Amazon EC2 Systems Manager API Reference API Version 2014-11-06



Amazon EC2 Systems Manager: API Reference

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Table of Contents

	To a Table and a second
Add	TagsToResource
	Request Syntax
	Request Parameters
	Response Elements
	Errors
	See Also
Can	celCommand
	Request Syntax
	Request Parameters
	Response Elements
	Errors
	See Also
Cre	ateActivation
0100	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
_	See Also
Crea	ateAssociation
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	See Also
Crea	ateAssociationBatch
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	See Also
Cre	ateDocument
J. 00	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
O	See Also
Crea	ateMaintenanceWindow
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	See Also
Crea	atePatchBaseline
	Request Syntax
	Request Parameters
	Response Syntax
	Response Flements

Errors	25
See Also	26
DeleteActivation	27
Request Syntax	
Request Parameters	
Response Elements	
·	
Errors	
See Also	
DeleteAssociation	
Request Syntax	29
Request Parameters	29
Response Elements	
Errors	
See Also	
DeleteDocument	
Request Syntax	
Request Parameters	31
Response Elements	31
Errors	
See Also	
DeleteMaintenanceWindow	
Request Syntax	
Request Parameters	
Response Syntax	33
Response Elements	33
Errors	33
See Also	33
DeleteParameter	
Request Syntax	
Request Parameters	
Response Elements	
Errors	35
See Also	35
DeletePatchBaseline	37
Request Syntax	
Request Parameters	
Response Syntax	
·	
Response Elements	
Errors	
See Also	38
DeregisterManagedInstance	39
Request Syntax	
Request Parameters	
Response Elements	
·	
Errors	
See Also	
DeregisterPatchBaselineForPatchGroup	41
Request Syntax	41
Request Parameters	41
Response Syntax	
Response Elements	
Errors	
See Also	
DeregisterTargetFromMaintenanceWindow	43
Request Syntax	43
Request Parameters	43
Response Syntax	

Response Elements	43
Errors	44
See Also	44
DeregisterTaskFromMaintenanceWindow	45
Request Syntax	45
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeActivations	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeAssociation	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeAutomationExecutions	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	53
See Also	
DescribeAvailablePatches	
Request Syntax	54
Request Parameters	54
Response Syntax	54
Response Elements	55
Errors	55
See Also	55
DescribeDocument	56
Request Syntax	56
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	_
DescribeDocumentPermission	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeEffectiveInstanceAssociations	
Request Syntax	
Request Parameters	
Response Syntax	
Response Flements	60

Е	rrors	61
S	See Also	61
Describ	beEffectivePatchesForPatchBaseline	62
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	rrors	
	See Also	
	pelnstanceAssociationsStatus	
R	Request Syntax	64
R	Request Parameters	64
R	Response Syntax	64
	Response Elements	
	rrors	
	See Also	
	pelnstanceInformation	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
Е	rrors	68
S	See Also	69
Describ	pelnstancePatches	70
R	Request Syntax	70
	Request Parameters	
	Response Syntax	
	Response Elements	
	irrors	
	See Also	
	pelnstancePatchStates	
	Request Syntax	
R	Request Parameters	73
R	Response Syntax	73
R	Response Elements	74
Е	rrors	74
S	See Also	74
	pelnstancePatchStatesForPatchGroup	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	errors	-
_	See Also	_
	peMaintenanceWindowExecutions	
	Request Syntax	
	Request Parameters	
R	Response Syntax	79
R	Response Elements	79
Е	rrors	79
	See Also	
	peMaintenanceWindowExecutionTaskInvocations	
	Request Syntax	
	Request Parameters	
	Response Syntax	
R -	Response Elements	81
	rroro	U 1

See Also	81
DescribeMaintenanceWindowExecutionTasks	
Request Syntax	
Request Parameters	
·	
Response Syntax	
Response Elements	
Errors	
See Also	 84
DescribeMaintenanceWindows	 85
Request Syntax	 85
Request Parameters	 85
Response Syntax	 85
Response Elements	
Errors	
See Also	
DescribeMaintenanceWindowTargets	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeMaintenanceWindowTasks	 89
Request Syntax	 89
Request Parameters	 89
Response Syntax	
Response Elements	
Errors	
See Also	
DescribeParameters	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
DescribePatchBaselines	
Request Syntax	 94
Request Parameters	 94
Response Syntax	 94
Response Elements	 95
Errors	 95
See Also	
DescribePatchGroups	
Request Syntax	
Request Parameters	
Response Syntax	
·	
Response Elements	
Errors	
See Also	-
DescribePatchGroupState	
Request Syntax	
Request Parameters	 98
Response Syntax	 98
Response Elements	 98
Errors	 99
See Also	 99

	tomationExecution	
F	Request Syntax	100
F	Request Parameters	100
F	Response Syntax	100
F	Response Elements	101
E	Errors	101
5	See Also	101
	mmandInvocation	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	faultPatchBaseline	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	ployablePatchSnapshotForInstance	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	cument	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	entory	
F	Request Syntax	112
F	Request Parameters	112
F	Response Syntax	112
F	Response Elements	113
E	Errors	113
5	See Also	114
GetInv	entorySchema	115
F	Request Syntax	115
F	Request Parameters	115
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	intenanceWindow	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	· · · · ·	
	Response Elements	
		_
	See Also	
	intenanceWindowExecution	
	Request Syntax	
	Request Parameters	120

