset (p. 277)

The number of days to wait to run a maintenance window after the scheduled CRON expression date
and time.

Type: Integer


ScheduleTimezone (p. 277)

The time zone that the scheduled maintenance window executions are based on, in Internet
Assigned Numbers Authority (IANA) format. For example: "America/Los_Angeles", "UTC", or "Asia/
Seoul". For more information, see the Time Zone Database on the IANA website.

Type: String

StartDate (p. 277)

The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to
become active. The maintenance window will not run before this specified time.

Type: String

WindowId (p. 277)

The ID of the created maintenance window.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch
baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in
the AWS General Reference.

HTTP Status Code: 400
InternalServerError
An error occurred on the server side.
HTTP Status Code: 500

Examples

Example
This example illustrates one usage of GetMaintenanceWindow.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 36
X-Amz-Target: AmazonSSM.GetMaintenanceWindow
X-Amz-Date: 20200312T203140Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200312/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
{
  "WindowId": "mw-0c50858d01EXAMPLE"
}
```

Sample Response

```plaintext
{
  "AllowUnassociatedTargets": true,
  "CreatedDate": 1515006912.957,
  "Cutoff": 1,
  "Duration": 6,
  "Enabled": true,
  "ModifiedDate": 1515006912.957,
  "Name": "My-Maintenance-Window",
  "Schedule": "rate(3 days)",
  "WindowId": "mw-0c50858d01EXAMPLE",
  "NextExecutionTime": "2020-02-25T00:08:15.099Z",
}
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetMaintenanceWindowExecution

Retrieves details about a specific a maintenance window execution.

**Request Syntax**

```json
{
    "WindowExecutionId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**WindowExecutionId (p. 282)**

The ID of the maintenance window execution that includes the task.

- **Type**: String
- **Length Constraints**: Fixed length of 36.
- **Pattern**: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`
- **Required**: Yes

**Response Syntax**

```json
{
    "EndTime": number,
    "StartTime": number,
    "Status": "string",
    "StatusDetails": "string",
    "TaskIds": [ "string" ],
    "WindowExecutionId": "string"
}
```

**Response Elements**

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

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

**EndTime (p. 282)**

The time the maintenance window finished running.

- **Type**: Timestamp

**StartTime (p. 282)**

The time the maintenance window started running.
Type: Timestamp

**Status (p. 282)**

The status of the maintenance window execution.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESS | FAILED | TIMED_OUT | CANCELLING | CANCELLED | SKIPPED_OVERLAPPING

**StatusDetails (p. 282)**

The details explaining the Status. Only available for certain status values.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

**TaskIds (p. 282)**

The ID of the task executions from the maintenance window execution.

Type: Array of strings

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

**WindowExecutionId (p. 282)**

The ID of the maintenance window execution.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerException**

An error occurred on the server side.

HTTP Status Code: 500
Examples

Example

This example illustrates one usage of GetMaintenanceWindowExecution.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 61
X-Amz-Target: AmazonSSM.GetMaintenanceWindowExecution
X-Amz-Date: 20180312T205830Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180312/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2EXAMPLE
{
    "WindowExecutionId": "9fac7dd9-ff21-42a5-96ad-bbc4bEXAMPLE"
}
```

Sample Response

```
{
    "EndTime": 1520887725.703,
    "StartTime": 1520887725.251,
    "Status": "SUCCESS",
    "TaskIds": [
        "4b9f371e-a820-422d-b432-8dec9EXAMPLE"
    ],
    "WindowExecutionId": "9fac7dd9-ff21-42a5-96ad-bbc4bEXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetMaintenanceWindowExecutionTask

Retrieves the details about a specific task run as part of a maintenance window execution.

Request Syntax

```json
{
  "TaskId": "string",
  "WindowExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**TaskId (p. 285)**

The ID of the specific task execution in the maintenance window task that should be retrieved.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

Required: Yes

**WindowExecutionId (p. 285)**

The ID of the maintenance window execution that includes the task.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

Required: Yes

Response Syntax

```json
{
  "EndTime": number,
  "MaxConcurrency": "string",
  "MaxErrors": "string",
  "Priority": number,
  "ServiceRole": "string",
  "StartTime": number,
  "Status": "string",
  "StatusDetails": "string",
  "TaskArn": "string",
  "TaskExecutionId": "string",
  "TaskParameters": [ ...
```
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.

End Time (p. 285)

The time the task execution completed.

Type: Timestamp

MaxConcurrency (p. 285)

The defined maximum number of task executions that could be run in parallel.

Type: String


Pattern: ^([1-9][0-9]*)|([1-9][0-9]%|100%)$

MaxErrors (p. 285)

The defined maximum number of task execution errors allowed before scheduling of the task execution would have been stopped.

Type: String


Pattern: ^([1-9][0-9]*|[0]|([1-9][0-9]%|100%)$

Priority (p. 285)

The priority of the task.

Type: Integer

Valid Range: Minimum value of 0.

ServiceRole (p. 285)

The role that was assumed when running the task.

Type: String

Start Time (p. 285)

The time the task execution started.

Type: Timestamp

Status (p. 285)

The status of the task.
Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESS | FAILED | TIMED_OUT | CANCELLING | CANCELLED | SKIPPED_OVERLAPPING

StatusDetails (p. 285)

The details explaining the Status. Only available for certain status values.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

TaskArn (p. 285)

The ARN of the task that ran.

Type: String


TaskExecutionId (p. 285)

The ID of the specific task execution in the maintenance window task that was retrieved.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

TaskParameters (p. 285)

The parameters passed to the task when it was run.

Note
TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

The map has the following format:

Key: string, between 1 and 255 characters
Value: an array of strings, each string is between 1 and 255 characters

Type: Array of string to MaintenanceWindowTaskParameterValueExpression (p. 718) object maps

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

Type (p. 285)

The type of task that was run.

Type: String

Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA

WindowExecutionId (p. 285)

The ID of the maintenance window execution that includes the task.

Type: String
Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`

## Errors

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

### DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see [Systems Manager service quotas](#) in the AWS General Reference.

HTTP Status Code: 400

### InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

## Examples

### Example

This example illustrates one usage of GetMaintenanceWindowExecutionTask.

### Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetMaintenanceWindowExecutionTask
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T001515Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 111

{
    "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef436EXAMPLE",
    "TaskId": "0c9ac961-dafdf-a94-b6c7-1bef3EXAMPLE"
}
```

### Sample Response

```
{
    "EndTime": 1582587906.268,
    "MaxConcurrency": "1",
    "MaxErrors": "1",
    "Priority": 1
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetMaintenanceWindowExecutionTaskInvocation

Retrieves information about a specific task running on a specific target.

Request Syntax

```json
{
   "InvocationId": "string",
   "TaskId": "string",
   "WindowExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

InvocationId (p. 290)

The invocation ID to retrieve.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

Required: Yes

TaskId (p. 290)

The ID of the specific task in the maintenance window task that should be retrieved.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

Required: Yes

WindowExecutionId (p. 290)

The ID of the maintenance window execution for which the task is a part.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

Required: Yes
Response Syntax

```
{
    "EndTime": number,
    "ExecutionId": "string",
    "InvocationId": "string",
    "OwnerInformation": "string",
    "Parameters": "string",
    "StartTime": number,
    "Status": "string",
    "StatusDetails": "string",
    "TaskExecutionId": "string",
    "TaskType": "string",
    "WindowExecutionId": "string",
    "WindowTargetId": "string"
}
```

Response Elements

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

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

**EndTime (p. 291)**

The time that the task finished running on the target.

Type: Timestamp

**ExecutionId (p. 291)**

The execution ID.

Type: String

**InvocationId (p. 291)**

The invocation ID.

Type: String

**OwnerInformation (p. 291)**

User-provided value to be included in any CloudWatch events raised while running tasks for these targets in this maintenance window.

Type: String


**Parameters (p. 291)**

The parameters used at the time that the task ran.

Type: String

**StartTime (p. 291)**

The time that the task started running on the target.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.
For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400
**InternalServerError**
An error occurred on the server side.

HTTP Status Code: 500

**Examples**

**Example**

This example illustrates one usage of GetMaintenanceWindowExecutionTaskInvocation.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetMaintenanceWindowExecutionTaskInvocation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T001923Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/awsiap_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 167
{
    "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef4EXAMPLE",
    "TaskId": "0c9ac961-dafd-4a94-b6c7-1bef3EXAMPLE",
    "InvocationId": "0e466033-290b-4d74-9ae0-f33e3EXAMPLE"
}
```

**Sample Response**

```plaintext
{
    "EndTime": 1582587906.166,
    "ExecutionId": "1203cf98-5a79-4ec3-97e9-12e0bEXAMPLE",
    "InvocationId": "0e466033-290b-4d74-9ae0-f33e3EXAMPLE",
    "Parameters": "{"comment": "","documentName": "AWS-ApplyPatchBaseline","instanceIds": ["i-02573cafcfEXAMPLE","i-0471e04240EXAMPLE"],"maxConcurrency":1,"maxErrors":1,"parameters": {"SnapshotId": []},"Operation": ["Install"]},"timeoutSeconds": 600",
    "StartTime": 1582587871.413,
    "Status": "SUCCESS",
    "StatusDetails": "Success",
    "TaskExecutionId": "0c9ac961-dafd-4a94-b6c7-1bef3EXAMPLE",
    "TaskType": "RUN_COMMAND",
    "WindowExecutionId": "b40a588d-32a7-4ea7-9a6b-b4ef4EXAMPLE"
}
```

**See Also**

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

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

Lists the tasks in a maintenance window.

**Note**
For maintenance window tasks without a specified target, you cannot supply values for `--max-errors` and `--max-concurrency`. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. These values do not affect the running of your task and can be ignored.

**Request Syntax**

```json
{
  "WindowId": "string",
  "WindowTaskId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**WindowId (p. 295)**

The maintenance window ID that includes the task to retrieve.

Type: String


Pattern: `^mw-[0-9a-f]{17}$`

Required: Yes

**WindowTaskId (p. 295)**

The maintenance window task ID to retrieve.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$`

Required: Yes

**Response Syntax**

```json
{
  "Description": "string",
  "LoggingInfo": {
    "S3BucketName": "string",
    "S3KeyPrefix": "string",
    "S3Region": "string"
  }
}
```
"MaxConcurrency": "string",
"MaxErrors": "string",
"Name": "string",
"Priority": number,
"ServiceRoleArn": "string",
"Targets": [
  {
    "Key": "string",
    "Values": [ "string" ]
  }
],
"TaskArn": "string",
"TaskInvocationParameters": {
  "Automation": {
    "DocumentVersion": "string",
    "Parameters": {
      "string" : [ "string" ]
    }
  },
  "Lambda": {
    "ClientContext": "string",
    "Payload": blob,
    "Qualifier": "string"
  },
  "RunCommand": {
    "CloudWatchOutputConfig": {
      "CloudWatchLogGroupName": "string",
      "CloudWatchOutputEnabled": boolean
    },
    "Comment": "string",
    "DocumentHash": "string",
    "DocumentHashType": "string",
    "DocumentVersion": "string",
    "NotificationConfig": {
      "NotificationArn": "string",
      "NotificationEvents": [ "string" ],
      "NotificationType": "string"
    },
    "OutputS3BucketName": "string",
    "OutputS3KeyPrefix": "string",
    "Parameters": {
      "string" : [ "string" ]
    },
    "ServiceRoleArn": "string",
    "TimeoutSeconds": number
  },
  "StepFunctions": {
    "Input": "string",
    "Name": "string"
  }
},
"TaskParameters": {
  "string" : {
    "Values": [ "string" ]
  }
},
"TaskType": "string",
"WindowId": "string",
"WindowTaskId": "string"}
The following data is returned in JSON format by the service.

**Description (p. 295)**

The retrieved task description.

Type: String


**LoggingInfo (p. 295)**

The location in Amazon S3 where the task results are logged.

**Note**

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: LoggingInfo (p. 691) object

**MaxConcurrency (p. 295)**

The maximum number of targets allowed to run this task in parallel.

**Note**

For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. This value does not affect the running of your task and can be ignored.

Type: String


Pattern: ^([1-9]\[0-9]*|[1-9]\%|100\%)$

**MaxErrors (p. 295)**

The maximum number of errors allowed before the task stops being scheduled.

**Note**

For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. This value does not affect the running of your task and can be ignored.

Type: String


Pattern: ^([1-9]\[0-9]*|[0]|100\%)$

**Name (p. 295)**

The retrieved task name.

Type: String


Pattern: ^[^a-zA-Z0-9_\-\.]{3,128}$
Priority (p. 295)

The priority of the task when it runs. The lower the number, the higher the priority. Tasks that have the same priority are scheduled in parallel.

Type: Integer

Valid Range: Minimum value of 0.

ServiceRoleArn (p. 295)

The ARN of the IAM service role to use to publish Amazon Simple Notification Service (Amazon SNS) notifications for maintenance window Run Command tasks.

Type: String

Targets (p. 295)

The targets where the task should run.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

TaskArn (p. 295)

The resource that the task used during execution. For RUN_COMMAND and AUTOMATION task types, the TaskArn is the Systems Manager Document name/ARN. For LAMBDA tasks, the value is the function name/ARN. For STEP_FUNCTIONS tasks, the value is the state machine ARN.

Type: String


TaskInvocationParameters (p. 295)

The parameters to pass to the task when it runs.

Type: MaintenanceWindowTaskInvocationParameters (p. 717) object

TaskParameters (p. 295)

The parameters to pass to the task when it runs.

Note

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 718) object map

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

TaskType (p. 295)

The type of task to run.

Type: String

Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA

WindowId (p. 295)

The retrieved maintenance window ID.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerException**

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of GetMaintenanceWindowTask.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetMaintenanceWindowTask
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T002532Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 92

{
  "WindowId": "mw-0c50858d01EXAMPLE",
```

"WindowTaskId": "50772993-c6b5-4a2a-8d04-7bfd7EXAMPLE"
}

Sample Response

```
{
  "MaxConcurrency": "1",
  "MaxErrors": "1",
  "Name": "MyRunCommandTask",
  "Priority": 1,
  "ServiceRoleArn": "arn:aws:iam::111122223333:role/aws-service-role/ssm.amazonaws.com/AWSServiceRoleForAmazonSSM",
  "Targets": [
    {
      "Key": "WindowTargetIds",
      "Values": [
        "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
      ]
    }
  ],
  "TaskArn": "AWS-ApplyPatchBaseline",
  "TaskInvocationParameters": {
    "RunCommand": {
      "Comment": "",
      "Parameters": {
        "Operation": ["Install"],
        "SnapshotId": [""
      ]
    },
    "TimeoutSeconds": 600
  },
  "TaskParameters": {},
  "TaskType": "RUN_COMMAND",
  "WindowId": "mw-0c50858d01EXAMPLE",
  "WindowTaskId": "50772993-c6b5-4a2a-8d04-7bfd7EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetOpsItem

Get information about an OpsItem by using the ID. You must have permission in AWS Identity and Access Management (IAM) to view information about an OpsItem. For more information, see Getting started with OpsCenter in the AWS Systems Manager User Guide.

Operations engineers and IT professionals use OpsCenter to view, investigate, and remediate operational issues impacting the performance and health of their AWS resources. For more information, see AWS Systems Manager OpsCenter in the AWS Systems Manager User Guide.

Request Syntax

```
{
  "OpsItemId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**OpsItemId (p. 301)**

The ID of the OpsItem that you want to get.

Type: String

Pattern: ^oi-[0-9a-f]{12}$

Required: Yes

Response Syntax

```
{
  "OpsItem": {
    "ActualEndTime": number,
    "ActualStartTime": number,
    "Category": "string",
    "CreatedBy": "string",
    "CreatedTime": number,
    "Description": "string",
    "LastModifiedBy": "string",
    "LastModifiedTime": number,
    "Notifications": [
      {
        "Arn": "string"
      }
    ],
    "OperationalData": {
      "string": {
        "Type": "string",
        "Value": "string"
      }
    },
    "OpsItemId": "string",
```

API Version 2014-11-06
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.

OpsItem (p. 301)

The OpsItem.

Type: OpsItem (p. 727) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

OpsItemNotFoundException

The specified OpsItem ID doesn't exist. Verify the ID and try again.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetOpsItem.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetOpsItem
Content-Type: application/x-amz-json-1.1
```
Sample Response

```json
{
  "OpsItem":{
    "Category":"Availability",
    "CreatedBy":"arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02aee51784EXAMPLE",
    "CreatedTime":1.582701517193E9,
    "Description":"CloudWatch Event Rule SSMOpsItems-SSM-maintenance-window-execution-failed was triggered. Your SSM Maintenance Window execution has failed. See below for more details.",
    "LastModifiedBy":"arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02aee51784EXAMPLE",
    "LastModifiedTime":1.582701517193E9,
    "Notifications":[
    ],
    "OperationalData":{
      "/aws/dedup":{
        "Type":"SearchableString",
        "Value":"{"dedupString":"SSMOpsItems-SSM-maintenance-window-execution-failed"}
      },
      "/aws/resources":{
        "Type":"SearchableString",
        "Value":"[{""arn":"arn:aws:ssm:us-east-2:111122223333:maintenancewindow/mw-0e357ebdc6EXAMPLE"}]
      },
      "window-execution-id":{
        "Type":"String",
        "Value":"e79e904b-0e42-43b8-a83d-b2aedEXAMPLE"
      },
      "window-id":{
        "Type":"String",
        "Value":"mw-0e357ebdc6EXAMPLE"
      }
    },
    "OpsItemId":"oi-f99f2EXAMPLE",
    "RelatedOpsItems":[
    ],
    "Severity":3,
    "Source":"SSM",
    "Status":"Open",
    "Title":"SSM Maintenance Window execution failed"
  }
}
```

See Also

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

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

View operational metadata related to an application in Application Manager.

**Request Syntax**

```json
{
   "MaxResults": number,
   "NextToken": "string",
   "OpsMetadataArn": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**MaxResults (p. 305)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 305)**

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

Type: String

Required: No

**OpsMetadataArn (p. 305)**

The Amazon Resource Name (ARN) of an OpsMetadata Object to view.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:ssm:[a-z0-9-\.]{0,63}:opsmetadata/([a-zA-Z0-9-\._\/]*)`

Required: Yes

**Response Syntax**

```json
{
   "Metadata": {
      "string": {
         "Value": "string"
      }
   }
```

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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.

**Metadata (p. 305)**

OpsMetadata for an Application Manager application.

Type: String to MetadataValue (p. 719) object map

Map Entries: Maximum number of 5 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: ^(?<!\s*$).+

**NextToken (p. 305)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**ResourceId (p. 305)**

The resource ID of the Application Manager application.

Type: String


Pattern: ^(?<!\s*$).+

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**OpsMetadataInvalidArgumentException**

One of the arguments passed is invalid.

HTTP Status Code: 400

**OpsMetadataNotFoundException**

The OpsMetadata object does not exist.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetOpsSummary

View a summary of OpsItems based on specified filters and aggregators.

Request Syntax

```json
{
   "Aggregators": [
      {
         "Aggregators": [
            "OpsAggregator"
         ],
         "AggregatorType": "string",
         "AttributeName": "string",
         "Filters": [
            {
               "Key": "string",
               "Type": "string",
               "Values": [ "string" ]
            }
         ],
         "TypeName": "string",
         "Values": { "string" : "string" }
      }
   ],
   "Filters": [
      {
         "Key": "string",
         "Type": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string",
   "ResultAttributes": [
      {
         "TypeName": "string"
      }
   ],
   "SyncName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Aggregators (p. 308)**

Optional aggregators that return counts of OpsItems based on one or more expressions.

Type: Array of OpsAggregator (p. 722) objects

Array Members: Minimum number of 1 item. Maximum number of 12 items.

Required: No
Filters (p. 308)
Optional filters used to scope down the returned OpsItems.
Type: Array of OpsFilter (p. 726) objects
Array Members: Minimum number of 1 item. Maximum number of 5 items.
Required: No

MaxResults (p. 308)
The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.
Type: Integer
Required: No

NextToken (p. 308)
A token to start the list. Use this token to get the next set of results.
Type: String
Required: No

ResultAttributes (p. 308)
The OpsItem data type to return.
Type: Array of OpsResultAttribute (p. 747) objects
Array Members: Minimum number of 1 item.
Required: No

SyncName (p. 308)
Specify the name of a resource data sync to get.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

Response Syntax

```json
{
  "Entities": [
    {
      "Data": {
        "string": {
          "CaptureTime": "string",
          "Content": [
            "string"
          ]
        }
      }
    }
  ]
}
```

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309
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.

**Entities (p. 309)**

The list of aggregated and filtered OpsItems.

Type: Array of OpsEntity (p. 724) objects

**NextToken (p. 309)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAggregatorException**

The specified aggregator is not valid for inventory groups. Verify that the aggregator uses a valid inventory type such as AWS:Application or AWS:InstanceInformation.

HTTP Status Code: 400

**InvalidFilter**

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**InvalidTypeNameException**

The parameter type name is not valid.

HTTP Status Code: 400

**ResourceDataSyncNotFoundException**

The specified sync name was not found.
HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetOpsSummary.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetOpsSummary
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T152044Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200330/us-east-2/ssm/aw4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```json
{
  "Entities": [
    {
      "Data": {
        "AWS:OpsItem": {
          "CaptureTime": "2020-02-26T05:59:57.430Z",
          "Content": {
            "AccountId": "111122223333",
            "Category": "Availability",
            "CreatedBy": "arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02eaa51784EXAMPLE",
            "CreatedTime": "2020-02-26T07:18:37.193Z",
            "Description": "CloudWatch Event Rule SSMOpsItems-SSM-maintenance-window-execution-failed was triggered.
Your SSM Maintenance Window execution has failed. See below for more details.",
            "LastModifiedBy": "arn:aws:sts::111122223333:assumed-role/OpsCenterRole/af3935bb93783f02eaa51784EXAMPLE",
            "LastModifiedTime": "2020-02-26T07:18:37.193Z",
            "Notifications": "",
            "OperationalData": "{/aws/resources":{"type":"SearchableString \"","value":\"[{\"arn\":\"arn:aws:ssm:us-east-2:111122223333:maintenancewindow/mw-0e357e6d6c6EXAMPLE\"}]}},"/aws/dedup":{"type":"SearchableString","value":"{"\"SSMOpsItems-SSM-maintenance-window-execution-failed\""}}",
            "OpsItemId": "oi-f99f2EXAMPLE",
            "RelatedItems":",
            "Severity": "3",
            "Source": "SSM",
            "Status": "Open",
            "Title": "SSM Maintenance Window execution failed"
          }
        }
      }
    }
  ],
  "Id": "oi-f99f2EXAMPLE"
},--truncated--
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Get information about a parameter by using the parameter name. Don't confuse this API action with the GetParameters (p. 320) API action.

Request Syntax

```json
{
    "Name": "string",
    "WithDecryption": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Name (p. 313)**

The name of the parameter you want to query.

Type: String

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

Required: Yes

**WithDecryption (p. 313)**

Return decrypted values for secure string parameters. This flag is ignored for String and StringList parameter types.

Type: Boolean

Required: No

Response Syntax

```json
{
    "Parameter": {
        "ARN": "string",
        "DataType": "string",
        "LastModifiedDate": number,
        "Name": "string",
        "Selector": "string",
        "SourceResult": "string",
        "Type": "string",
        "Value": "string",
        "Version": 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.

**Parameter (p. 313)**

Information about a parameter.

Type: Parameter (p. 749) object

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidKeyId**

The query key ID is not valid.

HTTP Status Code: 400

**ParameterNotFound**

The parameter could not be found. Verify the name and try again.

HTTP Status Code: 400

**ParameterVersionNotFound**

The specified parameter version was not found. Verify the parameter name and version, and try again.

HTTP Status Code: 400

---

**Examples**

**Example**

This example illustrates one usage of GetParameter.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 29
X-Amz-Target: AmazonSSM.GetParameter
X-Amz-Date: 20180316T005724Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
{
  "Name": "MyGitHubPassword"
}
```
Sample Response

```json
{
  "Parameter": {
    "ARN": "arn:aws:ssm:us-east-2:111122223333:parameter/MyGitHubPassword",
    "DataType": "text",
    "LastModifiedDate": 1582657288.8,
    "Name": "MyGitHubPassword",
    "Type": "SecureString",
    "Value": "AYA39c3b3042cd2aEXAMPLE/AKIAIOSFODNN7EXAMPLE/fh983h9awEXAMPLE==",
    "Version": 3
  }
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetParameterHistory

Retrieves the history of all changes to a parameter.

Request Syntax

```json
{
  "MaxResults": number,
  "Name": "string",
  "NextToken": "string",
  "WithDecryption": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

MaxResults (p. 316)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

Name (p. 316)

The name of the parameter for which you want to review history.

Type: String

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

Required: Yes

NextToken (p. 316)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

WithDecryption (p. 316)

Return decrypted values for secure string parameters. This flag is ignored for String and StringList parameter types.

Type: Boolean

Required: No
Response Syntax

```json
{
  "NextToken": "string",
  "Parameters": [
    {
      "AllowedPattern": "string",
      "DataType": "string",
      "Description": "string",
      "KeyId": "string",
      "Labels": [ "string" ],
      "LastModifiedDate": number,
      "LastModifiedUser": "string",
      "Name": "string",
      "Policies": [
        {
          "PolicyStatus": "string",
          "PolicyText": "string",
          "PolicyType": "string"
        }
      ],
      "Tier": "string",
      "Type": "string",
      "Value": "string",
      "Version": number
    }
  ]
}
```

Response Elements

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

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

**NextToken (p. 317)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

**Parameters (p. 317)**

A list of parameters returned by the request.

Type: Array of ParameterHistory (p. 751) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidKeyId**

The query key ID is not valid.
HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

ParameterNotFound

The parameter could not be found. Verify the name and try again.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetParameterHistory.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 29
X-Amz-Target: AmazonSSM.GetParameterHistory
X-Amz-Date: 20180316T005206Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "Name": "EC2TestServerType"
}
```

Sample Response

```json
{
    "Parameters": [
        {
            "Description": "Instance type for Test servers",
            "LastModifiedDate": 1521158745.607,
            "LastModifiedUser": "arn:aws:iam::111122223333:user/Mateo.Jackson",
            "Name": "EC2TestServerType",
            "Policies": [],
            "Type": "String",
            "Value": "t2.nano",
            "Version": 1
        },
        {
            "Description": "Instance type for Test servers",
            "LastModifiedDate": 1521158834.467,
            "LastModifiedUser": "arn:aws:iam::111122223333:user/Mateo.Jackson",
            "Name": "EC2TestServerType",
            "Policies": [],
            "Type": "String",
            "Value": "t2.micro",
            "Version": 2
        }
    ]
}
```
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 C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetParameters

Get details of a parameter. Don’t confuse this API action with the GetParameter (p. 313) API action.

Request Syntax

```
{
   "Names": [ "string" ],
   "WithDecryption": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Names (p. 320)**

Names of the parameters for which you want to query information.

Type: Array of strings

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

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

Required: Yes

**WithDecryption (p. 320)**

Return decrypted secure string value. Return decrypted values for secure string parameters. This flag is ignored for String and StringList parameter types.

Type: Boolean

Required: No

Response Syntax

```
{
   "InvalidParameters": [ "string" ],
   "Parameters": [
   {
      "ARN": "string",
      "DataType": "string",
      "LastModifiedDate": number,
      "Name": "string",
      "Selector": "string",
      "SourceResult": "string",
      "Type": "string",
      "Value": "string",
      "Version": 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.

InvalidParameters (p. 320)

A list of parameters that are not formatted correctly or do not run during an execution.

Type: Array of strings

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

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

Parameters (p. 320)

A list of details for a parameter.

Type: Array of Parameter (p. 749) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidKeyId

The query key ID is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetParameters.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 73
X-Amz-Target: AmazonSSM.GetParameters
X-Amz-Date: 20180316T001029Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/aw4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetParametersByPath

Retrieve information about one or more parameters in a specific hierarchy.

**Note**
Request results are returned on a best-effort basis. If you specify MaxResults in the request, the response includes information up to the limit specified. The number of items returned, however, can be between zero and the value of MaxResults. If the service reaches an internal limit while processing the results, it stops the operation and returns the matching values up to that point and a NextToken. You can specify the NextToken in a subsequent call to get the next set of results.

**Request Syntax**

```json
{
    "MaxResults": number,
    "NextToken": "string",
    "ParameterFilters": [
        {
            "Key": "string",
            "Option": "string",
            "Values": [ "string" ]
        }
    ],
    "Path": "string",
    "Recursive": boolean,
    "WithDecryption": boolean
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**MaxResults (p. 323)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 323)**

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

Type: String

Required: No

**ParameterFilters (p. 323)**

Filters to limit the request results.
**Note**
For `GetParametersByPath`, the following filter key names are supported: `Type`, `KeyId`, `Label`, and `DataType`.
The following key values are not supported for `GetParametersByPath`: `tag`, `Name`, `Path`, and `Tier`.

Type: Array of [ParameterStringFilter](p. 758) objects

Required: No

**Path (p. 323)**
The hierarchy for the parameter. Hierarchies start with a forward slash (/). The hierarchy is the parameter name except the last part of the parameter. For the API call to succeed, the last part of the parameter name cannot be in the path. A parameter name hierarchy can have a maximum of 15 levels. Here is an example of a hierarchy: `/Finance/Prod/IAD/WinServ2016/license33`

Type: String

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

Required: Yes

**Recursive (p. 323)**
Retrieve all parameters within a hierarchy.

**Important**
If a user has access to a path, then the user can access all levels of that path. For example, if a user has permission to access path `/a`, then the user can also access `/a/b`. Even if a user has explicitly been denied access in IAM for parameter `/a/b`, they can still call the `GetParametersByPath` API action recursively for `/a` and view `/a/b`.

Type: Boolean

Required: No

**WithDecryption (p. 323)**
Retrieve all parameters in a hierarchy with their value decrypted.

Type: Boolean

Required: No

**Response Syntax**

```json
{
    "NextToken": "string",
    "Parameters": [
        {
            "ARN": "string",
            "DataType": "string",
            "LastModifiedDate": number,
            "Name": "string",
            "Selector": "string",
            "SourceResult": "string",
            "Type": "string",
            "Value": "string",
            "Version": number
        }
    ]
}
```
Response Elements

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

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

NextToken (p. 324)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Parameters (p. 324)

A list of parameters found in the specified hierarchy.

Type: Array of Parameter (p. 749) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidFilterKey

The specified key is not valid.

HTTP Status Code: 400

InvalidFilterOption

The specified filter option is not valid. Valid options are Equals and BeginsWith. For Path filter, valid options are Recursive and OneLevel.

HTTP Status Code: 400

InvalidFilterValue

The filter value is not valid. Verify the value and try again.

HTTP Status Code: 400

InvalidKeyId

The query key ID is not valid.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of GetParametersByPath.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 46
X-Amz-Target: AmazonSSM.GetParametersByPath
X-Amz-Date: 20180316T004724Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "Path": "/Branch312/Dev/",
  "Recursive": true
}
```

Sample Response

```
{
  "Parameters": [
    
    {
      "Name": "/Branch312/Dev/Engineer1",
      "Type": "String",
      "Value": "Saanvi Sarkar",
      "Version": 1
    },
    
    {
      "Name": "/Branch312/Dev/Engineer2",
      "Type": "String",
      "Value": "Zhang Wei",
      "Version": 1
    },
    
    {
      "Name": "/Branch312/Dev/Engineer3",
      "Type": "String",
      "Value": "Alejandro Rosalez",
      "Version": 1
    },
    
    {
      "Name": "/Branch312/Dev/Intern",
      "Type": "String",
      "Value": "Nikhil Jayashankar",
      "Version": 1
    },
    
    {
      "Name": "/Branch312/Dev/TeamLead",
      "Type": "String",
      "Value": "Jane Roe",
      "Version": 1
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetPatchBaseline

Retrieves information about a patch baseline.

Request Syntax

```json
{
  "BaselineId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**BaselineId (p. 328)**

The ID of the patch baseline to retrieve.

- Type: String
- Pattern: `^[a-zA-Z0-9_\-:/]{20,128}$`
- Required: Yes

Response Syntax

```json
{
  "ApprovalRules": {
    "PatchRules": [
      {
        "ApproveAfterDays": number,
        "ApproveUntilDate": "string",
        "ComplianceLevel": "string",
        "EnableNonSecurity": boolean,
        "PatchFilterGroup": {
          "PatchFilters": [
            {
              "Key": "string",
              "Values": [ "string" ]
            }
          ]
        }
      }
    ],
    "ApprovedPatches": [ "string" ],
    "ApprovedPatchesComplianceLevel": "string",
    "ApprovedPatchesEnableNonSecurity": boolean,
    "BaselineId": "string",
    "CreatedDate": number,
    "Description": "string",
    "GlobalFilters": {
      "PatchFilters": [
```
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.

**ApprovalRules (p. 328)**

A set of rules used to include patches in the baseline.

Type: `PatchRuleGroup (p. 775)` object

**ApprovedPatches (p. 328)**

A list of explicitly approved patches for the baseline.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

**ApprovedPatchesComplianceLevel (p. 328)**

Returns the specified compliance severity level for approved patches in the patch baseline.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

**ApprovedPatchesEnableNonSecurity (p. 328)**

Indicates whether the list of approved patches includes non-security updates that should be applied to the instances. The default value is 'false'. Applies to Linux instances only.

Type: Boolean

**BaselineId (p. 328)**

The ID of the retrieved patch baseline.

Type: String


Pattern: ^[a-zA-Z0-9_:\-\_/\{20,128}]+$
**Response Elements**

**CreatedAt (p. 328)**

The date the patch baseline was created.

Type: Timestamp

**Description (p. 328)**

A description of the patch baseline.

Type: String


**GlobalFilters (p. 328)**

A set of global filters used to exclude patches from the baseline.

Type: PatchFilterGroup (p. 770) object

**ModifiedDate (p. 328)**

The date the patch baseline was last modified.

Type: Timestamp

**Name (p. 328)**

The name of the patch baseline.

Type: String


Pattern: `^[a-zA-Z0-9_\-\._]{3,128}$`

**OperatingSystem (p. 328)**

Returns the operating system specified for the patch baseline.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

**PatchGroups (p. 328)**

Patch groups included in the patch baseline.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$`

**RejectedPatches (p. 328)**

A list of explicitly rejected patches for the baseline.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

**RejectedPatchesAction (p. 328)**

The action specified to take on patches included in the RejectedPatches list. A patch can be allowed only if it is a dependency of another package, or blocked entirely along with packages that include it as a dependency.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidResourceId**

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of GetPatchBaseline.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 38
X-Amz-Target: AmazonSSM.GetPatchBaseline
X-Amz-Date: 20180309T020232Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
```
{ "BaselineId": "pb-0c10e65780EXAMPLE" }  

Sample Response


API Version 2014-11-06
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetPatchBaselineForPatchGroup

Retrieves the patch baseline that should be used for the specified patch group.

**Request Syntax**

```
{
    "OperatingSystem": "string",
    "PatchGroup": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**OperatingSystem (p. 334)**

Returns the operating system rule specified for patch groups using the patch baseline.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

Required: No

**PatchGroup (p. 334)**

The name of the patch group whose patch baseline should be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([^\{L}\{Z}\{P}\{N}\{_:/:=+-@]*)$

Required: Yes

**Response Syntax**

```
{
    "BaselineId": "string",
    "OperatingSystem": "string",
    "PatchGroup": "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.
BaselineId (p. 334)

The ID of the patch baseline that should be used for the patch group.

Type: String


Pattern: ^[a-zA-Z0-9_\-:/\{20,128}$

OperatingSystem (p. 334)

The operating system rule specified for patch groups using the patch baseline.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

PatchGroup (p. 334)

The name of the patch group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^((p{L}p{Z}p{N}_/=:+/\-@))*$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of GetPatchBaselineForPatchGroup.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 66
X-Amz-Target: AmazonSSM.GetPatchBaselineForPatchGroup
X-Amz-Date: 20180309T060906Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
```
Sample Response

```json
{
    "BaselineId": "pb-0c10e65780EXAMPLE",
    "OperatingSystem": "WINDOWS",
    "PatchGroup": "mypatchgroup"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetServiceSetting

ServiceSetting is an account-level setting for an AWS service. This setting defines how a user interacts with or uses a service or a feature of a service. For example, if an AWS service charges money to the account based on feature or service usage, then the AWS service team might create a default setting of 'false'. This means the user can't use this feature unless they change the setting to "true" and intentionally opt in for a paid feature.

Services map a SettingId object to a setting value. AWS services teams define the default value for a SettingId. You can't create a new SettingId, but you can overwrite the default value if you have the ssm:UpdateServiceSetting permission for the setting. Use the UpdateServiceSetting (p. 558) API action to change the default setting. Or use the ResetServiceSetting (p. 447) to change the value back to the original value defined by the AWS service team.

Query the current service setting for the account.

**Request Syntax**

```json
{
    "SettingId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**SettingId (p. 337)**

The ID of the service setting to get. The setting ID can be one of the following.

- /ssm/automation/customer-script-log-destination
- /ssm/automation/customer-script-log-group-name
- /ssm/documents/console/public-sharing-permission
- /ssm/parameter-store/default-parameter-tier
- /ssm/parameter-store/high-throughput-enabled
- /ssm/managed-instance/activation-tier

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: Yes

**Response Syntax**

```json
{
    "ServiceSetting": {
        "ARN": "string",
        "LastModifiedDate": number,
        "LastModifiedUser": "string",
        "SettingId": "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.

**ServiceSetting (p. 337)**

The query result of the current service setting.

Type: ServiceSetting (p. 803) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**ServiceSettingNotFound**

The specified service setting was not found. Either the service name or the setting has not been provisioned by the AWS service team.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of GetServiceSetting.

**Sample Request**

```json
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.GetServiceSetting
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200324T203339Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200324/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 54

{
  "SettingId": "/ssm/managed-instance/activation-tier"
}
```
Sample Response

```
{
    "ServiceSetting": {
        "LastModifiedDate": 1.579136114275E9,
        "LastModifiedUser": "System",
        "SettingId": "/ssm/managed-instance/activation-tier",
        "SettingValue": "standard",
        "Status": "Default"
    }
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
LabelParameterVersion

A parameter label is a user-defined alias to help you manage different versions of a parameter. When you modify a parameter, Systems Manager automatically saves a new version and increments the version number by one. A label can help you remember the purpose of a parameter when there are multiple versions.

Parameter labels have the following requirements and restrictions.

- A version of a parameter can have a maximum of 10 labels.
- You can't attach the same label to different versions of the same parameter. For example, if version 1 has the label Production, then you can't attach Production to version 2.
- You can move a label from one version of a parameter to another.
- You can't create a label when you create a new parameter. You must attach a label to a specific version of a parameter.
- If you no longer want to use a parameter label, then you can either delete it or move it to a different version of a parameter.
- A label can have a maximum of 100 characters.
- Labels can contain letters (case sensitive), numbers, periods (.), hyphens (-), or underscores (_).
- Labels can't begin with a number, "aws," or "ssm" (not case sensitive). If a label fails to meet these requirements, then the label is not associated with a parameter and the system displays it in the list of InvalidLabels.

Request Syntax

```json
{
  "Labels": [ "string" ],
  "Name": "string",
  "ParameterVersion": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Labels (p. 340)

One or more labels to attach to the specified parameter version.

Type: Array of strings

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

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

Required: Yes

Name (p. 340)

The parameter name on which you want to attach one or more labels.

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

Required: Yes

**ParameterVersion (p. 340)**

The specific version of the parameter on which you want to attach one or more labels. If no version is specified, the system attaches the label to the latest version.

Type: Long

Required: No

**Response Syntax**

```json
{
  "InvalidLabels": [ "string" ],
  "ParameterVersion": 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.

**InvalidLabels (p. 341)**

The label does not meet the requirements. For information about parameter label requirements, see Labeling parameters in the AWS Systems Manager User Guide.

Type: Array of strings

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

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

**ParameterVersion (p. 341)**

The version of the parameter that has been labeled.

Type: Long

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**ParameterNotFound**

The parameter could not be found. Verify the name and try again.

HTTP Status Code: 400
ParameterVersionLabelLimitExceeded

A parameter version can have a maximum of ten labels.

HTTP Status Code: 400

ParameterVersionNotFound

The specified parameter version was not found. Verify the parameter name and version, and try again.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of LabelParameterVersion.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.LabelParameterVersion
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T191052Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200229/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 76

{
    "Name": "MyGitHubPassword",
    "ParameterVersion": 3,
    "Labels": [
            "March-2020"
    ]
}
```

Sample Response

```
{
    "InvalidLabels": [],
    "ParameterVersion": 3
}
```

See Also

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

- AWS Command Line Interface
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListAssociations

Returns all State Manager associations in the current AWS account and Region. You can limit the results to a specific State Manager association document or instance by specifying a filter.

Request Syntax

```json
{
    "AssociationFilterList": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationFilterList (p. 344)**

One or more filters. Use a filter to return a more specific list of results.

**Note**

Filtering associations using the `InstanceID` attribute only returns legacy associations created using the `InstanceID` attribute. Associations targeting the instance that are part of the Target Attributes ResourceGroup or Tags are not returned.

Type: Array of AssociationFilter (p. 581) objects

Array Members: Minimum number of 1 item.

Required: No

**MaxResults (p. 344)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 344)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No
Response Syntax

```json
{
   "Associations": [
      {
         "AssociationId": "string",
         "AssociationName": "string",
         "AssociationVersion": "string",
         "DocumentVersion": "string",
         "InstanceId": "string",
         "LastExecutionDate": number,
         "Name": "string",
         "Overview": {
            "AssociationStatusAggregatedCount": {
               "string": number
            },
            "DetailedStatus": "string",
            "Status": "string"
         },
         "ScheduleExpression": "string",
         "Targets": [
            {
               "Key": "string",
               "Values": [ "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.

**Associations (p. 345)**

The associations.

Type: Array of [Association (p. 568)] objects

**NextToken (p. 345)**

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 823)].

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500
InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssociations.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListAssociations
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T143814Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/
aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```
{
  "Associations": [
    {
      "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE",
      "AssociationVersion": "1",
      "LastExecutionDate": 1582037438692E9,
      "Name": "AWS-UpdateSSMAgent",
      "Overview": {
        "AssociationStatusAggregatedCount": {
          "Success": 3
        },
        "DetailedStatus": "Success",
        "Status": "Success"
      },
      "Targets": [
        {
          "Key": "tag:ssm",
          "Values": [
            "true"
          ]
        }
      ]
    }
  ]
}
```

See Also

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

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

Retrieves all versions of an association for a specific association ID.

Request Syntax

```json
{
  "AssociationId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationId (p. 348)**

The association ID for which you want to view all versions.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: Yes

**MaxResults (p. 348)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 348)**

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

Type: String

Required: No

Response Syntax

```json
{
  "AssociationVersions": [  
    {
      "ApplyOnlyAtCronInterval": boolean,
      "AssociationId": "string",
      "AssociationName": "string",
      "AssociationVersion": "string"
    }
  ]
}
```
"CalendarNames": [ "string" ],
"ComplianceSeverity": "string",
"CreatedDate": number,
"DocumentVersion": "string",
"MaxConcurrency": "string",
"MaxErrors": "string",
"Name": "string",
"OutputLocation": {
  "S3Location": {
    "OutputS3BucketName": "string",
    "OutputS3KeyPrefix": "string",
    "OutputS3Region": "string"
  }
},
"Parameters": {
  "string": [ "string" ]
},
"ScheduleExpression": "string",
"SyncCompliance": "string",
"TargetLocations": [
  {
    "Accounts": [ "string" ],
    "ExecutionRoleName": "string",
    "Regions": [ "string" ],
    "TargetLocationMaxConcurrency": "string",
    "TargetLocationMaxErrors": "string"
  }
],
"Targets": [
  {
    "Key": "string",
    "Values": [ "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.

**AssociationVersions (p. 348)**

Information about all versions of the association for the specified association ID.

Type: Array of AssociationVersionInfo (p. 584) objects

Array Members: Minimum number of 1 item.