Response Syntax	120
Response Elements	120
Errors	121
See Also	
GetMaintenanceWindowExecutionTask	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
GetParameterHistory	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	126
See Also	126
GetParameters	127
Request Syntax	127
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
GetPatchBaseline	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
GetPatchBaselineForPatchGroup	132
Request Syntax	132
Request Parameters	132
Response Syntax	132
Response Elements	132
Errors	
See Also	
ListAssociations	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
ListCommandInvocations	
Request Syntax	
Request Parameters	
Response Syntax	137
Response Elements	137
Errors	138
See Also	
ListCommands	
Request Syntax	
Request Parameters	
Response Syntax	140

Response Elements	140
Errors	140
See Also	141
ListDocuments	142
Request Syntax	142
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
ListDocumentVersions	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
ListInventoryEntries	
Request Syntax	146
Request Parameters	146
Response Syntax	147
Response Elements	
Errors	
See Also	
ListTagsForResource	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
See Also	
ModifyDocumentPermission	
Request Syntax	
Request Parameters	
Response Elements	
Errors	
See Also	
PutInventory	153
Request Syntax	153
Request Parameters	153
Response Elements	153
Errors	
See Also	
PutParameter	
Request Syntax	
Request Parameters	
·	
Response Elements	
Errors	
See Also	
RegisterDefaultPatchBaseline	
Request Syntax	
Request Parameters	
Response Syntax	157
Response Elements	157
Errors	157
See Also	158
RegisterPatchRaselineForPatchGroup	150

I	Request Syntax	159
I	Request Parameters	159
ı	Response Syntax	159
I	Response Elements	159
	Errors	
	See Also	
	erTargetWithMaintenanceWindow	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	erTaskWithMaintenanceWindow	
	Request Syntax	
	· · · · ·	
	Request Parameters	
	Response Elements	
	Errors	
	See Also	
	veTagsFromResource	
	Request Syntax	
	Request Parameters	
	Response Elements	
	Errors	
	See Also	
	Command	
I	Request Syntax	169
I	Request Parameters	169
I	Response Syntax	171
I	Response Elements	172
I	Errors	172
,	See Also	173
StartA	utomationExecution	174
ı	Request Syntax	174
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	utomationExecution	
	Request Syntax	
	Request Parameters	
	Response Elements	
	Errors	
	See Also	
	eAssociation	
•		177
	Request Syntax	
	•	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	eAssociationStatus	
	Request Syntax	
	Request Parameters	
	Response Syntax	180

	Response Elements	181
	Errors	181
	See Also	182
	UpdateDocument	183
	Request Syntax	183
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	UpdateDocumentDefaultVersion	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	UpdateMaintenanceWindow	
	Request Syntax	
	Request Parameters	
	Response Syntax	
	Response Elements	
	Errors	
	See Also	
	UpdateManagedInstanceRole	
	Request Syntax	
	Request Parameters	
	Response Elements	
	Errors	
	See Also	191
	UpdatePatchBaseline	
	Request Syntax	193
	Request Parameters	193
	Response Syntax	194
	Response Elements	195
	Errors	195
	See Also	196
Data	Types	197
	Activation	199
	Contents	199
	See Also	200
	Association	
	Contents	
	See Also	201
	AssociationDescription	
	Contents	
	See Also	
	AssociationFilter	
	Contents	
	See Also	
	AssociationOverview	
	Contents	
	See Also	
	AssociationStatus	
	Contents	-
	See Also AutomationExecution	
	AURODARODE XECHION	/U8

Contents	208
See Also	. 209
AutomationExecutionFilter	
Contents	210
See Also	
AutomationExecutionMetadata	
Contents	
See Also	
Command	
Contents	
See Also	
CommandFilter	
Contents	
See Also	
CommandInvocation	
Contents	
See Also	
CommandPlugin	
Contents	
See Also	
CreateAssociationBatchRequestEntry	
Contents	
See Also	
DescribeActivationsFilter	. 225
Contents	225
See Also	. 225
DocumentDefaultVersionDescription	226
Contents	226
See Also	
DocumentDescription	
Contents	
See Also	
DocumentFilter	
Contents	
See Also	
DocumentIdentifier	
Contents	
See Also	
DocumentParameter	
Contents	
See Also	
DocumentVersionInfo	
Contents	
See Also	. 232
EffectivePatch	. 233
Contents	233
See Also	. 233
FailedCreateAssociation	234
Contents	234
See Also	. 234
InstanceAggregatedAssociationOverview	
Contents	
See Also	
InstanceAssociation	
Contents	
See Also	
InstanceAssociationOutputLocation	
	///