**NextToken (p. 348)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).
AssociationDoesNotExist

The specified association does not exist.
HTTP Status Code: 400

InternalServerError

An error occurred on the server side.
HTTP Status Code: 500

InvalidNextToken

The specified token is not valid.
HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssociationVersions.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListAssociationVersions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T144807Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 57

{
  "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE"
}
```

Sample Response

```
{
  "AssociationVersions": [
    {
      "ApplyOnlyAtCronInterval": false,
      "AssociationId": "fa94c678-85c6-4d40-926b-7c791EXAMPLE",
      "AssociationVersion": "1",
      "CreatedDate": 1561053271583E9,
      "Name": "AWS-UpdateSSMAgent",
      "Parameters": {
        "allowDowngrade": [
          "false"
        ],
        "version": [
          ""
        ]
      },
      "Targets": [ ]
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListCommandInvocations

An invocation is a copy of a command sent to a specific instance. A command can apply to one or more instances. A command invocation applies to one instance. For example, if a user runs SendCommand against three instances, then a command invocation is created for each requested instance ID. ListCommandInvocations provide status about command execution.

Request Syntax

```
{
  "CommandId": "string",
  "Details": boolean,
  "Filters": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "InstanceId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

CommandId (p. 352)

(Optional) The invocations for a specific command ID.

Type: String

Length Constraints: Fixed length of 36.

Required: No

Details (p. 352)

(Optional) If set this returns the response of the command executions and any command output. The default value is ‘false’.

Type: Boolean

Required: No

Filters (p. 352)

(Optional) One or more filters. Use a filter to return a more specific list of results.

Type: Array of CommandFilter (p. 613) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No
**InstanceId (p. 352)**

(Optional) The command execution details for a specific instance ID.

Type: String

Pattern: `(^i-\w{8}|\w{17}$)|(^mi-\w{17}$)

Required: No

**MaxResults (p. 352)**

(Optional) The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 352)**

(Optional) The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

---

**Response Syntax**

```json
{
  "CommandInvocations": [
    {
      "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "string",
        "CloudWatchOutputEnabled": boolean
      },
      "CommandId": "string",
      "CommandPlugins": [
        {
          "Name": "string",
          "Output": "string",
          "OutputS3BucketName": "string",
          "OutputS3KeyPrefix": "string",
          "OutputS3Region": "string",
          "ResponseCode": number,
          "ResponseFinishDateTime": number,
          "ResponseStartDateTime": number,
          "StandardErrorUrl": "string",
          "StandardOutputUrl": "string",
          "Status": "string",
          "StatusDetails": "string"
        }
      ],
      "Comment": "string",
      "DocumentName": "string",
      "DocumentVersion": "string",
      "InstanceId": "string",
      "InstanceName": "string",
      "NotificationConfig": {
        "NotificationArn": "string",
        "RecipientList": "string"
      }
    }
  ]
}
```

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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.

**CommandInvocations (p. 353)**

(Optional) A list of all invocations.

Type: Array of CommandInvocation (p. 615) objects

**NextToken (p. 353)**

(Optional) The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidCommandId**

The specified command ID is not valid. Verify the ID and try again.

HTTP Status Code: 400

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400

**InvalidInstanceId**

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.
SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListCommandInvocations.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListCommandInvocations
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T000322Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 53

{
   "CommandId": "4171bb3b-fe26-48ea-94fe-d1727b4d58e5"
}

Sample Response

{
   "CommandInvocations": [
      {
         "CloudWatchOutputConfig": {
            "CloudWatchLogGroupName": "",
            "CloudWatchOutputEnabled": false
         },
         "CommandId": "4171bb3b-fe26-48ea-94fe-d1727b4d58e5",
         "CommandPlugins": [],
         "Comment": "",
         "DocumentName": "AWS-FindWindowsUpdates",
         "DocumentVersion": "1",
         "InstanceId": "i-02573cafcf68a256",
         "InstanceName": "EXAMPLE-4J5FVEG.WORKGROUP",
         "NotificationConfig": {
            "NotificationEvents": ["All"],
            "NotificationType": "Invocation"
         }
      }
   ]
}
"RequestedDateTime": 1579893879.775,
"ServiceRole": "arn:aws:iam::11112223333:role/my-SNS-notifications-role",
"Status": "Success",
"StatusDetails": "Success"
},
{
"CloudWatchOutputConfig": {
  "CloudWatchLogGroupName": "",
  "CloudWatchOutputEnabled": false
},
"CommandId": "4171bb3b-fe26-48ea-94fe-d1727EXAMPLE",
"CommandPlugins": [],
"Comment": "",
"DocumentName": "AWS-FindWindowsUpdates",
"DocumentVersion": "1",
"InstanceId": "i-0471e04240EXAMPLE",
"InstanceName": "EXAMPLE-A1PDOM8.WORKGROUP",
"NotificationConfig": {
  "NotificationEvents": ["All"],
  "NotificationType": "Invocation"
},
"RequestedDateTime": 1579893879.6,
"ServiceRole": "arn:aws:iam::11112223333:role/my-SNS-notifications-role",
"Status": "Success",
"StatusDetails": "Success"
}
]

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListCommands

Lists the commands requested by users of the AWS account.

Request Syntax

```json
{
    "CommandId": "string",
    "Filters": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "InstanceId": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**CommandId (p. 357)**

(Optional) If provided, lists only the specified command.

Type: String

Length Constraints: Fixed length of 36.

Required: No

**Filters (p. 357)**

(Optional) One or more filters. Use a filter to return a more specific list of results.

Type: Array of CommandFilter (p. 613) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

**InstanceId (p. 357)**

(Optional) Lists commands issued against this instance ID.

**Note**

You can't specify an instance ID in the same command that you specify Status = Pending. This is because the command has not reached the instance yet.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: No
MaxResults (p. 357)

(Optional) The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 357)

(Optional) The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
  "Commands": [
    {
      "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "string",
        "CloudWatchOutputEnabled": boolean
      },
      "CommandId": "string",
      "Comment": "string",
      "CompletedCount": number,
      "DeliveryTimedOutCount": number,
      "DocumentName": "string",
      "DocumentVersion": "string",
      "ErrorCount": number,
      "ExpiresAfter": number,
      "InstanceIds": [ "string" ],
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "NotificationConfig": {
        "NotificationArn": "string",
        "NotificationEvents": [ "string" ],
        "NotificationType": "string"
      },
      "OutputS3BucketName": "string",
      "OutputS3KeyPrefix": "string",
      "OutputS3Region": "string",
      "Parameters": {
        "string": [ "string" ]
      },
      "RequestedDateTime": number,
      "ServiceRole": "string",
      "Status": "string",
      "StatusDetails": "string",
      "TargetCount": number,
      "Targets": [
        {
          "Key": "string",
          "Values": [ "string" ]
        }
      ],
      "TimeoutSeconds": number
    }
  ]
}
```

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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.

**Commands (p. 358)**

(Optional) The list of commands requested by the user.

Type: Array of Command (p. 608) objects

**NextToken (p. 358)**

(Optional) The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidCommandId**

The specified command ID is not valid. Verify the ID and try again.

HTTP Status Code: 400

**InvalidFilterKey**

The specified key is not valid.

HTTP Status Code: 400

**InvalidInstance**

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400
InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListCommands.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListCommands
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T002657Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "CommandId": "088e4813-f292-48b3-8180-d8be9EXAMPLE"
}
```

Sample Response

```
{
  "Commands": [
    {
      "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "my-log-group",
        "CloudWatchOutputEnabled": true
      },
      "CommandId": "088e4813-f292-48b3-8180-d8be9EXAMPLE",
      "Comment": ",",
      "CompletedCount": 0,
      "DeliveryTimedOutCount": 0,
      "DocumentName": "AWS-InstallMissingWindowsUpdates",
      "DocumentVersion": "1",
      "ErrorCount": 0,
      "ExpiresAfter": 1582248743.188,
      "InstanceIds": [],
      "Interactive": false,
      "MaxConcurrency": "2",
      "MaxErrors": "3",
      "NotificationConfig": {
        "NotificationEvents": ["All"],
        "NotificationType": "Command"
      },
      "OutputS3BucketName": "doc-example-bucket",
      "OutputS3BucketKey": "my-output-key"
    }
  ]
}
```
"OutputS3KeyPrefix": "my-rc-output",
"Parameters": {
    "ExcludeKbArticleIds": [
        ""
    ],
    "UpdateLevel": [
        "All"
    ]
},
"RequestedDateTime": 1582244543.188,
"ServiceRole": "arn:aws:iam::111122223333:role/my-SNS-notifications-role",
"Status": "InProgress",
"StatusDetails": "InProgress",
"TargetCount": 5,
"Targets": [
    {
        "Key": "InstanceIds",
        "Values": [
            "i-09c350ed76EXAMPLE",
            "i-07be1baa4aEXAMPLE",
            "i-00ec29b21eEXAMPLE",
            "i-09911dd90EXAMPLE",
            "i-017431b35cEXAMPLE"
        ]
    }
]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListComplianceItems

For a specified resource ID, this API action returns a list of compliance statuses for different resource types. Currently, you can only specify one resource ID per call. List results depend on the criteria specified in the filter.

Request Syntax

```json
{
   "Filters": [
      {
         "Key": "string",
         "Type": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string",
   "ResourceIds": [ "string" ],
   "ResourceTypes": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 362)**

One or more compliance filters. Use a filter to return a more specific list of results.

Type: Array of ComplianceStringFilter (p. 627) objects

Required: No

**MaxResults (p. 362)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 362)**

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

Type: String

Required: No

**ResourceIds (p. 362)**

The ID for the resources from which to get compliance information. Currently, you can only specify one resource ID.
Type: Array of strings
Array Members: Minimum number of 1 item.
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

ResourceTypes (p. 362)
The type of resource from which to get compliance information. Currently, the only supported resource type is ManagedInstance.

Type: Array of strings
Array Members: Minimum number of 1 item.
Required: No

Response Syntax

```json
{
  "ComplianceItems": [
    {
      "ComplianceType": "string",
      "Details": {
        "string": "string"
      },
      "ExecutionSummary": {
        "ExecutionId": "string",
        "ExecutionTime": number,
        "ExecutionType": "string"
      },
      "Id": "string",
      "ResourceId": "string",
      "ResourceType": "string",
      "Severity": "string",
      "Status": "string",
      "Title": "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.

ComplianceItems (p. 363)
A list of compliance information for the specified resource ID.

Type: Array of ComplianceItem (p. 623) objects

NextToken (p. 363)
The token for the next set of items to return. Use this token to get the next set of results.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilter**

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**InvalidResourceId**

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

**InvalidResourceType**

The resource type is not valid. For example, if you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of ListComplianceItems.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListComplianceItems
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T173645Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 40

{
  "ResourceIds": [
    "i-0cb99161f6EXAMPLE"
  ]
}
```
Sample Response

```json
{
    "ComplianceItems": [ 
        
        
        
    ]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListComplianceSummaries

Returns a summary count of compliant and non-compliant resources for a compliance type. For example, this call can return State Manager associations, patches, or custom compliance types according to the filter criteria that you specify.

Request Syntax

```json
{
   "Filters": [
      {
         "Key": "string",
         "Type": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 366)**

One or more compliance or inventory filters. Use a filter to return a more specific list of results.

Type: Array of ComplianceStringFilter (p. 627) objects

Required: No

**MaxResults (p. 366)**

The maximum number of items to return for this call. Currently, you can specify null or 50. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 366)**

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

Type: String

Required: No

Response Syntax

```json
{
   "ComplianceSummaryItems": [
   ...
   ]
}
```
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.

**ComplianceSummaryItems (p. 366)**

A list of compliant and non-compliant summary counts based on compliance types. For example, this call returns State Manager associations, patches, or custom compliance types according to the filter criteria that you specified.

Type: Array of ComplianceSummaryItem (p. 628) objects

**NextToken (p. 366)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServer Error**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidFilter**

The filter name is not valid. Verify the you entered the correct name and try again.
HTTP Status Code: 400
InvalidNextToken
The specified token is not valid.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of ListComplianceSummaries.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListComplianceSummaries
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T174348Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```
{
    "ComplianceSummaryItems": [
        {
            "ComplianceType": "FleetTotal",
            "CompliantSummary": {
                "CompliantCount": 1,
                "SeveritySummary": {
                    "CriticalCount": 0,
                    "HighCount": 1,
                    "InformationalCount": 0,
                    "LowCount": 0,
                    "MediumCount": 0,
                    "UnspecifiedCount": 0
                }
            },
            "NonCompliantSummary": {
                "NonCompliantCount": 2,
                "SeveritySummary": {
                    "CriticalCount": 0,
                    "HighCount": 0,
                    "InformationalCount": 0,
                    "LowCount": 0,
                    "MediumCount": 0,
                    "UnspecifiedCount": 2
                }
            }
        },
        {
            "ComplianceType": "Association",
            "CompliantSummary": {
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListDocumentMetadataHistory

Information about approval reviews for a version of an SSM document.

Request Syntax

```
{
    "DocumentVersion": "string",
    "MaxResults": number,
    "Metadata": "string",
    "Name": "string",
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentVersion (p. 371)**

The version of the document.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9][0-9]*$)

Required: No

**MaxResults (p. 371)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**Metadata (p. 371)**

The type of data for which details are being requested. Currently, the only supported value is DocumentReviews.

Type: String

Valid Values: DocumentReviews

Required: Yes

**Name (p. 371)**

The name of the document.

Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$
Required: Yes

NextToken (p. 371)
The token for the next set of items to return. (You received this token from a previous call.)
Type: String
Required: No

Response Syntax

```json
{
    "Author": "string",
    "DocumentVersion": "string",
    "Metadata": {
        "ReviewerResponse": [
            {
                "Comment": [
                    {
                        "Content": "string",
                        "Type": "string"
                    }
                ],
                "CreateTime": number,
                "Reviewer": "string",
                "ReviewStatus": "string",
                "UpdatedTime": number
            }
        ],
        "Name": "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.

Author (p. 372)
The user ID of the person in the organization who requested the document review.
Type: String

DocumentVersion (p. 372)
The version of the document.
Type: String

Pattern: ([\$]LATEST|[\$]DEFAULT|^[1-9][0-9]*)$

Metadata (p. 372)
Information about the response to the document approval request.
Type: DocumentMetadataResponseInfo (p. 647) object
Name (p. 372)
   The name of the document.
   Type: String
   Pattern: ^[\-a-zA-Z0-9._\-\.]{3,128}$

NextToken (p. 372)
   The maximum number of items to return for this call. The call also returns a token that you can
   specify in a subsequent call to get the next set of results.
   Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError
   An error occurred on the server side.
   HTTP Status Code: 500

InvalidDocument
   The specified document does not exist.
   HTTP Status Code: 400

InvalidDocumentVersion
   The document version is not valid or does not exist.
   HTTP Status Code: 400

InvalidNextToken
   The specified token is not valid.
   HTTP Status Code: 400

See Also

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

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

Returns all Systems Manager (SSM) documents in the current AWS account and Region. You can limit the results of this request by using a filter.

Request Syntax

```
{
   "DocumentFilterList": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "Filters": [
      {
         "Key": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentFilterList (p. 374)**

This data type is deprecated. Instead, use Filters.

Type: Array of DocumentFilter (p. 641) objects

Array Members: Minimum number of 1 item.

Required: No

**Filters (p. 374)**

One or more DocumentKeyValuesFilter objects. Use a filter to return a more specific list of results. For keys, you can specify one or more key-value pair tags that have been applied to a document. Other valid keys include Owner, Name, PlatformTypes, DocumentType, and TargetType. For example, to return documents you own use Key=Owner, Values=Self. To specify a custom key-value pair, use the format Key=tag:tagName,Values=valueName.

**Note**

This API action only supports filtering documents by using a single tag key and one or more tag values. For example: Key=tag:tagName,Values=valueName1,valueName2

Type: Array of DocumentKeyValuesFilter (p. 645) objects

Array Members: Minimum number of 0 items. Maximum number of 6 items.

Required: No
MaxResults (p. 374)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 374)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```
{
   "DocumentIdentifiers": [
      {
         "Author": "string",
         "CreatedDate": number,
         "Displayname": "string",
         "DocumentFormat": "string",
         "DocumentType": "string",
         "DocumentVersion": "string",
         "Name": "string",
         "Owner": "string",
         "PlatformTypes": ["string"],
         "Requires": [
            {"Name": "string",
             "Version": "string"
            }
         ],
         "ReviewStatus": "string",
         "SchemaVersion": "string",
         "Tags": [
            {"Key": "string",
             "Value": "string"
            }
         ],
         "TargetType": "string",
         "VersionName": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

The following data is returned in JSON format by the service.
DocumentIdentifiers (p. 375)

The names of the Systems Manager documents.

Type: Array of DocumentIdentifier (p. 642) objects

NextToken (p. 375)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidFilterKey

The specified key is not valid.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListDocuments.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListDocuments
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T150301Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 97

{
  "Filters":[
    {
      "Key":"Owner",
      "Values":[
```
Sample Response

```json
{
   "DocumentIdentifiers": [
      {
         "CreatedDate": 1.486594364541E9,
         "DocumentFormat": "YAML",
         "DocumentType": "Automation",
         "DocumentVersion": "1",
         "DisplayName": "ExampleDoc",
         "Name": "Example",
         "Owner": "111122223333",
         "PlatformTypes": ["Windows", "Linux"],
         "SchemaVersion": "0.3",
         "Tags": [
            {
               "Key": "DocUse",
               "Value": "Testing"
            }
         ]
      }
   ]
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListDocumentVersions

List all versions for a document.

Request Syntax

```json
{
   "MaxResults": number,
   "Name": "string",
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

MaxResults (p. 378)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

Name (p. 378)

The name of the document. You can specify an Amazon Resource Name (ARN).

Type: String

Pattern: `^[a-zA-Z0-9\-_/:\.]{3,128}$`

Required: Yes

NextToken (p. 378)

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

Response Syntax

```json
{
   "DocumentVersions": [
   {
      "CreatedDate": number,
      "DisplayName": "string",
      "DocumentFormat": "string",
      "DocumentVersion": "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.

DocumentVersions (p. 378)

- The document versions.
- Type: Array of DocumentVersionInfo (p. 654) objects
- Array Members: Minimum number of 1 item.

NextToken (p. 378)

- The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.
- Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

- An error occurred on the server side.
- HTTP Status Code: 500

InvalidDocument

- The specified document does not exist.
- HTTP Status Code: 400

InvalidNextToken

- The specified token is not valid.
- HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListDocumentVersions.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListDocumentVersions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T151751Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 30

{
  "Name":"AWS-UpdateSSMAgent"
}

Sample Response

{
  "DocumentVersions": [
    {
      "CreatedDate":1.486594364541E9,
      "DisplayName":"ExampleDoc",
      "DocumentFormat":"JSON",
      "DocumentVersion":"1",
      "IsDefaultVersion":true,
      "Name":"AWS-UpdateSSMAgent",
      "Status":"Active"
    }
  ]
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListInventoryEntries

A list of inventory items returned by the request.

Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Type": "string",
      "Values": [ "string" ]
    }
  ],
  "InstanceId": "string",
  "MaxResults": number,
  "NextToken": "string",
  "TypeName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 381)**

One or more filters. Use a filter to return a more specific list of results.

Type: Array of InventoryFilter (p. 682) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

**InstanceId (p. 381)**

The instance ID for which you want inventory information.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-$\w{17}$)

Required: Yes

**MaxResults (p. 381)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 381)**

The token for the next set of items to return. (You received this token from a previous call.)
Type: String  
Required: No

**TypeName (p. 381)**

The type of inventory item for which you want information.

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

Pattern: ^AWS|Custom:.*$

Required: Yes

Response Syntax

```
{
  "CaptureTime": "string",
  "Entries": [
    {
      "string": "string"
    }
  ],
  "InstanceId": "string",
  "NextToken": "string",
  "SchemaVersion": "string",
  "TypeName": "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.

**CaptureTime (p. 382)**

The time that inventory information was collected for the instance(s).

Type: String

Pattern: ^(20)[0-9][0-9]-(0[1-9]|1[012])-([12][0-9]|3[01]|0[1-9])(T)(2[0-3]|([0-1][0-9]|0[0-9]))(:[0-5][0-9])(:([0-5][0-9])([0-5][0-9]))(Z)$

**Entries (p. 382)**

A list of inventory items on the instance(s).

Type: Array of string to string maps

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.
InstanceId (p. 382)

The instance ID targeted by the request to query inventory information.

Type: String

Pattern: ^i-(\w{8}|\w{17})|(^mi-\w{17}$)

NextToken (p. 382)

The token to use when requesting the next set of items. If there are no additional items to return, the string is empty.

Type: String

SchemaVersion (p. 382)

The inventory schema version used by the instance(s).

Type: String

Pattern: ^([0-9]{1,6})(\.[0-9]{1,6})$

TypeName (p. 382)

The type of inventory item returned by the request.

Type: String

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

Pattern: ^(AWS|Custom):.*$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServer Error

An error occurred on the server side.

HTTP Status Code: 500

InvalidFilter

The filter name is not valid. Verify the you entered the correct name and try again.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try re Installing SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400
InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

InvalidTypeNameException

The parameter type name is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListInventoryEntries.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListInventoryEntries
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T154930Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODDN7EXAMPLE/20200330/us-east-2/ssm/****
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 68
{
  "InstanceId":"i-04bf6ad63bEXAMPLE",
  "TypeName":"AWS:Application"
}
```

Sample Response

```
{
  "CaptureTime":"2020-03-30T15:45:32Z",
  "Entries":[
    {
      "Architecture":"i386",
      "InstalledTime":"2020-01-15T00:00:00Z",
      "Name":"AWS Tools for Windows",
      "PackageId":"{2088D019-97CC-4349-BA45-9777568EAE94}"
    },
    {
      "Architecture":"i386",
      "Name":"Amazon SSM Agent",
      "PackageId":"{2a4673c2-68c6-4a4c-9be6-c3b1be96fddf}"
    },
    {
      "Architecture":"x86_64",
      "InstalledTime":"2018-10-14T00:00:00Z",
      "Name":"Amazon SSM Agent",
      "PackageId":"{2a4673c2-68c6-4a4c-9be6-c3b1be96fddf}"
    }
  ]
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Returns a list of all OpsItem events in the current AWS account and Region. You can limit the results to events associated with specific OpsItems by specifying a filter.

Request Syntax

```json
{
  "Filters": [
    {
      "Key": "string",
      "Operator": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 386)**

One or more OpsItem filters. Use a filter to return a more specific list of results.

Type: Array of OpsItemEventFilter (p. 732) objects

Required: No

**MaxResults (p. 386)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 386)**

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

Type: String

Required: No

Response Syntax

```json
{
  "NextToken": "string",
}
```
"Summaries": [
  {
    "CreatedBy": {
      "Arn": "string"
    },
    "CreatedTime": number,
    "Detail": "string",
    "DetailType": "string",
    "EventId": "string",
    "OpsItemId": "string",
    "Source": "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. 386)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

Summaries (p. 386)

A list of event information for the specified OpsItems.

Type: Array of OpsItemEventSummary (p. 733) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

OpsItemInvalidParameterException

A specified parameter argument isn't valid. Verify the available arguments and try again.

HTTP Status Code: 400

OpsItemLimitExceeded Exception

The request caused OpsItems to exceed one or more quotas. For information about OpsItem quotas, see What are the resource limits for OpsCenter?

HTTP Status Code: 400

OpsItemNotFoundException

The specified OpsItem ID doesn't exist. Verify the ID and try again.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListOpsItemRelatedItems

Lists all related-item resources associated with an OpsItem.

Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Operator": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "OpsItemId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 389)**

One or more OpsItem filters. Use a filter to return a more specific list of results.

Type: Array of OpsItemRelatedItemsFilter (p. 738) objects

Required: No

**MaxResults (p. 389)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 389)**

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

Required: No

**OpsItemId (p. 389)**

The ID of the OpsItem for which you want to list all related-item resources.

Type: String

Pattern: ^(oi)-[0-9a-f]{12}$
Response Syntax

```
{
  "NextToken": "string",
  "Summaries": [
    {
      "AssociationId": "string",
      "AssociationType": "string",
      "CreatedBy": {
        "Arn": "string"
      },
      "CreatedTime": number,
      "LastModifiedBy": {
        "Arn": "string"
      },
      "LastModifiedTime": number,
      "OpsItemId": "string",
      "ResourceType": "string",
      "ResourceUri": "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. 390)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**Summaries (p. 390)**

A list of related-item resources for the specified OpsItem.

Type: Array of `OpsItemRelatedItemSummary (p. 739)` objects

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 823)`.

**InternalServer**

An error occurred on the server side.

HTTP Status Code: 500

**OpsItemInvalidParameterException**

A specified parameter argument isn't valid. Verify the available arguments and try again.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListOpsMetadata

Systems Manager calls this API action when displaying all Application Manager OpsMetadata objects or blobs.

**Request Syntax**

```
{
  "Filters": [
  {
    "Key": "string",
    "Values": [ "string" ]
  }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Filters (p. 392)**

One or more filters to limit the number of OpsMetadata objects returned by the call.

Type: Array of OpsMetadataFilter (p. 746) objects

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

Required: No

**MaxResults (p. 392)**

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

**NextToken (p. 392)**

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

Type: String

Required: No

**Response Syntax**

```
{
```

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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. 392)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**OpsMetadataList (p. 392)**

Returns a list of OpsMetadata objects.

Type: Array of OpsMetadata (p. 744) objects

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**OpsMetadataInvalidArgumentException**

One of the arguments passed is invalid.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListResourceComplianceSummaries

Returns a resource-level summary count. The summary includes information about compliant and non-
compliant statuses and detailed compliance-item severity counts, according to the filter criteria you
specify.

Request Syntax

```json
{
  "Filters": [
    {
      "Key": "string",
      "Type": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 821).

The request accepts the following data in JSON format.

Filters (p. 395)

One or more filters. Use a filter to return a more specific list of results.

Type: Array of ComplianceStringFilter (p. 627) objects

Required: No

MaxResults (p. 395)

The maximum number of items to return for this call. The call also returns a token that you can
specify in a subsequent call to get the next set of results.

Type: Integer


Required: No

NextToken (p. 395)

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

Type: String

Required: No

Response Syntax

```
{
  "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.

NextToken (p. 395)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

ResourceComplianceSummaryItems (p. 395)

A summary count for specified or targeted managed instances. Summary count includes information about compliant and non-compliant State Manager associations, patch status, or custom items according to the filter criteria that you specify.

Type: Array of ResourceComplianceSummaryItem (p. 783) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).
Examples

Example

This example illustrates one usage of ListResourceComplianceSummaries.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListResourceComplianceSummaries
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T185225Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```
{
  "ResourceComplianceSummaryItems": [
    {
      "ComplianceType": "Association",
      "CompliantSummary": {
        "CompliantCount": 3,
        "SeveritySummary": {
          "CriticalCount": 0,
          "HighCount": 1,
          "InformationalCount": 0,
          "LowCount": 0,
          "MediumCount": 0,
          "UnspecifiedCount": 2
        }
      },
      "ExecutionSummary": {
        "ExecutionTime": 1.585766022E9
      },
      "NonCompliantSummary": {
        "NonCompliantCount": 0,
        "SeveritySummary": {
```

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"CriticalCount":0,
"HighCount":0,
"InformationalCount":0,
"LowCount":0,
"MediumCount":0,
"UnspecifiedCount":0
}
},
"OverallSeverity":"HIGH",
"ResourceId":"i-04bf6ad63bEXAMPLE",
"ResourceType":"ManagedInstance",
"Status":"COMPLIANT"
},
{
"ComplianceType":"Patch",
"CompliantSummary":{
  "CompliantCount":27,
  "SeveritySummary":{
    "CriticalCount":0,
    "HighCount":0,
    "InformationalCount":0,
    "LowCount":0,
    "MediumCount":0,
    "UnspecifiedCount":27
  }
},
"ExecutionSummary":{
  "ExecutionId":"b95523e7-28e5-488e-a753-fd1d3EXAMPLE",
  "ExecutionTime":1.58524656E9,
  "ExecutionType":"Command"
}
},
"NonCompliantSummary":{
  "NonCompliantCount":1,
  "SeveritySummary":{
    "CriticalCount":0,
    "HighCount":0,
    "InformationalCount":0,
    "LowCount":0,
    "MediumCount":0,
    "UnspecifiedCount":1
  }
},
"OverallSeverity":"UNSPECIFIED",
"ResourceId":"i-04bf6ad63bEXAMPLE",
"ResourceType":"ManagedInstance",
"Status":"NON_COMPLIANT"
}
]}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
See Also

- AWS SDK for Python
- AWS SDK for Ruby V3
ListResourceDataSync

Lists your resource data sync configurations. Includes information about the last time a sync attempted to start, the last sync status, and the last time a sync successfully completed.

The number of sync configurations might be too large to return using a single call to ListResourceDataSync. You can limit the number of sync configurations returned by using the MaxResults parameter. To determine whether there are more sync configurations to list, check the value of NextToken in the output. If there are more sync configurations to list, you can request them by specifying the NextToken returned in the call to the parameter of a subsequent call.

Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "SyncType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

MaxResults (p. 400)

- The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

  Type: Integer


  Required: No

NextToken (p. 400)

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

  Type: String

  Required: No

SyncType (p. 400)

- View a list of resource data syncs according to the sync type. Specify SyncToDestination to view resource data syncs that synchronize data to an Amazon S3 bucket. Specify SyncFromSource to view resource data syncs from AWS Organizations or from multiple AWS Regions.

  Type: String

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

  Required: No
Response Syntax

```json
{
"NextToken": "string",
"ResourceDataSyncItems": [
{
"LastStatus": "string",
"LastSuccessfulSyncTime": number,
"LastSyncStatusMessage": "string",
"LastSyncTime": number,
"S3Destination": {
  "AWSKMSKeyARN": "string",
  "BucketName": "string",
  "DestinationDataSharing": {
    "DestinationDataSharingType": "string"
  },
  "Prefix": "string",
  "Region": "string",
  "SyncFormat": "string"
},
"SyncCreatedTime": number,
"SyncLastModifiedTime": number,
"SyncName": "string",
"SyncSource": {
  "AwsOrganizationsSource": {
    "OrganizationalUnits": [
    {
      "OrganizationalUnitId": "string"
    }
    ],
    "OrganizationSourceType": "string"
  },
  "EnableAllOpsDataSources": boolean,
  "IncludeFutureRegions": boolean,
  "SourceRegions": [ "string" ],
  "SourceType": "string",
  "State": "string"
},
"SyncType": "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. 401)**

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

**ResourceDataSyncItems (p. 401)**

A list of your current Resource Data Sync configurations and their statuses.

Type: Array of ResourceDataSyncItem (p. 787) objects
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidNextToken**

The specified token is not valid.

HTTP Status Code: 400

**ResourceDataSyncInvalidConfigurationException**

The specified sync configuration is invalid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListResourceDataSync.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListResourceDataSync
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200330T143820Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200330/us-east-2/ssm/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 2
```

Sample Response

```
{
  "ResourceDataSyncItems": [
    {
      "LastStatus": "Successful",
      "LastSuccessfulSyncTime": 1.585578819829E9,
      "LastSyncStatusMessage": "The sync was successfully completed",
      "LastSyncTime": 1.585578819829E9,
      "S3Destination": {
        "BucketName": "exampleBucket",
        "Prefix": "dataSync",
        "Region": "us-east-2",
        "SyncFormat": "JsonSerDe"
      },
      "SyncCreatedTime": 1.585330479404E9,
      "SyncLastModifiedTime": 1.585330479404E9,
```

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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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTagsForResource

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

Request Syntax

```json
{
   "ResourceId": "string",
   "ResourceType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

ResourceId (p. 404)

The resource ID for which you want to see a list of tags.

Type: String

Required: Yes

ResourceType (p. 404)

Returns a list of tags for a specific resource type.

Type: String

Valid Values: Document | ManagedInstance | MaintenanceWindow | Parameter | PatchBaseline | OpsItem | OpsMetadata

Required: Yes

Response Syntax

```json
{
   "TagList": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Response Elements

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

The following data is returned in JSON format by the service.
TagList (p. 404)

A list of tags.

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidResourceId

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

InvalidResourceType

The resource type is not valid. For example, if you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListTagsForResource.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ListTagsForResource
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T003710Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 71

{
  "ResourceType": "PatchBaseline",
  "ResourceId": "pb-0c10e65780EXAMPLE"
}
```

Sample Response

```
{

}```
"TagList": [
    {
      "Key": "Platform",
      "Value": "Windows Server"
    },
    {
      "Key": "Environment",
      "Value": "Production"
    },
    {
      "Key": "Region",
      "Value": "EMEA"
    }
]}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ModifyDocumentPermission

Shares a Systems Manager document publicly or privately. If you share a document privately, you must specify the AWS user account IDs for those people who can use the document. If you share a document publicly, you must specify All as the account ID.

Request Syntax

```
{
    "AccountIdsToAdd": [ "string" ],
    "AccountIdsToRemove": [ "string" ],
    "Name": "string",
    "PermissionType": "string",
    "SharedDocumentVersion": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AccountIdsToAdd (p. 407)**

The AWS user accounts that should have access to the document. The account IDs can either be a group of account IDs or All.

Type: Array of strings

Array Members: Maximum number of 20 items.

Pattern: (?i)all|[0-9]{12}

Required: No

**AccountIdsToRemove (p. 407)**

The AWS user accounts that should no longer have access to the document. The AWS user account can either be a group of account IDs or All. This action has a higher priority than AccountIdsToAdd. If you specify an account ID to add and the same ID to remove, the system removes access to the document.

Type: Array of strings

Array Members: Maximum number of 20 items.

Pattern: (?i)all|[0-9]{12}

Required: No

**Name (p. 407)**

The name of the document that you want to share.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128}\$
Required: Yes

**PermissionType (p. 407)**

The permission type for the document. The permission type can be *Share*.

Type: String  
Valid Values: Share

Required: Yes

**SharedDocumentVersion (p. 407)**

(Optional) The version of the document to share. If it's not specified, the system choose the Default version to share.

Type: String  
Length Constraints: Maximum length of 8.

Pattern: ([$]LATEST|[$]DEFAULT|[$]ALL)

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. 823)](#).

**DocumentLimitExceeded**

You can have at most 500 active Systems Manager documents.

HTTP Status Code: 400

**DocumentPermissionLimit**

The document cannot be shared with more AWS user accounts. You can share a document with a maximum of 20 accounts. You can publicly share up to five documents. If you need to increase this limit, contact AWS Support.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidPermissionType**

The permission type is not supported. *Share* is the only supported permission type.
HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ModifyDocumentPermission.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ModifyDocumentPermission
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T152441Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/awss4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 78

{
   "Name":"Example",
   "PermissionType":"Share",
   "AccountIdsToAdd": ["44445556666"
}
```

Sample Response

```plaintext
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutComplianceItems

Registers a compliance type and other compliance details on a designated resource. This action lets you register custom compliance details with a resource. This call overwrites existing compliance information on the resource, so you must provide a full list of compliance items each time that you send the request.

ComplianceType can be one of the following:

- **ExecutionId**: The execution ID when the patch, association, or custom compliance item was applied.
- **ExecutionType**: Specify patch, association, or Custom: string.
- **ExecutionTime**: The time the patch, association, or custom compliance item was applied to the instance.
- **Id**: The patch, association, or custom compliance ID.
- **Title**: A title.
- **Status**: The status of the compliance item. For example, approved for patches, or Failed for associations.
- **Severity**: A patch severity. For example, critical.
- **DocumentName**: A SSM document name. For example, AWS-RunPatchBaseline.
- **DocumentVersion**: An SSM document version number. For example, 4.
- **Classification**: A patch classification. For example, security updates.
- **PatchBaselineId**: A patch baseline ID.
- **PatchSeverity**: A patch severity. For example, Critical.
- **PatchState**: A patch state. For example, InstancesWithFailedPatches.
- **PatchGroup**: The name of a patch group.
- **InstalledTime**: The time the association, patch, or custom compliance item was applied to the resource. Specify the time by using the following format: yyyy-MM-dd'T'HH:mm:ss'Z'

**Request Syntax**

```json
{
   "ComplianceType": "string",
   "ExecutionSummary": {
      "ExecutionId": "string",
      "ExecutionTime": number,
      "ExecutionType": "string"
   },
   "ItemContentHash": "string",
   "Items": [
      {
         "Details": {
            "string" : "string"
         },
         "Id": "string",
         "Severity": "string",
         "Status": "string",
         "Title": "string"
      }
   ],
   "ResourceId": "string",
   "ResourceType": "string",
   "UploadType": "string"
}
```

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Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ComplianceType (p. 410)**

Specify the compliance type. For example, specify Association (for a State Manager association), Patch, or Custom:

Type: String

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

Pattern: \[A-Za-z0-9_\-]\w+|Custom:[a-zA-Z0-9_\-]\w+

Required: Yes

**ExecutionSummary (p. 410)**

A summary of the call execution that includes an execution ID, the type of execution (for example, Command), and the date/time of the execution using a datetime object that is saved in the following format: yyyy-MM-dd'T'HH:mm:ss'Z'.

Type: ComplianceExecutionSummary (p. 622) object

Required: Yes

**ItemContentHash (p. 410)**

MD5 or SHA-256 content hash. The content hash is used to determine if existing information should be overwritten or ignored. If the content hashes match, the request to put compliance information is ignored.

Type: String

Length Constraints: Maximum length of 256.

Required: No

**Items (p. 410)**

Information about the compliance as defined by the resource type. For example, for a patch compliance type, Items includes information about the PatchSeverity, Classification, and so on.

Type: Array of ComplianceItemEntry (p. 625) objects

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Required: Yes

**ResourceId (p. 410)**

Specify an ID for this resource. For a managed instance, this is the instance ID.

Type: String

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

Required: Yes
**ResourceType (p. 410)**

Specify the type of resource. ManagedInstance is currently the only supported resource type.

Type: String


Required: Yes

**UploadType (p. 410)**

The mode for uploading compliance items. You can specify COMPLETE or PARTIAL. In COMPLETE mode, the system overwrites all existing compliance information for the resource. You must provide a full list of compliance items each time you send the request.

In PARTIAL mode, the system overwrites compliance information for a specific association. The association must be configured with SyncCompliance set to MANUAL. By default, all requests use COMPLETE mode.

**Note**

This attribute is only valid for association compliance.

Type: String

Valid Values: COMPLETE | PARTIAL

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. 823).

**ComplianceTypeCountLimitExceededException**

You specified too many custom compliance types. You can specify a maximum of 10 different types.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidItemContentException**

One or more content items is not valid.

HTTP Status Code: 400

**InvalidResourceId**

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400
InvalidResourceType

The resource type is not valid. For example, if you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

ItemSizeLimitExceededException

The inventory item size has exceeded the size limit.

HTTP Status Code: 400

TotalSizeLimitExceededException

The size of inventory data has exceeded the total size limit for the resource.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutInventory

Bulk update custom inventory items on one more instance. The request adds an inventory item, if it doesn't already exist, or updates an inventory item, if it does exist.

Request Syntax

```json
{
    "InstanceId": "string",
    "Items": [
        {
            "CaptureTime": "string",
            "Content": [
                "string": "string"
            ],
            "ContentHash": "string",
            "Context": {
                "string": "string"
            },
            "SchemaVersion": "string",
            "TypeName": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**InstanceId (p. 414)**

An instance ID where you want to add or update inventory items.

Type: String

Pattern: `(^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)`

Required: Yes

**Items (p. 414)**

The inventory items that you want to add or update on instances.

Type: Array of **InventoryItem (p. 684)** objects

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

Required: Yes

Response Syntax

```json
{
}```
"Message": "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.

Message (p. 414)

  Information about the request.

  Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

CustomSchemaCountLimitExceededException

  You have exceeded the limit for custom schemas. Delete one or more custom schemas and try again.

  HTTP Status Code: 400

InternalServerError

  An error occurred on the server side.

  HTTP Status Code: 500

InvalidInstanceId

  The following problems can cause this exception:

  You do not have permission to access the instance.

  SSM Agent is not running. Verify that SSM Agent is running.

  SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

  The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

  HTTP Status Code: 400

InvalidInventoryItemContextException

  You specified invalid keys or values in the Context attribute for InventoryItem. Verify the keys and values, and try again.

  HTTP Status Code: 400

InvalidItemContentException

  One or more content items is not valid.

  HTTP Status Code: 400

InvalidTypeNameException

  The parameter type name is not valid.
HTTP Status Code: 400

**ItemContentMismatchException**

The inventory item has invalid content.

HTTP Status Code: 400

**ItemSizeLimitExceededException**

The inventory item size has exceeded the size limit.

HTTP Status Code: 400

**SubTypeCountLimitExceededException**

The sub-type count exceeded the limit for the inventory type.

HTTP Status Code: 400

**TotalSizeLimitExceededException**

The size of inventory data has exceeded the total size limit for the resource.

HTTP Status Code: 400

**UnsupportedInventoryItemContextException**

The `Context` attribute that you specified for the `InventoryItem` is not allowed for this inventory type. You can only use the `Context` attribute with inventory types like AWS:ComplianceItem.

HTTP Status Code: 400

**UnsupportedInventorySchemaVersionException**

Inventory item type schema version has to match supported versions in the service. Check output of GetInventorySchema to see the available schema version for each type.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of PutInventory.

**Sample Request**

```json
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.PutInventory
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T181858Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 180

{
  "InstanceId":"i-0cb99161f6EXAMPLE",
  "Items":
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutParameter

Add a parameter to the system.

Request Syntax

```json
{
   "AllowedPattern": "string",
   "DataType": "string",
   "Description": "string",
   "KeyId": "string",
   "Name": "string",
   "Overwrite": boolean,
   "Policies": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "Tier": "string",
   "Type": "string",
   "Value": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AllowedPattern (p. 418)**

A regular expression used to validate the parameter value. For example, for String types with values restricted to numbers, you can specify the following: AllowedPattern=^\d+$

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

**DataType (p. 418)**

The data type for a String parameter. Supported data types include plain text and Amazon Machine Image IDs.

The following data type values are supported.

- text
- aws:ec2:image

When you create a String parameter and specify aws:ec2:image, Systems Manager validates the parameter value in the required format, such as ami-12345abcdeEXAMPLE, and that the specified AMI is available in your AWS account. For more information, see Native parameter support for Amazon Machine Image IDs in the AWS Systems Manager User Guide.

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

Required: No

**Description (p. 418)**

Information about the parameter that you want to add to the system. Optional but recommended.

**Important**

Do not enter personally identifiable information in this field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

**KeyId (p. 418)**

The KMS Key ID that you want to use to encrypt a parameter. Either the default AWS Key Management Service (AWS KMS) key automatically assigned to your AWS account or a custom key. Required for parameters that use the SecureString data type.

If you don't specify a key ID, the system uses the default key associated with your AWS account.

- To use your default AWS KMS key, choose the SecureString data type, and do not specify the Key ID when you create the parameter. The system automatically populates Key ID with your default KMS key.
- To use a custom KMS key, choose the SecureString data type with the Key ID parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([a-zA-Z0-9:/_\-]+)$

Required: No

**Name (p. 418)**

The fully qualified name of the parameter that you want to add to the system. The fully qualified name includes the complete hierarchy of the parameter path and name. For parameters in a hierarchy, you must include a leading forward slash character (/) when you create or reference a parameter. For example: /Dev/DBServer/MySQL/db-string13

Naming Constraints:
- Parameter names are case sensitive.
- A parameter name must be unique within an AWS Region
- A parameter name can't be prefixed with "aws" or "ssm" (case-insensitive).
- Parameter names can include only the following symbols and letters: a-zA-Z0-9_.-

In addition, the slash character (/) is used to delineate hierarchies in parameter names. For example: /Dev/Production/East/Project-ABC/MyParameter

- A parameter name can't include spaces.
- Parameter hierarchies are limited to a maximum depth of fifteen levels.

For additional information about valid values for parameter names, see Creating Systems Manager parameters in the AWS Systems Manager User Guide.

**Note**

The maximum length constraint listed below includes capacity for additional system attributes that are not part of the name. The maximum length for a parameter name,
including the full length of the parameter ARN, is 1011 characters. For example, the length of the following parameter name is 65 characters, not 20 characters:
arn:aws:ssm:us-east-2:111122223333:parameter/ExampleParameterName

Type: String

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

Required: Yes

**Overwrite (p. 418)**

Overwrite an existing parameter. The default value is ‘false’.

Type: Boolean

Required: No

**Policies (p. 418)**

One or more policies to apply to a parameter. This action takes a JSON array. Parameter Store supports the following policy types:

- **Expiration**: This policy deletes the parameter after it expires. When you create the policy, you specify the expiration date. You can update the expiration date and time by updating the policy. Updating the parameter does not affect the expiration date and time. When the expiration time is reached, Parameter Store deletes the parameter.

- **ExpirationNotification**: This policy triggers an event in Amazon CloudWatch Events that notifies you about the expiration. By using this policy, you can receive notification before or after the expiration time is reached, in units of days or hours.