Contents	237
See Also	237
InstanceAssociationOutputUrl	
Contents	
See Also	
InstanceAssociationStatusInfo	
Contents	
See Also	
InstanceInformation	
Contents	
See Also	242
InstanceInformationFilter	244
Contents	244
See Also	
InstanceInformationStringFilter	
Contents	
See Also	
InstancePatchState	
Contents	
See Also	247
InstancePatchStateFilter	248
Contents	248
See Also	248
InventoryFilter	
Contents	
See Also	
InventoryItem	
Contents	
See Also	
InventoryItemAttribute	. 251
Contents	251
See Also	251
InventoryItemSchema	252
Contents	
See Also	
InventoryResultEntity	
Contents	
See Also	
InventoryResultItem	
Contents	254
See Also	254
LoggingInfo	255
Contents	
See Also	
MaintenanceWindowExecution	
Contents	
See Also	
MaintenanceWindowExecutionTaskIdentity	
Contents	257
See Also	258
MaintenanceWindowExecutionTaskInvocationIdentity	259
Contents	
See Also	
MaintenanceWindowFilter	
Contents	
See Also	
MaintenanceWindowldentity	262

Contents	262
See Also	262
MaintenanceWindowTarget	
Contents	
See Also	
MaintenanceWindowTask	
Contents	
See Also	
MaintenanceWindowTaskParameterValueExpression	
Contents	
See Also	266
NotificationConfig	. 267
Contents	267
See Also	267
Parameter	
Contents	
See Also	
ParameterHistory	
Contents	
See Also	
ParameterMetadata	
Contents	271
See Also	271
ParametersFilter	272
Contents	272
See Also	
Patch	
Contents	
See Also	
PatchBaselineIdentity	
Contents	
See Also	
PatchComplianceData	
Contents	276
See Also	276
PatchFilter	277
Contents	277
See Also	
PatchFilterGroup	
Contents	
PatchGroupPatchBaselineMapping	
Contents	
See Also	-
PatchOrchestratorFilter	280
Contents	280
See Also	280
PatchRule	. 281
Contents	
See Also	
PatchRuleGroup	
· ·	
Contents	
See Also	_
PatchStatus	
Contents	
See Also	283
Result Attribute	284

	Contents	284
	See Also	284
	S3OutputLocation	285
	Contents	285
	See Also	285
	S3OutputUrl	286
	Contents	
	See Also	
	StepExecution	
	Contents	
	See Also	
	Tag	
	Contents	
	See Also	
	Target	
	Contents	
	See Also	
Cunta		
Syste	ems Manager Plugins	
	Top-level Elements	
	Syntax	
	Properties	
	aws:applications	
	Syntax	
	Properties	
	aws:cloudWatch	
	Syntax	
	Settings and Properties	297
	aws:configureDocker	302
	Syntax	302
	Inputs	302
	aws:configurePackage	303
	Syntax	303
	Inputs	
	aws:domainJoin	
	Syntax	
	Properties	
	Examples	
	aws:psModule	
	Syntax	
	Properties	
	·	306
	Syntax	
	Inputs	
	aws:runDockerAction	
	Syntax	
	Inputs	
	aws:runPowerShellScript	
	Syntax	
	Properties	
	aws:runShellScript	
	Syntax	
	Properties	
	aws:softwareInventory	
	Syntax	309
	Inputs	310
	aws:updateAgent	
	Syntax	310

Amazon EC2 Systems Manager API Reference

Properties	311
aws:updateSSMAgent	311
Syntax	
Properties	312
Common Parameters	313
Common Errors	315
Auditing API Calls	317
Systems Manager Information in CloudTrail	317
Understanding SSM Log File Entries	

Welcome

Amazon EC2 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 EC2 instance or on-premises machine in your hybrid environment that has been configured for Systems Manager.

This reference is intended to be used with the Amazon EC2 Systems Manager User Guide.

To get started, verify prerequisites and configure managed instances. For more information, see Systems Manager Prerequisites.

This document was last published on April 27, 2017.

Actions

The following actions are supported:

- AddTagsToResource (p. 5)
- CancelCommand (p. 7)
- CreateActivation (p. 9)
- CreateAssociation (p. 11)
- CreateAssociationBatch (p. 15)
- CreateDocument (p. 19)
- CreateMaintenanceWindow (p. 22)
- CreatePatchBaseline (p. 24)
- DeleteActivation (p. 27)
- DeleteAssociation (p. 29)
- DeleteDocument (p. 31)
- DeleteMaintenanceWindow (p. 33)
- DeleteParameter (p. 35)
- DeletePatchBaseline (p. 37)
- DeregisterManagedInstance (p. 39)
- DeregisterPatchBaselineForPatchGroup (p. 41)
- DeregisterTargetFromMaintenanceWindow (p. 43)
- DeregisterTaskFromMaintenanceWindow (p. 45)
- DescribeActivations (p. 47)
- DescribeAssociation (p. 49)
- DescribeAutomationExecutions (p. 52)
- DescribeAvailablePatches (p. 54)
- DescribeDocument (p. 56)
- DescribeDocumentPermission (p. 58)
- DescribeEffectiveInstanceAssociations (p. 60)
- DescribeEffectivePatchesForPatchBaseline (p. 62)
- DescribeInstanceAssociationsStatus (p. 64)
- DescribeInstanceInformation (p. 67)
- DescribeInstancePatches (p. 70)