- **NoChangeNotification**: This policy triggers a CloudWatch event if a parameter has not been modified for a specified period of time. This policy type is useful when, for example, a secret needs to be changed within a period of time, but it has not been changed.

All existing policies are preserved until you send new policies or an empty policy. For more information about parameter policies, see Assigning parameter policies.

Type: String


Required: No

**Tags (p. 418)**

Optional metadata that you assign to a resource. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag a Systems Manager parameter to identify the type of resource to which it applies, the environment, or the type of configuration data referenced by the parameter. In this case, you could specify the following key name/value pairs:

- Key=Resource, Value=S3bucket
- Key=OS, Value=Windows
- Key=ParameterType, Value=LicenseKey

**Note**

To add tags to an existing Systems Manager parameter, use the AddTagsToResource (p. 6) action.

Type: Array of Tag (p. 816) objects
Array Members: Maximum number of 1000 items.

Required: No

Tier (p. 418)

The parameter tier to assign to a parameter.

Parameter Store offers a standard tier and an advanced tier for parameters. Standard parameters have a content size limit of 4 KB and can't be configured to use parameter policies. You can create a maximum of 10,000 standard parameters for each Region in an AWS account. Standard parameters are offered at no additional cost.

Advanced parameters have a content size limit of 8 KB and can be configured to use parameter policies. You can create a maximum of 100,000 advanced parameters for each Region in an AWS account. Advanced parameters incur a charge. For more information, see Standard and advanced parameter tiers in the AWS Systems Manager User Guide.

You can change a standard parameter to an advanced parameter any time. But you can't revert an advanced parameter to a standard parameter. Reverting an advanced parameter to a standard parameter would result in data loss because the system would truncate the size of the parameter from 8 KB to 4 KB. Reverting would also remove any policies attached to the parameter. Lastly, advanced parameters use a different form of encryption than standard parameters.

If you no longer need an advanced parameter, or if you no longer want to incur charges for an advanced parameter, you must delete it and recreate it as a new standard parameter.

Using the Default Tier Configuration

In PutParameter requests, you can specify the tier to create the parameter in. Whenever you specify a tier in the request, Parameter Store creates or updates the parameter according to that request. However, if you do not specify a tier in a request, Parameter Store assigns the tier based on the current Parameter Store default tier configuration.

The default tier when you begin using Parameter Store is the standard-parameter tier. If you use the advanced-parameter tier, you can specify one of the following as the default:

• **Advanced**: With this option, Parameter Store evaluates all requests as advanced parameters.

• **Intelligent-Tiering**: With this option, Parameter Store evaluates each request to determine if the parameter is standard or advanced.

  If the request doesn't include any options that require an advanced parameter, the parameter is created in the standard-parameter tier. If one or more options requiring an advanced parameter are included in the request, Parameter Store create a parameter in the advanced-parameter tier.

  This approach helps control your parameter-related costs by always creating standard parameters unless an advanced parameter is necessary.

Options that require an advanced parameter include the following:

• The content size of the parameter is more than 4 KB.

• The parameter uses a parameter policy.

• More than 10,000 parameters already exist in your AWS account in the current Region.

For more information about configuring the default tier option, see Specifying a default parameter tier in the AWS Systems Manager User Guide.

Type: String

Valid Values: Standard | Advanced | Intelligent-Tiering

Required: No
Type (p. 418)

The type of parameter that you want to add to the system.

**Note**

SecureString is not currently supported for AWS CloudFormation templates.

Items in a StringList must be separated by a comma (,). You can't use other punctuation or special character to escape items in the list. If you have a parameter value that requires a comma, then use the String data type.

**Important**

Specifying a parameter type is not required when updating a parameter. You must specify a parameter type when creating a parameter.

Type: String

Valid Values: String | StringList | SecureString

Required: No

Value (p. 418)

The parameter value that you want to add to the system. Standard parameters have a value limit of 4 KB. Advanced parameters have a value limit of 8 KB.

**Note**

Parameters can't be referenced or nested in the values of other parameters. You can't include {{}} or {{ssm:parameter-name}} in a parameter value.

Type: String

Required: Yes

Response Syntax

```
{
    "Tier": "string",
    "Version": 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.

**Tier (p. 422)**

The tier assigned to the parameter.

Type: String

Valid Values: Standard | Advanced | Intelligent-Tiering

**Version (p. 422)**

The new version number of a parameter. If you edit a parameter value, Parameter Store automatically creates a new version and assigns this new version a unique ID. You can reference a parameter version ID in API actions or in Systems Manager documents (SSM documents). By
default, if you don't specify a specific version, the system returns the latest parameter value when a parameter is called.

Type: Long

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**HierarchyLevelLimitExceededException**

A hierarchy can have a maximum of 15 levels. For more information, see Requirements and constraints for parameter names in the AWS Systems Manager User Guide.

HTTP Status Code: 400

**HierarchyTypeMismatchException**

Parameter Store does not support changing a parameter type in a hierarchy. For example, you can't change a parameter from a String type to a SecureString type. You must create a new, unique parameter.

HTTP Status Code: 400

**IncompatiblePolicyException**

There is a conflict in the policies specified for this parameter. You can't, for example, specify two Expiration policies for a parameter. Review your policies, and try again.

HTTP Status Code: 400

**InternalServerException**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAllowedPatternException**

The request does not meet the regular expression requirement.

HTTP Status Code: 400

**InvalidKeyId**

The query key ID is not valid.

HTTP Status Code: 400

**InvalidPolicyAttributeException**

A policy attribute or its value is invalid.

HTTP Status Code: 400

**InvalidPolicyTypeException**

The policy type is not supported. Parameter Store supports the following policy types: Expiration, ExpirationNotification, and NoChangeNotification.

HTTP Status Code: 400

**ParameterAlreadyExists**

The parameter already exists. You can't create duplicate parameters.
HTTP Status Code: 400  
**ParameterLimitExceeded**

You have exceeded the number of parameters for this AWS account. Delete one or more parameters and try again.

HTTP Status Code: 400  
**ParameterMaxVersionLimitExceeded**

Parameter Store retains the 100 most recently created versions of a parameter. After this number of versions has been created, Parameter Store deletes the oldest version when a new one is created. However, if the oldest version has a *label* attached to it, Parameter Store will not delete the version and instead presents this error message:

An error occurred (ParameterMaxVersionLimitExceeded) when calling the PutParameter operation: You attempted to create a new version of *parameter-name* by calling the PutParameter API with the overwrite flag. Version *version-number*, the oldest version, can't be deleted because it has a label associated with it. Move the label to another version of the parameter, and try again.

This safeguard is to prevent parameter versions with mission critical labels assigned to them from being deleted. To continue creating new parameters, first move the label from the oldest version of the parameter to a newer one for use in your operations. For information about moving parameter labels, see Move a parameter label (console) or Move a parameter label (CLI) in the *AWS Systems Manager User Guide*.

HTTP Status Code: 400  
**ParameterPatternMismatchException**

The parameter name is not valid.

HTTP Status Code: 400  
**PoliciesLimitExceededException**

You specified more than the maximum number of allowed policies for the parameter. The maximum is 10.

HTTP Status Code: 400  
**TooManyUpdates**

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400  
**UnsupportedParameterType**

The parameter type is not supported.

HTTP Status Code: 400

---

**Examples**

**Example**

This example illustrates one usage of PutParameter.
Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 136
X-Amz-Target: AmazonSSM.PutParameter
X-Amz-Date: 20180316T000626Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180316/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "Overwrite": true,
    "Type": "String",
    "Name": "EC2TestServerType",
    "Value": "t2.large",
    "Description": "Instance type for Test servers"
}
```

Sample Response

```
{
    "Version": 2
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RegisterDefaultPatchBaseline

Defines the default patch baseline for the relevant operating system.

To reset the AWS predefined patch baseline as the default, specify the full patch baseline ARN as the baseline ID value. For example, for CentOS, specify `arn:aws:ssm:us-east-2:733109147000:patchbaseline/pb-0574b43a65ea646ed` instead of `pb-0574b43a65ea646ed`.

**Request Syntax**

```json
{
  "BaselineId": "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.

**BaselineId (p. 426)**

The ID of the patch baseline that should be the default patch baseline.

Type: String


Pattern: `^[a-zA-Z0-9_\-:/]{20,128}$`

Required: Yes

**Response Syntax**

```json
{
  "BaselineId": "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.

**BaselineId (p. 426)**

The ID of the default patch baseline.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidResourceId**

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RegisterDefaultPatchBaseline.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 38
X-Amz-Target: AmazonSSM.RegisterDefaultPatchBaseline
X-Amz-Date: 20180309T025821Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
{
   "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

Sample Response

```plaintext
{
   "BaselineId": "pb-0c10e65780EXAMPLE"
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RegisterPatchBaselineForPatchGroup

Registers a patch baseline for a patch group.

Request Syntax

```json
{
   "BaselineId": "string",
   "PatchGroup": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**BaselineId (p. 429)**

The ID of the patch baseline to register the patch group with.

Type: String


Pattern: ^[a-zA-Z0-9\-_/:\/]\{20,128\}$

Required: Yes

**PatchGroup (p. 429)**

The name of the patch group that should be registered with the patch baseline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^\([\p{L}\p{Z}\p{N}_.:/=+-@]*\)$

Required: Yes

Response Syntax

```json
{
   "BaselineId": "string",
   "PatchGroup": "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.
**BaselineId (p. 429)**

The ID of the patch baseline the patch group was registered with.

Type: String


Pattern: `^[a-zA-Z0-9-_\:/]{20,128}$`

**PatchGroup (p. 429)**

The name of the patch group registered with the patch baseline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}\_\-\.:]+\S)*$`

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**AlreadyExistsException**

Error returned if an attempt is made to register a patch group with a patch baseline that is already registered with a different patch baseline.

HTTP Status Code: 400

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidResourceId**

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

**ResourceLimitExceededException**

Error returned when the caller has exceeded the default resource quotas. For example, too many maintenance windows or patch baselines have been created.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of RegisterPatchBaselineForPatchGroup.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 74
X-Amz-Target: AmazonSSM.RegisterPatchBaselineForPatchGroup
X-Amz-Date: 20180309T060234Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
  "PatchGroup": "mypatchgroup",
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

Sample Response

```
{
  "PatchGroup": "mypatchgroup",
  "BaselineId": "pb-0c10e65780EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RegisterTargetWithMaintenanceWindow

Registers a target with a maintenance window.

Request Syntax

```json
{
  "ClientToken": "string",
  "Description": "string",
  "Name": "string",
  "OwnerInformation": "string",
  "ResourceType": "string",
  "Targets": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "WindowId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ClientToken (p. 432)**

User-provided idempotency token.

Type: String

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

Required: No

**Description (p. 432)**

An optional description for the target.

Type: String


Required: No

**Name (p. 432)**

An optional name for the target.

Type: String


Pattern: `^[a-zA-Z0-9-_\.]{3,128}$`

Required: No
**OwnerInformation (p. 432)**

User-provided value that will be included in any CloudWatch events raised while running tasks for these targets in this maintenance window.

Type: String


Required: No

**ResourceType (p. 432)**

The type of target being registered with the maintenance window.

Type: String

Valid Values: INSTANCE | RESOURCE_GROUP

Required: Yes

**Targets (p. 432)**

The targets to register with the maintenance window. In other words, the instances to run commands on when the maintenance window runs.

**Note**

If a single maintenance window task is registered with multiple targets, its task invocations occur sequentially and not in parallel. If your task must run on multiple targets at the same time, register a task for each target individually and assign each task the same priority level.

You can specify targets using instance IDs, resource group names, or tags that have been applied to instances.

**Example 1:** Specify instance IDs

Key=InstanceIds,Values=instance-id-1,instance-id-2,instance-id-3

**Example 2:** Use tag key-pairs applied to instances

Key=tag:my-tag-key,Values=my-tag-value-1,my-tag-value-2

**Example 3:** Use tag-keys applied to instances

Key=tag-key,Values=my-tag-key-1,my-tag-key-2

**Example 4:** Use resource group names

Key=resource-groups:Name,Values=resource-group-name

**Example 5:** Use filters for resource group types

Key=resource-groups:ResourceTypeFilters,Values=resource-type-1,resource-type-2

**Note**

For Key=resource-groups:ResourceTypeFilters, specify resource types in the following format

Key=resource-groups:ResourceTypeFilters,Values=AWS::EC2::INSTANCE,AWS::EC2::VPC

For more information about these examples formats, including the best use case for each one, see Examples: Register targets with a maintenance window in the AWS Systems Manager User Guide.

Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: Yes

WindowId (p. 432)
The ID of the maintenance window the target should be registered with.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

Response Syntax

```
{
  "WindowTargetId": "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.

WindowTargetId (p. 434)
The ID of the target definition in this maintenance window.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}--[0-9a-fA-F]{4}--[0-9a-fA-F]{4}--[0-9a-fA-F]{4}--[0-9a-fA-F]{12}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

IdempotentParameterMismatch

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400
InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ResourceLimitExceeded

Error returned when the caller has exceeded the default resource quotas. For example, too many maintenance windows or patch baselines have been created.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RegisterTargetWithMaintenanceWindow.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.RegisterTargetWithMaintenanceWindow
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T003144Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,Signature=39c3b3042cd2aEXAMPLE
Content-Length: 191

{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "ResourceType": "INSTANCE",
    "Targets": [
        {
            "Key": "InstanceIds",
            "Values": [
                "i-07782c72faEXAMPLE"
            ]
        }
    ],
    "ClientToken": "a1b2cde-27e3-42ff-9cac-99380EXAMPLE"
}
```

Sample Response

```plaintext
{
    "WindowTargetId": "7f4813bb-df25-4e59-b34f-c9e83EXAMPLE"
}
```

See Also

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

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

Adds a new task to a maintenance window.

**Request Syntax**

```json
{
    "ClientToken": "string",
    "Description": "string",
    "LoggingInfo": {
        "S3BucketName": "string",
        "S3KeyPrefix": "string",
        "S3Region": "string"
    },
    "MaxConcurrency": "string",
    "MaxErrors": "string",
    "Name": "string",
    "Priority": number,
    "ServiceRoleArn": "string",
    "Targets": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ],
    "TaskArn": "string",
    "TaskInvocationParameters": {
        "Automation": {
            "DocumentVersion": "string",
            "Parameters": { "string" : [ "string" ]
        }
    },
    "Lambda": {
        "ClientContext": "string",
        "Payload": blob,
        "Qualifier": "string"
    },
    "RunCommand": {
        "CloudWatchOutputConfig": {
            "CloudWatchLogGroupName": "string",
            "CloudWatchOutputEnabled": boolean
        },
        "Comment": "string",
        "DocumentHash": "string",
        "DocumentHashType": "string",
        "DocumentVersion": "string",
        "NotificationConfig": {
            "NotificationArn": "string",
            "NotificationEvents": [ "string" ],
            "NotificationType": "string"
        },
        "OutputS3BucketName": "string",
        "OutputS3KeyPrefix": "string",
        "Parameters": { "string" : [ "string" ]
    },
    "ServiceRoleArn": "string",
    "TimeoutSeconds": number
}
```

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Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ClientToken (p. 437)**

User-provided idempotency token.

Type: String

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

Required: No

**Description (p. 437)**

An optional description for the task.

Type: String


Required: No

**LoggingInfo (p. 437)**

A structure containing information about an S3 bucket to write instance-level logs to.

*Note*

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: LoggingInfo (p. 691) object

Required: No

**MaxConcurrency (p. 437)**

The maximum number of targets this task can be run for in parallel.

*Note*

For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1. This value does not affect the running of your task.

Type: String
Request Parameters

Pattern: `^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100\%)$`
Required: No

MaxErrors (p. 437)

The maximum number of errors allowed before this task stops being scheduled.

Note
For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1. This value does not affect the running of your task.

Type: String
Pattern: `^([1-9][0-9]*|0|[1-9][0-9]%|0-9%|100\%)$`
Required: No

Name (p. 437)

An optional name for the task.

Type: String
Pattern: `^[a-zA-Z0-9_\-\.]{3,128}$`
Required: No

Priority (p. 437)

The priority of the task in the maintenance window, the lower the number the higher the priority. Tasks in a maintenance window are scheduled in priority order with tasks that have the same priority scheduled in parallel.

Type: Integer
Valid Range: Minimum value of 0.
Required: No

ServiceRoleArn (p. 437)

The ARN of the IAM service role for Systems Manager to assume when running a maintenance window task. If you do not specify a service role ARN, Systems Manager uses your account's service-linked role. If no service-linked role for Systems Manager exists in your account, it is created when you run RegisterTaskWithMaintenanceWindow.

For more information, see the following topics in the AWS Systems Manager User Guide:

- Using service-linked roles for Systems Manager
- Should I use a service-linked role or a custom service role to run maintenance window tasks?

Type: String
Required: No

Targets (p. 437)

The targets (either instances or maintenance window targets).
Note
One or more targets must be specified for maintenance window Run Command-type tasks. Depending on the task, targets are optional for other maintenance window task types (Automation, AWS Lambda, and AWS Step Functions). For more information about running tasks that do not specify targets, see Registering maintenance window tasks without targets in the AWS Systems Manager User Guide.

Specify instances using the following format:
Key=InstanceIds,Values=<instance-id-1>,<instance-id-2>

Specify maintenance window targets using the following format:
Key=WindowTargetIds,Values=<window-target-id-1>,<window-target-id-2>

Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

TaskArn (p. 437)
The ARN of the task to run.
Type: String
Required: Yes

TaskInvocationParameters (p. 437)
The parameters that the task should use during execution. Populate only the fields that match the task type. All other fields should be empty.
Type: MaintenanceWindowTaskInvocationParameters (p. 717) object
Required: No

TaskParameters (p. 437)
The parameters that should be passed to the task when it is run.

Note
TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 718) object map
Key Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

TaskType (p. 437)
The type of task being registered.
Type: String
Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA
Required: Yes

**WindowId (p. 437)**

The ID of the maintenance window the task should be added to.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

## Response Syntax

```json
{
  "WindowTaskId": "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.

**WindowTaskId (p. 441)**

The ID of the task in the maintenance window.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 823)](https://docs.aws.amazon.com/systems-manager/latest/APIReference/API_CommonErrors.html).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see [Systems Manager service quotas](https://docs.aws.amazon.com/systems-manager/latest/APIReference/service-quotas.html) in the [AWS General Reference](https://docs.aws.amazon.com/general/latest/index.html).

HTTP Status Code: 400

**FeatureNotAvailableException**

You attempted to register a LAMBDA or STEP_FUNCTIONS task in a region where the corresponding service is not available.

HTTP Status Code: 400

---

API Version 2014-11-06

441
IdempotentParameterMismatch

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource quotas. For example, too many maintenance windows or patch baselines have been created.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RegisterTaskWithMaintenanceWindow.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.RegisterTaskWithMaintenanceWindow
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T181553Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 362

{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "Targets": [
        {
            "Key": "InstanceIds",
            "Values": [
                "i-02573cafcfEXAMPLE"
            ]
        }
    ],
    "TaskArn": "AWS-RunShellScript",
    "TaskType": "RUN_COMMAND",
    "TaskInvocationParameters": {
        "RunCommand": {
            "Parameters": {
                "commands": [
                    "df"
                ]
            }
        }
    }
}
```
Sample Response

```json
{
    "WindowTaskId": "216ae877-0be9-4746-a19d-ed654EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RemoveTagsFromResource

Removes tag keys from the specified resource.

Request Syntax

```json
{
   "ResourceId": "string",
   "ResourceType": "string",
   "TagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ResourceId (p. 444)**

The ID of the resource from which you want to remove tags. For example:

- ManagedInstance: mi-012345abcde
- MaintenanceWindow: mw-012345abcde
- PatchBaseline: pb-012345abcde

OpsMetadata object: `ResourceId` for tagging is created from the Amazon Resource Name (ARN) for the object. Specifically, `ResourceId` is created from the strings that come after the word `opsmetadata` in the ARN. For example, an OpsMetadata object with an ARN of `arn:aws:ssm:us-east-2:1234567890:opsmetadata/aws/ssm/MyGroup/appmanager` has a `ResourceId` of either `/aws/ssm/MyGroup/appmanager` or `aws/ssm/MyGroup/appmanager`.

For the Document and Parameter values, use the name of the resource.

**Note**

The ManagedInstance type for this API action is only for on-premises managed instances. Specify the name of the managed instance in the following format: mi-ID_number. For example, mi-1a2b3c4d5e6f.

Type: String

Required: Yes

**ResourceType (p. 444)**

The type of resource from which you want to remove a tag.

**Note**

The ManagedInstance type for this API action is only for on-premises managed instances. Specify the name of the managed instance in the following format: mi-ID_number. For example, mi-1a2b3c4d5e6f.

Type: String

Valid Values: Document | ManagedInstance | MaintenanceWindow | Parameter | PatchBaseline | OpsItem | OpsMetadata
Required: Yes

TagKeys (p. 444)

Tag keys that you want to remove from the specified resource.

Type: Array of strings


Pattern: ^((\p{L}\p{Z}\p{N}_.:/=+\-@]*)$  

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. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidResourceID

The resource ID is not valid. Verify that you entered the correct ID and try again.

HTTP Status Code: 400

InvalidResourceType

The resource type is not valid. For example, if you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RemoveTagsFromResource.

Sample Request

```
POST / HTTP/1.1  
Host: ssm.us-east-2.amazonaws.com  
Accept-Encoding: identity  
X-Amz-Target: AmazonSSM.RemoveTagsFromResource
```
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T004031Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 99

{
  "ResourceType": "PatchBaseline",
  "ResourceId": "pb-0c10e65780EXAMPLE",
  "TagKeys": [
    "Environment"
  ]
}

Sample Response

{}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ResetServiceSetting

ServiceSetting is an account-level setting for an AWS service. This setting defines how a user interacts with or uses a service or a feature of a service. For example, if an AWS service charges money to the account based on feature or service usage, then the AWS service team might create a default setting of "false". This means the user can’t use this feature unless they change the setting to "true" and intentionally opt in for a paid feature.

Services map a SettingId object to a setting value. AWS services teams define the default value for a SettingId. You can’t create a new SettingId, but you can overwrite the default value if you have the ssm:UpdateServiceSetting permission for the setting. Use the GetServiceSetting (p. 357) API action to view the current value. Use the UpdateServiceSetting (p. 558) API action to change the default setting.

Reset the service setting for the account to the default value as provisioned by the AWS service team.

Request Syntax

```json
{
   "SettingId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**SettingId (p. 447)**

The Amazon Resource Name (ARN) of the service setting to reset. The setting ID can be one of the following.

- /ssm/automation/customer-script-log-destination
- /ssm/automation/customer-script-log-group-name
- /ssm/documents/console/public-sharing-permission
- /ssm/parameter-store/default-parameter-tier
- /ssm/parameter-store/high-throughput-enabled
- /ssm/managed-instance/activation-tier

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: Yes

Response Syntax

```json
{
   "ServiceSetting": {
      "ARN": "string",
      "LastModifiedDate": number,
      "LastModifiedUser": "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.

ServiceSetting (p. 447)

The current, effective service setting after calling the ResetServiceSetting API action.

Type: ServiceSetting (p. 803) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerErro

An error occurred on the server side.

HTTP Status Code: 500

ServiceSettingNotFound

The specified service setting was not found. Either the service name or the setting has not been provisioned by the AWS service team.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ResetServiceSetting.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ResetServiceSetting
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T153659Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
```


Sample Response

```json
{
   "ServiceSetting":{
      "LastModifiedDate":1.555532571138E9,
      "LastModifiedUser":"System",
      "SettingId":"/ssm/parameter-store/high-throughput-enabled",
      "SettingValue":"false",
      "Status":"Default"
   }
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for Java V2
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ResumeSession

Reconnects a session to an instance after it has been disconnected. Connections can be resumed for disconnected sessions, but not terminated sessions.

**Note**
This command is primarily for use by client machines to automatically reconnect during intermittent network issues. It is not intended for any other use.

**Request Syntax**

```json
{
    "SessionId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**SessionId (p. 450)**

The ID of the disconnected session to resume.

Type: String


Required: Yes

**Response Syntax**

```json
{
    "SessionId": "string",
    "StreamUrl": "string",
    "TokenValue": "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.

**SessionId (p. 450)**

The ID of the session.

Type: String

StreamUrl (p. 450)

A URL back to SSM Agent on the instance that the Session Manager client uses to send commands and receive output from the instance. Format: wss://ssmmessages.\texttt{region}.amazonaws.com/v1/data-channel/\texttt{session-id}?stream=(input|output).

\texttt{region} represents the Region identifier for an AWS Region supported by AWS Systems Manager, such as us-east-2 for the US East (Ohio) Region. For a list of supported \texttt{region} values, see the \texttt{Region} column in Systems Manager service endpoints in the \textit{AWS General Reference}.

\texttt{session-id} represents the ID of a Session Manager session, such as 1a2b3c4d\texttt{EXAMPLE}.

Type: String

TokenValue (p. 450)

An encrypted token value containing session and caller information. Used to authenticate the connection to the instance.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

\textbf{DoesNotExistException}

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the \textit{AWS General Reference}.

HTTP Status Code: 400

\textbf{InternalServerError}

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of ResumeSession.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.ResumeSession
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T181144Z
```
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 50
{
  "SessionId": "John-Doe-0402960697EXAMPLE"
}

Sample Response

{
  "SessionId": "John-Doe-0402960697EXAMPLE",
  "TokenValue": "EXAMPLENPKTm3/39c3b3042cd2aEXAMPLE/a3f5ff34-9bc4-4d2c-a665-4d1c1EXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
SendAutomationSignal

Sends a signal to an Automation execution to change the current behavior or status of the execution.

Request Syntax

```
{
  "AutomationExecutionId": "string",
  "Payload": {
    "string": [ "string" ]
  },
  "SignalType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AutomationExecutionId (p. 453)**

The unique identifier for an existing Automation execution that you want to send the signal to.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

**Payload (p. 453)**

The data sent with the signal. The data schema depends on the type of signal used in the request.

- For Approve and Reject signal types, the payload is an optional comment that you can send with the signal type. For example:
  
  `Comment="Looks good"`

- For StartStep and Resume signal types, you must send the name of the Automation step to start or resume as the payload. For example:
  
  `StepName="step1"`

- For the StopStep signal type, you must send the step execution ID as the payload. For example:
  
  `StepExecutionId="97ff367-fc5a-4299-aed8-0123456789ab"`

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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. 823).

AutomationExecutionNotFoundException

There is no automation execution information for the requested automation execution ID.

HTTP Status Code: 400

AutomationStepNotFoundException

The specified step name and execution ID don't exist. Verify the information and try again.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidAutomationSignalException

The signal is not valid for the current Automation execution.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of SendAutomationSignal.

Sample Request

<table>
<thead>
<tr>
<th>Request Method</th>
<th>Request URI</th>
<th>Request Headers</th>
<th>Request Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST /</td>
<td>HTTP/1.1</td>
<td>Host: ssm.us-east-2.amazonaws.com</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accept-Encoding: identity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X-Amz-Target: AmazonSSM.SendAutomationSignal</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Content-Type: application/x-amz-json-1.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X-Amz-Date: 20200325T162449Z</td>
<td></td>
</tr>
</tbody>
</table>
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 165

{
    "AutomationExecutionId":"b2bc0e75-4d48-4b7b-be9b-0cb5cEXAMPLE",
    "SignalType":"StopStep",
    "Payload":{
        "StepExecutionId":[
            "33d93afd-9535-4dd5-a06b-c91bdEXAMPLE"
        ]
    }
}

Sample Response

{}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
SendCommand

Runs commands on one or more managed instances.

**Request Syntax**

```json
{
   "CloudWatchOutputConfig": {
      "CloudWatchLogGroupName": "string",
      "CloudWatchOutputEnabled": boolean
   },
   "Comment": "string",
   "DocumentHash": "string",
   "DocumentHashType": "string",
   "DocumentName": "string",
   "DocumentVersion": "string",
   "InstanceId": [ "string" ],
   "MaxConcurrency": "string",
   "MaxErrors": "string",
   "NotificationConfig": {
      "NotificationArn": "string",
      "NotificationEvents": [ "string" ],
      "NotificationType": "string"
   },
   "OutputS3BucketName": "string",
   "OutputS3KeyPrefix": "string",
   "OutputS3Region": "string",
   "Parameters": {
      "string": [ "string" ]
   },
   "ServiceRoleArn": "string",
   "Targets": [
      {
         "Key": "string",
         "Values": [ "string" ]
      }
   ],
   "TimeoutSeconds": number
}
```

**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.

**CloudWatchOutputConfig (p. 456)**

Enables Systems Manager to send Run Command output to Amazon CloudWatch Logs.

Type: CloudWatchOutputConfig (p. 607) object

Required: No

**Comment (p. 456)**

User-specified information about the command, such as a brief description of what the command should do.
Type: String
Length Constraints: Maximum length of 100.
Required: No

**DocumentHash (p. 456)**

The Sha256 or Sha1 hash created by the system when the document was created.

**Note**
Sha1 hashes have been deprecated.

Type: String
Length Constraints: Maximum length of 256.
Required: No

**DocumentHashType (p. 456)**

Sha256 or Sha1.

**Note**
Sha1 hashes have been deprecated.

Type: String
Valid Values: Sha256 | Sha1
Required: No

**DocumentName (p. 456)**

The name of the Systems Manager document to run. This can be a public document or a custom document. To run a shared document belonging to another account, specify the document ARN. For more information about how to use shared documents, see Using shared SSM documents in the AWS Systems Manager User Guide.

Type: String
Pattern: ^[a-zA-Z0-9_-.:/\]{3,128}$
Required: Yes

**DocumentVersion (p. 456)**

The SSM document version to use in the request. You can specify $DEFAULT, $LATEST, or a specific version number. If you run commands by using the AWS CLI, then you must escape the first two options by using a backslash. If you specify a version number, then you don't need to use the backslash. For example:

--document-version "\$DEFAULT"
--document-version "\$LATEST"
--document-version "3"

Type: String
Pattern: ([$]LATEST|[$DEFAULT|^[1-9][0-9]*$)
Required: No
Instancelds (p. 456)

The IDs of the instances where the command should run. Specifying instance IDs is most useful when you are targeting a limited number of instances, though you can specify up to 50 IDs.

To target a larger number of instances, or if you prefer not to list individual instance IDs, we recommend using the Targets option instead. Using Targets, which accepts tag key-value pairs to identify the instances to send commands to, you can send a command to tens, hundreds, or thousands of instances at once.

For more information about how to use targets, see Using targets and rate controls to send commands to a fleet in the AWS Systems Manager User Guide.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: No

MaxConcurrency (p. 456)

(Optional) The maximum number of instances that are allowed to run the command at the same time. You can specify a number such as 10 or a percentage such as 10%. The default value is 50. For more information about how to use MaxConcurrency, see Using concurrency controls in the AWS Systems Manager User Guide.

Type: String


Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[0-9]%|100%)$

Required: No

MaxErrors (p. 456)

The maximum number of errors allowed without the command failing. When the command fails one more time beyond the value of MaxErrors, the systems stops sending the command to additional targets. You can specify a number like 10 or a percentage like 10%. The default value is 0. For more information about how to use MaxErrors, see Using error controls in the AWS Systems Manager User Guide.

Type: String


Pattern: ^([1-9][0-9]*|[0][1-9][0-9]%|[0-9]%|100%)$

Required: No

NotificationConfig (p. 456)

Configurations for sending notifications.

Type: NotificationConfig (p. 721) object

Required: No

OutputS3BucketName (p. 456)

The name of the S3 bucket where command execution responses should be stored.

Type: String

Required: No

**OutputS3KeyPrefix (p. 456)**

The directory structure within the S3 bucket where the responses should be stored.

Type: String

Length Constraints: Maximum length of 500.

Required: No

**OutputS3Region (p. 456)**

(Deprecated) You can no longer specify this parameter. The system ignores it. Instead, Systems Manager automatically determines the Region of the S3 bucket.

Type: String


Required: No

**Parameters (p. 456)**

The required and optional parameters specified in the document being run.

Type: String to array of strings map

Required: No

**ServiceRoleArn (p. 456)**

The ARN of the IAM service role to use to publish Amazon Simple Notification Service (Amazon SNS) notifications for Run Command commands.

Type: String

Required: No

**Targets (p. 456)**

An array of search criteria that targets instances using a Key, Value combination that you specify. Specifying targets is most useful when you want to send a command to a large number of instances at once. Using Targets, which accepts tag key-value pairs to identify instances, you can send a command to tens, hundreds, or thousands of instances at once.

To send a command to a smaller number of instances, you can use the InstanceIds option instead.

For more information about how to use targets, see Sending commands to a fleet in the AWS Systems Manager User Guide.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**TimeoutSeconds (p. 456)**

If this time is reached and the command has not already started running, it will not run.

Type: Integer

Required: No

Response Syntax

```json
{
    "Command": {
        "CloudWatchOutputConfig": {
            "CloudWatchLogGroupName": "string",
            "CloudWatchOutputEnabled": boolean
        },
        "CommandId": "string",
        "Comment": "string",
        "CompletedCount": number,
        "DeliveryTimedOutCount": number,
        "DocumentName": "string",
        "DocumentVersion": "string",
        "ErrorCount": number,
        "ExpiresAfter": number,
        "InstanceIds": [ "string" ],
        "MaxConcurrency": "string",
        "MaxErrors": "string",
        "NotificationConfig": {
            "NotificationArn": "string",
            "NotificationEvents": [ "string" ],
            "NotificationType": "string"
        },
        "OutputS3BucketName": "string",
        "OutputS3KeyPrefix": "string",
        "OutputS3Region": "string",
        "Parameters": {
            "string": [ "string" ]
        },
        "RequestedDateTime": number,
        "ServiceRole": "string",
        "Status": "string",
        "StatusDetails": "string",
        "TargetCount": number,
        "Targets": [
            {
                "Key": "string",
                "Values": [ "string" ]
            }
        ],
        "TimeoutSeconds": 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.

**Command (p. 460)**

The request as it was received by Systems Manager. Also provides the command ID which can be used future references to this request.

Type: Command (p. 608) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DuplicateInstanceId

You cannot specify an instance ID in more than one association.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidDocumentVersion

The document version is not valid or does not exist.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

- You do not have permission to access the instance.
- SSM Agent is not running. Verify that SSM Agent is running.
- SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.
- The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

InvalidNotificationConfig

One or more configuration items is not valid. Verify that a valid Amazon Resource Name (ARN) was provided for an Amazon SNS topic.

HTTP Status Code: 400

InvalidOutputFolder

The S3 bucket does not exist.

HTTP Status Code: 400

InvalidParameters

You must specify values for all required parameters in the Systems Manager document. You can only supply values to parameters defined in the Systems Manager document.

HTTP Status Code: 400

InvalidRole

The role name can't contain invalid characters. Also verify that you specified an IAM role for notifications that includes the required trust policy. For information about configuring the IAM role for Run Command notifications, see Configuring Amazon SNS Notifications for Run Command in the AWS Systems Manager User Guide.
HTTP Status Code: 400
**MaxDocumentSizeExceeded**

The size limit of a document is 64 KB.

HTTP Status Code: 400
**UnsupportedPlatformType**

The document does not support the platform type of the given instance ID(s). For example, you sent an document for a Windows instance to a Linux instance.

**Examples**

**Example**

This example illustrates one usage of SendCommand.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.SendCommand
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T000322Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 153

{
    "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "my-log-group",
        "CloudWatchOutputEnabled": true
    },
    "DocumentName": "AWS-ConfigureCloudWatch",
    "DocumentVersion": "1",
    "InstanceId": ["i-07be1baa4aEXAMPLE",
                   "i-017431b35cEXAMPLE",
                   "i-09c350ed76EXAMPLE"],
    "MaxConcurrency": "2",
    "MaxErrors": "1",
    "NotificationConfig": {
        "NotificationEvents": ["Failed",
                                "Success"],
        "NotificationType": "Command"
    },
    "OutputS3BucketName": "doc-example-bucket",
    "OutputS3KeyPrefix": "my-rc-output",
    "OutputS3Region": "us-east-2",
    "Parameters": {
        "string": [
        ]
    }
}
```

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Sample Response

```json
{
    "Command": {
        "CommandId": "b94bf1dc-fe7d-4e88-851d-e85e5EXAMPLE",
        "DocumentName": "AWS-ConfigureCloudWatch",
        "DocumentVersion": "1",
        "Comment": "",
        "ExpiresAfter": 1582250177.7,
        "Parameters": {
            "properties": [],
            "status": ["Enabled"]
        },
        "InstanceIds": [],
        "Targets": [
            {
                "Key": "InstanceIds",
                "Values": [
                    "i-07be1baa4aEXAMPLE",
                    "i-017431b35cEXAMPLE",
                    "i-09c350ed76EXAMPLE"
                ]
            }
        ],
        "RequestedDateTime": 1582245977.7,
        "Status": "Pending",
        "StatusDetails": "Pending",
        "OutputS3BucketName": "doc-example-bucket",
        "OutputS3KeyPrefix": "my-rc-output",
        "MaxConcurrency": "2",
        "MaxErrors": "1",
        "TargetCount": 0,
        "CompletedCount": 0,
        "ErrorCount": 0,
        "DeliveryTimedOutCount": 0,
        "ServiceRole": "arn:aws:iam::111122223333:role/my-SNS-notifications-role",
        "NotificationConfig": {
            "NotificationEvents": ["Failed", "Success"],
            "NotificationType": "Command"
        },
        "CloudWatchOutputConfig": {
            "CloudWatchLogGroupName": "my-log-group",
            "CloudWatchOutputEnabled": true
        }
    }
}

See Also

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

Use this API action to run an association immediately and only one time. This action can be helpful when troubleshooting associations.

Request Syntax

```json
{
  "AssociationIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationIds (p. 465)**

The association IDs that you want to run immediately and only one time.

Type: Array of strings

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

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

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. 823).

**AssociationDoesNotExist**

The specified association does not exist.

HTTP Status Code: 400

**InvalidAssociation**

The association is not valid or does not exist.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of StartAssociationsOnce.
Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.StartAssociationsOnce
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T163434Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 60

{
    "AssociationIds": [
        "4332cf28-050d-4fa1-a4df-11b39EXAMPLE"
    ]
}

Sample Response

{}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
StartAutomationExecution

Initiates execution of an Automation document.

Request Syntax

```json
{
  "ClientToken": "string",
  "DocumentName": "string",
  "DocumentVersion": "string",
  "MaxConcurrency": "string",
  "MaxErrors": "string",
  "Mode": "string",
  "Parameters": {
    "string": [  "string" ]
  },
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TargetLocations": [
    {
      "Accounts": [  "string" ],
      "ExecutionRoleName": "string",
      "Regions": [  "string" ],
      "TargetLocationMaxConcurrency": "string",
      "TargetLocationMaxErrors": "string"
    }
  ],
  "TargetMaps": [
    {
      "string": [  "string" ]
    }
  ],
  "TargetParameterName": "string",
  "Targets": [
    {
      "Key": "string",
      "Values": [  "string" ]
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ClientToken (p. 467)**

User-provided idempotency token. The token must be unique, is case insensitive, enforces the UUID format, and can't be reused.

Type: String

Length Constraints: Fixed length of 36.
Pattern: `[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}`

Required: No

**DocumentName (p. 467)**

The name of the Systems Manager document to run. This can be a public document or a custom document. To run a shared document belonging to another account, specify the document ARN. For more information about how to use shared documents, see Using shared SSM documents in the AWS Systems Manager User Guide.

Type: String

Pattern: `^[a-zA-Z0-9_-.:/\]{3,128}$`

Required: Yes

**DocumentVersion (p. 467)**

The version of the Automation document to use for this execution.

Type: String

Pattern: `(^[^LATEST][^DEFAULT]|^[1-9]\[0-9]*$)`

Required: No

**MaxConcurrency (p. 467)**

The maximum number of targets allowed to run this task in parallel. You can specify a number, such as 10, or a percentage, such as 10%. The default value is 10.

Type: String


Pattern: `^[1-9][0-9]*|^[1-9]\[0-9]|100\]$`

Required: No

**MaxErrors (p. 467)**

The number of errors that are allowed before the system stops running the automation on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops running the automation when the fourth error is received. If you specify 0, then the system stops running the automation on additional targets after the first error result is returned. If you run an automation on 50 resources and set max-errors to 10%, then the system stops running the automation on additional targets when the sixth error is received.

Executions that are already running an automation when max-errors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be more than max-errors failed executions, set max-concurrency to 1 so the executions proceed one at a time.

Type: String


Pattern: `^[1-9][0-9]*|^[0][1-9][0-9]|09\]$`

Required: No
Mode (p. 467)

The execution mode of the automation. Valid modes include the following: Auto and Interactive. The default mode is Auto.

Type: String
Valid Values: Auto | Interactive
Required: No

Parameters (p. 467)

A key-value map of execution parameters, which match the declared parameters in the Automation document.

Type: String to array of strings map
Map Entries: Maximum number of 200 items.
Key Length Constraints: Minimum length of 1. Maximum length of 50.
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Required: No

Tags (p. 467)

Optional metadata that you assign to a resource. You can specify a maximum of five tags for an automation. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag an automation to identify an environment or operating system. In this case, you could specify the following key name/value pairs:

• Key=environment,Value=test
• Key=OS,Value=Windows

Note
To add tags to an existing patch baseline, use the AddTagsToResource (p. 6) action.

Type: Array of Tag (p. 816) objects
Array Members: Maximum number of 1000 items.
Required: No

TargetLocations (p. 467)

A location is a combination of AWS Regions and/or AWS accounts where you want to run the Automation. Use this action to start an Automation in multiple Regions and multiple accounts. For more information, see Running Automation workflows in multiple AWS Regions and accounts in the AWS Systems Manager User Guide.

Type: Array of TargetLocation (p. 819) objects
Array Members: Minimum number of 1 item. Maximum number of 100 items.
Required: No

TargetMaps (p. 467)

A key-value mapping of document parameters to target resources. Both Targets and TargetMaps cannot be specified together.
Type: Array of string to array of strings maps

Array Members: Minimum number of 0 items. Maximum number of 300 items.

Map Entries: Maximum number of 20 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 25 items.


Required: No

**TargetParameterName (p. 467)**

The name of the parameter used as the target resource for the rate-controlled execution. Required if you specify targets.

Type: String


Required: No

**Targets (p. 467)**

A key-value mapping to target resources. Required if you specify TargetParameterName.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### Response Syntax

```
{
  "AutomationExecutionId": "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.

**AutomationExecutionId (p. 470)**

The unique ID of a newly scheduled automation execution.

Type: String

Length Constraints: Fixed length of 36.

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 823)](#).
**AutomationDefinitionNotFoundException**

An Automation document with the specified name could not be found.

HTTP Status Code: 400

**AutomationDefinitionVersionNotFoundException**

An Automation document with the specified name and version could not be found.

HTTP Status Code: 400

**AutomationExecutionLimitExceededException**

The number of simultaneously running Automation executions exceeded the allowable limit.

HTTP Status Code: 400

**IdempotentParameterMismatch**

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400

**InternalServerException**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAutomationExecutionParametersException**

The supplied parameters for invoking the specified Automation document are incorrect. For example, they may not match the set of parameters permitted for the specified Automation document.

HTTP Status Code: 400

**InvalidTarget**

The target is not valid or does not exist. It might not be configured for Systems Manager or you might not have permission to perform the operation.

HTTP Status Code: 400

### Examples

#### Example

This example illustrates one usage of StartAutomationExecution.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.StartAutomationExecution
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T162110Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/awss4_request,
```

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SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 86
{
   "DocumentName":"Example",
   "Parameters":{
      "InstanceId":[
      "i-02573cafcfEXAMPLE"
   ]
}
}

Sample Response
{
   "AutomationExecutionId":"832a6fba-f4f0-4b2a-ab85-587adEXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
StartChangeRequestExecution

Creates a change request for Change Manager. The runbooks (Automation documents) specified in the change request run only after all required approvals for the change request have been received.

Request Syntax

```json
{
  "ChangeDetails": "string",
  "ChangeRequestName": "string",
  "ClientToken": "string",
  "DocumentName": "string",
  "DocumentVersion": "string",
  "Parameters": {
    "string": [ "string" ]
  },
  "Runbooks": [
    {
      "DocumentName": "string",
      "DocumentVersion": "string",
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "Parameters": {
        "string": [ "string" ]
      },
      "TargetLocations": [
        {
          "Accounts": [ "string" ],
          "ExecutionRoleName": "string",
          "Regions": [ "string" ],
          "TargetLocationMaxConcurrency": "string",
          "TargetLocationMaxErrors": "string"
        }
      ],
      "TargetParameterName": "string",
      "Targets": [ ]
    }
  ],
  "ScheduledEndTime": number,
  "ScheduledTime": number,
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.
ChangeDetails (p. 473)

User-provided details about the change. If no details are provided, content specified in the Template information section of the associated change template is added.