- DescribeInstancePatchStates (p. 73)
- DescribeInstancePatchStatesForPatchGroup (p. 75)
- DescribeMaintenanceWindowExecutions (p. 78)
- DescribeMaintenanceWindowExecutionTaskInvocations (p. 80)
- DescribeMaintenanceWindowExecutionTasks (p. 83)
- DescribeMaintenanceWindows (p. 85)
- DescribeMaintenanceWindowTargets (p. 87)
- DescribeMaintenanceWindowTasks (p. 89)
- DescribeParameters (p. 92)
- DescribePatchBaselines (p. 94)
- DescribePatchGroups (p. 96)
- DescribePatchGroupState (p. 98)
- GetAutomationExecution (p. 100)
- GetCommandInvocation (p. 102)
- GetDefaultPatchBaseline (p. 107)
- GetDeployablePatchSnapshotForInstance (p. 108)
- GetDocument (p. 110)
- GetInventory (p. 112)
- GetInventorySchema (p. 115)
- GetMaintenanceWindow (p. 117)
- GetMaintenanceWindowExecution (p. 120)
- GetMaintenanceWindowExecutionTask (p. 122)
- GetParameterHistory (p. 125)
- GetParameters (p. 127)
- GetPatchBaseline (p. 129)
- GetPatchBaselineForPatchGroup (p. 132)
- ListAssociations (p. 134)
- ListCommandInvocations (p. 136)
- ListCommands (p. 139)
- ListDocuments (p. 142)
- ListDocumentVersions (p. 144)
- ListInventoryEntries (p. 146)
- ListTagsForResource (p. 149)
- ModifyDocumentPermission (p. 151)
- PutInventory (p. 153)
- PutParameter (p. 155)
- RegisterDefaultPatchBaseline (p. 157)
- RegisterPatchBaselineForPatchGroup (p. 159)
- RegisterTargetWithMaintenanceWindow (p. 161)
- RegisterTaskWithMaintenanceWindow (p. 164)
- RemoveTagsFromResource (p. 167)
- SendCommand (p. 169)
- StartAutomationExecution (p. 174)
- StopAutomationExecution (p. 176)
- UpdateAssociation (p. 177)
- UpdateAssociationStatus (p. 180)

- UpdateDocument (p. 183)
- UpdateDocumentDefaultVersion (p. 186)
- UpdateMaintenanceWindow (p. 188)
- UpdateManagedInstanceRole (p. 191)
- UpdatePatchBaseline (p. 193)

AddTagsToResource

Adds or overwrites one or more tags for the specified resource. Tags are metadata that you assign to your managed instances, Maintenance Windows, or Parameter Store parameters. 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 10 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 Amazon EC2 and are interpreted strictly as a string of characters.

For more information about tags, see Tagging Your Amazon EC2 Resources in the *Amazon EC2 User Guide*.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Resourceld (p. 5)
```

The resource ID you want to tag.

Type: String Required: Yes

ResourceType (p. 5)

Specifies the type of resource you are tagging.

Type: String

Valid Values: ManagedInstance | MaintenanceWindow | Parameter

Required: Yes

Tags (p. 5)

One or more tags. The value parameter is required, but if you don't want the tag to have a value, specify the parameter with no value, and we set the value to an empty string.

Type: array of Tag (p. 289) objects

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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. 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

See Also

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

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. 313).

The request accepts the following data in JSON format.

CommandId (p. 7)

The ID of the command you want to cancel.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes InstanceIds (p. 7)

(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. 315).

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: 400

InvalidCommandId

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

Amazon EC2 Systems Manager API Reference See Also

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

CreateActivation

Registers your on-premises server or virtual machine with Amazon EC2 so that you can manage these resources using Run Command. An on-premises server or virtual machine that has been registered with EC2 is called a managed instance. For more information about activations, see Setting Up Systems Manager in Hybrid Environments.

Request Syntax

```
{
    "DefaultInstanceName": "string",
    "Description": "string",
    "ExpirationDate": number,
    "IamRole": "string",
    "RegistrationLimit": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DefaultInstanceName (p. 9)

The name of the registered, managed instance as it will appear in the Amazon EC2 console or when you use the AWS command line tools to list EC2 resources.

Type: String

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

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

Required: No

Description (p. 9)

A user-defined description of the resource that you want to register with Amazon EC2.

Type: String

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

Required: No

ExpirationDate (p. 9)

The date by which this activation request should expire. The default value is 24 hours.

Type: Timestamp Required: No

lamRole (p. 9)

The Amazon Identity and Access Management (IAM) role that you want to assign to the managed instance.

Type: String

Length Constraints: Maximum length of 64.

Required: Yes

RegistrationLimit (p. 9)

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

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. 10)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 250.

ActivationId (p. 10)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

CreateAssociation

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, the 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 throws the AssociationAlreadyExists exception.

Request Syntax

```
"DocumentVersion": "string",
"InstanceId": "string",
"Name": "string",
"OutputLocation": {
   "S3Location": {
     "OutputS3BucketName": "string",
      "OutputS3KeyPrefix": "string",
      "OutputS3Region": "string"
},
"Parameters": {
   "string" : [ "string" ]
"ScheduleExpression": "string",
"Targets": [
      "Key": "string",
      "Values": [ "string" ]
]
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DocumentVersion (p. 11)

Required: Yes

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

```
version.

Type: String

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

Required: No

InstanceId (p. 11)

The instance ID.

Type: String

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

Required: No

Name (p. 11)

The name of the Systems Manager document.

Type: String

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

OutputLocation (p. 11)

An Amazon S3 bucket where you want to store the output details of the request. For example:

```
"{ \"S3Location\": { \"OutputS3Region\": \"<region>\", \"OutputS3BucketName\": \"bucket name\", \"OutputS3KeyPrefix\": \"folder name\" } }"
```

Type: InstanceAssociationOutputLocation (p. 237) object

Required: No

Parameters (p. 11)

The parameters for the documents runtime configuration.

Type: String to array of Strings map

Required: No

ScheduleExpression (p. 11)

A cron expression when the association will be applied to the target(s). Supported expressions are every half, 1, 2, 4, 8 or 12 hour(s); every specified day and time of the week. For example: cron(0 0/30 * 1/1 * ? *) to run every thirty minutes; cron(0 0 0/4 1/1 * ? *) to run every four hours; and cron(0 0 10 ? * SUN *) to run every Sunday at 10 a.m.

Type: String

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

Required: No

Targets (p. 11)

The targets (either instances or tags) for the association. Instances are specified using Key=instanceids, Values=<instanceid1>,<instanceid2>. Tags are specified using Key=<tag name>, Values=<tag value>.

Type: array of Target (p. 290) objects

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

Required: No

Response Syntax

```
"AssociationDescription": {
  "AssociationId": "string",
  "Date": number,
   "DocumentVersion": "string",
   "InstanceId": "string",
   "LastExecutionDate": number,
  "LastSuccessfulExecutionDate": number,
  "LastUpdateAssociationDate": number,
   "Name": "string",
   "OutputLocation": {
      "S3Location": {
         "OutputS3BucketName": "string",
         "OutputS3KeyPrefix": "string",
         "OutputS3Region": "string"
      }
   "Overview": {
      "AssociationStatusAggregatedCount": {
         "string" : number
      "DetailedStatus": "string",
      "Status": "string"
   "Parameters": {
      "string" : [ "string" ]
   "ScheduleExpression": "string",
```

Amazon EC2 Systems Manager API Reference Response Elements

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. 12)

Information about the association.

Type: AssociationDescription (p. 203) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 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

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

Amazon EC2 Systems Manager API Reference See Also

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 SSM document. You can only supply values to parameters defined in the SSM 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 EC2 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

See Also

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

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, the 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 throws the AssociationAlreadyExists exception.

Request Syntax

```
"Entries": [
  {
      "DocumentVersion": "string",
      "InstanceId": "string",
      "Name": "string",
      "OutputLocation": {
         "S3Location": {
            "OutputS3BucketName": "string",
            "OutputS3KeyPrefix": "string",
            "OutputS3Region": "string"
         }
      "Parameters": {
        "string" : [ "string" ]
      "ScheduleExpression": "string",
      "Targets": [
         {
            "Key": "string",
            "Values": [ "string" ]
]
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Entries (p. 15)

One or more associations.

Type: array of CreateAssociationBatchRequestEntry (p. 223) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
"InstanceId": "string",
         "Name": "string",
         "OutputLocation": {
            "S3Location": {
               "OutputS3BucketName": "string",
               "OutputS3KeyPrefix": "string",
               "OutputS3Region": "string"
         "Parameters": {
            "string" : [ "string" ]
         "ScheduleExpression": "string",
         "Targets": [
           {
               "Key": "string",
               "Values": [ "string" ]
         ]
      },
      "Fault": "string",
      "Message": "string"
  }
],
"Successful": [
  {
      "AssociationId": "string",
      "Date": number,
      "DocumentVersion": "string",
     "InstanceId": "string",
      "LastExecutionDate": number,
      "LastSuccessfulExecutionDate": number,
      "LastUpdateAssociationDate": number,
      "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"
      },
      "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.

Failed (p. 15)

Information about the associations that failed.

Type: array of FailedCreateAssociation (p. 234) objects

Successful (p. 15)

Information about the associations that succeeded.

Type: array of AssociationDescription (p. 203) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 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

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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 SSM document. You can only supply values to parameters defined in the SSM document.

HTTP Status Code: 400

Amazon EC2 Systems Manager API Reference See Also

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 EC2 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

See Also

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

CreateDocument

Creates a Systems Manager document.

After you create a document, you can use CreateAssociation to associate it with one or more running instances.

Request Syntax