Type: String


Required: No

ChangeRequestName (p. 473)

The name of the change request associated with the runbook workflow to be run.

Type: String


Required: No

ClientToken (p. 473)

The user-provided idempotency token. The token must be unique, is case insensitive, enforces the UUID format, and can't be reused.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: No

DocumentName (p. 473)

The name of the change template document to run during the runbook workflow.

Type: String

Pattern: ^[a-zA-Z0-9_-.:/\]{3,128}$

Required: Yes

DocumentVersion (p. 473)

The version of the change template document to run during the runbook workflow.

Type: String

Pattern: (^[#]LATEST|[#]DEFAULT|^\d\d\d\d$)

Required: No

Parameters (p. 473)

A key-value map of parameters that match the declared parameters in the change template document.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.
Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

**Runbooks (p. 473)**

Information about the Automation runbooks (Automation documents) that are run during the runbook workflow.

**Note**
The Automation runbooks specified for the runbook workflow can't run until all required approvals for the change request have been received.

Type: Array of Runbook (p. 798) objects

Array Members: Fixed number of 1 item.

Required: Yes

**ScheduledEndTime (p. 473)**

The time that the requester expects the runbook workflow related to the change request to complete. The time is an estimate only that the requester provides for reviewers.

Type: Timestamp

Required: No

**ScheduledTime (p. 473)**

The date and time specified in the change request to run the Automation runbooks.

**Note**
The Automation runbooks specified for the runbook workflow can't run until all required approvals for the change request have been received.

Type: Timestamp

Required: No

**Tags (p. 473)**

Optional metadata that you assign to a resource. You can specify a maximum of five tags for a change request. Tags enable you to categorize a resource in different ways, such as by purpose, owner, or environment. For example, you might want to tag a change request to identify an environment or target AWS Region. In this case, you could specify the following key-value pairs:

- Key=Environment, Value=Production
- Key=Region, Value=us-east-2

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

**Response Syntax**

```json
{
    "AutomationExecutionId": "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.

**AutomationExecutionId (p. 475)**

The unique ID of a runbook workflow operation. (A runbook workflow is a type of Automation operation.)

Type: String
Length Constraints: Fixed length of 36.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**AutomationDefinitionNotApprovedException**

Indicates that the Change Manager change template used in the change request was rejected or is still in a pending state.

HTTP Status Code: 400

**AutomationDefinitionNotFoundException**

An Automation document with the specified name could not be found.

HTTP Status Code: 400

**AutomationDefinitionVersionNotFoundException**

An Automation document with the specified name and version could not be found.

HTTP Status Code: 400

**AutomationExecutionLimitExceededException**

The number of simultaneously running Automation executions exceeded the allowable limit.

HTTP Status Code: 400

**IdempotentParameterMismatch**

Error returned when an idempotent operation is retried and the parameters don't match the original call to the API with the same idempotency token.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAutomationExecutionParametersException**

The supplied parameters for invoking the specified Automation document are incorrect. For example, they may not match the set of parameters permitted for the specified Automation document.
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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
StartSession

StartSession initiates a connection to a target (for example, an instance) for a Session Manager session. Returns a URL and token that can be used to open a WebSocket connection for sending input and receiving outputs.

Note
AWS CLI usage: start-session is an interactive command that requires the Session Manager plugin to be installed on the client machine making the call. For information, see Install the Session Manager plugin for the AWS CLI in the AWS Systems Manager User Guide.
AWS Tools for PowerShell usage: Start-SSMSession is not currently supported by AWS Tools for PowerShell on Windows local machines.

Request Syntax

```json
{
   "DocumentName": "string",
   "Parameters": {
      "string": [ "string" ]
   },
   "Target": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentName (p. 478)**

The name of the SSM document to define the parameters and plugin settings for the session. For example, SSM-SessionManagerRunShell. You can call the GetDocument (p. 263) API to verify the document exists before attempting to start a session. If no document name is provided, a shell to the instance is launched by default.

Type: String

Pattern: `^[a-zA-Z0-9_\-./:]{3,128}$`

Required: No

**Parameters (p. 478)**

Reserved for future use.

Type: String to array of strings map

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


Required: No

**Target (p. 478)**

The instance to connect to for the session.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 400.

Required: Yes

Response Syntax

```json
{
  "SessionId": "string",
  "StreamUrl": "string",
  "TokenValue": "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.

**SessionId (p. 479)**

The ID of the session.

Type: String


**StreamUrl (p. 479)**

A URL back to SSM Agent on the instance that the Session Manager client uses to send commands and receive output from the instance. Format: wss://ssmmessages.<region>.amazonaws.com/v1/data-channel/session-id?stream=(input|output)

*region* represents the Region identifier for an AWS Region supported by AWS Systems Manager, such as us-east-2 for the US East (Ohio) Region. For a list of supported *region* values, see the *Region* column in Systems Manager service endpoints in the *AWS General Reference*.

*session-id* represents the ID of a Session Manager session, such as 1a2b3c4dEXAMPLE.

Type: String

**TokenValue (p. 479)**

An encrypted token value containing session and caller information. Used to authenticate the connection to the instance.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500
InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

TargetNotConnected

The specified target instance for the session is not fully configured for use with Session Manager. For more information, see Getting started with Session Manager in the AWS Systems Manager User Guide. This error is also returned if you attempt to start a session on an instance that is located in a different account or Region.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartSession.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.StartSession
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T181823Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 33

{
  "Target": "i-02573cafcfEXAMPLE"
}

Sample Response

{
  "SessionId": "John-Doe-0dc5b7af96EXAMPLE",
  "TokenValue": "a3f5ff34-9bc4-4d2c-a665-4d1c1EXAMPLE/39c3b3042cd2aEXAMPLE"
}

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
See Also

- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
StopAutomationExecution

Stop an Automation that is currently running.

Request Syntax

```json
{
   "AutomationExecutionId": "string",
   "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AutomationExecutionId (p. 482)**

The execution ID of the Automation to stop.

- Type: String
- Length Constraints: Fixed length of 36.
- Required: Yes

**Type (p. 482)**

The stop request type. Valid types include the following: Cancel and Complete. The default type is Cancel.

- Type: String
- Valid Values: Complete | Cancel
- 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. 823).

**AutomationExecutionNotFoundException**

There is no automation execution information for the requested automation execution ID.

- HTTP Status Code: 400

**InternalServerException**

An error occurred on the server side.
HTTP Status Code: 500

InvalidAutomationStatusUpdateException

The specified update status operation is not valid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StopAutomationExecution.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.StopAutomationExecution
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T171100Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aw4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 65

{
  "AutomationExecutionId":"f7d1f82d-6cde-4f7a-aa53-d485bEXAMPLE"
}
```

Sample Response

```plaintext
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Terminatesession

Permanently ends a session and closes the data connection between the Session Manager client and SSM Agent on the instance. A terminated session cannot be resumed.

Request Syntax

```json
{
    "SessionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**SessionId** *(p. 484)*

The ID of the session to terminate.

Type: String


Required: Yes

Response Syntax

```json
{
    "SessionId": "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.

**SessionId** *(p. 484)*

The ID of the session that has been terminated.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

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DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of TerminateSession.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.TerminateSession
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200221T182708Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200221/us-east-2/ssm/aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 50

{
    "SessionId": "John-Doe-0402960697EXAMPLE"
}
```

Sample Response

```plaintext
{
    "SessionId": "John-Doe-0402960697EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
See Also

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UnlabelParameterVersion

Remove a label or labels from a parameter.

Request Syntax

```
{
    "Labels": [ "string" ],
    "Name": "string",
    "ParameterVersion": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Labels (p. 487)**

One or more labels to delete from the specified parameter version.

- Type: Array of strings
- Array Members: Minimum number of 1 item. Maximum number of 10 items.
- Required: Yes

**Name (p. 487)**

The parameter name of which you want to delete one or more labels.

- Type: String
- Required: Yes

**ParameterVersion (p. 487)**

The specific version of the parameter which you want to delete one or more labels from. If it is not present, the call will fail.

- Type: Long
- Required: Yes

Response Syntax

```
{
    "InvalidLabels": [ "string" ],
    "RemovedLabels": [ "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.

InvalidLabels (p. 487)

The labels that are not attached to the given parameter version.

Type: Array of strings

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

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

RemovedLabels (p. 487)

A list of all labels deleted from the parameter.

Type: Array of strings

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

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ParameterNotFound

The parameter could not be found. Verify the name and try again.

HTTP Status Code: 400

ParameterVersionNotFound

The specified parameter version was not found. Verify the parameter name and version, and try again.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

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
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateAssociation

Updates an association. You can update the association name and version, the document version, schedule, parameters, and Amazon S3 output.

In order to call this API action, your IAM user account, group, or role must be configured with permission to call the DescribeAssociation (p. 108) API action. If you don't have permission to call DescribeAssociation, then you receive the following error: An error occurred (AccessDeniedException) when calling the UpdateAssociation operation: User: <user_arn> is not authorized to perform: ssm:DescribeAssociation on resource: <resource_arn>

Important
When you update an association, the association immediately runs against the specified targets.

Request Syntax

```json
{
  "ApplyOnlyAtCronInterval": boolean,
  "AssociationId": "string",
  "AssociationName": "string",
  "AssociationVersion": "string",
  "AutomationTargetParameterName": "string",
  "CalendarNames": [ "string" ],
  "ComplianceSeverity": "string",
  "DocumentVersion": "string",
  "MaxConcurrency": "string",
  "MaxErrors": "string",
  "Name": "string",
  "OutputLocation": {
    "S3Location": {
      "OutputS3BucketName": "string",
      "OutputS3KeyPrefix": "string",
      "OutputS3Region": "string"
    }
  },
  "Parameters": {
    "string": [ "string" ]
  },
  "ScheduleExpression": "string",
  "SyncCompliance": "string",
  "TargetLocations": [ {
    "Accounts": [ "string" ],
    "ExecutionRoleName": "string",
    "Regions": [ "string" ],
    "TargetLocationMaxConcurrency": "string",
    "TargetLocationMaxErrors": "string"
  } ],
  "Targets": [ {
    "Key": "string",
    "Values": [ "string" ]
  } ]
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ApplyOnlyAtCronInterval (p. 490)**

By default, when you update an association, the system runs it immediately after it is updated and then according to the schedule you specified. Specify this option if you don't want an association to run immediately after you update it. This parameter is not supported for rate expressions.

Also, if you specified this option when you created the association, you can reset it. To do so, specify the no-apply-only-at-cron-interval parameter when you update the association from the command line. This parameter forces the association to run immediately after updating it and according to the interval specified.

Type: Boolean

Required: No

**AssociationId (p. 490)**

The ID of the association you want to update.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: Yes

**AssociationName (p. 490)**

The name of the association that you want to update.

Type: String

Pattern: ^[a-zA-Z0-9\-_\.]{3,128}$

Required: No

**AssociationVersion (p. 490)**

This parameter is provided for concurrency control purposes. You must specify the latest association version in the service. If you want to ensure that this request succeeds, either specify $LATEST, or omit this parameter.

Type: String

Pattern: ([$]LATEST)|([1-9][0-9]*)

Required: No

**AutomationTargetParameterName (p. 490)**

Specify the target for the association. This target is required for associations that use an Automation document and target resources by using rate controls.

Type: String

Required: No

**CalendarNames (p. 490)**

The names or Amazon Resource Names (ARNs) of the Systems Manager Change Calendar type documents you want to gate your associations under. The associations only run when that Change Calendar is open. For more information, see AWS Systems Manager Change Calendar.

Type: Array of strings

Required: No

**ComplianceSeverity (p. 490)**

The severity level to assign to the association.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | UNSPECIFIED

Required: No

**DocumentVersion (p. 490)**

The document version you want update for the association.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9]\[0-9]*$)

Required: No

**MaxConcurrency (p. 490)**

The maximum number of targets allowed to run the association at the same time. You can specify a number, for example 10, or a percentage of the target set, for example 10%. The default value is 100%, which means all targets run the association at the same time.

If a new instance starts and attempts to run an association while Systems Manager is running MaxConcurrency associations, the association is allowed to run. During the next association interval, the new instance will process its association within the limit specified for MaxConcurrency.

Type: String


Pattern: ^([1-9]\[0-9]*|[1-9]0-9\%|[1-9]\%|100\%)$

Required: No

**MaxErrors (p. 490)**

The number of errors that are allowed before the system stops sending requests to run the association on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops sending requests when the fourth error is received. If you specify 0, then the system stops sending requests after the first error is returned. If you run an association on 50 instances and set MaxError to 10%, then the system stops sending the request when the sixth error is received.

Executions that are already running an association when MaxErrors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be...
more than max-errors failed executions, set MaxConcurrency to 1 so that executions proceed one at a time.

Type: String


Pattern: ^([1-9][0-9]*|[0]|[1-9][0-9]%|[0-9]%|100%)$

Required: No

Name (p. 490)

The name of the SSM document that contains the configuration information for the instance. You can specify Command or Automation documents.

You can specify AWS-predefined documents, documents you created, or a document that is shared with you from another account.

For SSM documents that are shared with you from other AWS accounts, you must specify the complete SSM document ARN, in the following format:


For example:


For AWS-predefined documents and SSM documents you created in your account, you only need to specify the document name. For example, AWS-ApplyPatchBaseline or My-Document.

Type: String

Pattern: ^[a-zA-Z0-9_\-./:\]{3,128}$

Required: No

OutputLocation (p. 490)

An S3 bucket where you want to store the results of this request.

Type: InstanceAssociationOutputLocation (p. 661) object

Required: No

Parameters (p. 490)

The parameters you want to update for the association. If you create a parameter using Parameter Store, you can reference the parameter using {{ssm:parameter-name}}

Type: String to array of strings map

Required: No

ScheduleExpression (p. 490)

The cron expression used to schedule the association that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No
SyncCompliance (p. 490)

The mode for generating association compliance. You can specify AUTO or MANUAL. In AUTO mode, the system uses the status of the association execution to determine the compliance status. If the association execution runs successfully, then the association is COMPLIANT. If the association execution doesn’t run successfully, the association is NON-COMPLIANT.

In MANUAL mode, you must specify the AssociationId as a parameter for the PutComplianceItems (p. 410) API action. In this case, compliance data is not managed by State Manager. It is managed by your direct call to the PutComplianceItems (p. 410) API action.

By default, all associations use AUTO mode.

Type: String

Valid Values: AUTO | MANUAL

Required: No

TargetLocations (p. 490)

A location is a combination of AWS Regions and AWS accounts where you want to run the association. Use this action to update an association in multiple Regions and multiple accounts.

Type: Array of TargetLocation (p. 819) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

Targets (p. 490)

The targets of the association.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

Response Syntax

```json
{
    "AssociationDescription": {
        "ApplyOnlyAtCronInterval": boolean,
        "AssociationId": "string",
        "AssociationName": "string",
        "AssociationVersion": "string",
        "AutomationTargetParameterName": "string",
        "CalendarNames": [ "string" ],
        "ComplianceSeverity": "string",
        "Date": number,
        "DocumentVersion": "string",
        "InstanceId": "string",
        "LastExecutionDate": number,
        "LastSuccessfulExecutionDate": number,
        "LastUpdateAssociationDate": number,
        "MaxConcurrency": "string",
        "MaxErrors": "string",
        "Name": "string",
        "OutputLocation": {
            "S3Location": {
                "OutputS3BucketName": "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.

**AssociationDescription (p. 494)**

The description of the association that was updated.

Type: AssociationDescription (p. 570) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**AssociationDoesNotExist**

The specified association does not exist.

HTTP Status Code: 400
**AssociationVersionLimitExceeded**

You have reached the maximum number versions allowed for an association. Each association has a limit of 1,000 versions.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidAssociationVersion**

The version you specified is not valid. Use ListAssociationVersions to view all versions of an association according to the association ID. Or, use the $LATEST parameter to view the latest version of the association.

HTTP Status Code: 400

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentVersion**

The document version is not valid or does not exist.

HTTP Status Code: 400

**InvalidOutputLocation**

The output location is not valid or does not exist.

HTTP Status Code: 400

**InvalidParameters**

You must specify values for all required parameters in the Systems Manager document. You can only supply values to parameters defined in the Systems Manager document.

HTTP Status Code: 400

**InvalidSchedule**

The schedule is invalid. Verify your cron or rate expression and try again.

HTTP Status Code: 400

**InvalidTarget**

The target is not valid or does not exist. It might not be configured for Systems Manager or you might not have permission to perform the operation.

HTTP Status Code: 400

**InvalidUpdate**

The update is not valid.

HTTP Status Code: 400

**TooManyUpdates**

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400
Examples

Example

This example illustrates one usage of UpdateAssociation.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateAssociation
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T171857Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 87

{
    "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
    "ComplianceSeverity":"HIGH"
}
```

Sample Response

```
{
    "AssociationDescription":{
        "ApplyOnlyAtCronInterval":false,
        "AssociationId":"fa94c678-85c6-4d40-926b-7c791EXAMPLE",
        "AssociationVersion":2,
        "ComplianceSeverity":"HIGH",
        "Date":1.561053271583E9,
        "DocumentVersion":"$DEFAULT",
        "LastExecutionDate":1.582037438692E9,
        "LastSuccessfulExecutionDate":1.582037438692E9,
        "LastUpdateAssociationDate":1.585156739103E9,
        "Name":"AWS-UpdateSSMAgent",
        "Overview":{
            "DetailedStatus":"Creating",
            "Status":"Pending"
        },
        "Targets":[
            {
                "Key":"tag:ssm",
                "Values":[
                    "true"
                ]
            }
        ]
    }
}
```

See Also

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

- AWS Command Line Interface
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateAssociationStatus

Updates the status of the Systems Manager document associated with the specified instance.

Request Syntax

```json
{
    "AssociationStatus": {
        "AdditionalInfo": "string",
        "Date": number,
        "Message": "string",
        "Name": "string"
    },
    "InstanceId": "string",
    "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AssociationStatus (p. 499)**

The association status.

Type: AssociationStatus (p. 583) object

Required: Yes

**InstanceId (p. 499)**

The ID of the instance.

Type: String

Pattern: `(^i-(\w{8}|-\w{17})$)|(^mi-\w{17}$)`

Required: Yes

**Name (p. 499)**

The name of the Systems Manager document.

Type: String

Pattern: `^[a-zA-Z0-9\-\._/:]{3,128}$`

Required: Yes

Response Syntax

```json
{
    "AssociationDescription": {
```

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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.
AssociationDescription (p. 499)

Information about the association.

Type: AssociationDescription (p. 570) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

StatusUnchanged

The updated status is the same as the current status.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

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
• AWS SDK for .NET
See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateDocument

Updates one or more values for an SSM document.

Request Syntax

```json
{
    "Attachments": [
        {
            "Key": "string",
            "Name": "string",
            "Values": [ "string" ]
        }
    ],
    "Content": "string",
    "DisplayName": "string",
    "DocumentFormat": "string",
    "DocumentVersion": "string",
    "Name": "string",
    "TargetType": "string",
    "VersionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Attachments (p. 503)

A list of key and value pairs that describe attachments to a version of a document.

Type: Array of AttachmentsSource (p. 591) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

Content (p. 503)

A valid JSON or YAML string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

DisplayName (p. 503)

The friendly name of the Systems Manager document that you want to update. This value can differ for each version of the document. If you do not specify a value for this parameter in your request, the existing value is applied to the new document version.

Type: String

Length Constraints: Maximum length of 1024.
DocumentFormat (p. 503)

Specify the document format for the new document version. Systems Manager supports JSON and YAML documents. JSON is the default format.

Type: String

Valid Values: YAML | JSON | TEXT

Required: No

DocumentVersion (p. 503)

The version of the document that you want to update. Currently, Systems Manager supports updating only the latest version of the document. You can specify the version number of the latest version or use the $LATEST variable.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9][0-9]*$)

Required: No

Name (p. 503)

The name of the Systems Manager document that you want to update.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\(3,128\)$

Required: Yes

TargetType (p. 503)

Specify a new target type for the document.

Type: String

Length Constraints: Maximum length of 200.

Pattern: ^\/[\w\-\:\/]*$

Required: No

VersionName (p. 503)

An optional field specifying the version of the artifact you are updating with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String

Pattern: ^[a-zA-Z0-9\-\_.]{1,128}$

Required: No
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.
**DocumentDescription** *(p. 504)*

A description of the document that was updated.

Type: `DocumentDescription` *(p. 636)* object

**Errors**

For information about the errors that are common to all actions, see *Common Errors* *(p. 823).*

**DocumentVersionLimitExceeded**

The document has too many versions. Delete one or more document versions and try again.

HTTP Status Code: 400

**DuplicateDocumentContent**

The content of the association document matches another document. Change the content of the document and try again.

HTTP Status Code: 400

**DuplicateDocumentVersionName**

The version name has already been used in this document. Specify a different version name, and then try again.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentContent**

The content for the document is not valid.

HTTP Status Code: 400

**InvalidDocumentOperation**

You attempted to delete a document while it is still shared. You must stop sharing the document before you can delete it.

HTTP Status Code: 400

**InvalidDocumentSchemaVersion**

The version of the document schema is not supported.

HTTP Status Code: 400

**InvalidDocumentVersion**

The document version is not valid or does not exist.

HTTP Status Code: 400
MaxDocumentSizeExceeded

The size limit of a document is 64 KB.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UpdateDocument.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateDocument
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T180432Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 953

{
"Content":"---

description: "CreateImage"
schemaVersion: '0.3'
assumeRole:
  "{{ AutomationAssumeRole }}"
"Name":"CreateImage",
"DocumentVersion": "$LATEST",
"DocumentFormat": "YAML",
"DocumentType": "Automation",
"DocumentVersion": "2",
"DisplayName": "ExampleDoc",
"Hash": "ff7430df11be00b0593ac116b2570d488bd37a2a2fa7ddf49da67976eEXAMPLE",
"HashType": "Sha256",
"LatestVersion": "2",
"Owner": "111122223333",
"Parameters": [
  {
    "DefaultValue": "",
    "Description": "(Optional) The ARN of the role that allows Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses your IAM permissions to execute this document.",
    "Name": "AutomationAssumeRole",
    "Type": "String"
  }
}
```

Sample Response

```
{
  "DocumentDescription": {
    "CreatedDate": 1585159474781E9,
    "DefaultVersion": "1",
    "Description": "Example",
    "DisplayName": "ExampleDoc",
    "DocumentVersion": "$LATEST",
    "DocumentFormat": "YAML",
    "DocumentType": "Automation",
    "DocumentVersion": "2",
    "DisplayName": "ExampleDoc",
    "Hash": "ff7430df11be00b0593ac116b2570d488bd37a2a2fa7ddf49da67976eEXAMPLE",
    "HashType": "Sha256",
    "LatestVersion": "2",
    "Name": "CreateImage",
    "Owner": "111122223333",
    "Parameters": [
      {
        "DefaultValue": "",
        "Description": "(Optional) The ARN of the role that allows Automation to perform the actions on your behalf. If no role is specified, Systems Manager Automation uses your IAM permissions to execute this document.",
        "Name": "AutomationAssumeRole",
        "Type": "String"
      }
    ]
  }
}
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateDocumentDefaultVersion

Set the default version of a document.

Request Syntax

```
{
    "DocumentVersion": "string",
    "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentVersion (p. 509)**

The version of a custom document that you want to set as the default version.

Type: String

Pattern: `(^[1–9][0–9]*)$`

Required: Yes

**Name (p. 509)**

The name of a custom document that you want to set as the default version.

Type: String

Pattern: `^[a-zA-Z0-9\-_.]{3,128}$`

Required: Yes

Response Syntax

```
{
    "Description": {
        "DefaultVersion": "string",
        "DefaultVersionName": "string",
        "Name": "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.

**Description (p. 509)**

The description of a custom document that you want to set as the default version.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidDocument**

The specified document does not exist.

HTTP Status Code: 400

**InvalidDocumentSchemaVersion**

The version of the document schema is not supported.

HTTP Status Code: 400

**InvalidDocumentVersion**

The document version is not valid or does not exist.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UpdateDocumentDefaultVersion.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateDocumentDefaultVersion
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T183926Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 47

{
    "Name":"Example",
    "DocumentVersion":"2"
}
```

Sample Response

```
{
    "Description":{
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateDocumentMetadata

Updates information related to approval reviews for a specific version of a document.

Request Syntax

```
{
   "DocumentReviews": {
   "Action": "string",
   "Comment": [
   {
   "Content": "string",
   "Type": "string"
   }
   ],
   "DocumentVersion": "string",
   "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**DocumentReviews (p. 512)**

The document review details to update.

Type: DocumentReviews (p. 653) object

Required: Yes

**DocumentVersion (p. 512)**

The version of a document to update.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^\[1-9\][0-9]*)$

Required: No

**Name (p. 512)**

The name of the document for which a version is to be updated.

Type: String

Pattern: ^[a-zA-Z0-9_\.-]{3,128}$

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. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidDocumentOperation

You attempted to delete a document while it is still shared. You must stop sharing the document before you can delete it.

HTTP Status Code: 400

InvalidDocumentVersion

The document version is not valid or does not exist.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateMaintenanceWindow

Updates an existing maintenance window. Only specified parameters are modified.

**Note**
The value you specify for `Duration` determines the specific end time for the maintenance window based on the time it begins. No maintenance window tasks are permitted to start after the resulting endtime minus the number of hours you specify for `Cutoff`. For example, if the maintenance window starts at 3 PM, the duration is three hours, and the value you specify for `Cutoff` is one hour, no maintenance window tasks can start after 5 PM.

**Request Syntax**

```
{
    "AllowUnassociatedTargets": boolean,
    "Cutoff": number,
    "Description": "string",
    "Duration": number,
    "Enabled": boolean,
    "EndDate": "string",
    "Name": "string",
    "Replace": boolean,
    "Schedule": "string",
    "ScheduleOffset": number,
    "ScheduleTimezone": "string",
    "StartDate": "string",
    "WindowId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**AllowUnassociatedTargets (p. 514)**

Whether targets must be registered with the maintenance window before tasks can be defined for those targets.

Type: Boolean

Required: No

**Cutoff (p. 514)**

The number of hours before the end of the maintenance window that Systems Manager stops scheduling new tasks for execution.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: No

**Description (p. 514)**

An optional description for the update request.
Type: String
Required: No

**Duration (p. 514)**

The duration of the maintenance window in hours.
Type: Integer
Required: No

**Enabled (p. 514)**

Whether the maintenance window is enabled.
Type: Boolean
Required: No

**EndDate (p. 514)**

The date and time, in ISO-8601 Extended format, for when you want the maintenance window to become inactive. EndDate allows you to set a date and time in the future when the maintenance window will no longer run.
Type: String
Required: No

**Name (p. 514)**

The name of the maintenance window.
Type: String
Pattern: ^\[a-zA-Z0-9_\-\.]{3,128}$
Required: No

**Replace (p. 514)**

If True, then all fields that are required by the CreateMaintenanceWindow action are also required for this API request. Optional fields that are not specified are set to null.
Type: Boolean
Required: No

**Schedule (p. 514)**

The schedule of the maintenance window in the form of a cron or rate expression.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Required: No
ScheduleOffset (p. 514)
The number of days to wait after the date and time specified by a CRON expression before running the maintenance window.

For example, the following cron expression schedules a maintenance window to run the third Tuesday of every month at 11:30 PM.

cron(30 23 ? * TUE#3 *)

If the schedule offset is 2, the maintenance window won't run until two days later.

Type: Integer


Required: No

ScheduleTimezone (p. 514)
The time zone that the scheduled maintenance window executions are based on, in Internet Assigned Numbers Authority (IANA) format. For example: "America/Los_Angeles", "UTC", or "Asia/Seoul". For more information, see the Time Zone Database on the IANA website.

Type: String

Required: No

StartDate (p. 514)
The time zone that the scheduled maintenance window executions are based on, in Internet Assigned Numbers Authority (IANA) format. For example: "America/Los_Angeles", "UTC", or "Asia/Seoul". For more information, see the Time Zone Database on the IANA website.

Type: String

Required: No

WindowId (p. 514)
The ID of the maintenance window to update.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: Yes

Response Syntax

```json
{
    "AllowUnassociatedTargets": boolean,
    "Cutoff": number,
    "Description": "string",
    "Duration": number,
    "Enabled": boolean,
    "EndDate": "string",
    "Name": "string",
    "Schedule": "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.

AllowUnassociatedTargets (p. 516)

Whether targets must be registered with the maintenance window before tasks can be defined for those targets.

Type: Boolean

Cutoff (p. 516)

The number of hours before the end of the maintenance window that Systems Manager stops scheduling new tasks for execution.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Description (p. 516)

An optional description of the update.

Type: String


Duration (p. 516)

The duration of the maintenance window in hours.

Type: Integer


Enabled (p. 516)

Whether the maintenance window is enabled.

Type: Boolean

EndDate (p. 516)

The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to become inactive. The maintenance window will not run after this specified time.

Type: String

Name (p. 516)

The name of the maintenance window.

Type: String

Schedule (p. 516)

The schedule of the maintenance window in the form of a cron or rate expression.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

ScheduleOffset (p. 516)

The number of days to wait to run a maintenance window after the scheduled CRON expression date and time.

Type: Integer


ScheduleTimezone (p. 516)

The time zone that the scheduled maintenance window executions are based on, in Internet Assigned Numbers Authority (IANA) format. For example: "America/Los_Angeles", "UTC", or "Asia/Seoul". For more information, see the Time Zone Database on the IANA website.

Type: String

StartDate (p. 516)

The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to become active. The maintenance window will not run before this specified time.

Type: String

WindowId (p. 516)

The ID of the created maintenance window.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500
Examples

Example

This example illustrates one usage of UpdateMaintenanceWindow.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 160
X-Amz-Target: AmazonSSM.UpdateMaintenanceWindow
X-Amz-Date: 20180312T203703Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180312/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "Duration": 10,
    "WindowId": "mw-0c50858d01EXAMPLE",
    "Name": "Default-Maintenance-Window",
    "Description": "Standard maintenance windows for production servers"
}
```

Sample Response

```
{
    "AllowUnassociatedTargets": true,
    "Cutoff": 4,
    "Description": "Standard maintenance windows for production servers",
    "Duration": 10,
    "Enabled": true,
    "Name": "Default-Maintenance-Window",
    "Schedule": "rate(3 minutes)",
    "WindowId": "mw-0c50858d01EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateMaintenanceWindowTarget

Modifies the target of an existing maintenance window. You can change the following:

- Name
- Description
- Owner
- IDs for an ID target
- Tags for a Tag target
- From any supported tag type to another. The three supported tag types are ID target, Tag target, and resource group. For more information, see Target (p. 817).

**Note**

If a parameter is null, then the corresponding field is not modified.

**Request Syntax**

```json
{
   "Description": "string",
   "Name": "string",
   "OwnerInformation": "string",
   "Replace": boolean,
   "Targets": [
      {
         "Key": "string",
         "Values": [ "string" ]
      }
   ],
   "WindowId": "string",
   "WindowTargetId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**Description (p. 520)**

An optional description for the update.

Type: String


Required: No

**Name (p. 520)**

A name for the update.

Type: String

Response Syntax

```json
{
    "Description": "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.

Description (p. 521)

The updated description.
Type: String

Name (p. 521)

The updated name.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$

OwnerInformation (p. 521)

The updated owner.
Type: String

Targets (p. 521)

The updated targets.
Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.

WindowId (p. 521)

The maintenance window ID specified in the update request.
Type: String
Pattern: ^mw-[0-9a-f]{17}$

WindowTargetId (p. 521)

The target ID specified in the update request.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

DoesNotExistException

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of UpdateMaintenanceWindowTarget.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateMaintenanceWindowTarget
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T005329Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 233

{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE",
    "Targets": [
        {
            "Key": "InstanceIds",
            "Values": [
                "i-07782c72faEXAMPLE"
            ]
        }
    ],
    "Name": "MyNewTaskName",
}
"Description": "My new task description"
}

Sample Response

{
  "Description": "My new task description",
  "Name": "MyNewTaskName",
  "Targets": [
    {
      "Key": "InstanceIds",
      "Values": ["i-07782c72faEXAMPLE"
    }
  ],
  "WindowId": "mw-0c50858d01EXAMPLE",
  "WindowTargetId": "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateMaintenanceWindowTask

Modifies a task assigned to a maintenance window. You can't change the task type, but you can change the following values:

- TaskARN. For example, you can change a RUN_COMMAND task from AWS-RunPowerShellScript to AWS-RunShellScript.
- ServiceRoleArn
- TaskInvocationParameters
- Priority
- MaxConcurrency
- MaxErrors

**Note**

One or more targets must be specified for maintenance window Run Command-type tasks. Depending on the task, targets are optional for other maintenance window task types (Automation, AWS Lambda, and AWS Step Functions). For more information about running tasks that do not specify targets, see Registering maintenance window tasks without targets in the AWS Systems Manager User Guide.

If the value for a parameter in UpdateMaintenanceWindowTask is null, then the corresponding field is not modified. If you set Replace to true, then all fields required by the RegisterTaskWithMaintenanceWindow (p. 437) action are required for this request. Optional fields that aren't specified are set to null.

**Important**

When you update a maintenance window task that has options specified in TaskInvocationParameters, you must provide again all the TaskInvocationParameters values that you want to retain. The values you do not specify again are removed. For example, suppose that when you registered a Run Command task, you specified TaskInvocationParameters values for Comment, NotificationConfig, and OutputS3BucketName. If you update the maintenance window task and specify only a different OutputS3BucketName value, the values for Comment and NotificationConfig are removed.

**Request Syntax**

```json
{
   "Description": "string",
   "LoggingInfo": {
      "S3BucketName": "string",
      "S3KeyPrefix": "string",
      "S3Region": "string"
   },
   "MaxConcurrency": "string",
   "MaxErrors": "string",
   "Name": "string",
   "Priority": number,
   "Replace": boolean,
   "ServiceRoleArn": "string",
   "Targets": [
      {
         "Key": "string",
         "Values": [ "string" ]
      }
   ],
}
```

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"TaskArn": "string",
"TaskInvocationParameters": {
  "Automation": {
    "DocumentVersion": "string",
    "Parameters": {
      "string": [ "string" ]
    }
  },
  "Lambda": {
    "ClientContext": "string",
    "Payload": blob,
    "Qualifier": "string"
  },
  "RunCommand": {
    "CloudWatchOutputConfig": {
      "CloudWatchLogGroupName": "string",
      "CloudWatchOutputEnabled": boolean
    },
    "Comment": "string",
    "DocumentHash": "string",
    "DocumentHashType": "string",
    "DocumentVersion": "string",
    "NotificationConfig": {
      "NotificationArn": "string",
      "NotificationEvents": [ "string" ],
      "NotificationType": "string"
    },
    "OutputS3BucketName": "string",
    "OutputS3KeyPrefix": "string",
    "Parameters": {
      "string": [ "string" ]
    },
    "ServiceRoleArn": "string",
    "TimeoutSeconds": number
  },
  "StepFunctions": {
    "Input": "string",
    "Name": "string"
  }
},
"TaskParameters": {
  "string": {
    "Values": [ "string" ]
  }
},
"WindowId": "string",
"WindowTaskId": "string"

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

Description (p. 525)

The new task description to specify.

Type: String

Request Parameters

Required: No

LoggingInfo (p. 525)

The new logging location in Amazon S3 to specify.

Note
LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: LoggingInfo (p. 691) object

Required: No

MaxConcurrency (p. 525)

The new MaxConcurrency value you want to specify. MaxConcurrency is the number of targets that are allowed to run this task in parallel.

Note
For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. This value does not affect the running of your task and can be ignored.

Type: String


Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)$

Required: No

MaxErrors (p. 525)

The new MaxErrors value to specify. MaxErrors is the maximum number of errors that are allowed before the task stops being scheduled.

Note
For maintenance window tasks without a target specified, you cannot supply a value for this option. Instead, the system inserts a placeholder value of 1, which may be reported in the response to this command. This value does not affect the running of your task and can be ignored.

Type: String


Pattern: ^([1-9][0-9]*|[0]|1[0-9][0-9]|0|100%)$

Required: No

Name (p. 525)

The new task name to specify.

Type: String


Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$
## Request Parameters

### Priority (p. 525)

The new task priority to specify. The lower the number, the higher the priority. Tasks that have the same priority are scheduled in parallel.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### Replace (p. 525)

If True, then all fields that are required by the RegisterTaskWithMaintenanceWindow action are also required for this API request. Optional fields that are not specified are set to null.

Type: Boolean

Required: No

### ServiceRoleArn (p. 525)

The ARN of the IAM service role for Systems Manager to assume when running a maintenance window task. If you do not specify a service role ARN, Systems Manager uses your account's service-linked role. If no service-linked role for Systems Manager exists in your account, it is created when you run `RegisterTaskWithMaintenanceWindow`.

For more information, see the following topics in the [AWS Systems Manager User Guide](https://docs.aws.amazon.com/systems-manager/latest/userguide/)

- [Using service-linked roles for Systems Manager](https://docs.aws.amazon.com/systems-manager/latest/userguide/)
- [Should I use a service-linked role or a custom service role to run maintenance window tasks?](https://docs.aws.amazon.com/systems-manager/latest/userguide/)

Type: String

Required: No

### Targets (p. 525)

The targets (either instances or tags) to modify. Instances are specified using `Key=instanceids,Values=instanceID_1,instanceID_2`. Tags are specified using `Key=tag_name,Values=tag_value`.

**Note**

One or more targets must be specified for maintenance window Run Command-type tasks. Depending on the task, targets are optional for other maintenance window task types (Automation, AWS Lambda, and AWS Step Functions). For more information about running tasks that do not specify targets, see [Registering maintenance window tasks without targets](https://docs.aws.amazon.com/systems-manager/latest/userguide/)

Type: Array of `Target (p. 817)` objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### TaskArn (p. 525)

The task ARN to modify.

Type: String

Request Parameters

**TaskInvocationParameters (p. 525)**

The parameters that the task should use during execution. Populate only the fields that match the task type. All other fields should be empty.

**Important**
When you update a maintenance window task that has options specified in TaskInvocationParameters, you must provide again all the TaskInvocationParameters values that you want to retain. The values you do not specify again are removed. For example, suppose that when you registered a Run Command task, you specified TaskInvocationParameters values for Comment, NotificationConfig, and OutputS3BucketName. If you update the maintenance window task and specify only a different OutputS3BucketName value, the values for Comment and NotificationConfig are removed.

Type: MaintenanceWindowTaskInvocationParameters (p. 717) object

**TaskParameters (p. 525)**

The parameters to modify.

**Note**
TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

The map has the following format:

- **Key**: string, between 1 and 255 characters
- **Value**: an array of strings, each string is between 1 and 255 characters

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 718) object map

**WindowId (p. 525)**

The maintenance window ID that contains the task to modify.

Type: String


Pattern: ^mw-\[0-9a-f]{17}$

Required: Yes

**WindowTaskId (p. 525)**

The task ID to modify.

Type: String

Length Constraints: Fixed length of 36.
Response Syntax

```json
{
  "Description": "string",
  "LoggingInfo": {
    "S3BucketName": "string",
    "S3KeyPrefix": "string",
    "S3Region": "string"
  },
  "MaxConcurrency": "string",
  "MaxErrors": "string",
  "Name": "string",
  "Priority": number,
  "ServiceRoleArn": "string",
  "Targets": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "TaskArn": "string",
  "TaskInvocationParameters": {
    "Automation": {
      "DocumentVersion": "string",
      "Parameters": {
        "string": [ "string" ]
      }
    },
    "Lambda": {
      "ClientContext": "string",
      "Payload": "blob",
      "Qualifier": "string"
    },
    "RunCommand": {
      "CloudWatchOutputConfig": {
        "CloudWatchLogGroupName": "string",
        "CloudWatchOutputEnabled": boolean
      },
      "Comment": "string",
      "DocumentHash": "string",
      "DocumentHashType": "string",
      "DocumentVersion": "string",
      "NotificationConfig": {
        "NotificationArn": "string",
        "NotificationEvents": [ "string" ],
        "NotificationType": "string"
      },
      "OutputS3BucketName": "string",
      "OutputS3KeyPrefix": "string",
      "Parameters": {
        "string": [ "string" ]
      },
      "ServiceRoleArn": "string",
      "TimeoutSeconds": number
    },
    "StepFunctions": {
      "Input": "string",
      "Name": "string"
    }
  }
}
```

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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.

Description (p. 530)

The updated task description.

Type: String


LoggingInfo (p. 530)

The updated logging information in Amazon S3.

Note

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: LoggingInfo (p. 691) object

MaxConcurrency (p. 530)

The updated MaxConcurrency value.

Type: String


Pattern: ^([1-9]\d*|[1-9]\d%|100%)$

MaxErrors (p. 530)

The updated MaxErrors value.

Type: String


Pattern: ^([1-9]\d*|[0]\d|[1-9]\d%|0%|100%)$

Name (p. 530)

The updated task name.

Type: String

Pattern: ^[a-zA-Z0-9-\._\-]{3,128}$

**Priority (p. 530)**

The updated priority value.

Type: Integer

Valid Range: Minimum value of 0.

**ServiceRoleArn (p. 530)**

The ARN of the IAM service role to use to publish Amazon Simple Notification Service (Amazon SNS) notifications for maintenance window Run Command tasks.

Type: String

**Targets (p. 530)**

The updated target values.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

**TaskArn (p. 530)**

The updated task ARN value.

Type: String


**TaskInvocationParameters (p. 530)**

The updated parameter values.

Type: MaintenanceWindowTaskInvocationParameters (p. 717) object

**TaskParameters (p. 530)**

The updated parameter values.

**Note**

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 718) object map

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

**WindowId (p. 530)**

The ID of the maintenance window that was updated.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

**WindowTaskId (p. 530)**

The task ID of the maintenance window that was updated.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

Examples

Example

This example illustrates one usage of UpdateMaintenanceWindowTask.

Sample Request

```json
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateMaintenanceWindowTask
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0.0 Python/3.7.5 Windows/10 botocore/2.0.0dev4
X-Amz-Date: 20200225T010531Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200225/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 244

{
    "WindowId": "mw-0c50858d01EXAMPLE",
    "WindowTaskId": "50772993-c6b5-4a2a-8d04-7bf7EXAMPLE",
    "Priority": 2,
    "MaxConcurrency": "10",
    "MaxErrors": "3",
    "Name": "MyRevisedMaintenanceWindowTask",
    "Description": "My updated maintenance window task",
    "ServiceRoleArn": "arn:aws:iam::111122223333:role/aws-service-role/ssm.amazonaws.com/MyCustomMaintenanceWindowTaskRole"
}
```
Sample Response

```json
{
  "Description": "My updated maintenance window task",
  "MaxConcurrency": "10",
  "MaxErrors": "3",
  "Name": "MyRevisedMaintenanceWindowTask",
  "Priority": 2,
  "ServiceRoleArn": "arn:aws:iam::111122223333:role/aws-service-role/ssm.amazonaws.com/MyCustomMaintenanceWindowTaskRole",
  "Targets": [
    {
      "Key": "WindowTargetIds",
      "Values": [
        "23639a0b-ddbc-4bca-9e72-78d96EXAMPLE"
      ]
    }
  ],
  "TaskArn": "AWS-ApplyPatchBaseline",
  "TaskInvocationParameters": {
    "RunCommand": {
      "Comment": "",
      "Parameters": {
        "Operation": [
          "Install"
        ],
        "SnapshotId": [
          ""
        ]
      },
      "TimeoutSeconds": 600
    }
  },
  "TaskParameters": {},
  "WindowId": "mw-0c50858d01EXAMPLE",
  "WindowTaskId": "50772993-c6b5-4a2a-8d04-7bf7EXAMPLE"
}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateManagedInstanceRole

Changes the Amazon Identity and Access Management (IAM) role that is assigned to the on-premises instance or virtual machines (VM). IAM roles are first assigned to these hybrid instances during the activation process. For more information, see CreateActivation (p. 19).

Request Syntax

```
{
   "IamRole": "string",
   "InstanceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**IamRole (p. 535)**

The IAM role you want to assign or change.

Type: String

Length Constraints: Maximum length of 64.

Required: Yes

**InstanceId (p. 535)**

The ID of the managed instance where you want to update the role.

Type: String

Pattern: `^mi-[0-9a-f]{17}$`

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. 823).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**InvalidInstanceId**

The following problems can cause this exception:
You do not have permission to access the instance.

SSM Agent is not running. Verify that SSM Agent is running.

SSM Agent is not registered with the SSM endpoint. Try reinstalling SSM Agent.

The instance is not in valid state. Valid states are: Running, Pending, Stopped, Stopping. Invalid states are: Shutting-down and Terminated.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UpdateManagedInstanceRole.

Sample Request

```plaintext
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateManagedInstanceRole
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200325T191724Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200325/us-east-2/ssm/aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 56

{
    "InstanceId":"mi-0ce084dd39EXAMPLE",
    "IamRole":"SSM"
}
```

Sample Response

```plaintext
{}
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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UpdateOpsItem

Edit or change an OpsItem. You must have permission in AWS Identity and Access Management (IAM) to update an OpsItem. For more information, see Getting started with OpsCenter in the AWS Systems Manager User Guide.

Operations engineers and IT professionals use OpsCenter to view, investigate, and remediate operational issues impacting the performance and health of their AWS resources. For more information, see AWS Systems Manager OpsCenter in the AWS Systems Manager User Guide.

Request Syntax

```json
{
  "ActualEndTime": number,
  "ActualStartTime": number,
  "Category": "string",
  "Description": "string",
  "Notifications": [ {
    "Arn": "string"
  } ],
  "OperationalData": {
    "string": {
      "Type": "string",
      "Value": "string"
    }
  },
  "OperationalDataToDelete": [ "string" ],
  "OpsItemId": "string",
  "PlannedEndTime": number,
  "PlannedStartTime": number,
  "Priority": number,
  "RelatedOpsItems": [ {
    "OpsItemId": "string"
  } ],
  "Severity": "string",
  "Status": "string",
  "Title": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**ActualEndTime (p. 538)**

The time a runbook workflow ended. Currently reported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No
**ActualStartTime (p. 538)**

The time a runbook workflow started. Currently reported only for the OpsItem type `/aws/changerequest`.

Type: Timestamp

Required: No

**Category (p. 538)**

Specify a new category for an OpsItem.

Type: String

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

Pattern: `^(?!\s*$).+`

Required: No

**Description (p. 538)**

Update the information about the OpsItem. Provide enough information so that users reading this OpsItem for the first time understand the issue.

Type: String

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

Pattern: `[\s\S]*`\S[\s\S]*`

Required: No

**Notifications (p. 538)**

The Amazon Resource Name (ARN) of an SNS topic where notifications are sent when this OpsItem is edited or changed.

Type: Array of `OpsItemNotification (p. 737)` objects

Required: No

**OperationalData (p. 538)**

Add new keys or edit existing key-value pairs of the OperationalData map in the OpsItem object.

Operational data is custom data that provides useful reference details about the OpsItem. For example, you can specify log files, error strings, license keys, troubleshooting tips, or other relevant data. You enter operational data as key-value pairs. The key has a maximum length of 128 characters. The value has a maximum size of 20 KB.

**Important**

Operational data keys can't begin with the following: `amazon`, `aws`, `amzn`, `ssm`, `/amazon`, `/aws`, `/amzn`, `/ssm`.

You can choose to make the data searchable by other users in the account or you can restrict search access. Searchable data means that all users with access to the OpsItem Overview page (as provided by the DescribeOpsItems (p. 207) API action) can view and search on the specified data. Operational data that is not searchable is only viewable by users who have access to the OpsItem (as provided by the GetOpsItem (p. 301) API action).

Use the `/aws/resources` key in OperationalData to specify a related resource in the request. Use the `/aws/automations` key in OperationalData to associate an Automation runbook with the
OpsItem. To view AWS CLI example commands that use these keys, see Creating OpsItems manually in the AWS Systems Manager User Guide.

Type: String to OpsItemDataValue (p. 731) object map

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

Key Pattern: ^(?![\s$]).+$

Required: No

OperationalDataToDelete (p. 538)

Keys that you want to remove from the OperationalData map.

Type: Array of strings

Required: No

OpsItemld (p. 538)

The ID of the OpsItem.

Type: String

Pattern: ^\(oi\)-[0-9a-f]{12}$

Required: Yes

PlannedEndTime (p. 538)

The time specified in a change request for a runbook workflow to end. Currently supported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

PlannedStartTime (p. 538)

The time specified in a change request for a runbook workflow to start. Currently supported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

Priority (p. 538)

The importance of this OpsItem in relation to other OpsItems in the system.

Type: Integer


Required: No

RelatedOpsItems (p. 538)

One or more OpsItems that share something in common with the current OpsItems. For example, related OpsItems can include OpsItems with similar error messages, impacted resources, or statuses for the impacted resource.

Type: Array of RelatedOpsItem (p. 781) objects

Required: No
Severity (p. 538)

Specify a new severity for an OpsItem.

Type: String

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

Pattern: ^(?!\s*$).+

Required: No

Status (p. 538)

The OpsItem status. Status can be Open, In Progress, or Resolved. For more information, see Editing OpsItem details in the AWS Systems Manager User Guide.

Type: String

Valid Values: Open | InProgress | Resolved | Pending | TimedOut | Cancelling | Cancelled | Failed | CompletedWithSuccess | CompletedWithFailure | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | PendingApproval | Approved | Rejected

Required: No

Title (p. 538)

A short heading that describes the nature of the OpsItem and the impacted resource.

Type: String


Pattern: ^(?!\s*$).+

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. 823).

InternalServer Error

An error occurred on the server side.

HTTP Status Code: 500

OpsItemAlreadyExistsException

The OpsItem already exists.

HTTP Status Code: 400

OpsItemInvalidParameterException

A specified parameter argument isn't valid. Verify the available arguments and try again.
HTTP Status Code: 400
**OpsItemLimitExceededException**

The request caused OpsItems to exceed one or more quotas. For information about OpsItem quotas, see [What are the resource limits for OpsCenter?](#).

HTTP Status Code: 400
**OpsItemNotFoundException**

The specified OpsItem ID doesn't exist. Verify the ID and try again.

HTTP Status Code: 400

**Examples**

**Example**

This example illustrates one usage of `UpdateOpsItem`.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateOpsItem
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200401T184738Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200401/us-east-2/ssm/aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 54

{
   "Status":"Resolved",
   "OpsItemId":"oi-1f050EXAMPLE"
}
```

**Sample Response**

```
{}
```

**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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
UpdateOpsMetadata

 Systems Manager calls this API action when you edit OpsMetadata in Application Manager.

 Request Syntax

```json
{
    "KeysToDelete": [ "string" ],
    "MetadataToUpdate": {
        "string": {
            "Value": "string"
        }
    },
    "OpsMetadataArn": "string"
}
```

 Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**KeysToDelete (p. 544)**

The metadata keys to delete from the OpsMetadata object.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^(?![\s$]).+$

Required: No

**MetadataToUpdate (p. 544)**

Metadata to add to an OpsMetadata object.

Type: String to MetadataValue (p. 719) object map

Map Entries: Maximum number of 5 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: ^(?![\s$]).+$

Required: No

**OpsMetadataArn (p. 544)**

The Amazon Resource Name (ARN) of the OpsMetadata Object to update.

Type: String

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

Pattern: arn:((aws[a-zA-Z-]*)?:ssm:[a-z0-9-\.]{0,63}:([a-z0-9-\.]{0,63}:opsmetadata/([a-zA-Z0-9-\.\/]+))?)*
Required: Yes

Response Syntax

```
{
  "OpsMetadataArn": "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.

**OpsMetadataArn (p. 545)**

The Amazon Resource Name (ARN) of the OpsMetadata Object that was updated.

*Type:* String

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

*Pattern:* `arn:(aws[a-zA-Z-]*)?:ssm:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:opsmetadata/([a-zA-Z0-9-_.\/]*)`

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 823)](#).

**InternalServerError**

An error occurred on the server side.

HTTP Status Code: 500

**OpsMetadataInvalidArgumentException**

One of the arguments passed is invalid.

HTTP Status Code: 400

**OpsMetadataKeyLimitExceededException**

The OpsMetadata object exceeds the maximum number of OpsMetadata keys that you can assign to an application in Application Manager.

HTTP Status Code: 400

**OpsMetadataNotFoundException**

The OpsMetadata object does not exist.

HTTP Status Code: 400

**OpsMetadataTooManyUpdatesException**

The system is processing too many concurrent updates. Wait a few moments and try again.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdatePatchBaseline

Modifies an existing patch baseline. Fields not specified in the request are left unchanged.

**Note**
For information about valid key and value pairs in `PatchFilters` for each supported operating system type, see [PatchFilter](#).

**Request Syntax**

```json
{
  "ApprovalRules": {
    "PatchRules": [
      {
        "ApproveAfterDays": number,
        "ApproveUntilDate": "string",
        "ComplianceLevel": "string",
        "EnableNonSecurity": boolean,
        "PatchFilterGroup": {
          "PatchFilters": [
            {
              "Key": "string",
              "Values": [ "string" ]
            }
          ]
        }
      }
    ],
    "ApprovedPatches": [ "string" ],
    "ApprovedPatchesComplianceLevel": "string",
    "ApprovedPatchesEnableNonSecurity": boolean,
    "BaselineId": "string",
    "Description": "string",
    "GlobalFilters": {
      "PatchFilters": [
        {
          "Key": "string",
          "Values": [ "string" ]
        }
      ]
    },
    "Name": "string",
    "RejectedPatches": [ "string" ],
    "RejectedPatchesAction": "string",
    "Replace": boolean,
    "Sources": [
      {
        "Configuration": "string",
        "Name": "string",
        "Products": [ "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.
**ApprovalRules (p. 547)**

A set of rules used to include patches in the baseline.

Type: `PatchRuleGroup (p. 775)` object

Required: No

**ApprovedPatches (p. 547)**

A list of explicitly approved patches for the baseline.

For information about accepted formats for lists of approved patches and rejected patches, see About package name formats for approved and rejected patch lists in the AWS Systems Manager User Guide.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

**ApprovedPatchesComplianceLevel (p. 547)**

Assigns a new compliance severity level to an existing patch baseline.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

**ApprovedPatchesEnableNonSecurity (p. 547)**

Indicates whether the list of approved patches includes non-security updates that should be applied to the instances. The default value is 'false'. Applies to Linux instances only.

Type: Boolean

Required: No

**BaselineId (p. 547)**

The ID of the patch baseline to update.

Type: String


Pattern: `^[a-zA-Z0-9_\-:/]{20,128}$`

Required: Yes

**Description (p. 547)**

A description of the patch baseline.

Type: String


Required: No
GlobalFilters (p. 547)
A set of global filters used to include patches in the baseline.
Type: PatchFilterGroup (p. 770) object
Required: No

Name (p. 547)
The name of the patch baseline.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]\(3,128\)$
Required: No

RejectedPatches (p. 547)
A list of explicitly rejected patches for the baseline.
For information about accepted formats for lists of approved patches and rejected patches, see About package name formats for approved and rejected patch lists in the AWS Systems Manager User Guide.
Type: Array of strings
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

RejectedPatchesAction (p. 547)
The action for Patch Manager to take on patches included in the RejectedPackages list.
• ALLOW_AS_DEPENDENCY: A package in the Rejected patches list is installed only if it is a dependency of another package. It is considered compliant with the patch baseline, and its status is reported as InstalledOther. This is the default action if no option is specified.
• BLOCK: Packages in the RejectedPatches list, and packages that include them as dependencies, are not installed under any circumstances. If a package was installed before it was added to the Rejected patches list, it is considered non-compliant with the patch baseline, and its status is reported as InstalledRejected.
Type: String
Valid Values: ALLOW_AS_DEPENDENCY | BLOCK
Required: No

Replace (p. 547)
If True, then all fields that are required by the CreatePatchBaseline action are also required for this API request. Optional fields that are not specified are set to null.
Type: Boolean
Required: No

Sources (p. 547)
Information about the patches to use to update the instances, including target operating systems and source repositories. Applies to Linux instances only.
Type: Array of **PatchSource** (p. 776) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

Response Syntax

```json
{
    "ApprovalRules": {
        "PatchRules": [
            {
                "ApproveAfterDays": number,
                "ApproveUntilDate": "string",
                "ComplianceLevel": "string",
                "EnableNonSecurity": boolean,
                "PatchFilterGroup": {
                    "PatchFilters": [
                        {
                            "Key": "string",
                            "Values": [ "string" ]
                        }
                    ]
                }
            }
        ],
        "ApprovedPatches": [ "string" ],
        "ApprovedPatchesComplianceLevel": "string",
        "ApprovedPatchesEnableNonSecurity": boolean,
        "BaselineId": "string",
        "CreatedDate": number,
        "Description": "string",
        "GlobalFilters": {
            "PatchFilters": [
                {
                    "Key": "string",
                    "Values": [ "string" ]
                }
            ]
        },
        "ModifiedDate": number,
        "Name": "string",
        "OperatingSystem": "string",
        "RejectedPatches": [ "string" ],
        "RejectedPatchesAction": "string",
        "Sources": [
            {
                "Configuration": "string",
                "Name": "string",
                "Products": [ "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.

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550
ApprovalRules (p. 550)
A set of rules used to include patches in the baseline.
Type: PatchRuleGroup (p. 775) object

ApprovedPatches (p. 550)
A list of explicitly approved patches for the baseline.
Type: Array of strings
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Length Constraints: Minimum length of 1. Maximum length of 100.

ApprovedPatchesComplianceLevel (p. 550)
The compliance severity level assigned to the patch baseline after the update completed.
Type: String
Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

ApprovedPatchesEnableNonSecurity (p. 550)
Indicates whether the list of approved patches includes non-security updates that should be applied to the instances. The default value is 'false'. Applies to Linux instances only.
Type: Boolean

BaselineId (p. 550)
The ID of the deleted patch baseline.
Type: String
Pattern: ^[a-zA-Z0-9_\-:/]{20,128}$

CreatedDate (p. 550)
The date when the patch baseline was created.
Type: Timestamp

Description (p. 550)
A description of the Patch Baseline.
Type: String

GlobalFilters (p. 550)
A set of global filters used to exclude patches from the baseline.
Type: PatchFilterGroup (p. 770) object

ModifiedDate (p. 550)
The date when the patch baseline was last modified.
Type: Timestamp

Name (p. 550)
The name of the patch baseline.
Type: String


Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$

**OperatingSystem (p. 550)**

The operating system rule used by the updated patch baseline.

Type: String

Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

**RejectedPatches (p. 550)**

A list of explicitly rejected patches for the baseline.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

**RejectedPatchesAction (p. 550)**

The action specified to take on patches included in the RejectedPatches list. A patch can be allowed only if it is a dependency of another package, or blocked entirely along with packages that include it as a dependency.

Type: String

Valid Values: ALLOW_AS_DEPENDENCY | BLOCK

**Sources (p. 550)**

Information about the patches to use to update the instances, including target operating systems and source repositories. Applies to Linux instances only.

Type: Array of PatchSource (p. 776) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 823).

**DoesNotExistException**

Error returned when the ID specified for a resource, such as a maintenance window or Patch baseline, doesn't exist.

For information about resource quotas in Systems Manager, see Systems Manager service quotas in the AWS General Reference.

HTTP Status Code: 400

**InternalServerErrorCode**

An error occurred on the server side.

HTTP Status Code: 500
Examples

Example

This example illustrates one usage of UpdatePatchBaseline.

Sample Request

POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 306
X-Amz-Target: AmazonSSM.UpdatePatchBaseline
X-Amz-Date: 20180309T023346Z
User-Agent: aws-cli/1.11.180 Python/2.7.9 Windows/8 botocore/1.7.38
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20180309/us-east-2/ssm/aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE

{
    "ApprovalRules": {
        "PatchRules": [
            {
                "PatchFilterGroup": {
                    "PatchFilters": [
                        {
                            "Values": [
                                "Critical",
                                "Important"
                            ],
                            "Key": "MSRC_SEVERITY"
                        },
                        {
                            "Values": [
                                "SecurityUpdates",
                                "Updates",
                                "UpdateRollups",
                                "CriticalUpdates"
                            ],
                            "Key": "CLASSIFICATION"
                        }
                    ]
                },
                "ApproveAfterDays": 3
            }
        ]
    },
    "BaselineId": "pb-0c10e65780EXAMPLE"
}

Sample Response

{
    "ApprovalRules": {
        "PatchRules": [
            {
                "ApproveAfterDays": 3,
                "ComplianceLevel": "UNSPECIFIED",
                "EnableNonSecurity": false,
                "PatchFilterGroup": {

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"PatchFilters": [
  {
    "Key": "MSRC_SEVERITY",
    "Values": [
      "Critical",
      "Important"
    ]
  },
  {
    "Key": "CLASSIFICATION",
    "Values": [
      "SecurityUpdates",
      "Updates",
      "UpdateRollups",
      "CriticalUpdates"
    ]
  }
]
"ApprovedPatches": [],
"ApprovedPatchesComplianceLevel": "UNSPECIFIED",
"ApprovedPatchesEnableNonSecurity": false,
"BaselineId": "pb-0c10e65780EXAMPLE",
"Description": "Baseline containing all updates approved for production systems",
"GlobalFilters": {
  "PatchFilters": []
},
"CreatedDate": 1520562237.968,
"ModifiedDate": 1520562239.765,
"Name": "my-Windows-Server-patch-baseline",
"OperatingSystem": "WINDOWS",
"RejectedPatches": [],
"RejectedPatchesAction": "ALLOW_AS_DEPENDENCY",
"Sources": []
}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Update a resource data sync. After you create a resource data sync for a Region, you can't change the account options for that sync. For example, if you create a sync in the us-east-2 (Ohio) Region and you choose the Include only the current account option, you can't edit that sync later and choose the include all accounts from my AWS Organizations configuration option. Instead, you must delete the first resource data sync, and create a new one.

**Note**
This API action only supports a resource data sync that was created with a SyncFromSource SyncType.

### Request Syntax

```json
{
  "SyncName": "string",
  "SyncSource": {
    "AwsOrganizationsSource": {
      "OrganizationalUnits": [
        {
          "OrganizationalUnitId": "string"
        }
      ],
      "OrganizationSourceType": "string"
    },
    "EnableAllOpsDataSources": boolean,
    "IncludeFutureRegions": boolean,
    "SourceRegions": [ "string" ],
    "SourceType": "string"
  }
}
```

### Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

**SyncName (p. 555)**

The name of the resource data sync you want to update.

Type: String

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

Required: Yes

**SyncSource (p. 555)**

Specify information about the data sources to synchronize.

Type: ResourceDataSyncSource (p. 792) object

Required: Yes

**SyncType (p. 555)**

The type of resource data sync. The supported SyncType is SyncFromSource.
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. 823).

**InternalServer**

An error occurred on the server side.

HTTP Status Code: 500

**ResourceDataSyncConflict**

Another `UpdateResourceDataSync` request is being processed. Wait a few minutes and try again.

HTTP Status Code: 400

**ResourceDataSyncInvalid**

The specified sync configuration is invalid.

HTTP Status Code: 400

**ResourceDataSyncNotFound**

The specified sync name was not found.

HTTP Status Code: 400

Examples

**Example**

This example illustrates one usage of `UpdateResourceDataSync`.

**Sample Request**

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonSSM.UpdateResourceDataSync
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.17.12 Python/3.6.8 Darwin/18.7.0 botocore/1.14.12
X-Amz-Date: 20200327T160454Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20200327/us-east-2/ssm/aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=39c3b3042cd2aEXAMPLE
Content-Length: 161

{
```
"SyncName":"exampleSync",
"SyncType":"SyncFromSource",
"SyncSource":{
  "SourceType":"SingleAccountMultiRegions",
  "SourceRegions":[
    "us-east-2",
    "us-west-2"
  ]
}
}

Sample Response
{}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateServiceSetting

ServiceSetting is an account-level setting for an AWS service. This setting defines how a user interacts with or uses a service or a feature of a service. For example, if an AWS service charges money to the account based on feature or service usage, then the AWS service team might create a default setting of “false”. This means the user can’t use this feature unless they change the setting to “true” and intentionally opt in for a paid feature.

Services map a SettingId object to a setting value. AWS services teams define the default value for a SettingId. You can’t create a new SettingId, but you can overwrite the default value if you have the ssm:UpdateServiceSetting permission for the setting. Use the GetServiceSetting (p. 337) API action to view the current value. Or, use the ResetServiceSetting (p. 447) to change the value back to the original value defined by the AWS service team.

Update the service setting for the account.

Request Syntax

```json
{
   "SettingId": "string",
   "SettingValue": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 821).

The request accepts the following data in JSON format.

SettingId (p. 558)

The Amazon Resource Name (ARN) of the service setting to reset. For example, arn:aws:ssm:us-east-1:111122223333:servicesetting/ssm/parameter-store/high-throughput-enabled. The setting ID can be one of the following.

- /ssm/automation/customer-script-log-destination
- /ssm/automation/customer-script-log-group-name
- /ssm/documents/console/public-sharing-permission
- /ssm/parameter-store/default-parameter-tier
- /ssm/parameter-store/high-throughput-enabled
- /ssm/managed-instance/activation-tier

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: Yes

SettingValue (p. 558)

The new value to specify for the service setting. For the /ssm/parameter-store/default-parameter-tier setting ID, the setting value can be one of the following.

- Standard
- Advanced
• Intelligent-Tiering

For the /ssm/parameter-store/high-throughput-enabled, and /ssm/managed-instance/activation-tier setting IDs, the setting value can be true or false.

For the /ssm/automation/customer-script-log-destination setting ID, the setting value can be CloudWatch.

For the /ssm/automation/customer-script-log-group-name setting ID, the setting value can be the name of a CloudWatch Logs log group.

For the /ssm/documents/console/public-sharing-permission setting ID, the setting value can be Enable or Disable.

Type: String


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. 823).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 500

ServiceSettingNotFound

The specified service setting was not found. Either the service name or the setting has not been provisioned by the AWS service team.

HTTP Status Code: 400

TooManyUpdates

There are concurrent updates for a resource that supports one update at a time.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UpdateServiceSetting.

Sample Request

```
POST / HTTP/1.1
Host: ssm.us-east-2.amazonaws.com
```
Sample Response

{}

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Data Types

The Amazon Simple Systems Manager (SSM) 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:

- AccountSharingInfo (p. 565)
- Activation (p. 566)
- Association (p. 568)
- AssociationDescription (p. 570)
- AssociationExecution (p. 575)
- AssociationExecutionFilter (p. 577)
- AssociationExecutionTarget (p. 578)
- AssociationExecutionTargetsFilter (p. 580)
- AssociationFilter (p. 581)
- AssociationOverview (p. 582)
- AssociationStatus (p. 583)
- AssociationVersionInfo (p. 584)
- AttachmentContent (p. 588)
- AttachmentInformation (p. 590)
- AttachmentsSource (p. 591)
- AutomationExecution (p. 593)
- AutomationExecutionFilter (p. 599)
- AutomationExecutionMetadata (p. 600)
- BaselineOverride (p. 605)
- CloudWatchOutputConfig (p. 607)
- Command (p. 608)
- CommandFilter (p. 613)
- CommandInvocation (p. 615)
- CommandPlugin (p. 619)
- ComplianceExecutionSummary (p. 622)
- ComplianceItem (p. 623)
- ComplianceItemEntry (p. 625)
- ComplianceStringFilter (p. 627)
- ComplianceSummaryItem (p. 628)
- CompliantSummary (p. 629)
- CreateAssociationBatchRequestEntry (p. 630)
- DescribeActivationsFilter (p. 634)
- DocumentDefaultVersionDescription (p. 635)
- DocumentDescription (p. 636)
- DocumentFilter (p. 641)
• ResourceDataSyncItem (p. 787)
• ResourceDataSyncOrganizationalUnit (p. 789)
• ResourceDataSyncS3Destination (p. 790)
• ResourceDataSyncSource (p. 792)
• ResourceDataSyncSourceWithState (p. 794)
• ResultAttribute (p. 796)
• ReviewInformation (p. 797)
• Runbook (p. 798)
• S3OutputLocation (p. 800)
• S3OutputUrl (p. 801)
• ScheduledWindowExecution (p. 802)
• ServiceSetting (p. 803)
• Session (p. 805)
• SessionFilter (p. 807)
• SessionManagerOutputUrl (p. 808)
• SeveritySummary (p. 809)
• StepExecution (p. 811)
• StepExecutionFilter (p. 815)
• Tag (p. 816)
• Target (p. 817)
• TargetLocation (p. 819)
AccountSharingInfo

Information includes the AWS account ID where the current document is shared and the version shared with that account.

Contents

AccountId

The AWS account ID where the current document is shared.
Type: String  
Pattern: (?i)all|[0-9]{12}
Required: No

SharedDocumentVersion

The version of the current document shared with the account.
Type: String  
Length Constraints: Maximum length of 8.
Pattern: ([#]LATEST|[#]DEFAULT|[#]ALL)
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 V2
- AWS SDK for Ruby V3
Activation

An activation registers one or more on-premises servers or virtual machines (VMs) with AWS so that you can configure those servers or VMs using Run Command. A server or VM that has been registered with AWS is called a managed instance.

Contents

**ActivationId**

The ID created by Systems Manager when you submitted the activation.

Type: String

Pattern: `^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$`

Required: No

**CreatedDate**

The date the activation was created.

Type: Timestamp

Required: No

**DefaultInstanceName**

A name for the managed instance when it is created.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=\-@]*)$`

Required: No

**Description**

A user defined description of the activation.

Type: String

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

Required: No

**ExpirationDate**

The date when this activation can no longer be used to register managed instances.

Type: Timestamp

Required: No

**Expired**

Whether or not the activation is expired.

Type: Boolean

Required: No
IamRole

The Amazon Identity and Access Management (IAM) role to assign to the managed instance.

Type: String

Length Constraints: Maximum length of 64.

Required: No

RegistrationLimit

The maximum number of managed instances that can be registered using this activation.

Type: Integer

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

Required: No

RegistrationsCount

The number of managed instances already registered with this activation.

Type: Integer

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

Required: No

Tags

Tags assigned to the activation.

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

See Also

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

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

Describes an association of a Systems Manager document and an instance.

Contents

**AssociationId**

The ID created by the system when you create an association. An association is a binding between a document and a set of targets with a schedule.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

**AssociationName**

The association name.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128}\$

Required: No

**AssociationVersion**

The association version.

Type: String

Pattern: ([#]LATEST)|([1-9][0-9]*)

Required: No

**DocumentVersion**

The version of the document used in the association.

Type: String

Pattern: ([#]LATEST)\|[#]DEFAULT\|^\{1-9\}[0-9]*$

Required: No

**InstanceId**

The ID of the instance.

Type: String

Pattern: (^i-(\w{8}\|\w{17})\$)|(^mi-\w{17}$)

Required: No

**LastExecutionDate**

The date on which the association was last run.

Type: Timestamp
Required: No

**Name**

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_/\-\:]\{3,128}\$

Required: No

**Overview**

Information about the association.

Type: AssociationOverview (p. 582) object

Required: No

**ScheduleExpression**

A cron expression that specifies a schedule when the association runs. The schedule runs in Coordinated Universal Time (UTC).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

**Targets**

The instances targeted by the request to create an association.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

---

**See Also**

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

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

Describes the parameters for a document.

Contents

ApplyOnlyAtCronInterval

By default, when you create a new associations, the system runs it immediately after it is created and then according to the schedule you specified. Specify this option if you don't want an association to run immediately after you create it. This parameter is not supported for rate expressions.

Type: Boolean
Required: No

AssociationId

The association ID.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

AssociationName

The association name.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}$

Required: No

AssociationVersion

The association version.

Type: String

Pattern: ([$]LATEST)|([1-9][0-9]*)

Required: No

AutomationTargetParameterName

Specify the target for the association. This target is required for associations that use an Automation document and target resources by using rate controls.

Type: String


Required: No

CalendarNames

The names or Amazon Resource Names (ARNs) of the Systems Manager Change Calendar type documents your associations are gated under. The associations only run when that Change Calendar is open. For more information, see AWS Systems Manager Change Calendar.
Type: Array of strings

Required: No

**ComplianceSeverity**

The severity level that is assigned to the association.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | UNSPECIFIED

Required: No

**Date**

The date when the association was made.

Type: Timestamp

Required: No

**DocumentVersion**

The document version.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9][0-9]*$)

Required: No

**InstanceId**

The ID of the instance.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: No

**LastExecutionDate**

The date on which the association was last run.

Type: Timestamp

Required: No

**LastSuccessfulExecutionDate**

The last date on which the association was successfully run.

Type: Timestamp

Required: No

**LastUpdateAssociationDate**

The date when the association was last updated.

Type: Timestamp

Required: No
MaxConcurrency

The maximum number of targets allowed to run the association at the same time. You can specify a number, for example 10, or a percentage of the target set, for example 10%. The default value is 100%, which means all targets run the association at the same time.

If a new instance starts and attempts to run an association while Systems Manager is running MaxConcurrency associations, the association is allowed to run. During the next association interval, the new instance will process its association within the limit specified for MaxConcurrency.

Type: String


Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)$

Required: No

MaxErrors

The number of errors that are allowed before the system stops sending requests to run the association on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops sending requests when the fourth error is received. If you specify 0, then the system stops sending requests after the first error is returned. If you run an association on 50 instances and set MaxError to 10%, then the system stops sending the request when the sixth error is received.

Executions that are already running an association when MaxErrors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be more than max-errors failed executions, set MaxConcurrency to 1 so that executions proceed one at a time.

Type: String


Pattern: ^([1-9][0-9]*|[0-9]%)$\n
Required: No

Name

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_\-.:/\]{3,128}$

Required: No

OutputLocation

An S3 bucket where you want to store the output details of the request.

Type: InstanceAssociationOutputLocation (p. 661) object

Required: No

Overview

Information about the association.

Type: AssociationOverview (p. 582) object
Parameters

A description of the parameters for a document.

Type: String to array of strings map

Required: No

ScheduleExpression

A cron expression that specifies a schedule when the association runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Status

The association status.

Type: AssociationStatus (p. 583) object

Required: No

SyncCompliance

The mode for generating association compliance. You can specify AUTO or MANUAL. In AUTO mode, the system uses the status of the association execution to determine the compliance status. If the association execution runs successfully, then the association is COMPLIANT. If the association execution doesn't run successfully, the association is NON-COMPLIANT.

In MANUAL mode, you must specify the AssociationId as a parameter for the PutComplianceItems (p. 410) API action. In this case, compliance data is not managed by State Manager. It is managed by your direct call to the PutComplianceItems (p. 410) API action.

By default, all associations use AUTO mode.

Type: String

Valid Values: AUTO | MANUAL

Required: No

TargetLocations

The combination of AWS Regions and AWS accounts where you want to run the association.

Type: Array of TargetLocation (p. 819) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

Targets

The instances targeted by the request.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No
See Also

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

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

Includes information about the specified association.

Contents

AssociationId

The association ID.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

AssociationVersion

The association version.

Type: String

Pattern: ([$]LATEST)|([1-9][0-9]*)

Required: No

CreatedTime

The time the execution started.

Type: Timestamp

Required: No

DetailedStatus

Detailed status information about the execution.

Type: String

Required: No

ExecutionId

The execution ID for the association.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

LastExecutionDate

The date of the last execution.

Type: Timestamp

Required: No

ResourceCountByStatus

An aggregate status of the resources in the execution based on the status type.
Type: String
Required: No

Status
The status of the association execution.

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 V2
- AWS SDK for Ruby V3
AssociationExecutionFilter

Filters used in the request.

Contents

Key

The key value used in the request.

Type: String

Valid Values: ExecutionId | Status | CreatedTime

Required: Yes

Type

The filter type specified in the request.

Type: String

Valid Values: EQUAL | LESS_THAN | GREATER_THAN

Required: Yes

Value

The value specified for the key.

Type: String

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
AssociationExecutionTarget

Includes information about the specified association execution.

**Contents**

**AssociationId**

The association ID.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: No

**AssociationVersion**

The association version.

Type: String

Pattern: `([0-9]+).latest`|`([1-9][0-9]*)`

Required: No

**DetailedStatus**

Detailed information about the execution status.

Type: String

Required: No

**ExecutionId**

The execution ID.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: No

**LastExecutionDate**

The date of the last execution.

Type: Timestamp

Required: No

**OutputSource**

The location where the association details are saved.

Type: `OutputSource (p. 748)` object

Required: No

**ResourceId**

The resource ID, for example, the instance ID where the association ran.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

**ResourceType**

The resource type, for example, instance.
Type: String
Required: No

**Status**

The association execution status.
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 V2
- AWS SDK for Ruby V3
AssociationExecutionTargetsFilter

Filters for the association execution.

Contents

Key

The key value used in the request.

Type: String

Valid Values: Status | ResourceId | ResourceType

Required: Yes

Value

The value specified for the key.

Type: String

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
AssociationFilter

Describes a filter.

Contents

**key**

The name of the filter.

**Note**

InstanceId has been deprecated.

Type: String

Valid Values: InstanceId | Name | AssociationId | AssociationStatusName | LastExecutedBefore | LastExecutedAfter | AssociationName | ResourceGroupName

Required: Yes

**value**

The filter value.

Type: String

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
AssociationOverview

Information about the association.

Contents

**AssociationStatusAggregatedCount**

Returns the number of targets for the association status. For example, if you created an association with two instances, and one of them was successful, this would return the count of instances by status.

Type: String to integer map

Required: No

**DetailedStatus**

A detailed status of the association.

Type: String

Required: No

**Status**

The status of the association. Status can be: Pending, Success, or Failed.

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 V2
- AWS SDK for Ruby V3
AssociationStatus

Describes an association status.

Contents

AdditionalInfo

A user-defined string.
Type: String
Length Constraints: Maximum length of 1024.
Required: No

Date

The date when the status changed.
Type: Timestamp
Required: Yes

Message

The reason for the status.
Type: String
Required: Yes

Name

The status.
Type: String
Valid Values: Pending | Success | Failed
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 V2
- AWS SDK for Ruby V3
AssociationVersionInfo

Information about the association version.

Contents

ApplyOnlyAtCronInterval

By default, when you create a new associations, the system runs it immediately after it is created and then according to the schedule you specified. Specify this option if you don't want an association to run immediately after you create it. This parameter is not supported for rate expressions.

Type: Boolean
Required: No

AssociationId

The ID created by the system when the association was created.

Type: String
Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}
Required: No

AssociationName

The name specified for the association version when the association version was created.

Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$
Required: No

AssociationVersion

The association version.

Type: String
Pattern: ([$][LATEST])|([1-9][0-9]*)
Required: No

CalendarNames

The names or Amazon Resource Names (ARNs) of the Systems Manager Change Calendar type documents your associations are gated under. The associations for this version only run when that Change Calendar is open. For more information, see AWS Systems Manager Change Calendar.

Type: Array of strings
Required: No

ComplianceSeverity

The severity level that is assigned to the association.

Type: String
Valid Values: CRITICAL | HIGH | MEDIUM | LOW | UNSPECIFIED

Required: No

**CreatedDate**

The date the association version was created.

Type: Timestamp

Required: No

**DocumentVersion**

The version of a Systems Manager document used when the association version was created.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9][0-9]*$)

Required: No

**MaxConcurrency**

The maximum number of targets allowed to run the association at the same time. You can specify a number, for example 10, or a percentage of the target set, for example 10%. The default value is 100%, which means all targets run the association at the same time.

If a new instance starts and attempts to run an association while Systems Manager is running MaxConcurrency associations, the association is allowed to run. During the next association interval, the new instance will process its association within the limit specified for MaxConcurrency.

Type: String


Pattern: ^([1-9][0-9]*|[1-9][0-9]%|100%)$

Required: No

**MaxErrors**

The number of errors that are allowed before the system stops sending requests to run the association on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops sending requests when the fourth error is received. If you specify 0, then the system stops sending requests after the first error is returned. If you run an association on 50 instances and set MaxError to 10%, then the system stops sending the request when the sixth error is received.

Executions that are already running an association when MaxErrors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be more than max-errors failed executions, set MaxConcurrency to 1 so that executions proceed one at a time.

Type: String


Pattern: ^([1-9][0-9]*|0|[1-9][0-9]%|100%)$

Required: No

**Name**

The name specified when the association was created.
Type: String
Pattern: ^[a-zA-Z0-9_.-/:\]{3,128}$
Required: No

**OutputLocation**

The location in Amazon S3 specified for the association when the association version was created.

Type: [InstanceAssociationOutputLocation](p. 661) object

Required: No

**Parameters**

Parameters specified when the association version was created.

Type: String to array of strings map

Required: No

**ScheduleExpression**

The cron or rate schedule specified for the association when the association version was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

**SyncCompliance**

The mode for generating association compliance. You can specify AUTO or MANUAL. In AUTO mode, the system uses the status of the association execution to determine the compliance status. If the association execution runs successfully, then the association is COMPLIANT. If the association execution doesn't run successfully, the association is NON-COMPLIANT.

In MANUAL mode, you must specify the AssociationId as a parameter for the [PutComplianceItems](p. 410) API action. In this case, compliance data is not managed by State Manager. It is managed by your direct call to the [PutComplianceItems](p. 410) API action.

By default, all associations use AUTO mode.

Type: String

Valid Values: AUTO | MANUAL

Required: No

**TargetLocations**

The combination of AWS Regions and AWS accounts where you wanted to run the association when this association version was created.

Type: Array of TargetLocation objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

**Targets**

The targets specified for the association when the association version was created.
Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

See Also

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

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

A structure that includes attributes that describe a document attachment.

Contents

Hash
The cryptographic hash value of the document content.
Type: String
Length Constraints: Maximum length of 256.
Required: No

HashType
The hash algorithm used to calculate the hash value.
Type: String
Valid Values: Sha256
Required: No

Name
The name of an attachment.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]\(3,128\)$
Required: No

Size
The size of an attachment in bytes.
Type: Long
Required: No

Url
The URL location of the attachment content.
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 V2
- AWS SDK for Ruby V3
AttachmentInformation

An attribute of an attachment, such as the attachment name.

Contents

Name

The name of the attachment.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}$

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 V2
- AWS SDK for Ruby V3
AttachmentsSource

Identifying information about a document attachment, including the file name and a key-value pair that identifies the location of an attachment to a document.

Contents

Key

The key of a key-value pair that identifies the location of an attachment to a document.

Type: String

Valid Values: SourceUrl | S3FileUrl | AttachmentReference

Required: No

Name

The name of the document attachment file.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$

Required: No

Values

The value of a key-value pair that identifies the location of an attachment to a document. The format for Value depends on the type of key you specify.

- For the key SourceUrl, the value is an S3 bucket location. For example:

  "Values": [ "s3://doc-example-bucket/my-folder" ]

- For the key S3FileUrl, the value is a file in an S3 bucket. For example:

  "Values": [ "s3://doc-example-bucket/my-folder/my-file.py" ]

- For the key AttachmentReference, the value is constructed from the name of another SSM document in your account, a version number of that document, and a file attached to that document version that you want to reuse. For example:

  "Values": [ "MyOtherDocument/3/my-other-file.py" ]

  However, if the SSM document is shared with you from another account, the full SSM document ARN must be specified instead of the document name only. For example:


Type: Array of strings

Array Members: Fixed number of 1 item.


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 V2
• AWS SDK for Ruby V3
AutomationExecution

Detailed information about the current state of an individual Automation execution.

Contents

AssociationId

The ID of a State Manager association used in the Automation operation.

Type: String

Required: No

AutomationExecutionId

The execution ID.

Type: String

Length Constraints: Fixed length of 36.

Required: No

AutomationExecutionStatus

The execution status of the Automation.

Type: String

Valid Values: Pending | InProgress | Waiting | Success | TimedOut | Cancelling | Cancelled | Failed | PendingApproval | Approved | Rejected | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | CompletedWithSuccess | CompletedWithFailure

Required: No

AutomationSubtype

The subtype of the Automation operation. Currently, the only supported value is ChangeRequest.

Type: String

Valid Values: ChangeRequest

Required: No

ChangeRequestName

The name of the Change Manager change request.

Type: String


Required: No

CurrentAction

The action of the step that is currently running.

Type: String
Required: No

**CurrentStepName**

The name of the step that is currently running.

Type: String

Required: No

**DocumentName**

The name of the Automation document used during the execution.

Type: String

Pattern: `^[a-zA-Z0-9_\-.]{3,128}$`

Required: No

**DocumentVersion**

The version of the document to use during execution.

Type: String

Pattern: `([$]LATEST|[$]DEFAULT|^\[1-9]\[0-9]*$)`

Required: No

**ExecutedBy**

The Amazon Resource Name (ARN) of the user who ran the automation.

Type: String

Required: No

**ExecutionEndTime**

The time the execution finished.

Type: Timestamp

Required: No

**ExecutionStartTime**

The time the execution started.

Type: Timestamp

Required: No

**FailureMessage**

A message describing why an execution has failed, if the status is set to Failed.

Type: String

Required: No

**MaxConcurrency**

The MaxConcurrency value specified by the user when the execution started.

Type: String

Pattern: ^([1-9][0-9]*|[1-9]%|100%)$

Required: No

**MaxErrors**

The MaxErrors value specified by the user when the execution started.

Type: String


Pattern: ^([1-9][0-9]*|[0]|[1-9][0-9]%|100%)$

Required: No

**Mode**

The automation execution mode.

Type: String

Valid Values: Auto | Interactive

Required: No

**OpsItemId**

The ID of an OpsItem that is created to represent a Change Manager change request.

Type: String

Required: No

**Outputs**

The list of execution outputs as defined in the automation document.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

**Parameters**

The key-value map of execution parameters, which were supplied when calling StartAutomationExecution.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

**ParentAutomationExecutionId**

The AutomationExecutionId of the parent automation.

Type: String

Length Constraints: Fixed length of 36.

Required: No

**ProgressCounters**

An aggregate of step execution statuses displayed in the AWS Console for a multi-Region and multi-account Automation execution.

Type: ProgressCounters (p. 779) object

Required: No

**ResolvedTargets**

A list of resolved targets in the rate control execution.

Type: ResolvedTargets (p. 782) object

Required: No

**Runbooks**

Information about the Automation runbooks (Automation documents) that are run as part of a runbook workflow.

Note

The Automation runbooks specified for the runbook workflow can't run until all required approvals for the change request have been received.

Type: Array of Runbook (p. 798) objects

Array Members: Fixed number of 1 item.

Required: No

**ScheduledTime**

The date and time the Automation operation is scheduled to start.

Type: Timestamp

Required: No

**StepExecutions**

A list of details about the current state of all steps that comprise an execution. An Automation document contains a list of steps that are run in order.

Type: Array of StepExecution (p. 811) objects

Required: No

**StepExecutionsTruncated**

A boolean value that indicates if the response contains the full list of the Automation step executions. If true, use the DescribeAutomationStepExecutions API action to get the full list of step executions.
Type: Boolean
Required: No

**Target**
The target of the execution.
Type: String
Required: No

**TargetLocations**
The combination of AWS Regions and/or AWS accounts where you want to run the Automation.
Type: Array of **TargetLocation** (p. 819) objects
Array Members: Minimum number of 1 item. Maximum number of 100 items.
Required: No

**TargetMaps**
The specified key-value mapping of document parameters to target resources.
Type: Array of string to array of strings maps
Array Members: Minimum number of 0 items. Maximum number of 300 items.
Map Entries: Maximum number of 20 items.
Key Length Constraints: Minimum length of 1. Maximum length of 50.
Array Members: Minimum number of 0 items. Maximum number of 25 items.
Required: No

**TargetParameterName**
The parameter name.
Type: String
Required: No

**Targets**
The specified targets.
Type: Array of **Target** (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**AutomationExecutionFilter**

A filter used to match specific automation executions. This is used to limit the scope of Automation execution information returned.

**Contents**

**Key**

One or more keys to limit the results.

Type: String

Valid Values: DocumentNamePrefix | ExecutionStatus | ExecutionId | ParentExecutionId | CurrentAction | StartTimeBefore | StartTimeAfter | AutomationType | TagKey | TargetResourceGroup | AutomationSubtype | OpsItemId

Required: Yes

**Values**

The values used to limit the execution information associated with the filter's key.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

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 V2
- AWS SDK for Ruby V3
AutomationExecutionMetadata

Details about a specific Automation execution.

Contents

AssociationId

The ID of a State Manager association used in the Automation operation.

Type: String
Required: No

AutomationExecutionId

The execution ID.

Type: String
Length Constraints: Fixed length of 36.
Required: No

AutomationExecutionStatus

The status of the execution.