```
{
    "Content": "string",
    "DocumentType": "string",
    "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Content (p. 19)
```

A valid JSON string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

DocumentType (p. 19)

The type of document to create. Valid document types include: Policy, Automation, and Command.

Type: String

Valid Values: Command | Policy | Automation

Required: No

Name (p. 19)

A name for the Systems Manager document.

Type: String

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

Required: Yes

Response Syntax

Amazon EC2 Systems Manager API Reference Response Elements

```
"Name": "string",
    "Type": "string"
}
],
   "PlatformTypes": [ "string" ],
    "SchemaVersion": "string",
    "Shal": "string",
    "Status": "string"
}
```

Response Elements

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

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

DocumentDescription (p. 19)

Information about the Systems Manager document.

Type: DocumentDescription (p. 227) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DocumentAlreadyExists

The specified document already exists.

HTTP Status Code: 400

DocumentLimitExceeded

You can have at most 200 active SSM documents.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

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

See Also

- · AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java

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

CreateMaintenanceWindow

Creates a new Maintenance Window.

Request Syntax

```
{
   "AllowUnassociatedTargets": boolean,
   "ClientToken": "string",
   "Cutoff": number,
   "Duration": number,
   "Name": "string",
   "Schedule": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AllowUnassociatedTargets (p. 22)

Whether targets must be registered with the Maintenance Window before tasks can be defined for those targets.

Type: Boolean Required: Yes

ClientToken (p. 22)

User-provided idempotency token.

Type: String

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

Required: No

Cutoff (p. 22)

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 **Duration (p. 22)**

The duration of the Maintenance Window in hours.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Required: Yes

Name (p. 22)

The name of the Maintenance Window.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Required: Yes

Schedule (p. 22)

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

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.

Windowld (p. 23)

The ID of the created Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 400

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource limits (e.g. too many Maintenance Windows have been created).

HTTP Status Code: 400

See Also

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

CreatePatchBaseline

Creates a patch baseline.

Request Syntax

```
"ApprovalRules": {
   "PatchRules": [
         "ApproveAfterDays": number,
         "PatchFilterGroup": {
            "PatchFilters": [
                  "Key": "string",
                  "Values": [ "string" ]
   ]
"ApprovedPatches": [ "string" ],
"ClientToken": "string",
"Description": "string",
"GlobalFilters": {
   "PatchFilters": [
         "Key": "string",
         "Values": [ "string" ]
   1
"Name": "string",
"RejectedPatches": [ "string" ]
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

ApprovalRules (p. 24)

A set of rules used to include patches in the baseline.

Type: PatchRuleGroup (p. 282) object

Required: No

ApprovedPatches (p. 24)

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.

Pattern: $(^KB[0-9]{1,7}$)|(^MS[0-9]{2}\\-[0-9]{3}$)$

Required: No

ClientToken (p. 24)

Caller-provided idempotency token.

Type: String

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

Amazon EC2 Systems Manager API Reference Response Syntax

Required: No

Description (p. 24)

A description of the patch baseline.

Type: String

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

Required: No GlobalFilters (p. 24)

A set of global filters used to exclude patches from the baseline.

Type: PatchFilterGroup (p. 278) object

Required: No

Name (p. 24)

The name of the patch baseline.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Required: Yes

RejectedPatches (p. 24)

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.

Pattern: $(^{KB}[0-9]\{1,7\}\$) | (^{MS}[0-9]\{2\}\-[0-9]\{3\}\$)$

Required: No

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.

Baselineld (p. 25)

The ID of the created patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 400

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource limits (e.g. too many Maintenance Windows have been created).

HTTP Status Code: 400

See Also

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

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. 313).

The request accepts the following data in JSON format.

ActivationId (p. 27)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

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

See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go

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

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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AssociationId (p. 29)

```
The association ID that you want to delete.
```

Type: String

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

Required: No

Instanceld (p. 29)

The ID of the instance.

Type: String

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

Required: No

Name (p. 29)

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. 315).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

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.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

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. 29) to disassociate all instances that are associated with the document.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Name (p. 31)

The name of the document.

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. 315).

AssociatedInstances

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

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

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

See Also

- · AWS Command Line Interface
- · AWS SDK for .NET

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

DeleteMaintenanceWindow

Deletes a Maintenance Window.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Windowld (p. 33)

The ID of the Maintenance Window to delete.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

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.

Windowld (p. 33)

The ID of the deleted Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DeleteParameter

Delete a parameter from the system.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Name (p. 35)

The name of the parameter to delete.

Type: String

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

Pattern: ^(?!^([aA][wW][sS]|[sS][mM]))(?=^[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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

ParameterNotFound

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

HTTP Status Code: 400

See Also

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

Amazon EC2 Systems Manager API Reference See Also

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. 313).

The request accepts the following data in JSON format.

Baselineld (p. 37)

The ID of the patch baseline to delete.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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.

Baselineld (p. 37)

The ID of the deleted patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

ResourceInUseException

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

HTTP Status Code: 400

See Also

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

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 the SSM Agent first.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Instanceld (p. 39)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

- AWS Command Line Interface
- · AWS SDK for .NET

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

DeregisterPatchBaselineForPatchGroup

Removes a patch group from a patch baseline.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Baselineld (p. 41)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: Yes PatchGroup (p. 41)

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

```
{
    "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.