Type: String
Valid Values: Pending | InProgress | Waiting | Success | TimedOut | Cancelling | Cancelled | Failed | PendingApproval | Approved | Rejected | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | CompletedWithSuccess | CompletedWithFailure
Required: No

AutomationSubtype

The subtype of the Automation operation. Currently, the only supported value is ChangeRequest.

Type: String
Valid Values: ChangeRequest
Required: No

AutomationType

Use this filter with DescribeAutomationExecutions (p. 121). Specify either Local or CrossAccount. CrossAccount is an Automation that runs in multiple AWS Regions and accounts. For more information, see Running Automation workflows in multiple AWS Regions and accounts in the AWS Systems Manager User Guide.

Type: String
Valid Values: CrossAccount | Local
Required: No

ChangeRequestName

The name of the Change Manager change request.
Type: String
Required: No

**CurrentAction**
The action of the step that is currently running.
Type: String
Required: No

**CurrentStepName**
The name of the step that is currently running.
Type: String
Required: No

**DocumentName**
The name of the Automation document used during execution.
Type: String
Pattern: `^[a-zA-Z0-9_\-\.]{3,128}$`
Required: No

**DocumentVersion**
The document version used during the execution.
Type: String
Pattern: `([$]LATEST|[$]DEFAULT|^\[1-9]\[0-9]*$)`
Required: No

**ExecutedBy**
The IAM role ARN of the user who ran the Automation.
Type: String
Required: No

**ExecutionEndTime**
The time the execution finished. This is not populated if the execution is still in progress.
Type: Timestamp
Required: No

**ExecutionStartTime**
The time the execution started.
Type: Timestamp
Required: No

**FailureMessage**
The list of execution outputs as defined in the Automation document.
Type: String
Required: No

LogFile
An S3 bucket where execution information is stored.
Type: String
Required: No

MaxConcurrency
The MaxConcurrency value specified by the user when starting the Automation.
Type: String
Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)$
Required: No

MaxErrors
The MaxErrors value specified by the user when starting the Automation.
Type: String
Pattern: ^([1-9][0-9]*|[0]|1-9%|0-9%|100%)$
Required: No

Mode
The Automation execution mode.
Type: String
Valid Values: Auto | Interactive
Required: No

OpsItemId
The ID of an OpsItem that is created to represent a Change Manager change request.
Type: String
Required: No

Outputs
The list of execution outputs as defined in the Automation document.
Type: String to array of strings map
Map Entries: Maximum number of 200 items.
Key Length Constraints: Minimum length of 1. Maximum length of 50.
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Required: No

**ParentAutomationExecutionId**

The ExecutionId of the parent Automation.

Type: String

Length Constraints: Fixed length of 36.

Required: No

**ResolvedTargets**

A list of targets that resolved during the execution.

Type: ResolvedTargets (p. 782) object

Required: No

**Runbooks**

Information about the Automation runbooks (Automation documents) that are run during a runbook workflow in Change Manager.

**Note**

The Automation runbooks specified for the runbook workflow can't run until all required approvals for the change request have been received.

Type: Array of Runbook (p. 798) objects

Array Members: Fixed number of 1 item.

Required: No

**ScheduledTime**

The date and time the Automation operation is scheduled to start.

Type: Timestamp

Required: No

**Target**

The list of execution outputs as defined in the Automation document.

Type: String

Required: No

**TargetMaps**

The specified key-value mapping of document parameters to target resources.

Type: Array of string to array of strings maps

Array Members: Minimum number of 0 items. Maximum number of 300 items.

Map Entries: Maximum number of 20 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Required: No

**TargetParameterName**

The list of execution outputs as defined in the Automation document.

Type: String


Required: No

**Targets**

The targets defined by the user when starting the Automation.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

---

**See Also**

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

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

Defines the basic information about a patch baseline override.

Contents

ApprovalRules

A set of rules defining the approval rules for a patch baseline.

Type: PatchRuleGroup (p. 775) object

Required: No

ApprovedPatches

A list of explicitly approved patches for the baseline.

For information about accepted formats for lists of approved patches and rejected patches, see About package name formats for approved and rejected patch lists in the AWS Systems Manager User Guide.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

ApprovedPatchesComplianceLevel

Defines the compliance level for approved patches. When an approved patch is reported as missing, this value describes the severity of the compliance violation.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

ApprovedPatchesEnableNonSecurity

Indicates whether the list of approved patches includes non-security updates that should be applied to the instances. The default value is 'false'. Applies to Linux instances only.

Type: Boolean

Required: No

GlobalFilters

A set of patch filters, typically used for approval rules.

Type: PatchFilterGroup (p. 770) object

Required: No

OperatingSystem

The operating system rule used by the patch baseline override.

Type: String
Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS

Required: No

RejectedPatches

A list of explicitly rejected patches for the baseline.

For information about accepted formats for lists of approved patches and rejected patches, see About package name formats for approved and rejected patch lists in the AWS Systems Manager User Guide.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

RejectedPatchesAction

The action for Patch Manager to take on patches included in the RejectedPackages list. A patch can be allowed only if it is a dependency of another package, or blocked entirely along with packages that include it as a dependency.

Type: String

Valid Values: ALLOW_AS_DEPENDENCY | BLOCK

Required: No

Sources

Information about the patches to use to update the instances, including target operating systems and source repositories. Applies to Linux instances only.

Type: Array of PatchSource (p. 776) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

See Also

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

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

Configuration options for sending command output to CloudWatch Logs.

Contents

CloudWatchLogGroupName

The name of the CloudWatch log group where you want to send command output. If you don't specify a group name, Systems Manager automatically creates a log group for you. The log group uses the following naming format: `aws/ssm/SystemsManagerDocumentName`.

Type: String


Required: No

CloudWatchOutputEnabled

Enables Systems Manager to send command output to CloudWatch Logs.

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 V2
- AWS SDK for Ruby V3
Command

Describes a command request.

Contents

CloudWatchOutputConfig

CloudWatch Logs information where you want Systems Manager to send the command output.

Type: CloudWatchOutputConfig (p. 607) object

Required: No

CommandId

A unique identifier for this command.

Type: String

Length Constraints: Fixed length of 36.

Required: No

Comment

User-specified information about the command, such as a brief description of what the command should do.

Type: String

Length Constraints: Maximum length of 100.

Required: No

CompletedCount

The number of targets for which the command invocation reached a terminal state. Terminal states include the following: Success, Failed, Execution Timed Out, Delivery Timed Out, Canceled, Terminated, or Undeliverable.

Type: Integer

Required: No

DeliveryTimedOutCount

The number of targets for which the status is Delivery Timed Out.

Type: Integer

Required: No

DocumentName

The name of the document requested for execution.

Type: String

Pattern: ^\[a-zA-Z0-9-\_\.]{3,128}$

Required: No
DocumentVersion

The SSM document version.
Type: String
Pattern: ([$]LATEST|[$]DEFAULT|^[1-9][0-9]*$)
Required: No

ErrorCount

The number of targets for which the status is Failed or Execution Timed Out.
Type: Integer
Required: No

ExpiresAfter

If this time is reached and the command has not already started running, it will not run. Calculated based on the ExpiresAfter user input provided as part of the SendCommand API.
Type: Timestamp
Required: No

InstanceIds

The instance IDs against which this command was requested.
Type: Array of strings
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)
Required: No

MaxConcurrency

The maximum number of instances that are allowed to run the command at the same time. You can specify a number of instances, such as 10, or a percentage of instances, such as 10%. The default value is 50. For more information about how to use MaxConcurrency, see Running commands using Systems Manager Run Command in the AWS Systems Manager User Guide.
Type: String
Pattern: ^([1-9][0-9]*|10|9%|9%|100%)$
Required: No

MaxErrors

The maximum number of errors allowed before the system stops sending the command to additional targets. You can specify a number of errors, such as 10, or a percentage of errors, such as 10%. The default value is 0. For more information about how to use MaxErrors, see Running commands using Systems Manager Run Command in the AWS Systems Manager User Guide.
Type: String
Pattern: `^[1-9][0-9]*|[0]|([1-9][0-9]%)|([0-9]%|100)%$`

Required: No

**NotificationConfig**

Configurations for sending notifications about command status changes.

Type: `NotificationConfig (p. 721) object`

Required: No

**OutputS3BucketName**

The S3 bucket where the responses to the command executions should be stored. This was requested when issuing the command.

Type: String


Required: No

**OutputS3KeyPrefix**

The S3 directory path inside the bucket where the responses to the command executions should be stored. This was requested when issuing the command.

Type: String

Length Constraints: Maximum length of 500.

Required: No

**OutputS3Region**

(Deprecated) You can no longer specify this parameter. The system ignores it. Instead, Systems Manager automatically determines the Region of the S3 bucket.

Type: String


Required: No

**Parameters**

The parameter values to be inserted in the document when running the command.

Type: String to array of strings map

Required: No

**RequestedDateTime**

The date and time the command was requested.

Type: Timestamp

Required: No

**ServiceRole**

The IAM service role that Run Command uses to act on your behalf when sending notifications about command status changes.

Type: String
**Status**

The status of the command.

Type: String

**Valid Values:** Pending | InProgress | Success | Cancelled | Failed | TimedOut | Cancelling

**StatusDetails**

A detailed status of the command execution. StatusDetails includes more information than Status because it includes states resulting from error and concurrency control parameters. StatusDetails can show different results than Status. For more information about these statuses, see [Understanding command statuses](https://docs.aws.amazon.com/systems-manager/latest/userguide/understanding-command-statuses.html) in the AWS Systems Manager User Guide. StatusDetails can be one of the following values:

- Pending: The command has not been sent to any instances.
- In Progress: The command has been sent to at least one instance but has not reached a final state on all instances.
- Success: The command successfully ran on all invocations. This is a terminal state.
- Delivery Timed Out: The value of MaxErrors or more command invocations shows a status of Delivery Timed Out. This is a terminal state.
- Execution Timed Out: The value of MaxErrors or more command invocations shows a status of Execution Timed Out. This is a terminal state.
- Failed: The value of MaxErrors or more command invocations shows a status of Failed. This is a terminal state.
- Incomplete: The command was attempted on all instances and one or more invocations does not have a value of Success but not enough invocations failed for the status to be Failed. This is a terminal state.
- Canceled: The command was terminated before it was completed. This is a terminal state.
- Rate Exceeded: The number of instances targeted by the command exceeded the account limit for pending invocations. The system has canceled the command before running it on any instance. This is a terminal state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

**TargetCount**

The number of targets for the command.

Type: Integer

Required: No

**Targets**

An array of search criteria that targets instances using a Key,Value combination that you specify. Targets is required if you don't provide one or more instance IDs in the call.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.
Required: No

**TimeoutSeconds**

The `TimeoutSeconds` value specified for a command.

Type: Integer


Required: No

See Also

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

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

Describes a command filter.

**Note**
An instance ID can't be specified when a command status is *Pending* because the command hasn't run on the instance yet.

**Contents**

**key**

The name of the filter.

Type: String

Valid Values: *InvokedAfter | InvokedBefore | Status | ExecutionStage | DocumentName*

Required: Yes

**value**

The filter value. Valid values for each filter key are as follows:

- **InvokedAfter**: Specify a timestamp to limit your results. For example, specify 2018-07-07T00:00:00Z to see a list of command executions occurring July 7, 2018, and later.

- **InvokedBefore**: Specify a timestamp to limit your results. For example, specify 2018-07-07T00:00:00Z to see a list of command executions from before July 7, 2018.

- **Status**: Specify a valid command status to see a list of all command executions with that status. Status values you can specify include:
  - *Pending*
  - *InProgress*
  - *Success*
  - *Cancelled*
  - *Failed*
  - *TimedOut*
  - *Cancelling*

- **DocumentName**: Specify name of the SSM document for which you want to see command execution results. For example, specify AWS-RunPatchBaseline to see command executions that used this SSM document to perform security patching operations on instances.

- **ExecutionStage**: Specify one of the following values:
  - *Executing*: Returns a list of command executions that are currently still running.
  - *Complete*: Returns a list of command executions that have already completed.

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 V2
• AWS SDK for Ruby V3
CommandInvocation

An invocation is a copy of a command sent to a specific instance. A command can apply to one or more instances. A command invocation applies to one instance. For example, if a user runs SendCommand against three instances, then a command invocation is created for each requested instance ID. A command invocation returns status and detail information about a command you ran.

Contents

CloudWatchOutputConfig

CloudWatch Logs information where you want Systems Manager to send the command output.

Type: CloudWatchOutputConfig (p. 607) object

Required: No

CommandId

The command against which this invocation was requested.

Type: String

Length Constraints: Fixed length of 36.

Required: No

CommandPlugins

Plugins processed by the command.

Type: Array of CommandPlugin (p. 619) objects

Required: No

Comment

User-specified information about the command, such as a brief description of what the command should do.

Type: String

Length Constraints: Maximum length of 100.

Required: No

DocumentName

The document name that was requested for execution.

Type: String

Pattern: ^[a-zA-Z0-9-\._\-]{3,128}$

Required: No

DocumentVersion

The SSM document version.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^[1-9][0-9]*)$
InstanceId

The instance ID in which this invocation was requested.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)

Required: No

InstanceName

The name of the invocation target. For EC2 instances this is the value for the aws:Name tag. For on-premises instances, this is the name of the instance.

Type: String

Length Constraints: Maximum length of 255.

Required: No

NotificationConfig

Configurations for sending notifications about command status changes on a per instance basis.

Type: NotificationConfig (p. 721) object

Required: No

RequestedDateTime

The time and date the request was sent to this instance.

Type: Timestamp

Required: No

ServiceRole

The IAM service role that Run Command uses to act on your behalf when sending notifications about command status changes on a per instance basis.

Type: String

Required: No

StandardErrorUrl

The URL to the plugin's StdErr file in Amazon S3, if the S3 bucket was defined for the parent command. For an invocation, StandardErrorUrl is populated if there is just one plugin defined for the command, and the S3 bucket was defined for the command.

Type: String

Required: No

StandardOutputUrl

The URL to the plugin's StdOut file in Amazon S3, if the S3 bucket was defined for the parent command. For an invocation, StandardOutputUrl is populated if there is just one plugin defined for the command, and the S3 bucket was defined for the command.

Type: String
Required: No

**Status**

Whether or not the invocation succeeded, failed, or is pending.

Type: String

Valid Values: Pending | InProgress | Delayed | Success | Cancelled | TimedOut | Failed | Cancelling

Required: No

**StatusDetails**

A detailed status of the command execution for each invocation (each instance targeted by the command). StatusDetails includes more information than Status because it includes states resulting from error and concurrency control parameters. StatusDetails can show different results than Status. For more information about these statuses, see Understanding command statuses in the AWS Systems Manager User Guide. StatusDetails can be one of the following values:

- Pending: The command has not been sent to the instance.
- In Progress: The command has been sent to the instance but has not reached a terminal state.
- Success: The execution of the command or plugin was successfully completed. This is a terminal state.
- Delivery Timed Out: The command was not delivered to the instance before the delivery timeout expired. Delivery timeouts do not count against the parent command's MaxErrors limit, but they do contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
- Execution Timed Out: Command execution started on the instance, but the execution was not complete before the execution timeout expired. Execution timeouts count against the MaxErrors limit of the parent command. This is a terminal state.
- Failed: The command was not successful on the instance. For a plugin, this indicates that the result code was not zero. For a command invocation, this indicates that the result code for one or more plugins was not zero. Invocation failures count against the MaxErrors limit of the parent command. This is a terminal state.
- Canceled: The command was terminated before it was completed. This is a terminal state.
- Undeliverable: The command can't be delivered to the instance. The instance might not exist or might not be responding. Undeliverable invocations don't count against the parent command's MaxErrors limit and don't contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
- Terminated: The parent command exceeded its MaxErrors limit and subsequent command invocations were canceled by the system. This is a terminal state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

**TraceOutput**

Gets the trace output sent by the agent.

Type: String

Length Constraints: Maximum length of 2500.

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 V2
- AWS SDK for Ruby V3
CommandPlugin

Describes plugin details.

Contents

Name

The name of the plugin. Must be one of the following: aws:updateAgent, aws:domainjoin, aws:applications, aws:runPowerShellScript, aws:psmodule, aws:cloudWatch, aws:runShellScript, or aws:updateSSMAgent.

Type: String


Required: No

Output

Output of the plugin execution.

Type: String

Length Constraints: Maximum length of 2500.

Required: No

OutputS3BucketName

The S3 bucket where the responses to the command executions should be stored. This was requested when issuing the command. For example, in the following response:

doc-example-bucket/ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix/i-02573cafcfEXAMPLE/awsrunShellScript

doc-example-bucket is the name of the S3 bucket;
ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix is the name of the S3 prefix;
i-02573cafcfEXAMPLE is the instance ID;
awsrunShellScript is the name of the plugin.

Type: String


Required: No

OutputS3KeyPrefix

The S3 directory path inside the bucket where the responses to the command executions should be stored. This was requested when issuing the command. For example, in the following response:

doc-example-bucket/ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix/i-02573cafcfEXAMPLE/awsrunShellScript

doc-example-bucket is the name of the S3 bucket;
ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix is the name of the S3 prefix;
EXAMPLE is the instance ID; awsrunShellScript is the name of the plugin.

Type: String
Length Constraints: Maximum length of 500.
Required: No

OutputS3Region

(Deprecated) You can no longer specify this parameter. The system ignores it. Instead, Systems Manager automatically determines the S3 bucket region.

Type: String
Required: No

ResponseCode

A numeric response code generated after running the plugin.

Type: Integer
Required: No

ResponseFinishDateTime

The time the plugin stopped running. Could stop prematurely if, for example, a cancel command was sent.

Type: Timestamp
Required: No

ResponseStartDateTime

The time the plugin started running.

Type: Timestamp
Required: No

StandardErrorUrl

The URL for the complete text written by the plugin to stderr. If execution is not yet complete, then this string is empty.

Type: String
Required: No

StandardOutputUrl

The URL for the complete text written by the plugin to stdout in Amazon S3. If the S3 bucket for the command was not specified, then this string is empty.

Type: String
Required: No

Status

The status of this plugin. You can run a document with multiple plugins.
Type: String

Valid Values: Pending | InProgress | Success | TimedOut | Cancelled | Failed

Required: No

**StatusDetails**

A detailed status of the plugin execution. StatusDetails includes more information than Status because it includes states resulting from error and concurrency control parameters. StatusDetails can show different results than Status. For more information about these statuses, see Understanding command statuses in the AWS Systems Manager User Guide. StatusDetails can be one of the following values:

- **Pending**: The command has not been sent to the instance.
- **In Progress**: The command has been sent to the instance but has not reached a terminal state.
- **Success**: The execution of the command or plugin was successfully completed. This is a terminal state.
- **Delivery Timed Out**: The command was not delivered to the instance before the delivery timeout expired. Delivery timeouts do not count against the parent command's MaxErrors limit, but they do contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
- **Execution Timed Out**: Command execution started on the instance, but the execution was not complete before the execution timeout expired. Execution timeouts count against the MaxErrors limit of the parent command. This is a terminal state.
- **Failed**: The command was not successful on the instance. For a plugin, this indicates that the result code was not zero. For a command invocation, this indicates that the result code for one or more plugins was not zero. Invocation failures count against the MaxErrors limit of the parent command. This is a terminal state.
- **Canceled**: The command was terminated before it was completed. This is a terminal state.
- **Undeliverable**: The command can't be delivered to the instance. The instance might not exist, or it might not be responding. Undeliverable invocations don't count against the parent command's MaxErrors limit, and they don't contribute to whether the parent command status is Success or Incomplete. This is a terminal state.
- **Terminated**: The parent command exceeded its MaxErrors limit and subsequent command invocations were canceled by the system. This is a terminal state.

Type: String

Length Constraints: Minimum length of 0. 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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ComplianceExecutionSummary

A summary of the call execution that includes an execution ID, the type of execution (for example, Command), and the date/time of the execution using a datetime object that is saved in the following format: yyyy-MM-dd'T'HH:mm:ss'Z'.

Contents

**ExecutionId**

An ID created by the system when PutComplianceItems was called. For example, CommandID is a valid execution ID. You can use this ID in subsequent calls.

Type: String

Length Constraints: Maximum length of 100.

Required: No

**ExecutionTime**

The time the execution ran as a datetime object that is saved in the following format: yyyy-MM-dd'T'HH:mm:ss'Z'.

Type: Timestamp

Required: Yes

**ExecutionType**

The type of execution. For example, Command is a valid execution type.

Type: String

Length Constraints: Maximum length of 50.

Required: No

See Also

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

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

Information about the compliance as defined by the resource type. For example, for a patch resource type, `Items` includes information about the `PatchSeverity`, `Classification`, and so on.

Contents

**ComplianceType**

The compliance type. For example, `Association` (for a State Manager association), `Patch`, or `Custom` are all valid compliance types.

Type: String

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

Pattern: `[A-Za-z0-9\-\_\w]+|Custom:[a-zA-Z0-9\-\_\w]+`

Required: No

**Details**

A "Key": "Value" tag combination for the compliance item.

Type: String to string map

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

**ExecutionSummary**

A summary for the compliance item. The summary includes an execution ID, the execution type (for example, command), and the execution time.

Type: ComplianceExecutionSummary (p. 622) object

Required: No

**Id**

An ID for the compliance item. For example, if the compliance item is a Windows patch, the ID could be the number of the KB article; for example: KB4010320.

Type: String

Required: No

**ResourceId**

An ID for the resource. For a managed instance, this is the instance ID.

Type: String

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

Required: No

**ResourceType**

The type of resource. `ManagedInstance` is currently the only supported resource type.
Type: String
Required: No

**Severity**

The severity of the compliance status. Severity can be one of the following: Critical, High, Medium, Low, Informational, Unspecified.

Type: String
Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED
Required: No

**Status**

The status of the compliance item. An item is either COMPLIANT, NON_COMPLIANT, or an empty string (for Windows patches that aren't applicable).

Type: String
Valid Values: COMPLIANT | NON_COMPLIANT
Required: No

**Title**

A title for the compliance item. For example, if the compliance item is a Windows patch, the title could be the title of the KB article for the patch; for example: Security Update for Active Directory Federation Services.

Type: String
Length Constraints: Maximum length of 500.
Required: No

**See Also**

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

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

Information about a compliance item.

Contents

Details

A "Key": "Value" tag combination for the compliance item.

Type: String to string map

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

Id

The compliance item ID. For example, if the compliance item is a Windows patch, the ID could be the number of the KB article.

Type: String

Required: No

Severity

The severity of the compliance status. Severity can be one of the following: Critical, High, Medium, Low, Informational, Unspecified.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: Yes

Status

The status of the compliance item. An item is either COMPLIANT or NON_COMPLIANT.

Type: String

Valid Values: COMPLIANT | NON_COMPLIANT

Required: Yes

Title

The title of the compliance item. For example, if the compliance item is a Windows patch, the title could be the title of the KB article for the patch; for example: Security Update for Active Directory Federation Services.

Type: String

Length Constraints: Maximum length of 500.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
ComplianceStringFilter

One or more filters. Use a filter to return a more specific list of results.

Contents

Key

The name of the filter.

Type: String


Required: No

Type

The type of comparison that should be performed for the value: Equal, NotEqual, BeginWith, LessThan, or GreaterThan.

Type: String

Valid Values: EQUAL | NOT_EQUAL | BEGIN_WITH | LESS_THAN | GREATER_THAN

Required: No

Values

The value for which to search.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: No

See Also

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

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

A summary of compliance information by compliance type.

Contents

ComplianceType

The type of compliance item. For example, the compliance type can be Association, Patch, or Custom:string.

Type: String

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

Pattern: [A-Za-z0-9_\-]\w+|Custom:[a-zA-Z0-9_\-]\w+

Required: No

CompliantSummary

A list of COMPLIANT items for the specified compliance type.

Type: CompliantSummary (p. 629) object

Required: No

NonCompliantSummary

A list of NON_COMPLIANT items for the specified compliance type.

Type: NonCompliantSummary (p. 720) object

Required: No

See Also

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

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

A summary of resources that are compliant. The summary is organized according to the resource count for each compliance type.

Contents

CompliantCount

The total number of resources that are compliant.

Type: Integer

Required: No

SeveritySummary

A summary of the compliance severity by compliance type.

Type: SeveritySummary (p. 809) object

Required: No

See Also

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

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

Describes the association of a Systems Manager SSM document and an instance.

Contents

ApplyOnlyAtCronInterval

By default, when you create a new associations, the system runs it immediately after it is created and then according to the schedule you specified. Specify this option if you don't want an association to run immediately after you create it. This parameter is not supported for rate expressions.

Type: Boolean
Required: No

AssociationName

Specify a descriptive name for the association.

Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$
Required: No

AutomationTargetParameterName

Specify the target for the association. This target is required for associations that use an Automation document and target resources by using rate controls.

Type: String
Required: No

CalendarNames

The names or Amazon Resource Names (ARNs) of the Systems Manager Change Calendar type documents your associations are gated under. The associations only run when that Change Calendar is open. For more information, see AWS Systems Manager Change Calendar.

Type: Array of strings
Required: No

ComplianceSeverity

The severity level to assign to the association.

Type: String
Valid Values: CRITICAL | HIGH | MEDIUM | LOW | UNSPECIFIED
Required: No

DocumentVersion

The document version.

Type: String
Pattern: ([!]LATEST|([!]DEFAULT|^\[1-9\][0-9]*$)
Required: No

**InstanceId**

The ID of the instance.

Type: String

Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)
Required: No

**MaxConcurrency**

The maximum number of targets allowed to run the association at the same time. You can specify a number, for example 10, or a percentage of the target set, for example 10%. The default value is 100%, which means all targets run the association at the same time.

If a new instance starts and attempts to run an association while Systems Manager is running MaxConcurrency associations, the association is allowed to run. During the next association interval, the new instance will process its association within the limit specified for MaxConcurrency.

Type: String


Pattern: ^([1-9]\[0-9]*|[1-9]0-9%|1-9\%|100%)$
Required: No

**MaxErrors**

The number of errors that are allowed before the system stops sending requests to run the association on additional targets. You can specify either an absolute number of errors, for example 10, or a percentage of the target set, for example 10%. If you specify 3, for example, the system stops sending requests when the fourth error is received. If you specify 0, then the system stops sending requests after the first error is returned. If you run an association on 50 instances and set MaxError to 10%, then the system stops sending the request when the sixth error is received.

Executions that are already running an association when MaxErrors is reached are allowed to complete, but some of these executions may fail as well. If you need to ensure that there won't be more than max-errors failed executions, set MaxConcurrency to 1 so that executions proceed one at a time.

Type: String


Pattern: ^([1-9]\[0-9]*|0|[1-9]0-9%|0-9%|100%)$
Required: No

**Name**

The name of the SSM document that contains the configuration information for the instance. You can specify Command or Automation documents.

You can specify AWS-predefined documents, documents you created, or a document that is shared with you from another account.

For SSM documents that are shared with you from other AWS accounts, you must specify the complete SSM document ARN, in the following format:

For example:


For AWS-predefined documents and SSM documents you created in your account, you only need to specify the document name. For example, `AWS-ApplyPatchBaseline` or `My-Document`.

Type: String

Pattern: `^[a-zA-Z0-9_-.:/\]{3,128}$`

Required: Yes

**OutputLocation**

An S3 bucket where you want to store the results of this request.

Type: `InstanceAssociationOutputLocation (p. 661)` object

Required: No

**Parameters**

A description of the parameters for a document.

Type: String to array of strings map

Required: No

**ScheduleExpression**

A cron expression that specifies a schedule when the association runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

**SyncCompliance**

The mode for generating association compliance. You can specify AUTO or MANUAL. In AUTO mode, the system uses the status of the association execution to determine the compliance status. If the association execution runs successfully, then the association is COMPLIANT. If the association execution doesn't run successfully, the association is NON-COMPLIANT.

In MANUAL mode, you must specify the `AssociationId` as a parameter for the `PutComplianceItems (p. 410)` API action. In this case, compliance data is not managed by State Manager. It is managed by your direct call to the `PutComplianceItems (p. 410)` API action.

By default, all associations use AUTO mode.

Type: String

Valid Values: AUTO | MANUAL

Required: No

**TargetLocations**

Use this action to create an association in multiple Regions and multiple accounts.

Type: Array of `TargetLocation (p. 819)` objects
Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

**Targets**

The instances targeted by the request.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**See Also**

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

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

Filter for the DescribeActivation API.

Contents

FilterKey

The name of the filter.
Type: String
Valid Values: ActivationIds | DefaultInstanceName | IamRole
Required: No

FilterValues

The filter values.
Type: Array of strings
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 V2
- AWS SDK for Ruby V3
DocumentDefaultVersionDescription

A default version of a document.

Contents

DefaultVersion

The default version of the document.

Type: String

Pattern: ([*]LATEST|[*]DEFAULT|^[1-9][0-9]*$)

Required: No

DefaultVersionName

The default version of the artifact associated with the document.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{1,128}$

Required: No

Name

The name of the document.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128}$

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 V2
- AWS SDK for Ruby V3
DocumentDescription

Describes a Systems Manager document.

Contents

ApprovedVersion

The version of the document currently approved for use in the organization.

Type: String

Pattern: ([$]LATEST|[$]DEFAULT|^\[1-9][0-9]*)$

Required: No

AttachmentsInformation

Details about the document attachments, including names, locations, sizes, and so on.

Type: Array of AttachmentInformation (p. 590) objects

Required: No

Author

The user in your organization who created the document.

Type: String

Required: No

CreatedDate

The date when the document was created.

Type: Timestamp

Required: No

DefaultVersion

The default version.

Type: String

Pattern: ([$]LATEST|[$]DEFAULT|^\[1-9][0-9]*)$

Required: No

Description

A description of the document.

Type: String

Required: No

DisplayName

The friendly name of the Systems Manager document. This value can differ for each version of the document. If you want to update this value, see UpdateDocument (p. 503).

Type: String
Length Constraints: Maximum length of 1024.

Pattern: ^[\w\.-\:\/]\*$

Required: No

**DocumentFormat**

The document format, either JSON or YAML.

Type: String

Valid Values: YAML | JSON | TEXT

Required: No

**DocumentType**

The type of document.

Type: String


Required: No

**DocumentVersion**

The document version.

Type: String

Pattern: ([$]LATEST|[$]DEFAULT|^\[1-9]\[0-9]*$)

Required: No

**Hash**

The Sha256 or Sha1 hash created by the system when the document was created.

*Note*

Sha1 hashes have been deprecated.

Type: String

Length Constraints: Maximum length of 256.

Required: No

**HashType**

The hash type of the document. Valid values include Sha256 or Sha1.

*Note*

Sha1 hashes have been deprecated.

Type: String

Valid Values: Sha256 | Sha1

Required: No

**LatestVersion**

The latest version of the document.
Type: String

Pattern: ([^]LATEST|[^]DEFAULT|^1-9[0-9]*$)

Required: No

**Name**

The name of the Systems Manager document.

Type: String

Pattern: ^[a-zA-Z0-9_-.:/]{3,128}$

Required: No

**Owner**

The AWS user account that created the document.

Type: String

Required: No

**Parameters**

A description of the parameters for a document.

Type: Array of `DocumentParameter (p. 648)` objects

Required: No

**PendingReviewVersion**

The version of the document that is currently under review.

Type: String

Pattern: ([^]LATEST|[^]DEFAULT|^1-9[0-9]*$)

Required: No

**PlatformTypes**

The list of OS platforms compatible with this Systems Manager document.

Type: Array of strings

Valid Values: Windows | Linux

Required: No

**Requires**

A list of SSM documents required by a document. For example, an `ApplicationConfiguration` document requires an `ApplicationConfigurationSchema` document.

Type: Array of `DocumentRequires (p. 649)` objects

Array Members: Minimum number of 1 item.

Required: No

**ReviewInformation**

Details about the review of a document.

Type: Array of `ReviewInformation (p. 797)` objects
Array Members: Minimum number of 1 item.

Required: No

**ReviewStatus**

The current status of the review.

Type: String

Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED

Required: No

**SchemaVersion**

The schema version.

Type: String


Required: No

**Sha1**

The SHA1 hash of the document, which you can use for verification.

Type: String

Required: No

**Status**

The status of the Systems Manager document.

Type: String

Valid Values: Creating | Active | Updating | Deleting | Failed

Required: No

**StatusInformation**

A message returned by AWS Systems Manager that explains the Status value. For example, a Failed status might be explained by the StatusInformation message, "The specified S3 bucket does not exist. Verify that the URL of the S3 bucket is correct."

Type: String

Required: No

**Tags**

The tags, or metadata, that have been applied to the document.

Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

**TargetType**

The target type which defines the kinds of resources the document can run on. For example, /AWS::EC2::Instance. For a list of valid resource types, see AWS resource and property types reference in the AWS CloudFormation User Guide.
Type: String

Length Constraints: Maximum length of 200.

Pattern: ^\[/\w\.,\-\:\/]*$

Required: No

**VersionName**

The version of the artifact associated with the document.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$

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 V2
- AWS SDK for Ruby V3
DocumentFilter

This data type is deprecated. Instead, use DocumentKeyValuesFilter (p. 645).

Contents

key

The name of the filter.

Type: String

Valid Values: Name | Owner | PlatformTypes | DocumentType

Required: Yes

value

The value of the filter.

Type: String

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
**DocumentIdentifier**

Describes the name of a Systems Manager document.

## Contents

### Author

The user in your organization who created the document.

- **Type:** String
- **Required:** No

### CreatedDate

The date the Systems Manager document was created.

- **Type:** Timestamp
- **Required:** No

### DisplayName

An optional field where you can specify a friendly name for the Systems Manager document. This value can differ for each version of the document. If you want to update this value, see [UpdateDocument](#).

- **Type:** String
- **Length Constraints:** Maximum length of 1024.
- **Pattern:** `^[\w\.-\/ ]*$`
- **Required:** No

### DocumentFormat

The document format, either JSON or YAML.

- **Type:** String
- **Valid Values:** YAML | JSON | TEXT
- **Required:** No

### DocumentType

The document type.

- **Type:** String
- **Valid Values:** Command | Policy | Automation | Session | Package | ApplicationConfiguration | ApplicationConfigurationSchema | DeploymentStrategy | ChangeCalendar | Automation.ChangeTemplate | ProblemAnalysis | ProblemAnalysisTemplate
- **Required:** No

### DocumentVersion

The document version.

API Version 2014-11-06
Type: String
Pattern: ([#]LATEST|[#]DEFAULT|^\[1-9][0-9]*$)
Required: No

**Name**

The name of the Systems Manager document.

Type: String
Pattern: ^[^a-zA-Z0-9_-.:/\]{3,128}$
Required: No

**Owner**

The AWS user account that created the document.

Type: String
Required: No

**PlatformTypes**

The operating system platform.

Type: Array of strings

Valid Values: Windows | Linux

Required: No

**Requires**

A list of SSM documents required by a document. For example, an ApplicationConfiguration document requires an ApplicationConfigurationSchema document.

Type: Array of `DocumentRequires` objects

Array Members: Minimum number of 1 item.

Required: No

**ReviewStatus**

The current status of a document review.

Type: String

Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED

Required: No

**SchemaVersion**

The schema version.

Type: String


Required: No

**Tags**

The tags, or metadata, that have been applied to the document.
Type: Array of Tag (p. 816) objects

Array Members: Maximum number of 1000 items.

Required: No

**TargetType**

The target type which defines the kinds of resources the document can run on. For example, /AWS::EC2::Instance. For a list of valid resource types, see AWS resource and property types reference in the AWS CloudFormation User Guide.

Type: String

Length Constraints: Maximum length of 200.

Pattern: ^\/[\w\.|-%\-\:/]*$

Required: No

**VersionName**

An optional field specifying the version of the artifact associated with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.](1,128)$

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 V2
- AWS SDK for Ruby V3
DocumentKeyValuesFilter

One or more filters. Use a filter to return a more specific list of documents.

For keys, you can specify one or more tags that have been applied to a document.

You can also use AWS-provided keys, some of which have specific allowed values. These keys and their associated values are as follows:

**DocumentType**
- ApplicationConfiguration
- ApplicationConfigurationSchema
- Automation
- ChangeCalendar
- Command
- DeploymentStrategy
- Package
- Policy
- Session

**Owner**

Note that only one Owner can be specified in a request. For example: Key=Owner,Values=Self.
- Amazon
- Private
- Public
- Self
- ThirdParty

**PlatformTypes**
- Linux
- Windows

**Name** is another AWS-provided key. If you use Name as a key, you can use a name prefix to return a list of documents. For example, in the AWS CLI, to return a list of all documents that begin with Te, run the following command:

```
aws ssm list-documents --filters Key=Name,Values=Te
```

You can also use the TargetType AWS-provided key. For a list of valid resource type values that can be used with this key, see AWS resource and property types reference in the AWS CloudFormation User Guide.

If you specify more than two keys, only documents that are identified by all the tags are returned in the results. If you specify more than two values for a key, documents that are identified by any of the values are returned in the results.

To specify a custom key and value pair, use the format Key=tag:tagName,Values=valueName.

For example, if you created a key called region and are using the AWS CLI to call the list-documents command:

```
aws ssm list-documents --filters Key=tag:region,Values=east,west
```

Key=Owner,Values=Self
Contents

Key

The name of the filter key.
Type: String
Required: No

Values

The value for the filter key.
Type: Array of strings
Length Constraints: Minimum length of 1. Maximum length of 256.
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 V2
- AWS SDK for Ruby V3
DocumentMetadataResponseInfo

Details about the response to a document review request.

Contents

ReviewerResponse

Details about a reviewer’s response to a document review request.

Type: Array of DocumentReviewerResponseSource (p. 651) objects

Required: No

See Also

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

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

Parameters specified in a System Manager document that run on the server when the command is run.

Contents

DefaultValue

If specified, the default values for the parameters. Parameters without a default value are required. Parameters with a default value are optional.

Type: String
Required: No

Description

A description of what the parameter does, how to use it, the default value, and whether or not the parameter is optional.

Type: String
Required: No

Name

The name of the parameter.

Type: String
Required: No

Type

The type of parameter. The type can be either String or StringList.

Type: String

Valid Values: String | StringList
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 V2
- AWS SDK for Ruby V3
**DocumentRequires**

An SSM document required by the current document.

**Contents**

**Name**

The name of the required SSM document. The name can be an Amazon Resource Name (ARN).

Type: String

Pattern: `^[a-zA-Z0-9_\-\.:/]{3,128}$`

Required: Yes

**Version**

The document version required by the current document.

Type: String

Pattern: `(\[\]$LATEST|\[\]$DEFAULT|^\[1-9][0-9]*$)`

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**DocumentReviewCommentSource**

Information about comments added to a document review request.

**Contents**

**Content**

The content of a comment entered by a user who requests a review of a new document version, or who reviews the new version.

Type: String


Pattern: ^(?![\s$]).+

Required: No

**Type**

The type of information added to a review request. Currently, only the value Comment is supported.

Type: String

Valid Values: Comment

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 V2
- AWS SDK for Ruby V3
DocumentReviewerResponseSource

Information about a reviewer's response to a document review request.

Contents

Comment

The comment entered by a reviewer as part of their document review response.

Type: Array of DocumentReviewCommentSource (p. 650) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

CreateTime

The date and time that a reviewer entered a response to a document review request.

Type: Timestamp

Required: No

Reviewer

The user in your organization assigned to review a document request.

Type: String

Length Constraints: Maximum length of 50.

Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$

Required: No

ReviewStatus

The current review status of a new custom SSM document created by a member of your organization, or of the latest version of an existing SSM document.

Only one version of a document can be in the APPROVED state at a time. When a new version is approved, the status of the previous version changes to REJECTED.

Only one version of a document can be in review, or PENDING, at a time.

Type: String

Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED

Required: No

UpdatedTime

The date and time that a reviewer last updated a response to a document review request.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DocumentReviews

Information about a document approval review.

Contents

Action

The action to take on a document approval review request.

Type: String

Valid Values: SendForReview | UpdateReview | Approve | Reject

Required: Yes

Comment

A comment entered by a user in your organization about the document review request.

Type: Array of DocumentReviewCommentSource (p. 650) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

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 V2
- AWS SDK for Ruby V3
DocumentVersionInfo

Version information about the document.

Contents

**CreatedDate**

The date the document was created.

Type: Timestamp

Required: No

**DisplayName**

The friendly name of the Systems Manager document. This value can differ for each version of the document. If you want to update this value, see UpdateDocument (p. 503).

Type: String

Length Constraints: Maximum length of 1024.

Pattern: ^\s\w\.[\w\-\:\ /]*$

Required: No

**DocumentFormat**

The document format, either JSON or YAML.

Type: String

Valid Values: YAML | JSON | TEXT

Required: No

**DocumentVersion**

The document version.

Type: String

Pattern: ([$]LATEST|[+$]DEFAULT|^[1-9][0-9]*$)

Required: No

**IsDefaultVersion**

An identifier for the default version of the document.

Type: Boolean

Required: No

**Name**

The document name.

Type: String

Pattern: ^[a-zA-Z0-9\-\._ ]{3,128}$

Required: No
ReviewStatus
The current status of the approval review for the latest version of the document.

Type: String
Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED
Required: No

Status
The status of the Systems Manager document, such as Creating, Active, Failed, and Deleting.

Type: String
Valid Values: Creating | Active | Updating | Deleting | Failed
Required: No

StatusInformation
A message returned by AWS Systems Manager that explains the Status value. For example, a Failed status might be explained by the StatusInformation message, "The specified S3 bucket does not exist. Verify that the URL of the S3 bucket is correct."

Type: String
Required: No

VersionName
The version of the artifact associated with the document. For example, "Release 12, Update 6". This value is unique across all versions of a document, and cannot be changed.

Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$
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 V2
- AWS SDK for Ruby V3
EffectivePatch

The EffectivePatch structure defines metadata about a patch along with the approval state of the patch in a particular patch baseline. The approval state includes information about whether the patch is currently approved, due to be approved by a rule, explicitly approved, or explicitly rejected and the date the patch was or will be approved.

Contents

Patch

Provides metadata for a patch, including information such as the KB ID, severity, classification and a URL for where more information can be obtained about the patch.

Type: Patch (p. 760) object

Required: No

PatchStatus

The status of the patch in a patch baseline. This includes information about whether the patch is currently approved, due to be approved by a rule, explicitly approved, or explicitly rejected and the date the patch was or will be approved.

Type: PatchStatus (p. 778) object

Required: No

See Also

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

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

Describes a failed association.

Contents

Entry

The association.

Type: CreateAssociationBatchRequestEntry (p. 630) object

Required: No

Fault

The source of the failure.

Type: String

Valid Values: Client | Server | Unknown

Required: No

Message

A description of the failure.

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 V2
- AWS SDK for Ruby V3
FailureDetails

Information about an Automation failure.

Contents

Details

Detailed information about the Automation step failure.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

FailureStage

The stage of the Automation execution when the failure occurred. The stages include the following: InputValidation, PreVerification, Invocation, PostVerification.

Type: String

Required: No

FailureType

The type of Automation failure. Failure types include the following: Action, Permission, Throttling, Verification, Internal.

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 V2
- AWS SDK for Ruby V3
InstanceAggregatedAssociationOverview

Status information about the aggregated associations.

Contents

DetailedStatus

Detailed status information about the aggregated associations.

Type: String

Required: No

InstanceAssociationStatusAggregatedCount

The number of associations for the instance(s).

Type: String to integer map

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 V2
- AWS SDK for Ruby V3
InstanceAssociation

One or more association documents on the instance.

## Contents

### AssociationId

The association ID.

Type: String

Pattern: \[0-9a-fA-F]\{8\}-\[0-9a-fA-F]\{4\}-\[0-9a-fA-F]\{4\}-\[0-9a-fA-F]\{4\}-\[0-9a-fA-F]\{12\}

Required: No

### AssociationVersion

Version information for the association on the instance.

Type: String

Pattern: ([$\]LATEST)|([1-9][0-9]*)

Required: No

### Content

The content of the association document for the instance(s).

Type: String

Length Constraints: Minimum length of 1.

Required: No

###InstanceId

The instance ID.

Type: String

Pattern: (^i-(\w{8}\|\w{17})$)|(^mi-\w{17}$)

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 V2
- AWS SDK for Ruby V3
InstanceAssociationOutputLocation

An S3 bucket where you want to store the results of this request.

For the minimal permissions required to enable Amazon S3 output for an association, see Creating associations in the Systems Manager User Guide.

Contents

S3Location

An S3 bucket where you want to store the results of this request.

Type: S3OutputLocation (p. 800) object

Required: No

See Also

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

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

The URL of S3 bucket where you want to store the results of this request.