Baselineld (p. 41)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

PatchGroup (p. 41)

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

Type: String

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

Amazon EC2 Systems Manager API Reference Errors

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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

HTTP Status Code: 400

See Also

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

DeregisterTargetFromMaintenanceWindow

Removes a target from a Maintenance Window.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Windowld (p. 43)

The ID of the Maintenance Window the target should be removed from.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

WindowTargetId (p. 43)

The ID of the target definition to remove.

Type: String

Length Constraints: Fixed length of 36.

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

{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.

Windowld (p. 43)

The ID of the Maintenance Window the target was removed from.

Type: String

Length Constraints: Fixed length of 20.

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

WindowTargetId (p. 43)

The ID of the removed target definition.

Type: String

Amazon EC2 Systems Manager API Reference Errors

Length Constraints: Fixed length of 36.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DeregisterTaskFromMaintenanceWindow

Removes a task from a Maintenance Window.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Windowld (p. 45)

The ID of the Maintenance Window the task should be removed from.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

WindowTaskld (p. 45)

The ID of the task to remove from the Maintenance Window.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Required: Yes

Response Syntax

```
{
    "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.

Windowld (p. 45)

The ID of the Maintenance Window the task was removed from.

Type: String

Length Constraints: Fixed length of 20.

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

WindowTaskId (p. 45)

The ID of the task removed from the Maintenance Window.

Type: String

Amazon EC2 Systems Manager API Reference Errors

Length Constraints: Fixed length of 36.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeActivations

Details about the activation, including: the date and time the activation was created, the expiration date, the IAM role assigned to the instances in the activation, and the number of instances activated by this registration.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 47)

A filter to view information about your activations.

Type: array of DescribeActivationsFilter (p. 225) objects

Required: No

MaxResults (p. 47)

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. Maximum value of 50.

Required: No

NextToken (p. 47)

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

Type: String Required: No

Response Syntax

Amazon EC2 Systems Manager API Reference Response Elements

```
],
"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. 47)

A list of activations for your AWS account.

Type: array of Activation (p. 199) objects

NextToken (p. 47)

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. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

DescribeAssociation

Describes the associations for the specified Systems Manager document or instance.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
AssociationId (p. 49)
```

The association ID for which you want information.

```
Type: String
```

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

Required: No

Instanceld (p. 49)

The instance ID.

Type: String

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

Required: No

Name (p. 49)

The name of the SSM document.

Type: String

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

Required: No

Response Syntax

```
"AssociationStatusAggregatedCount": {
         "string" : number
      "DetailedStatus": "string",
      "Status": "string"
   "Parameters": {
      "string" : [ "string" ]
   "ScheduleExpression": "string",
   "Status": {
      "AdditionalInfo": "string",
      "Date": number,
      "Message": "string",
      "Name": "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.

AssociationDescription (p. 49)

Information about the association.

Type: AssociationDescription (p. 203) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidInstanceld

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

DescribeAutomationExecutions

Provides details about all active and terminated Automation executions.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 52)

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

Type: array of AutomationExecutionFilter (p. 210) objects

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

Required: No

MaxResults (p. 52)

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. Maximum value of 50.

Required: No

NextToken (p. 52)

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

Type: String Required: No

Response Syntax

Amazon EC2 Systems Manager API Reference Response Elements

```
}
],
"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.

AutomationExecutionMetadataList (p. 52)

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

Type: array of AutomationExecutionMetadata (p. 211) objects

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

NextToken (p. 52)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

DescribeAvailablePatches

Lists all patches that could possibly be included in a patch baseline.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 54)

Filters used to scope down the returned patches.

Type: array of PatchOrchestratorFilter (p. 280) objects

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

Required: No

MaxResults (p. 54)

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. 54)

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

Type: String Required: No

Response Syntax

Amazon EC2 Systems Manager API Reference Response Elements

```
"Title": "string",
    "Vendor": "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. 54)

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. 54)

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

Type: array of Patch (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeDocument

Describes the specified SSM document.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DocumentVersion (p. 56)

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. 56)

The name of the SSM document.

Type: String

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

Required: Yes

```
"Document": {
      "CreatedDate": number,
      "DefaultVersion": "string",
     "Description": "string",
      "DocumentType": "string"
      "DocumentVersion": "string",
      "Hash": "string",
      "HashType": "string",
      "LatestVersion": "string",
      "Name": "string",
      "Owner": "string",
      "Parameters": [
            "DefaultValue": "string",
            "Description": "string",
            "Name": "string",
            "Type": "string"
      ],
      "PlatformTypes": [ "string" ],
      "SchemaVersion": "string",
      "Sha1": "string",
      "Status": "string"
}
```

Response Elements

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

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

Document (p. 56)

Information about the SSM document.