Contents

S3OutputUrl

The URL of S3 bucket where you want to store the results of this request.

Type: S3OutputUrl (p. 801) object

Required: No

See Also

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

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

Status information about the instance association.

Contents

AssociationId

The association ID.

Type: String

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: No

AssociationName

The name of the association applied to the instance.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}$

Required: No

AssociationVersion

The version of the association applied to the instance.

Type: String

Pattern: ([#]LATEST)|([1-9][0-9]*)

Required: No

DetailedStatus

Detailed status information about the instance association.

Type: String

Required: No

DocumentVersion

The association document versions.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^\[1-9][0-9]*$)

Required: No

ErrorCode

An error code returned by the request to create the association.

Type: String

Length Constraints: Maximum length of 10.

Required: No
ExecutionDate

The date the instance association ran.

Type: Timestamp

Required: No

ExecutionSummary

Summary information about association execution.

Type: String


Required: No

InstanceId

The instance ID where the association was created.

Type: String

Pattern: (^i-(\w{8}|\w{17}$)|(^mi-\w{17}$)

Required: No

Name

The name of the association.

Type: String

Pattern: ^[a-zA-Z0-9_\-./:]{3,128}$

Required: No

OutputUrl

A URL for an S3 bucket where you want to store the results of this request.

Type: InstanceAssociationOutputUrl (p. 662) object

Required: No

Status

Status information about the instance association.

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 V2
- AWS SDK for Ruby V3
InstanceInformation

Describes a filter for a specific list of instances.

Contents

**ActivationId**

The activation ID created by Systems Manager when the server or VM was registered.

Type: String

Pattern: \^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$

Required: No

**AgentVersion**

The version of SSM Agent running on your Linux instance.

Type: String

Pattern: \^[0-9]{1,6}(\.[0-9]{1,6}){2,3}$

Required: No

**AssociationOverview**

Information about the association.

Type: InstanceAggregatedAssociationOverview (p. 659) object

Required: No

**AssociationStatus**

The status of the association.

Type: String

Required: No

**ComputerName**

The fully qualified host name of the managed instance.

Type: String

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

Required: No

**IamRole**

The Amazon Identity and Access Management (IAM) role assigned to the on-premises Systems Manager managed instance. This call does not return the IAM role for EC2 instances. To retrieve the IAM role for an EC2 instance, use the Amazon EC2 DescribeInstances action. For information, see DescribeInstances in the Amazon EC2 API Reference or describe-instances in the AWS CLI Command Reference.

Type: String

Length Constraints: Maximum length of 64.
Required: No

**InstanceId**

The instance ID.

Type: String

Pattern: \(^^i-(\w{8}|\w{17})\)|(^mi-\w{17})

Required: No

**IPAddress**

The IP address of the managed instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 46.

Required: No

**IsLatestVersion**

Indicates whether the latest version of SSM Agent is running on your Linux Managed Instance. This field does not indicate whether or not the latest version is installed on Windows managed instances, because some older versions of Windows Server use the EC2Config service to process SSM requests.

Type: Boolean

Required: No

**LastAssociationExecutionDate**

The date the association was last run.

Type: Timestamp

Required: No

**LastPingDateTime**

The date and time when the agent last pinged the Systems Manager service.

Type: Timestamp

Required: No

**LastSuccessfulAssociationExecutionDate**

The last date the association was successfully run.

Type: Timestamp

Required: No

**Name**

The name assigned to an on-premises server or virtual machine (VM) when it is activated as a Systems Manager managed instance. The name is specified as the DefaultInstanceName property using the CreateActivation (p. 19) command. It is applied to the managed instance by specifying the Activation Code and Activation ID when you install SSM Agent on the instance, as explained in Install SSM Agent for a hybrid environment (Linux) and Install SSM Agent for a hybrid environment (Windows). To retrieve the Name tag of an EC2 instance, use the Amazon EC2 DescribeInstances action. For information, see DescribeInstances in the Amazon EC2 API Reference or describe-instances in the AWS CLI Command Reference.
Type: String
Required: No

PingStatus
Connection status of SSM Agent.

Note
The status Inactive has been deprecated and is no longer in use.

Type: String
Valid Values: Online | ConnectionLost | Inactive
Required: No

PlatformName
The name of the operating system platform running on your instance.

Type: String
Required: No

PlatformType
The operating system platform type.

Type: String
Valid Values: Windows | Linux
Required: No

PlatformVersion
The version of the OS platform running on your instance.

Type: String
Required: No

RegistrationDate
The date the server or VM was registered with AWS as a managed instance.

Type: Timestamp
Required: No

ResourceType
The type of instance. Instances are either EC2 instances or managed instances.

Type: String
Valid Values: ManagedInstance | Document | EC2Instance
Required: No

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

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

Describes a filter for a specific list of instances. You can filter instances information by using tags. You specify tags by using a key-value mapping.

Use this action instead of the DescribeInstanceInformation:InstanceInformationFilterList (p. 155) method. The InstanceInformationFilterList method is a legacy method and does not support tags.

Contents

key

The name of the filter.

Type: String

Valid Values: InstanceIds | AgentVersion | PingStatus | PlatformTypes | ActivationIds | IamRole | ResourceType | AssociationStatus

Required: Yes

valueSet

The filter values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
InstanceInformationStringFilter

The filters to describe or get information about your managed instances.

**Contents**

**Key**

The filter key name to describe your instances. For example:

"InstanceId","AgentVersion","PingStatus","PlatformTypes","ActivationIds","IamRole","ResourceType","AssociationStatus","Tag Key"

**Important**

Tag key is not a valid filter. You must specify either tag-key or tag:keyname and a string. Here are some valid examples: tag-key, tag:123, tag:all, tag:Windows. Here are some invalid examples: tag-keys, Tag Key, tag:, tagKey, abc:keyname.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

**Values**

The filter values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1.

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 V2
- AWS SDK for Ruby V3
InstancePatchState

Defines the high-level patch compliance state for a managed instance, providing information about the number of installed, missing, not applicable, and failed patches along with metadata about the operation when this information was gathered for the instance.

Contents

BaselineId

The ID of the patch baseline used to patch the instance.

Type: String


Pattern: ^[a-zA-Z0-9_\-:/\]{20,128}$

Required: Yes

CriticalNonCompliantCount

The number of instances where patches that are specified as "Critical" for compliance reporting in the patch baseline are not installed. These patches might be missing, have failed installation, were rejected, or were installed but awaiting a required instance reboot. The status of these instances is NON_COMPLIANT.

Type: Integer

Required: No

FailedCount

The number of patches from the patch baseline that were attempted to be installed during the last patching operation, but failed to install.

Type: Integer

Required: No

InstalledCount

The number of patches from the patch baseline that are installed on the instance.

Type: Integer

Required: No

InstalledOtherCount

The number of patches not specified in the patch baseline that are installed on the instance.

Type: Integer

Required: No

InstalledPendingRebootCount

The number of patches installed by Patch Manager since the last time the instance was rebooted.

Type: Integer

Required: No
InstalledRejectedCount

The number of patches installed on an instance that are specified in a RejectedPatches list. Patches with a status of InstalledRejected were typically installed before they were added to a RejectedPatches list.

**Note**
If ALLOW_AS_DEPENDENCY is the specified option for RejectedPatchesAction, the value of InstalledRejectedCount will always be 0 (zero).

Type: Integer
Required: No

InstallOverrideList

An https URL or an Amazon S3 path-style URL to a list of patches to be installed. This patch installation list, which you maintain in an S3 bucket in YAML format and specify in the SSM document AWS-RunPatchBaseline, overrides the patches specified by the default patch baseline.

For more information about the InstallOverrideList parameter, see About the SSM document AWS-RunPatchBaseline in the AWS Systems Manager User Guide.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Pattern: ^https://.+|^s3://[^/]+/(.*?[^/]+)$
Required: No

InstanceId

The ID of the managed instance the high-level patch compliance information was collected for.

Type: String
Pattern: (i-(\w{8}|\w{17})$)|(^mi-$\w{17}$)
Required: Yes

LastNoRebootInstallOperationTime

The time of the last attempt to patch the instance with NoReboot specified as the reboot option.

Type: Timestamp
Required: No

MissingCount

The number of patches from the patch baseline that are applicable for the instance but aren't currently installed.

Type: Integer
Required: No

NotApplicableCount

The number of patches from the patch baseline that aren't applicable for the instance and therefore aren't installed on the instance. This number may be truncated if the list of patch names is very large. The number of patches beyond this limit are reported in UnreportedNotApplicableCount.

Type: Integer
Required: No

**Operation**

The type of patching operation that was performed: **SCAN** (assess patch compliance state) or **INSTALL** (install missing patches).

Type: String

Valid Values: Scan | Install

Required: Yes

**OperationEndTime**

The time the most recent patching operation completed on the instance.

Type: Timestamp

Required: Yes

**OperationStartTime**

The time the most recent patching operation was started on the instance.

Type: Timestamp

Required: Yes

**OtherNonCompliantCount**

The number of instances with patches installed that are specified as other than "Critical" or "Security" but are not compliant with the patch baseline. The status of these instances is NON_COMPLIANT.

Type: Integer

Required: No

**OwnerInformation**

Placeholder information. This field will always be empty in the current release of the service.

Type: String


Required: No

**PatchGroup**

The name of the patch group the managed instance belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([\p{L}\p{Z}\p{N}_.:/=\-@]*)$

Required: Yes

**RebootOption**

Indicates the reboot option specified in the patch baseline.

**Note**

Reboot options apply to **Install** operations only. Reboots are not attempted for Patch Manager **Scan** operations.
• **RebootIfNeeded**: Patch Manager tries to reboot the instance if it installed any patches, or if any patches are detected with a status of `InstalledPendingReboot`.

  - **NoReboot**: Patch Manager attempts to install missing packages without trying to reboot the system. Patches installed with this option are assigned a status of `InstalledPendingReboot`. These patches might not be in effect until a reboot is performed.

  Type: String

  Valid Values: RebootIfNeeded | NoReboot

  Required: No

**SecurityNonCompliantCount**

  The number of instances where patches that are specified as "Security" in a patch advisory are not installed. These patches might be missing, have failed installation, were rejected, or were installed but awaiting a required instance reboot. The status of these instances is `NON_COMPLIANT`.

  Type: Integer

  Required: No

**SnapshotId**

  The ID of the patch baseline snapshot used during the patching operation when this compliance data was collected.

  Type: String

  Length Constraints: Fixed length of 36.

  Pattern: `^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$`

  Required: No

**UnreportedNotApplicableCount**

  The number of patches beyond the supported limit of `NotApplicableCount` that are not reported by name to Systems Manager Inventory.

  Type: Integer

  Required: No

---

**See Also**

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

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

Defines a filter used in DescribeInstancePatchStatesForPatchGroup (p. 168) used to scope down the information returned by the API.

Contents

Key

The key for the filter. Supported values are FailedCount, InstalledCount, InstalledOtherCount, MissingCount and NotApplicableCount.

Type: String


Required: Yes

Type

The type of comparison that should be performed for the value: Equal, NotEqual, LessThan or GreaterThan.

Type: String

Valid Values: Equal | NotEqual | LessThan | GreaterThan

Required: Yes

Values

The value for the filter, must be an integer greater than or equal to 0.

Type: Array of strings

Array Members: Fixed number of 1 item.

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 V2
- AWS SDK for Ruby V3
InventoryAggregator

Specifies the inventory type and attribute for the aggregation execution.

Contents

Aggregators

Nested aggregators to further refine aggregation for an inventory type.

Type: Array of InventoryAggregator (p. 677) objects

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

Required: No

Expression

The inventory type and attribute name for aggregation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

Groups

A user-defined set of one or more filters on which to aggregate inventory data. Groups return a count of resources that match and don't match the specified criteria.

Type: Array of InventoryGroup (p. 683) objects

Array Members: Minimum number of 1 item. Maximum number of 15 items.

Required: No

See Also

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

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

Status information returned by the DeleteInventory action.

Contents

**DeletionId**

The deletion ID returned by the DeleteInventory action.

Type: String

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

Required: No

**DeletionStartTime**

The UTC timestamp when the delete operation started.

Type: Timestamp

Required: No

**DeletionSummary**

Information about the delete operation. For more information about this summary, see Understanding the delete inventory summary in the AWS Systems Manager User Guide.

Type: InventoryDeletionSummary (p. 680) object

Required: No

**LastStatus**

The status of the operation. Possible values are InProgress and Complete.

Type: String

Valid Values: InProgress | Complete

Required: No

**LastStatusMessage**

Information about the status.

Type: String

Required: No

**LastStatusUpdateTime**

The UTC timestamp of when the last status report.

Type: Timestamp

Required: No

**TypeName**

The name of the inventory data type.

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

Pattern: ^\(AWS|Custom\):.**$

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 V2
- AWS SDK for Ruby V3
InventoryDeletionSummary

Information about the delete operation.

Contents

RemainingCount

Remaining number of items to delete.
Type: Integer
Required: No

SummaryItems

A list of counts and versions for deleted items.
Type: Array of InventoryDeletionSummaryItem (p. 681) objects
Required: No

TotalCount

The total number of items to delete. This count does not change during the delete operation.
Type: Integer
Required: No

See Also

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

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

Either a count, remaining count, or a version number in a delete inventory summary.

**Contents**

**Count**

A count of the number of deleted items.

Type: Integer

Required: No

**RemainingCount**

The remaining number of items to delete.

Type: Integer

Required: No

**Version**

The inventory type version.

Type: String

Pattern: `^[0-9]{1,6} \.[0-9]{1,6}$`

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 V2
- AWS SDK for Ruby V3
InventoryFilter

One or more filters. Use a filter to return a more specific list of results.

Contents

Key

The name of the filter key.

Type: String


Required: Yes

Type

The type of filter.

Note

The `Exists` filter must be used with aggregators. For more information, see Aggregating inventory data in the AWS Systems Manager User Guide.

Type: String

Valid Values: Equal | NotEqual | BeginWith | LessThan | GreaterThan | Exists

Required: No

Values

Inventory filter values. Example: inventory filter where instance IDs are specified as values

```
Key=AWS:InstanceInformation.InstanceId,Values= i-a12b3c4d5e6g, i-1a2b3c4d5e6,Type=Equal
```

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 40 items.

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 V2
- AWS SDK for Ruby V3
InventoryGroup

A user-defined set of one or more filters on which to aggregate inventory data. Groups return a count of resources that match and don't match the specified criteria.

Contents

Filters

Filters define the criteria for the group. The matchingCount field displays the number of resources that match the criteria. The notMatchingCount field displays the number of resources that don't match the criteria.

Type: Array of InventoryFilter (p. 682) objects
Array Members: Minimum number of 1 item. Maximum number of 5 items.
Required: Yes

Name

The name of the group.

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 V2
- AWS SDK for Ruby V3
InventoryItem

Information collected from managed instances based on your inventory policy document

Contents

CaptureTime

The time the inventory information was collected.

Type: String

Pattern: ^\(20\)[0-9][0-9]-\(0[1-9]|1[012]\)-\((12)[0-9]|3[01]|0[1-9])(T)(2[0-3]\([0-1]\)[0-9])(:0-5\)[0-9])[:0-5\[0-9]](Z)$

Required: Yes

Content

The inventory data of the inventory type.

Type: Array of string to string maps

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

ContentHash

MD5 hash of the inventory item type contents. The content hash is used to determine whether to update inventory information. The PutInventory API does not update the inventory item type contents if the MD5 hash has not changed since last update.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Context

A map of associated properties for a specified inventory type. For example, with this attribute, you can specify the ExecutionId, ExecutionType, ComplianceType properties of the AWS:ComplianceItem type.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No
**SchemaVersion**

The schema version for the inventory item.

Type: String

Pattern: ^([0-9]{1,6})(\.[0-9]{1,6})$

Required: Yes

**TypeName**

The name of the inventory type. Default inventory item type names start with AWS. Custom inventory type names will start with Custom. Default inventory item types include the following: AWS:AWSComponent, AWS:Application, AWS:InstanceInformation, AWS:Network, and AWS:WindowsUpdate.

Type: String

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

Pattern: ^(AWS|Custom):.*$

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 V2
- AWS SDK for Ruby V3
InventoryItemAttribute

Attributes are the entries within the inventory item content. It contains name and value.

Contents

DataType

The data type of the inventory item attribute.

Type: String

Valid Values: string | number

Required: Yes

Name

Name of the inventory item attribute.

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 V2
- AWS SDK for Ruby V3
InventoryItemSchema

The inventory item schema definition. Users can use this to compose inventory query filters.

Contents

Attributes

The schema attributes for inventory. This contains data type and attribute name.

Type: Array of InventoryItemAttribute (p. 686) objects

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

Required: Yes

DisplayName

The alias name of the inventory type. The alias name is used for display purposes.

Type: String

Required: No

TypeName

The name of the inventory type. Default inventory item type names start with AWS. Custom inventory type names will start with Custom. Default inventory item types include the following: AWS:AWSComponent, AWS:Application, AWS:InstanceInformation, AWS:Network, and AWS:WindowsUpdate.

Type: String

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

Pattern: ^(AWS|Custom):.*$

Required: Yes

Version

The schema version for the inventory item.

Type: String

Pattern: ^([0-9]{1,6})(\.[0-9]{1,6})$\(\.[0-9]{1,6}\)\$

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 V2
- AWS SDK for Ruby V3
InventoryResultEntity

Inventory query results.

Contents

Data

The data section in the inventory result entity JSON.

Type: String to InventoryResultItem (p. 689) object map

Required: No

Id

ID of the inventory result entity. For example, for managed instance inventory the result will be the managed instance ID. For EC2 instance inventory, the result will be the instance ID.

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 V2
- AWS SDK for Ruby V3
InventoryResultItem

The inventory result item.

Contents

CaptureTime

The time inventory item data was captured.

Type: String

Pattern: ^(20)[0-9][0-9]-(0[1-9]|1[012])-(0[1-9]|3[01]|0[1-9])((T)(2[0-3]|[0-1][0-9])(:[0-5][0-9])(:[0-5][0-9])(Z)$

Required: No

Content

Contains all the inventory data of the item type. Results include attribute names and values.

Type: Array of string to string maps

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: Yes

ContentHash

MD5 hash of the inventory item type contents. The content hash is used to determine whether to update inventory information. The PutInventory API does not update the inventory item type contents if the MD5 hash has not changed since last update.

Type: String

Length Constraints: Maximum length of 256.

Required: No

SchemaVersion

The schema version for the inventory result item/

Type: String

Pattern: ^([0-9]{1,6})\.(\.[0-9]{1,6})$

Required: Yes

TypeName

The name of the inventory result item type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: ^(AWS|Custom):.*$

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 V2
- AWS SDK for Ruby V3
LoggingInfo

Information about an S3 bucket to write instance-level logs to.

**Note**
LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

**Contents**

**S3BucketName**
The name of an S3 bucket where execution logs are stored.

Type: String
Required: Yes

**S3KeyPrefix**
(Optional) The S3 bucket subfolder.

Type: String
Length Constraints: Maximum length of 500.
Required: No

**S3Region**
The Region where the S3 bucket is located.

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 V2
- AWS SDK for Ruby V3
MaintenanceWindowAutomationParameters

The parameters for an AUTOMATION task type.

Contents

DocumentVersion

The version of an Automation document to use during task execution.

Type: String

Pattern: ([#]LATEST|[#]DEFAULT|^\[1-9]\[0-9]*$)

Required: No

Parameters

The parameters for the AUTOMATION task.

For information about specifying and updating task parameters, see RegisterTaskWithMaintenanceWindow (p. 437) and UpdateMaintenanceWindowTask (p. 525).

**Note**

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

For AUTOMATION task types, Systems Manager ignores any values specified for these parameters.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

See Also

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

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

Describes the information about an execution of a maintenance window.

Contents

**EndTime**
The time the execution finished.
Type: Timestamp
Required: No

**StartTime**
The time the execution started.
Type: Timestamp
Required: No

**Status**
The status of the execution.
Type: String
Valid Values: PENDING | IN_PROGRESS | SUCCESS | FAILED | TIMED_OUT | CANCELLING | CANCELLED | SKIPPED_OVERLAPPING
Required: No

**StatusDetails**
The details explaining the Status. Only available for certain status values.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 250.
Required: No

**WindowExecutionId**
The ID of the maintenance window execution.
Type: String
Length Constraints: Fixed length of 36.
Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$
Required: No

**WindowId**
The ID of the maintenance window.
Type: String
Pattern: ^mw-[0-9a-f]{17}$

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 V2
- AWS SDK for Ruby V3
MaintenanceWindowExecutionTaskIdentity

Information about a task execution performed as part of a maintenance window execution.

Contents

EndTime

The time the task execution finished.
Type: Timestamp
Required: No

StartTime

The time the task execution started.
Type: Timestamp
Required: No

Status

The status of the task execution.
Type: String
Valid Values: PENDING | IN_PROGRESS | SUCCESS | FAILED | TIMED_OUT | CANCELLING | CANCELLED | SKIPPED_OVERLAPPING
Required: No

StatusDetails

The details explaining the status of the task execution. Only available for certain status values.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 250.
Required: No

TaskArn

The ARN of the task that ran.
Type: String
Required: No

TaskExecutionId

The ID of the specific task execution in the maintenance window execution.
Type: String
Length Constraints: Fixed length of 36.
Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$
**Required:** No

**TaskType**

The type of task that ran.

Type: String

Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA

Required: No

**WindowExecutionId**

The ID of the maintenance window execution that ran the task.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Required: No

**See Also**

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

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

Describes the information about a task invocation for a particular target as part of a task execution performed as part of a maintenance window execution.

Contents

EndTime

The time the invocation finished.

Type: Timestamp

Required: No

ExecutionId

The ID of the action performed in the service that actually handled the task invocation. If the task type is RUN_COMMAND, this value is the command ID.

Type: String

Required: No

InvocationId

The ID of the task invocation.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: No

OwnerInformation

User-provided value that was specified when the target was registered with the maintenance window. This was also included in any CloudWatch events raised during the task invocation.

Type: String


Required: No

Parameters

The parameters that were provided for the invocation when it was run.

Type: String

Required: No

StartTime

The time the invocation started.

Type: Timestamp

Required: No
Status

The status of the task invocation.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESS | FAILED | TIMED_OUT | CANCELLING | CANCELLED | SKIPPED_OVERLAPPING

Required: No

StatusDetails

The details explaining the status of the task invocation. Only available for certain Status values.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Required: No

TaskExecutionId

The ID of the specific task execution in the maintenance window execution.

Type: String

Length Constraints: Fixed length of 36.

Pattern: \^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Required: No

TaskType

The task type.

Type: String

Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA

Required: No

WindowExecutionId

The ID of the maintenance window execution that ran the task.

Type: String

Length Constraints: Fixed length of 36.

Pattern: \^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}$

Required: No

WindowTargetId

The ID of the target definition in this maintenance window the invocation was performed for.

Type: String

Length Constraints: Maximum length of 36.

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 V2
- AWS SDK for Ruby V3
MaintenanceWindowFilter

Filter used in the request. Supported filter keys are Name and Enabled.

Contents

Key

The name of the filter.

Type: String


Required: No

Values

The filter values.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

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 V2
- AWS SDK for Ruby V3
MaintenanceWindowIdentity

Information about the maintenance window.

Contents

Cutoff

The number of hours before the end of the maintenance window that Systems Manager stops scheduling new tasks for execution.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: No

Description

A description of the maintenance window.

Type: String


Required: No

Duration

The duration of the maintenance window in hours.

Type: Integer


Required: No

Enabled

Indicates whether the maintenance window is enabled.

Type: Boolean

Required: No

EndDate

The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to become inactive.

Type: String

Required: No

Name

The name of the maintenance window.

Type: String


Pattern: ^[a-zA-Z0-9_.\-]{3,128}$
Required: No

NextExecutionTime
The next time the maintenance window will actually run, taking into account any specified times for the maintenance window to become active or inactive.

Type: String
Required: No

Schedule
The schedule of the maintenance window in the form of a cron or rate expression.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Required: No

ScheduleOffset
The number of days to wait to run a maintenance window after the scheduled CRON expression date and time.

Type: Integer
Required: No

ScheduleTimezone
The time zone that the scheduled maintenance window executions are based on, in Internet Assigned Numbers Authority (IANA) format.

Type: String
Required: No

StartDate
The date and time, in ISO-8601 Extended format, for when the maintenance window is scheduled to become active.

Type: String
Required: No

WindowId
The ID of the maintenance window.

Type: String
Pattern: ^mw-[0-9a-f]{17}$
Required: No

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

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

The maintenance window to which the specified target belongs.

Contents

Name

The name of the maintenance window.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$_$ Required: No

WindowId

The ID of the maintenance window.
Type: String
Pattern: ^mw-[0-9a-f]{17}$ 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 V2
- AWS SDK for Ruby V3
MaintenanceWindowLambdaParameters

The parameters for a LAMBDA task type.

For information about specifying and updating task parameters, see
RegisterTaskWithMaintenanceWindow (p. 437) and UpdateMaintenanceWindowTask (p. 525).

**Note**

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

For Lambda tasks, Systems Manager ignores any values specified for TaskParameters and LoggingInfo.

**Contents**

**ClientContext**

Pass client-specific information to the Lambda function that you are invoking. You can then process the client information in your Lambda function as you choose through the context variable.

Type: String


Required: No

**Payload**

JSON to provide to your Lambda function as input.

Type: Base64-encoded binary data object

Length Constraints: Maximum length of 4096.

Required: No

**Qualifier**

(Optional) Specify a Lambda function version or alias name. If you specify a function version, the action uses the qualified function ARN to invoke a specific Lambda function. If you specify an alias name, the action uses the alias ARN to invoke the Lambda function version to which the alias points.

Type: String


Required: No

**See Also**

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

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

The parameters for a RUN_COMMAND task type.

For information about specifying and updating task parameters, see RegisterTaskWithMaintenanceWindow (p. 437) and UpdateMaintenanceWindowTask (p. 525).

**Note**

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

For Run Command tasks, Systems Manager uses specified values for TaskParameters and LoggingInfo only if no values are specified for TaskInvocationParameters.

## Contents

### CloudWatchOutputConfig

Configuration options for sending command output to CloudWatch Logs.

Type: CloudWatchOutputConfig (p. 607) object

Required: No

### Comment

Information about the commands to run.

Type: String

Length Constraints: Maximum length of 100.

Required: No

### DocumentHash

The SHA-256 or SHA-1 hash created by the system when the document was created. SHA-1 hashes have been deprecated.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### DocumentHashType

SHA-256 or SHA-1. SHA-1 hashes have been deprecated.

Type: String

Valid Values: Sha256 | Sha1

Required: No
DocumentVersion

The SSM document version to use in the request. You can specify $DEFAULT, $LATEST, or a specific version number. If you run commands by using the AWS CLI, then you must escape the first two options by using a backslash. If you specify a version number, then you don't need to use the backslash. For example:

--document-version "\$DEFAULT"
--document-version "\$LATEST"
--document-version "3"

Type: String
Pattern: ([^$]LATEST|[^$]DEFAULT|^1-9[0-9]*)

Required: No

NotificationConfig

Configurations for sending notifications about command status changes on a per-instance basis.

Type: NotificationConfig (p. 721) object

Required: No

OutputS3BucketName

The name of the S3 bucket.

Type: String


Required: No

OutputS3KeyPrefix

The S3 bucket subfolder.

Type: String

Length Constraints: Maximum length of 500.

Required: No

Parameters

The parameters for the RUN_COMMAND task execution.

Type: String to array of strings map

Required: No

ServiceRoleArn

The ARN of the IAM service role to use to publish Amazon Simple Notification Service (Amazon SNS) notifications for maintenance window Run Command tasks.

Type: String

Required: No

TimeoutSeconds

If this time is reached and the command has not already started running, it doesn't run.
Type: Integer


Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
The parameters for a STEP_FUNCTIONS task.

For information about specifying and updating task parameters, see RegisterTaskWithMaintenanceWindow (p. 437) and UpdateMaintenanceWindowTask (p. 525).

**Note**
LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717). For Step Functions tasks, Systems Manager ignores any values specified for TaskParameters and LoggingInfo.

**Contents**

**Input**

The inputs for the STEP_FUNCTIONS task.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

**Name**

The name of the STEP_FUNCTIONS task.

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 V2
- AWS SDK for Ruby V3
MaintenanceWindowTarget

The target registered with the maintenance window.

Contents

Description

A description for the target.

Type: String


Required: No

Name

The name for the maintenance window target.

Type: String


Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}$

Required: No

OwnerInformation

A user-provided value that will be included in any CloudWatch events that are raised while running tasks for these targets in this maintenance window.

Type: String


Required: No

ResourceType

The type of target that is being registered with the maintenance window.

Type: String

Valid Values: INSTANCE | RESOURCE_GROUP

Required: No

Targets

The targets, either instances or tags.

Specify instances using the following format:

Key=instanceids,Values=<instanceid1>,<instanceid2>

Tags are specified using the following format:

Key=<tag name>,Values=<tag value>.

Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**WindowId**

The ID of the maintenance window to register the target with.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: No

**WindowTargetId**

The ID of the target.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: No

**See Also**

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

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

Information about a task defined for a maintenance window.

Contents

Description

A description of the task.

Type: String


Required: No

LoggingInfo

Information about an S3 bucket to write task-level logs to.

Note

LoggingInfo has been deprecated. To specify an S3 bucket to contain logs, instead use the OutputS3BucketName and OutputS3KeyPrefix options in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: LoggingInfo (p. 691) object

Required: No

MaxConcurrency

The maximum number of targets this task can be run for, in parallel.

Type: String


Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)$ 

Required: No

MaxErrors

The maximum number of errors allowed before this task stops being scheduled.

Type: String


Pattern: ^([1-9][0-9]*|[0][0-9][1-9][0-9]%|[0-9]%|100%)$ 

Required: No

Name

The task name.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]\{3,128\}#$

Required: No

**Priority**

The priority of the task in the maintenance window. The lower the number, the higher the priority. Tasks that have the same priority are scheduled in parallel.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

**ServiceRoleArn**

The ARN of the IAM service role to use to publish Amazon Simple Notification Service (Amazon SNS) notifications for maintenance window Run Command tasks.

Type: String

Required: No

**Targets**

The targets (either instances or tags). Instances are specified using Key=instanceids,Values=<instanceid1>,<instanceid2>. Tags are specified using Key=<tagName>,Values=<tag value>.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**TaskArn**

The resource that the task uses during execution. For RUN_COMMAND and AUTOMATION task types, TaskArn is the Systems Manager document name or ARN. For LAMBDA tasks, it's the function name or ARN. For STEP_FUNCTIONS tasks, it's the state machine ARN.

Type: String


Required: No

**TaskParameters**

The parameters that should be passed to the task when it is run.

- **Note**

  TaskParameters has been deprecated. To specify parameters to pass to a task when it runs, instead use the Parameters option in the TaskInvocationParameters structure. For information about how Systems Manager handles these options for the supported maintenance window task types, see MaintenanceWindowTaskInvocationParameters (p. 717).

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 718) object map

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

Required: No
Type

The type of task. The type can be one of the following: RUN_COMMAND, AUTOMATION, LAMBDA, or STEP_FUNCTIONS.

Type: String

Valid Values: RUN_COMMAND | AUTOMATION | STEP_FUNCTIONS | LAMBDA

Required: No

WindowId

The ID of the maintenance window where the task is registered.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

Required: No

WindowTaskId

The task ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: ^[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12}$

Required: No

See Also

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

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

The parameters for task execution.

Contents

Automation

The parameters for an AUTOMATION task type.

Type: MaintenanceWindowAutomationParameters (p. 692) object

Required: No

Lambda

The parameters for a LAMBDA task type.

Type: MaintenanceWindowLambdaParameters (p. 706) object

Required: No

RunCommand

The parameters for a RUN_COMMAND task type.

Type: MaintenanceWindowRunCommandParameters (p. 708) object

Required: No

StepFunctions

The parameters for a STEP_FUNCTIONS task type.

Type: MaintenanceWindowStepFunctionsParameters (p. 711) object

Required: No

See Also

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

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

Defines the values for a task parameter.

Contents

Values

This field contains an array of 0 or more strings, each 1 to 255 characters in length.

Type: Array of strings

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

Required: No

See Also

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

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

Metadata to assign to an Application Manager application.

Contents

Value

Metadata value to assign to an Application Manager application.

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 V2
- AWS SDK for Ruby V3
NonCompliantSummary

A summary of resources that are not compliant. The summary is organized according to resource type.

Contents

NonCompliantCount

The total number of compliance items that are not compliant.

Type: Integer

Required: No

SeveritySummary

A summary of the non-compliance severity by compliance type

Type: SeveritySummary (p. 809) object

Required: No

See Also

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

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

Configurations for sending notifications.

Contents

NotificationArn

An Amazon Resource Name (ARN) for an Amazon Simple Notification Service (Amazon SNS) topic. Run Command pushes notifications about command status changes to this topic.

Type: String
Required: No

NotificationEvents

The different events for which you can receive notifications. These events include the following: All (events), InProgress, Success, TimedOut, Cancelled, Failed. To learn more about these events, see Monitoring Systems Manager status changes using Amazon SNS notifications in the AWS Systems Manager User Guide.

Type: Array of strings
Valid Values: All | InProgress | Success | TimedOut | Cancelled | Failed
Required: No

NotificationType

Command: Receive notification when the status of a command changes. Invocation: For commands sent to multiple instances, receive notification on a per-instance basis when the status of a command changes.

Type: String
Valid Values: Command | Invocation
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 V2
- AWS SDK for Ruby V3
OpsAggregator

One or more aggregators for viewing counts of OpsItems using different dimensions such as Source, CreatedTime, or Source and CreatedTime, to name a few.

Contents

Aggregators

A nested aggregator for viewing counts of OpsItems.

Type: Array of OpsAggregator (p. 722) objects

Array Members: Minimum number of 1 item. Maximum number of 12 items.

Required: No

AggregatorType

Either a Range or Count aggregator for limiting an OpsItem summary.

Type: String


Pattern: ^(range|count|sum)$

Required: No

AttributeName

The name of an OpsItem attribute on which to limit the count of OpsItems.

Type: String


Required: No

Filters

The aggregator filters.

Type: Array of OpsFilter (p. 726) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

TypeName

The data type name to use for viewing counts of OpsItems.

Type: String

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

Pattern: ^(AWS|Custom):.*$

Required: No

Values

The aggregator value.
Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 5 items.
Key Length Constraints: Minimum length of 1. Maximum length of 32.
Value Length Constraints: Minimum length of 0. Maximum length of 2048.
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 V2
- AWS SDK for Ruby V3
OpsEntity

The result of the query.

Contents

Data

The data returned by the query.

Type: String to OpsEntityItem (p. 725) object map

Required: No

Id

The query ID.

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 V2
- AWS SDK for Ruby V3
OpsEntityItem

The OpsItem summaries result item.

Contents

CaptureTime

The time OpsItem data was captured.

Type: String

Pattern: ^\(20\)[0-9][0-9]-(0[1-9]|1[012])-([12][0-9]|3[01]|0[1-9])\(T\)(2[0-3]|[0-1][0-9])(:[0-5][0-9])(:[0-5][0-9])(Z)$

Required: No

Content

The detailed data content for an OpsItem summaries result item.

Type: Array of string to string maps

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

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 V2
- AWS SDK for Ruby V3
OpsFilter

A filter for viewing OpsItem summaries.

Contents

Key

The name of the filter.

Type: String


Required: Yes

Type

The type of filter.

Type: String

Valid Values: Equal | NotEqual | BeginWith | LessThan | GreaterThan | Exists

Required: No

Values

The filter value.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 40 items.

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

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 V2
- AWS SDK for Ruby V3
OpsItem

Operations engineers and IT professionals use OpsCenter to view, investigate, and remediate operational issues impacting the performance and health of their AWS resources. For more information, see AWS Systems Manager OpsCenter in the AWS Systems Manager User Guide.

Contents

**ActualEndTime**

The time a runbook workflow ended. Currently reported only for the OpsItem type `/aws/changetask`.

Type: Timestamp

Required: No

**ActualStartTime**

The time a runbook workflow started. Currently reported only for the OpsItem type `/aws/changetask`.

Type: Timestamp

Required: No

**Category**


Type: String

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

Pattern: `^([^\s]*\s)*`.

Required: No

**CreatedBy**

The ARN of the AWS account that created the OpsItem.

Type: String

Required: No

**CreatedTime**

The date and time the OpsItem was created.

Type: Timestamp

Required: No

**Description**

The OpsItem description.

Type: String

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

Pattern: `[^\s]*\s[^\s]*`.
Required: No

**LastModifiedBy**

The ARN of the AWS account that last updated the OpsItem.

Type: String

Required: No

**LastModifiedTime**

The date and time the OpsItem was last updated.

Type: Timestamp

Required: No

**Notifications**

The Amazon Resource Name (ARN) of an SNS topic where notifications are sent when this OpsItem is edited or changed.

Type: Array of [OpsItemNotification](#) objects

Required: No

**OperationalData**

Operational data is custom data that provides useful reference details about the OpsItem. For example, you can specify log files, error strings, license keys, troubleshooting tips, or other relevant data. You enter operational data as key-value pairs. The key has a maximum length of 128 characters. The value has a maximum size of 20 KB.

**Important**

Operational data keys can't begin with the following: amazon, aws, amzn, ssm, /amazon, /aws, /amzn, /ssm.

You can choose to make the data searchable by other users in the account or you can restrict search access. Searchable data means that all users with access to the OpsItem Overview page (as provided by the [DescribeOpsItems](#) API action) can view and search on the specified data. Operational data that is not searchable is only viewable by users who have access to the OpsItem (as provided by the [GetOpsItem](#) API action).

Use the `/aws/resources` key in OperationalData to specify a related resource in the request. Use the `/aws/automations` key in OperationalData to associate an Automation runbook with the OpsItem. To view AWS CLI example commands that use these keys, see [Creating OpsItems manually](#) in the [AWS Systems Manager User Guide](#).

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

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

**Key Pattern:** ^(?<!\s)*

Required: No

**OpsItemId**

The ID of the OpsItem.

Type: String

Pattern: `^(?!-)[0-9a-f]{12}$`
**OpsItemType**

The type of OpsItem. Currently, the only valid values are `/aws/changerequest` and `/aws/issue`.

Type: String

Required: No

**PlannedEndTime**

The time specified in a change request for a runbook workflow to end. Currently supported only for the OpsItem type `/aws/changerequest`.

Type: Timestamp

Required: No

**PlannedStartTime**

The time specified in a change request for a runbook workflow to start. Currently supported only for the OpsItem type `/aws/changerequest`.

Type: Timestamp

Required: No

**Priority**

The importance of this OpsItem in relation to other OpsItems in the system.

Type: Integer


Required: No

**RelatedOpsItems**

One or more OpsItems that share something in common with the current OpsItem. For example, related OpsItems can include OpsItems with similar error messages, impacted resources, or statuses for the impacted resource.

Type: Array of RelatedOpsItem (p. 781) objects

Required: No

**Severity**

The severity of the OpsItem. Severity options range from 1 to 4.

Type: String

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

Pattern: `^[?!\s*$].+$`

Required: No

**Source**

The origin of the OpsItem, such as Amazon EC2 or Systems Manager. The impacted resource is a subset of source.

Type: String
Pattern: ^(?![\s$]*).+$
Required: No

Status
The OpsItem status. Status can be Open, In Progress, or Resolved. For more information, see Editing OpsItem details in the AWS Systems Manager User Guide.
Type: String
Valid Values: Open | InProgress | Resolved | Pending | TimedOut | Cancelling | Cancelled | Failed | CompletedWithSuccess | CompletedWithFailure | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | PendingApproval | Approved | Rejected

Required: No

Title
A short heading that describes the nature of the OpsItem and the impacted resource.
Type: String
Pattern: ^(?![\s$]*).+$
Required: No

Version
The version of this OpsItem. Each time the OpsItem is edited the version number increments by one.
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 V2
- AWS SDK for Ruby V3
OpsItemDataValue

An object that defines the value of the key and its type in the OperationalData map.

Contents

Type

The type of key-value pair. Valid types include SearchableString and String.

Type: String

Valid Values: SearchableString | String

Required: No

Value

The value of the OperationalData key.

Type: String

Pattern: [\s\S]*\S[\s\S]*

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 V2
- AWS SDK for Ruby V3
OpsItemEventFilter

Describes a filter for a specific list of OpsItem events. You can filter event information by using tags. You specify tags by using a key-value pair mapping.

Contents

Key

The name of the filter key. Currently, the only supported value is OpsItemId.

Type: String

Valid Values: OpsItemId

Required: Yes

Operator

The operator used by the filter call. Currently, the only supported value is Equal.

Type: String

Valid Values: Equal

Required: Yes

Values

The values for the filter, consisting of one or more OpsItem IDs.

Type: Array of strings


Pattern: ^{oi}-[0-9a-f]{12}$

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 V2
- AWS SDK for Ruby V3
OpsItemEventSummary

Summary information about an OpsItem event or that associated an OpsItem with a related item.

Contents

CreatedBy

Information about the user or resource that created the OpsItem event.

Type: OpsItemIdentity (p. 736) object

Required: No

CreatedTime

The date and time the OpsItem event was created.

Type: Timestamp

Required: No

Detail

Specific information about the OpsItem event.

Type: String

Required: No

DetailType

The type of information provided as a detail.

Type: String

Required: No

EventId

The ID of the OpsItem event.

Type: String

Required: No

OpsItemId

The ID of the OpsItem.

Type: String

Required: No

Source

The source of the OpsItem event.

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 V2
- AWS SDK for Ruby V3
OpsItemFilter

Describes an OpsItem filter.

Contents

Key

The name of the filter.

Type: String

Valid Values: Status | CreatedBy | Source | Priority | Title | OpsItemId
| CreatedTime | LastModifiedTime | ActualStartTime | ActualEndTime | PlannedStartTime | PlannedEndTime | OperationalData | OperationalDataKey
| OperationalDataValue | ResourceId | AutomationId | Category | Severity
| OpsItemType | ChangeRequestByRequesterArn | ChangeRequestByRequesterName
| ChangeRequestByApproverArn | ChangeRequestByApproverName | ChangeRequestByTemplate | ChangeRequestByTargetsResourceGroup

Required: Yes

Operator

The operator used by the filter call.

Type: String

Valid Values: Equal | Contains | GreaterThan | LessThan

Required: Yes

Values

The filter 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 V2
- AWS SDK for Ruby V3
OpsItemIdentity

Information about the user or resource that created an OpsItem event.

Contents

Arn

The Amazon Resource Name (ARN) of the IAM entity that created the OpsItem event.

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 V2
- AWS SDK for Ruby V3
OpsItemNotification

A notification about the OpsItem.

Contents

Arn

The Amazon Resource Name (ARN) of an SNS topic where notifications are sent when this OpsItem is edited or changed.

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 V2
- AWS SDK for Ruby V3
OpsItemRelatedItemsFilter

Describes a filter for a specific list of related-item resources.

Contents

Key

The name of the filter key. Supported values include ResourceUri, ResourceType, or AssociationId.

Type: String

Valid Values: ResourceType | AssociationId | ResourceUri

Required: Yes

Operator

The operator used by the filter call. The only supported operator is EQUAL.

Type: String

Valid Values: Equal

Required: Yes

Values

The values for the 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 V2
- AWS SDK for Ruby V3
OpsItemRelatedItemSummary

Summary information about related-item resources for an OpsItem.

Contents

AssociationId

The association ID.

Type: String

Required: No

AssociationType

The association type.

Type: String

Required: No

CreatedBy

Information about the user or resource that created an OpsItem event.

Type: OpsItemIdentity (p. 736) object

Required: No

CreatedTime

The time the related-item association was created.

Type: Timestamp

Required: No

LastModifiedBy

Information about the user or resource that created an OpsItem event.

Type: OpsItemIdentity (p. 736) object

Required: No

LastModifiedTime

The time the related-item association was last updated.

Type: Timestamp

Required: No

OpsItemId

The OpsItem ID.

Type: String

Pattern: ^(oi)-[0-9a-f]{12}$

Required: No
**ResourceType**

The resource type.

Type: String

Required: No

**ResourceUri**

The Amazon Resource Name (ARN) of the related-item resource.

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 V2
- AWS SDK for Ruby V3
OpsItemSummary

A count of OpsItems.

Contents

**ActualEndTime**

The time a runbook workflow ended. Currently reported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

**ActualStartTime**

The time a runbook workflow started. Currently reported only for the OpsItem type /aws/changerequest.

Type: Timestamp

Required: No

**Category**

A list of OpsItems by category.

Type: String

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

Pattern: ^(?![\s*$])\+.

Required: No

**CreatedBy**

The Amazon Resource Name (ARN) of the IAM entity that created the OpsItem.

Type: String

Required: No

**CreatedTime**

The date and time the OpsItem was created.

Type: Timestamp

Required: No

**LastModifiedBy**

The Amazon Resource Name (ARN) of the IAM entity that created the OpsItem.

Type: String

Required: No

**LastModifiedTime**

The date and time the OpsItem was last updated.
Type: Timestamp
Required: No

**OperationalData**
Operational data is custom data that provides useful reference details about the OpsItem.
Type: String to [OpsItemDataValue (p. 731)](p. 731) object map

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

Key Pattern: `^(?!\s*$).+`
Required: No

**OpsItemId**
The ID of the OpsItem.
Type: String
Pattern: `^(oi)-[0-9a-f]{12}$`
Required: No

**OpsItemType**
The type of OpsItem. Currently, the only valid values are `/aws/changerequest` and `/aws/issue`.
Type: String
Required: No

**PlannedEndTime**
The time specified in a change request for a runbook workflow to end. Currently supported only for the OpsItem type `/aws/changerequest`.
Type: Timestamp
Required: No

**PlannedStartTime**
The time specified in a change request for a runbook workflow to start. Currently supported only for the OpsItem type `/aws/changerequest`.
Type: Timestamp
Required: No

**Priority**
The importance of this OpsItem in relation to other OpsItems in the system.
Type: Integer
Required: No

**Severity**
A list of OpsItems by severity.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Pattern: ^(?![\s*$]).+
Required: No

**Source**

The impacted AWS resource.

Type: String

Pattern: ^(?![\s*$]).+
Required: No

**Status**

The OpsItem status. Status can be Open, In Progress, or Resolved.

Type: String

Valid Values: Open | InProgress | Resolved | Pending | TimedOut | Cancelling | Cancelled | Failed | CompletedWithSuccess | CompletedWithFailure | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | PendingApproval | Approved | Rejected

Required: No

**Title**

A short heading that describes the nature of the OpsItem and the impacted resource.

Type: String

Pattern: ^(?![\s*$]).+
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 V2
- AWS SDK for Ruby V3
OpsMetadata

Operational metadata for an application in Application Manager.

Contents

**CreationDate**

The date the OpsMetadata objects was created.

Type: Timestamp

Required: No

**LastModifiedDate**

The date the OpsMetadata object was last updated.

Type: Timestamp

Required: No

**LastModifiedUser**

The user name who last updated the OpsMetadata object.

Type: String

Required: No

**OpsMetadataArn**

The Amazon Resource Name (ARN) of the OpsMetadata Object or blob.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:ssm:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:opsmetadata\/(a-zA-Z0-9-\._/\)*`

Required: No

**ResourceId**

The ID of the Application Manager application.

Type: String


Pattern: `^\(?\s*$\)$.*`

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 V2
• AWS SDK for Ruby V3
OpsMetadataFilter

A filter to limit the number of OpsMetadata objects displayed.

**Contents**

**Key**

A filter key.

Type: String


Pattern: `^(?!\s*$).+`

Required: Yes

**Values**

A filter value.

Type: Array of strings

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


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 V2
- AWS SDK for Ruby V3
OpsResultAttribute

The OpsItem data type to return.

Contents

TypeName

Name of the data type. Valid value: AWS:OpsItem, AWS:EC2InstanceInformation, AWS:OpsItemTrendline, or AWS:ComplianceSummary.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: ^(AWS|Custom):.*$
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 V2
- AWS SDK for Ruby V3
OutputSource

Information about the source where the association execution details are stored.

Contents

OutputSourceId

The ID of the output source, for example the URL of an S3 bucket.

Type: String
Length Constraints: Fixed length of 36.
Required: No

OutputSourceType

The type of source where the association execution details are stored, for example, Amazon S3.

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 V2
- AWS SDK for Ruby V3
Parameter

An Systems Manager parameter in Parameter Store.

Contents

**ARN**

The Amazon Resource Name (ARN) of the parameter.

Type: String

Required: No

**DataType**

The data type of the parameter, such as text or aws:ec2:image. The default is text.

Type: String

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

Required: No

**LastModifiedDate**

Date the parameter was last changed or updated and the parameter version was created.

Type: Timestamp

Required: No

**Name**

The name of the parameter.

Type: String

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

Required: No

**Selector**

Either the version number or the label used to retrieve the parameter value. Specify selectors by using one of the following formats:

- `parameter_name:version`
- `parameter_name:label`

Type: String

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

Required: No

**SourceResult**

Applies to parameters that reference information in other AWS services. SourceResult is the raw result or response from the source.

Type: String
Required: No

**Type**

The type of parameter. Valid values include the following: `String`, `StringList`, and `SecureString`.

Type: String

Valid Values: `String` | `StringList` | `SecureString`

Required: No

**Value**

The parameter value.

Type: String

Required: No

**Version**

The parameter version.

Type: Long

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 V2
- AWS SDK for Ruby V3
ParameterHistory

Information about parameter usage.

Contents

AllowedPattern

Parameter names can include the following letters and symbols.

a-zA-Z0-9_-

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

DataType

The data type of the parameter, such as text or aws:ec2:image. The default is text.

Type: String

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

Required: No

Description

Information about the parameter.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

KeyId

The ID of the query key used for this parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([a-zA-Z0-9:_-]+)$

Required: No

Labels

Labels assigned to the parameter version.

Type: Array of strings

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

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

Required: No
LastModifiedDate
Date the parameter was last changed or updated.
Type: Timestamp
Required: No

LastModifiedUser
Amazon Resource Name (ARN) of the AWS user who last changed the parameter.
Type: String
Required: No

Name
The name of the parameter.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 2048.
Required: No

Policies
Information about the policies assigned to a parameter.
Assigning parameter policies in the AWS Systems Manager User Guide.
Type: Array of ParameterInlinePolicy (p. 754) objects
Required: No

Tier
The parameter tier.
Type: String
Valid Values: Standard | Advanced | Intelligent-Tiering
Required: No

Type
The type of parameter used.
Type: String
Valid Values: String | StringList | SecureString
Required: No

Value
The parameter value.
Type: String
Required: No

Version
The parameter version.
Type: Long
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 V2
- AWS SDK for Ruby V3
ParameterInlinePolicy

One or more policies assigned to a parameter.

Contents

PolicyStatus

The status of the policy. Policies report the following statuses: Pending (the policy has not been enforced or applied yet), Finished (the policy was applied), Failed (the policy was not applied), or InProgress (the policy is being applied now).

Type: String
Required: No

PolicyText

The JSON text of the policy.

Type: String
Required: No

PolicyType

The type of policy. Parameter Store supports the following policy types: Expiration, ExpirationNotification, and NoChangeNotification.

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 V2
- AWS SDK for Ruby V3
ParameterMetadata

Metadata includes information like the ARN of the last user and the date/time the parameter was last used.

Contents

AllowedPattern

A parameter name can include only the following letters and symbols.

a-zA-Z0-9_.-

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

DataType

The data type of the parameter, such as text or aws:ec2:image. The default is text.

Type: String

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

Required: No

Description

Description of the parameter actions.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

KeyId

The ID of the query key used for this parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([a-zA-Z0-9:/_\-]+)$

Required: No

LastModifiedDate

Date the parameter was last changed or updated.

Type: Timestamp

Required: No

LastModifiedUser

Amazon Resource Name (ARN) of the AWS user who last changed the parameter.

Type: String
Required: No

Name

The parameter name.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 2048.
Required: No

Policies

A list of policies associated with a parameter.
Type: Array of ParameterInlinePolicy (p. 754) objects
Required: No

Tier

The parameter tier.
Type: String
Valid Values: Standard | Advanced | Intelligent-Tiering
Required: No

Type

The type of parameter. Valid parameter types include the following: String, StringList, and SecureString.
Type: String
Valid Values: String | StringList | SecureString
Required: No

Version

The parameter version.
Type: Long
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 V2
- AWS SDK for Ruby V3
ParametersFilter

This data type is deprecated. Instead, use ParameterStringFilter (p. 758).

Contents

Key

The name of the filter.
Type: String
Valid Values: Name | Type | KeyId
Required: Yes

Values

The filter values.
Type: Array of strings
Array Members: Minimum number of 1 item. Maximum number of 50 items.
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 V2
- AWS SDK for Ruby V3
ParameterStringFilter

One or more filters. Use a filter to return a more specific list of results.

Contents

Key

The name of the filter.

**Note**
The `ParameterStringFilter` object is used by the `DescribeParameters (p. 212)` and `GetParametersByPath (p. 323)` API actions. However, not all of the pattern values listed for Key can be used with both actions.
For `DescribeActions`, all of the listed patterns are valid, with the exception of `Label`.
For `GetParametersByPath`, the following patterns listed for `Key` are not valid: `tag`, `Name`, `Path`, and `Tier`.
For examples of CLI commands demonstrating valid parameter filter constructions, see Searching for Systems Manager parameters in the AWS Systems Manager User Guide.

Type: String


Pattern: `tag:.+|Name|Type|KeyId|Path|Label|Tier|DataType`

Required: Yes

Option

For all filters used with `DescribeParameters (p. 212)`, valid options include `Equals` and `BeginsWith`. The `Name` filter additionally supports the `Contains` option. (Exception: For filters using the key `Path`, valid options include `Recursive` and `OneLevel`.)

For filters used with `GetParametersByPath (p. 323)`, valid options include `Equals` and `BeginsWith`. (Exception: For filters using `Label` as the Key name, the only valid option is `Equals`.)

Type: String


Required: No

Values

The value you want to search for.

Type: Array of strings

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


Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
Patch

Represents metadata about a patch.

Contents

AdvisoryIds

The Advisory ID of the patch. For example, RHSA-2020:3779. Applies to Linux-based instances only.

Type: Array of strings

Required: No

Arch

The architecture of the patch. For example, in example-pkg-0.710.10-2.7.abcd.x86_64, the architecture is indicated by x86_64. Applies to Linux-based instances only.

Type: String

Required: No

BugzillaIds

The Bugzilla ID of the patch. For example, 1600646. Applies to Linux-based instances only.

Type: Array of strings

Required: No

Classification

The classification of the patch. For example, SecurityUpdates, Updates, or CriticalUpdates.

Type: String

Required: No

ContentUrl

The URL where more information can be obtained about the patch.

Type: String

Required: No

CVEIds

The Common Vulnerabilities and Exposures (CVE) ID of the patch. For example, CVE-2011-3192. Applies to Linux-based instances only.

Type: Array of strings

Required: No

Description

The description of the patch.

Type: String

Required: No
Epoch

The epoch of the patch. For example in pkg-example-EE-20180914-2.2.amzn1.noarch, the epoch value is 20180914–2. Applies to Linux-based instances only.

Type: Integer
Required: No

Id

The ID of the patch. Applies to Windows patches only.

**Note**
This ID is not the same as the Microsoft Knowledge Base ID.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

KbNumber

The Microsoft Knowledge Base ID of the patch. Applies to Windows patches only.

Type: String
Required: No

Language

The language of the patch if it's language-specific.

Type: String
Required: No

MsrcNumber

The ID of the Microsoft Security Response Center (MSRC) bulletin the patch is related to. For example, MS14–045. Applies to Windows patches only.

Type: String
Required: No

MsrcSeverity

The severity of the patch, such as Critical, Important, or Moderate. Applies to Windows patches only.

Type: String
Required: No

Name

The name of the patch. Applies to Linux-based instances only.

Type: String
Required: No

Product

The specific product the patch is applicable for. For example, WindowsServer2016 or AmazonLinux2018.03.
Type: String
Required: No

**ProductFamily**

The product family the patch is applicable for. For example, Windows or Amazon Linux 2.

Type: String
Required: No

**Release**

The particular release of a patch. For example, in `pkg-example-EE-20180914-2.2.amzn1.noarch`, the release is `2.amzn1`. Applies to Linux-based instances only.

Type: String
Required: No

**ReleaseDate**

The date the patch was released.

Type: Timestamp
Required: No

**Repository**

The source patch repository for the operating system and version, such as `trusty-security` for Ubuntu Server 14.04 LTE and `focal-security` for Ubuntu Server 20.04 LTE. Applies to Linux-based instances only.

Type: String
Required: No

**Severity**

The severity level of the patch. For example, CRITICAL or MODERATE.

Type: String
Required: No

**Title**

The title of the patch.

Type: String
Required: No

**Vendor**

The name of the vendor providing the patch.

Type: String
Required: No

**Version**

The version number of the patch. For example, in `example-pkg-1.710.10-2.7.abcd.x86_64`, the version number is indicated by `-1`. Applies to Linux-based instances only.
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 V2
- AWS SDK for Ruby V3
PatchBaselineIdentity

Defines the basic information about a patch baseline.

Contents

BaselineDescription
The description of the patch baseline.
Type: String
Required: No

BaselineId
The ID of the patch baseline.
Type: String
Pattern: ^[a-zA-Z0-9_\-:/]{20,128}$
Required: No

BaselineName
The name of the patch baseline.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]\{(3,128)\}$
Required: No

DefaultBaseline
Whether this is the default baseline. Note that Systems Manager supports creating multiple default patch baselines. For example, you can create a default patch baseline for each operating system.
Type: Boolean
Required: No

OperatingSystem
Defines the operating system the patch baseline applies to. The Default value is WINDOWS.
Type: String
Valid Values: WINDOWS | AMAZON_LINUX | AMAZON_LINUX_2 | UBUNTU | REDHAT_ENTERPRISE_LINUX | SUSE | CENTOS | ORACLE_LINUX | DEBIAN | MACOS
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 V2
• AWS SDK for Ruby V3
PatchComplianceData

Information about the state of a patch on a particular instance as it relates to the patch baseline used to patch the instance.

Contents

Classification

The classification of the patch (for example, SecurityUpdates, Updates, CriticalUpdates).

Type: String

Required: Yes

CVEIds

The IDs of one or more Common Vulnerabilities and Exposure (CVE) issues that are resolved by the patch.

Type: String

Required: No

InstalledTime

The date/time the patch was installed on the instance. Note that not all operating systems provide this level of information.

Type: Timestamp

Required: Yes

KBId

The operating system-specific ID of the patch.

Type: String

Required: Yes

Severity

The severity of the patch (for example, Critical, Important, Moderate).

Type: String

Required: Yes

State

The state of the patch on the instance, such as INSTALLED or FAILED.

For descriptions of each patch state, see About patch compliance in the AWS Systems Manager User Guide.

Type: String

Valid Values: INSTALLED | INSTALLED_OTHER | INSTALLED_PENDING_REBOOT | INSTALLED_REJECTED | MISSING | NOT_APPLICABLE | FAILED

Required: Yes
Title

The title of the patch.

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 V2
- AWS SDK for Ruby V3
PatchFilter

Defines which patches should be included in a patch baseline.

A patch filter consists of a key and a set of values. The filter key is a patch property. For example, the available filter keys for WINDOWS are PATCH_SET, PRODUCT, PRODUCT_FAMILY, CLASSIFICATION, and MSRC_SEVERITY. The filter values define a matching criterion for the patch property indicated by the key. For example, if the filter key is PRODUCT and the filter values are "Office 2013" or "Office 2016", then the filter accepts all patches where product name is either "Office 2013" or "Office 2016". The filter values can be exact values for the patch property given as a key, or a wildcard (*), which matches all values.

You can view lists of valid values for the patch properties by running the DescribePatchProperties command. For information about which patch properties can be used with each major operating system, see DescribePatchProperties (p. 229).

Contents

Key

The key for the filter.

Run the DescribePatchProperties (p. 229) command to view lists of valid keys for each operating system type.

Type: String

Valid Values: ARCH | ADVISORY_ID | BUGZILLA_ID | PATCH_SET | PRODUCT | PRODUCT_FAMILY | CLASSIFICATION | CVE_ID | EPOCH | MSRC_SEVERITY | NAME | PATCH_ID | SECTION | PRIORITY | REPOSITORY | RELEASE | SEVERITY | SECURITY | VERSION

Required: Yes

Values

The value for the filter key.

Run the DescribePatchProperties (p. 229) command to view lists of valid values for each key based on operating system type.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

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

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 V2
- AWS SDK for Ruby V3

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PatchFilterGroup

A set of patch filters, typically used for approval rules.

Contents

PatchFilters

The set of patch filters that make up the group.

Type: Array of PatchFilter (p. 768) objects

Array Members: Minimum number of 0 items. Maximum number of 4 items.

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 V2
- AWS SDK for Ruby V3
PatchGroupPatchBaselineMapping

The mapping between a patch group and the patch baseline the patch group is registered with.

Contents

BaselineIdentity

The patch baseline the patch group is registered with.

Type: PatchBaselineIdentity (p. 764) object

Required: No

PatchGroup

The name of the patch group registered with the patch baseline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$

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 V2
- AWS SDK for Ruby V3
PatchOrchestratorFilter

Defines a filter used in Patch Manager APIs.

Contents

Key

The key for the filter.
Type: String
Required: No

Values

The value for the filter.
Type: Array of strings
Length Constraints: Minimum length of 1. Maximum length of 256.
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 V2
- AWS SDK for Ruby V3
PatchRule

Defines an approval rule for a patch baseline.

Contents

ApproveAfterDays

The number of days after the release date of each patch matched by the rule that the patch is marked as approved in the patch baseline. For example, a value of 7 means that patches are approved seven days after they are released. Not supported on Debian Server or Ubuntu Server.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 360.

Required: No

ApproveUntilDate

The cutoff date for auto approval of released patches. Any patches released on or before this date are installed automatically. Not supported on Debian Server or Ubuntu Server.

Enter dates in the format YYYY-MM-DD. For example, 2020-12-31.

Type: String


Required: No

ComplianceLevel

A compliance severity level for all approved patches in a patch baseline.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

EnableNonSecurity

For instances identified by the approval rule filters, enables a patch baseline to apply non-security updates available in the specified repository. The default value is 'false'. Applies to Linux instances only.

Type: Boolean

Required: No

PatchFilterGroup

The patch filter group that defines the criteria for the rule.

Type: PatchFilterGroup (p. 770) object

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 V2
• AWS SDK for Ruby V3
PatchRuleGroup

A set of rules defining the approval rules for a patch baseline.

Contents

PatchRules

The rules that make up the rule group.

Type: Array of PatchRule (p. 773) objects

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

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 V2
- AWS SDK for Ruby V3
PatchSource

Information about the patches to use to update the instances, including target operating systems and source repository. Applies to Linux instances only.

Contents

Configuration

The value of the yum repo configuration. For example:

```
[main]
name=MyCustomRepository
baseurl=https://my-custom-repository
enabled=1
```

**Note**

For information about other options available for your yum repository configuration, see dnf.conf(5).

Type: String


Required: Yes

Name

The name specified to identify the patch source.

Type: String

Pattern: ^[a-zA-Z0-9_\-\.]{3,50}$

Required: Yes

Products

The specific operating system versions a patch repository applies to, such as "Ubuntu16.04", "AmazonLinux2016.09", "RedhatEnterpriseLinux7.2" or "Suse12.7". For lists of supported product values, see PatchFilter (p. 768).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.


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
See Also

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

Information about the approval status of a patch.

Contents

ApprovalDate

The date the patch was approved (or will be approved if the status is PENDING_APPROVAL).

Type: Timestamp

Required: No

ComplianceLevel

The compliance severity level for a patch.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

DeploymentStatus

The approval status of a patch (APPROVED, PENDING_APPROVAL, EXPLICIT_APPROVED, EXPLICIT_REJECTED).

Type: String

Valid Values: APPROVED | PENDING_APPROVAL | EXPLICIT_APPROVED | EXPLICIT_REJECTED

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 V2
- AWS SDK for Ruby V3
ProgressCounters

An aggregate of step execution statuses displayed in the AWS Console for a multi-Region and multi-account Automation execution.

Contents

CancelledSteps

The total number of steps that the system cancelled in all specified AWS Regions and accounts for the current Automation execution.

Type: Integer
Required: No

FailedSteps

The total number of steps that failed to run in all specified AWS Regions and accounts for the current Automation execution.

Type: Integer
Required: No

SuccessSteps

The total number of steps that successfully completed in all specified AWS Regions and accounts for the current Automation execution.

Type: Integer
Required: No

TimedOutSteps

The total number of steps that timed out in all specified AWS Regions and accounts for the current Automation execution.

Type: Integer
Required: No

TotalSteps

The total number of steps run in all specified AWS Regions and accounts for the current Automation execution.

Type: Integer
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for Ruby V3
RelatedOpsItem

An OpsItem that shares something in common with the current OpsItem. For example, related OpsItems can include OpsItems with similar error messages, impacted resources, or statuses for the impacted resource.

Contents

OpsItemId

The ID of an OpsItem related to the current OpsItem.

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 V2
- AWS SDK for Ruby V3
ResolvedTargets

Information about targets that resolved during the Automation execution.

Contents

ParameterValues

A list of parameter values sent to targets that resolved during the Automation execution.

Type: Array of strings

Required: No

Truncated

A boolean value indicating whether the resolved target list is truncated.

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 V2
- AWS SDK for Ruby V3
ResourceComplianceSummaryItem

Compliance summary information for a specific resource.

Contents

ComplianceType

The compliance type.

Type: String

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

Pattern: [A-Za-z0-9_-]+|Custom:[a-zA-Z0-9_-]+\w+

Required: No

CompliantSummary

A list of items that are compliant for the resource.

Type: CompliantSummary (p. 629) object

Required: No

ExecutionSummary

Information about the execution.

Type: ComplianceExecutionSummary (p. 622) object

Required: No

NonCompliantSummary

A list of items that aren't compliant for the resource.

Type: NonCompliantSummary (p. 720) object

Required: No

OverallSeverity

The highest severity item found for the resource. The resource is compliant for this item.

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW | INFORMATIONAL | UNSPECIFIED

Required: No

ResourceId

The resource ID.

Type: String

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

Required: No

ResourceType

The resource type.
Type: String
Required: No

**Status**
The compliance status for the resource.
Type: String
Valid Values: COMPLIANT | NON_COMPLIANT
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 V2
- AWS SDK for Ruby V3
ResourceDataSyncAwsOrganizationsSource

Information about the AwsOrganizationsSource resource data sync source. A sync source of this type can synchronize data from AWS Organizations or, if an AWS Organization is not present, from multiple AWS Regions.

Contents

OrganizationalUnits

The AWS Organizations organization units included in the sync.

Type: Array of ResourceDataSyncOrganizationalUnit (p. 789) objects

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

OrganizationSourceType

If an AWS Organization is present, this is either OrganizationalUnits or EntireOrganization. For OrganizationalUnits, the data is aggregated from a set of organization units. For EntireOrganization, the data is aggregated from the entire AWS Organization.

Type: String

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

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 V2
- AWS SDK for Ruby V3
ResourceDataSyncDestinationDataSharing

Synchronize Systems Manager Inventory data from multiple AWS accounts defined in AWS Organizations to a centralized S3 bucket. Data is synchronized to individual key prefixes in the central bucket. Each key prefix represents a different AWS account ID.

Contents

DestinationDataSharingType

The sharing data type. Only Organization is supported.

Type: String

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

Required: No

See Also

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

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

Information about a Resource Data Sync configuration, including its current status and last successful sync.

Contents

**LastStatus**

The status reported by the last sync.

Type: String

Valid Values: Successful | Failed | InProgress

Required: No

**LastSuccessfulSyncTime**

The last time the sync operations returned a status of SUCCESSFUL (UTC).

Type: Timestamp

Required: No

**LastSyncStatusMessage**

The status message details reported by the last sync.

Type: String

Required: No

**LastSyncTime**

The last time the configuration attempted to sync (UTC).

Type: Timestamp

Required: No

**S3Destination**

Configuration information for the target S3 bucket.

Type: ResourceDataSyncS3Destination (p. 790) object

Required: No

**SyncCreatedTime**

The date and time the configuration was created (UTC).

Type: Timestamp

Required: No

**SyncLastModifiedTime**

The date and time the resource data sync was changed.

Type: Timestamp

Required: No
SyncName

The name of the Resource Data Sync.

Type: String

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

Required: No

SyncSource

Information about the source where the data was synchronized.

Type: ResourceDataSyncSourceWithState (p. 794) object

Required: No

SyncType

The type of resource data sync. If SyncType is SyncToDestination, then the resource data sync synchronizes data to an S3 bucket. If the SyncType is SyncFromSource then the resource data sync synchronizes data from AWS Organizations or from multiple AWS Regions.

Type: String

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

Required: No

See Also

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

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

The AWS Organizations organizational unit data source for the sync.

Contents

OrganizationalUnitId

The AWS Organization unit ID data source for the sync.

Type: String


Pattern: ^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$

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 V2
- AWS SDK for Ruby V3
ResourceDataSyncS3Destination

Information about the target S3 bucket for the Resource Data Sync.

Contents

AWSKMSKeyARN

The ARN of an encryption key for a destination in Amazon S3. Must belong to the same Region as the destination S3 bucket.

Type: String


Pattern: arn:.*

Required: No

BucketName

The name of the S3 bucket where the aggregated data is stored.

Type: String

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

Required: Yes

DestinationDataSharing

Enables destination data sharing. By default, this field is null.

Type: ResourceDataSyncDestinationDataSharing (p. 786) object

Required: No

Prefix

An Amazon S3 prefix for the bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Region

The AWS Region with the S3 bucket targeted by the Resource Data Sync.

Type: String

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

Required: Yes

SyncFormat

A supported sync format. The following format is currently supported: JsonSerDe

Type: String

Valid Values: JsonSerDe
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 V2
- AWS SDK for Ruby V3
ResourceDataSyncSource

Information about the source of the data included in the resource data sync.

Contents

AwsOrganizationsSource

Information about the AwsOrganizationsSource resource data sync source. A sync source of this type can synchronize data from AWS Organizations.

Type: ResourceDataSyncAwsOrganizationsSource (p. 785) object

Required: No

EnableAllOpsDataSources

When you create a resource data sync, if you choose one of the AWS Organizations options, then Systems Manager automatically enables all OpsData sources in the selected AWS Regions for all AWS accounts in your organization (or in the selected organization units). For more information, see About multiple account and Region resource data syncs in the AWS Systems Manager User Guide.

Type: Boolean

Required: No

IncludeFutureRegions

Whether to automatically synchronize and aggregate data from new AWS Regions when those Regions come online.

Type: Boolean

Required: No

SourceRegions

The SyncSource AWS Regions included in the resource data sync.

Type: Array of strings

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

Required: Yes

SourceType

The type of data source for the resource data sync. SourceType is either AwsOrganizations (if an organization is present in AWS Organizations) or SingleAccountMultiRegions.

Type: String

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

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 V2
• AWS SDK for Ruby V3
ResourceDataSyncSourceWithState

The data type name for including resource data sync state. There are four sync states:

- **OrganizationNotExists** (Your organization doesn't exist)
- **NoPermissions** (The system can't locate the service-linked role. This role is automatically created when a user creates a resource data sync in Explorer.)
- **InvalidOrganizationalUnit** (You specified or selected an invalid unit in the resource data sync configuration.)
- **TrustedAccessDisabled** (You disabled Systems Manager access in the organization in AWS Organizations.)

**Contents**

**AwsOrganizationsSource**

The field name in SyncSource for the ResourceDataSyncAwsOrganizationsSource type.

Type: ResourceDataSyncAwsOrganizationsSource (p. 785) object

Required: No

**EnableAllOpsDataSources**

When you create a resource data sync, if you choose one of the AWS Organizations options, then Systems Manager automatically enables all OpsData sources in the selected AWS Regions for all AWS accounts in your organization (or in the selected organization units). For more information, see About multiple account and Region resource data syncs in the AWS Systems Manager User Guide.

Type: Boolean

Required: No

**IncludeFutureRegions**

Whether to automatically synchronize and aggregate data from new AWS Regions when those Regions come online.

Type: Boolean

Required: No

**SourceRegions**

The SyncSource AWS Regions included in the resource data sync.

Type: Array of strings

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

Required: No

**SourceType**

The type of data source for the resource data sync. **SourceType** is either **AwsOrganizations** (if an organization is present in AWS Organizations) or **singleAccountMultiRegions**.

Type: String
State

The data type name for including resource data sync state. There are four sync states:

OrganizationNotExists: Your organization doesn't exist.

NoPermissions: The system can't locate the service-linked role. This role is automatically created when a user creates a resource data sync in Explorer.

InvalidOrganizationalUnit: You specified or selected an invalid unit in the resource data sync configuration.

TrustedAccessDisabled: You disabled Systems Manager access in the organization in AWS Organizations.

Type: String

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

Required: No

See Also

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

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

The inventory item result attribute.

Contents

TypeName

Name of the inventory item type. Valid value: AWS:InstanceInformation. Default Value: AWS:InstanceInformation.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: ^AWS|Custom):.*$
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 V2
- AWS SDK for Ruby V3
ReviewInformation

Information about the result of a document review request.

Contents

**ReviewedTime**

The time that the reviewer took action on the document review request.

Type: Timestamp

Required: No

**Reviewer**

The reviewer assigned to take action on the document review request.

Type: String

Length Constraints: Maximum length of 50.

Pattern: ^[a-zA-Z0-9_\-\.]{1,128}$

Required: No

**Status**

The current status of the document review request.

Type: String

Valid Values: APPROVED | NOT_REVIEWED | PENDING | REJECTED

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 V2
- AWS SDK for Ruby V3
Runbook

Information about an Automation runbook (Automation document) used in a runbook workflow in Change Manager.

**Note**

The Automation runbooks specified for the runbook workflow can't run until all required approvals for the change request have been received.

### Contents

**DocumentName**

The name of the Automation runbook (Automation document) used in a runbook workflow.

- **Type:** String
- **Pattern:** `^[a-zA-Z0-9_\-./]{3,128}$`
- **Required:** Yes

**DocumentVersion**

The version of the Automation runbook (Automation document) used in a runbook workflow.

- **Type:** String
- **Pattern:** `([$\]LATEST|[$\]DEFAULT|^[1-9]\[0-9]*$)`
- **Required:** No

**MaxConcurrency**

The `MaxConcurrency` value specified by the user when the operation started, indicating the maximum number of resources that the runbook operation can run on at the same time.

- **Type:** String
- **Length Constraints:** Minimum length of 1. Maximum length of 7.
- **Pattern:** `^([1-9][0-9]*|[0]|\[1-9][0-9]\%|\[1-9]\%|100\%)$`
- **Required:** No

**MaxErrors**

The `MaxErrors` value specified by the user when the execution started, indicating the maximum number of errors that can occur during the operation before the updates are stopped or rolled back.

- **Type:** String
- **Length Constraints:** Minimum length of 1. Maximum length of 7.
- **Pattern:** `^([1-9][0-9]*|[0]|\[1-9][0-9]\%|\[1-9]\%|0-9\%|100\%)$`
- **Required:** No

**Parameters**

The key-value map of execution parameters, which were supplied when calling `StartChangeRequestExecution`.

- **Type:** String to array of strings map
Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

**TargetLocations**

Information about the AWS Regions and accounts targeted by the current Runbook operation.

Type: Array of TargetLocation (p. 819) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

**TargetParameterName**

The name of the parameter used as the target resource for the rate-controlled runbook workflow. Required if you specify Targets.

Type: String


Required: No

**Targets**

A key-value mapping to target resources that the Runbook operation performs tasks on. Required if you specify TargetParameterName.

Type: Array of Target (p. 817) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
S3OutputLocation

An S3 bucket where you want to store the results of this request.

Contents

OutputS3BucketName

The name of the S3 bucket.

Type: String


Required: No

OutputS3KeyPrefix

The S3 bucket subfolder.

Type: String

Length Constraints: Maximum length of 500.

Required: No

OutputS3Region

(Deprecated) You can no longer specify this parameter. The system ignores it. Instead, Systems Manager automatically determines the Region of the S3 bucket.

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 V2
- AWS SDK for Ruby V3
S3OutputUrl

A URL for the S3 bucket where you want to store the results of this request.

Contents

OutputUrl

A URL for an S3 bucket where you want to store the results of this request.

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 V2
- AWS SDK for Ruby V3
ScheduledWindowExecution

Information about a scheduled execution for a maintenance window.

Contents

**ExecutionTime**

The time, in ISO-8601 Extended format, that the maintenance window is scheduled to be run.

Type: String

Required: No

**Name**

The name of the maintenance window to be run.

Type: String


Pattern: \^[\a-zA-Z0-9_\-\.]\{3,128\}$

Required: No

**WindowId**

The ID of the maintenance window to be run.

Type: String


Pattern: ^mw-[0-9a-f]{17}$

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 V2
- AWS SDK for Ruby V3
ServiceSetting

The service setting data structure.

ServiceSetting is an account-level setting for an AWS service. This setting defines how a user interacts with or uses a service or a feature of a service. For example, if an AWS service charges money to the account based on feature or service usage, then the AWS service team might create a default setting of "false". This means the user can't use this feature unless they change the setting to "true" and intentionally opt in for a paid feature.

Services map a SettingId object to a setting value. AWS services teams define the default value for a SettingId. You can't create a new SettingId, but you can overwrite the default value if you have the ssm:UpdateServiceSetting permission for the setting. Use the UpdateServiceSetting (p. 558) API action to change the default setting. Or, use the ResetServiceSetting (p. 447) to change the value back to the original value defined by the AWS service team.

Contents

ARN

The ARN of the service setting.
Type: String
Required: No

LastModifiedDate

The last time the service setting was modified.
Type: Timestamp
Required: No

LastModifiedUser

The ARN of the last modified user. This field is populated only if the setting value was overwritten.
Type: String
Required: No

SettingId

The ID of the service setting.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 1000.
Required: No

SettingValue

The value of the service setting.
Type: String
Required: No
Status

The status of the service setting. The value can be Default, Customized or PendingUpdate.
- Default: The current setting uses a default value provisioned by the AWS service team.
- Customized: The current setting use a custom value specified by the customer.
- PendingUpdate: The current setting uses a default or custom value, but a setting change request is pending approval.

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 V2
- AWS SDK for Ruby V3
Session

Information about a Session Manager connection to an instance.

Contents

Details

Reserved for future use.
Type: String
Required: No

DocumentName

The name of the Session Manager SSM document used to define the parameters and plugin settings for the session. For example, SSM-SessionManagerRunShell.
Type: String
Pattern: ^[a-zA-Z0-9_\-\.]{3,128}$
Required: No

EndDate

The date and time, in ISO-8601 Extended format, when the session was terminated.
Type: Timestamp
Required: No

OutputUrl

Reserved for future use.
Type: SessionManagerOutputUrl (p. 808) object
Required: No

Owner

The ID of the AWS user account that started the session.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Required: No

SessionId

The ID of the session.
Type: String
Required: No
**StartDate**

The date and time, in ISO-8601 Extended format, when the session began.

Type: Timestamp

Required: No

**Status**

The status of the session. For example, "Connected" or "Terminated".

Type: String

Valid Values: Connected | Connecting | Disconnected | Terminated | Terminating | Failed

Required: No

**Target**

The instance that the Session Manager session connected to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 400.

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 V2
- AWS SDK for Ruby V3
SessionFilter

Describes a filter for Session Manager information.

Contents

key

The name of the filter.

Type: String

Valid Values: InvokedAfter | InvokedBefore | Target | Owner | Status | SessionId

Required: Yes

value

The filter value. Valid values for each filter key are as follows:

• InvokedAfter: Specify a timestamp to limit your results. For example, specify 2018-08-29T00:00:00Z to see sessions that started August 29, 2018, and later.
• InvokedBefore: Specify a timestamp to limit your results. For example, specify 2018-08-29T00:00:00Z to see sessions that started before August 29, 2018.
• Target: Specify an instance to which session connections have been made.
• Owner: Specify an AWS user account to see a list of sessions started by that user.
• Status: Specify a valid session status to see a list of all sessions with that status. Status values you can specify include:
  • Connected
  • Connecting
  • Disconnected
  • Terminated
  • Terminating
  • Failed
• SessionId: Specify a session ID to return details about the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 400.

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 V2
• AWS SDK for Ruby V3
SessionManagerOutputUrl

Reserved for future use.

Contents

CloudWatchOutputUrl

Reserved for future use.

Type: String


Required: No

S3OutputUrl

Reserved for future use.

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 V2
- AWS SDK for Ruby V3
SeveritySummary

The number of managed instances found for each patch severity level defined in the request filter.

Contents

CriticalCount

The total number of resources or compliance items that have a severity level of critical. Critical severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

HighCount

The total number of resources or compliance items that have a severity level of high. High severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

InformationalCount

The total number of resources or compliance items that have a severity level of informational. Informational severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

LowCount

The total number of resources or compliance items that have a severity level of low. Low severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

MediumCount

The total number of resources or compliance items that have a severity level of medium. Medium severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

UnspecifiedCount

The total number of resources or compliance items that have a severity level of unspecified. Unspecified severity is determined by the organization that published the compliance items.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
StepExecution

Detailed information about the execution state of an Automation step.

Contents

Action

The action this step performs. The action determines the behavior of the step.

Type: String

Pattern: ^aws:[a-zA-Z]{3,25}$

Required: No

ExecutionEndTime

If a step has finished execution, this contains the time the execution ended. If the step has not yet concluded, this field is not populated.

Type: Timestamp

Required: No

ExecutionStartTime

If a step has begun execution, this contains the time the step started. If the step is in Pending status, this field is not populated.

Type: Timestamp

Required: No

FailureDetails

Information about the Automation failure.

Type: FailureDetails (p. 658) object

Required: No

FailureMessage

If a step failed, this message explains why the execution failed.

Type: String

Required: No

Inputs

Fully-resolved values passed into the step before execution.

Type: String to string map

Required: No

IsCritical

The flag which can be used to help decide whether the failure of current step leads to the Automation failure.

Type: Boolean
Required: No

**IsEnd**

The flag which can be used to end automation no matter whether the step succeeds or fails.

Type: Boolean

Required: No

**MaxAttempts**

The maximum number of tries to run the action of the step. The default value is 1.

Type: Integer

Required: No

**NextStep**

The next step after the step succeeds.

Type: String

Required: No

**OnFailure**

The action to take if the step fails. The default value is Abort.

Type: String

Required: No

**Outputs**

Returned values from the execution of the step.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No

**OverriddenParameters**

A user-specified list of parameters to override when running a step.

Type: String to array of strings map

Map Entries: Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Array Members: Minimum number of 0 items. Maximum number of 50 items.


Required: No
Response
A message associated with the response code for an execution.

Type: String
Required: No

ResponseCode
The response code returned by the execution of the step.

Type: String
Required: No

StepExecutionId
The unique ID of a step execution.

Type: String
Required: No

StepName
The name of this execution step.

Type: String
Required: No

StepStatus
The execution status for this step.

Type: String
Valid Values: Pending | InProgress | Waiting | Success | TimedOut | Cancelling | Cancelled | Failed | PendingApproval | Approved | Rejected | Scheduled | RunbookInProgress | PendingChangeCalendarOverride | ChangeCalendarOverrideApproved | ChangeCalendarOverrideRejected | CompletedWithSuccess | CompletedWithFailure

Required: No

TargetLocation
The combination of AWS Regions and accounts targeted by the current Automation execution.

Type: TargetLocation (p. 819) object
Required: No

Targets
The targets for the step execution.

Type: Array of Target (p. 817) objects
Array Members: Minimum number of 0 items. Maximum number of 5 items.
Required: No

TimeoutSeconds
The timeout seconds of the step.
Type: Long

Required: No

ValidNextSteps

Strategies used when step fails, we support Continue and Abort. Abort will fail the automation when the step fails. Continue will ignore the failure of current step and allow automation to run the next step. With conditional branching, we add step:stepName to support the automation to go to another specific step.

Type: Array of strings


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 V2
- AWS SDK for Ruby V3
StepExecutionFilter

A filter to limit the amount of step execution information returned by the call.

Contents

Key

One or more keys to limit the results. Valid filter keys include the following: StepName, Action, StepExecutionId, StepExecutionStatus, StartTimeBefore, StartTimeAfter.

Type: String

Valid Values: StartTimeBefore | StartTimeAfter | StepExecutionStatus | StepExecutionId | StepName | Action

Required: Yes

Values

The values of the filter key.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

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 V2
- AWS SDK for Ruby V3
Tag

Metadata that you assign to your AWS resources. Tags enable you to categorize your resources in different ways, for example, by purpose, owner, or environment. In Systems Manager, you can apply tags to documents, managed instances, maintenance windows, Parameter Store parameters, and patch baselines.

Contents

Key

The name of the tag.

Type: String


Pattern: ^([\p{L}\p{Z}\p{N}\_\.:\+/\-@]*)$ 

Required: Yes

Value

The value of the tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: ^([\p{L}\p{Z}\p{N}\_\.:\+/\-@]*)$ 

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 V2
- AWS SDK for Ruby V3
Target

An array of search criteria that targets instances using a Key,Value combination that you specify.

**Note**
One or more targets must be specified for maintenance window Run Command-type tasks. Depending on the task, targets are optional for other maintenance window task types (Automation, AWS Lambda, and AWS Step Functions). For more information about running tasks that do not specify targets, see Registering maintenance window tasks without targets in the AWS Systems Manager User Guide.

Supported formats include the following.

- **Key=InstanceIds,Values=instance-id-1,instance-id-2,instance-id-3**
- **Key=tag:my-tag-key,Values=my-tag-value-1,my-tag-value-2**
- **Key=tag-key,Values=my-tag-key-1,my-tag-key-2**
- **Run Command and Maintenance window targets only:** Key=resource-groups:Name,Values=resource-group-name
- **Maintenance window targets only:** Key=resource-groups:ResourceTypeFilters,Values=resource-type-1,resource-type-2
- **Automation targets only:** Key=ResourceGroup;Values=resource-group-name

For example:

- **Key=InstanceIds,Values=i-02573cafcfEXAMPLE,i-0471e04240EXAMPLE,i-07782c72faEXAMPLE**
- **Key=tag:CostCenter,Values=CostCenter1,CostCenter2,CostCenter3**
- **Key=tag-key,Values=Name,Instance-Type,CostCenter**
- **Run Command and Maintenance window targets only:** Key=resource-groups:Name,Values=ProductionResourceGroup
  This example demonstrates how to target all resources in the resource group ProductionResourceGroup in your maintenance window.
- **Maintenance window targets only:** Key=resource-groups:ResourceTypeFilters,Values=AWS::EC2::INSTANCE,AWS::EC2::VPC
  This example demonstrates how to target only EC2 instances and VPCs in your maintenance window.
- **Automation targets only:** Key=ResourceGroup,Values=MyResourceGroup
- **State Manager association targets only:** Key=InstanceIds,Values=*  
  This example demonstrates how to target all managed instances in the AWS Region where the association was created.

For more information about how to send commands that target instances using Key,Value parameters, see Targeting multiple instances in the AWS Systems Manager User Guide.

**Contents**

**Key**
User-defined criteria for sending commands that target instances that meet the criteria.

Type: String

Pattern: ^\p{L}p\{Z\}p\{N\}_:/=-]\*\$|resource-groups:ResourceTypeFilters|
resource-groups:Name

Required: No

Values

User-defined criteria that maps to Key. For example, if you specified tag:ServerRole, you could specify value:WebServer to run a command on instances that include EC2 tags of ServerRole,WebServer.

Depending on the type of Target, the maximum number of values for a Key might be lower than the global maximum of 50.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

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

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

The combination of AWS Regions and accounts targeted by the current Automation execution.

Contents

Accounts
The AWS accounts targeted by the current Automation execution.
Type: Array of strings
Array Members: Minimum number of 1 item. Maximum number of 50 items.
Required: No

ExecutionRoleName
The Automation execution role used by the currently running Automation. If not specified, the default value is AWS-SystemsManager-AutomationExecutionRole.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Pattern: \[\w+=,.@/-\]+
Required: No

Regions
The AWS Regions targeted by the current Automation execution.
Type: Array of strings
Array Members: Minimum number of 1 item. Maximum number of 50 items.
Required: No

TargetLocationMaxConcurrency
The maximum number of AWS accounts and AWS regions allowed to run the Automation concurrently.
Type: String
Pattern: ^\([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%\)$
Required: No

TargetLocationMaxErrors
The maximum number of errors allowed before the system stops queueing additional Automation executions for the currently running Automation.
Type: String
Pattern: ^\([1-9][0-9]*|[0][1-9][0-9]%|[0-9]%|100%\)$
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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process 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.

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 (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

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 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

**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

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