Type: DocumentDescription (p. 227) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

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

```
{
    "Name": "string",
    "PermissionType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Name (p. 58)

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

Type: String

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

Required: Yes

PermissionType (p. 58)

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

Type: String

Valid Values: Share Required: Yes

Response Syntax

```
{
    "AccountIds": [ "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. 58)

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}

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

Amazon EC2 Systems Manager API Reference See Also

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

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

See Also

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

DescribeEffectiveInstanceAssociations

All 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. 313).

The request accepts the following data in JSON format.

Instanceld (p. 60)

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. 60)

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. Maximum value of 5.

Required: No

NextToken (p. 60)

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

Type: String 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.

Associations (p. 60)

The associations for the requested instance.

Amazon EC2 Systems Manager API Reference Errors

Type: array of InstanceAssociation (p. 236) objects

NextToken (p. 60)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidInstanceld

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

DescribeEffectivePatchesForPatchBaseline

Retrieves the current effective patches (the patch and the approval state) for the specified patch baseline.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Baselineld (p. 62)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: Yes

MaxResults (p. 62)

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. 62)

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

Type: String Required: No

```
"EffectivePatches": [
      "Patch": {
         "Classification": "string",
         "ContentUrl": "string",
         "Description": "string",
         "Id": "string",
         "KbNumber": "string",
         "Language": "string",
         "MsrcNumber": "string"
         "MsrcSeverity": "string",
         "Product": "string",
         "ProductFamily": "string",
         "ReleaseDate": number,
         "Title": "string",
         "Vendor": "string"
      },
```

Amazon EC2 Systems Manager API Reference Response Elements

```
"PatchStatus": {
         "ApprovalDate": number,
         "DeploymentStatus": "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.

EffectivePatches (p. 62)

An array of patches and patch status.

Type: array of EffectivePatch (p. 233) objects

NextToken (p. 62)

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. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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

HTTP Status Code: 400

See Also

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

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. 313).

The request accepts the following data in JSON format.

Instanceld (p. 64)

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. 64)

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. Maximum value of 50.

Required: No

NextToken (p. 64)

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

Type: String Required: No

Amazon EC2 Systems Manager API Reference Response Elements

```
],
"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. 64)

Status information about the association.

Type: array of InstanceAssociationStatusInfo (p. 239) objects

NextToken (p. 64)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidInstanceld

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

Amazon EC2 Systems Manager API Reference See Also				
	0007	71130		

DescribeInstanceInformation

Describes one or more of your instances. You can use this to get information about instances like the operating system platform, the SSM Agent version (Linux), status etc. 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.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 67)

One or more filters. Use a filter to return a more specific list of instances.

Type: array of InstanceInformationStringFilter (p. 245) objects

Array Members: Minimum number of 0 items.

Required: No

InstanceInformationFilterList (p. 67)

One or more filters. Use a filter to return a more specific list of instances.

Type: array of InstanceInformationFilter (p. 244) objects

Array Members: Minimum number of 0 items.

Required: No

MaxResults (p. 67)

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 5. Maximum value of 50.

Required: No

NextToken (p. 67)

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

Type: String Required: No

Response Syntax

```
"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. 68)

The instance information list.

Type: array of InstanceInformation (p. 241) objects

NextToken (p. 68)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidFilterKey

The specified key is not valid.

HTTP Status Code: 400

Amazon EC2 Systems Manager API Reference See Also

InvalidInstanceld

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Filters (p. 70)
```

Each entry in the array is a structure containing:

Key (string, 1 < length < 128)

Values (array of strings 1 < length < 256)

Type: array of PatchOrchestratorFilter (p. 280) objects

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

Required: No Instanceld (p. 70)

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. 70)

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

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

NextToken (p. 70)

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

Type: String Required: No

```
{
    "NextToken": "string",
    "Patches": [
```

Amazon EC2 Systems Manager API Reference Response Elements

```
{
    "Classification": "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. 70)

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. 70)

Each entry in the array is a structure containing:

Title (string)

KBId (string)

Classification (string)

Severity (string)

State (string - "INSTALLED", "INSTALLED_OTHER", "MISSING", "NOT_APPLICABLE", "FAILED")

InstalledTime (DateTime)

InstalledBy (string)

Type: array of PatchComplianceData (p. 276) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

DescribeInstancePatchStates

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Instancelds (p. 73)

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. 73)

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

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

NextToken (p. 73)

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

Type: String Required: No

Amazon EC2 Systems Manager API Reference Response Elements

```
"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. 73)

The high-level patch state for the requested instances.

Type: array of InstancePatchState (p. 246) objects

NextToken (p. 73)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

DescribeInstancePatchStatesForPatchGroup

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

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Filters (p. 75)
```

Each entry in the array is a structure containing:

Key (string 1 < length < 200)

Values (array containing a single string)

Type (string "Equal", "NotEqual", "LessThan", "GreaterThan")

Type: array of InstancePatchStateFilter (p. 248) objects

Array Members: Minimum number of 0 items. Maximum number of 4 items.

Required: No

MaxResults (p. 75)

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

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

NextToken (p. 75)

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

Type: String Required: No

PatchGroup (p. 75)

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

Amazon EC2 Systems Manager API Reference Response Elements

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. 75)

The high-level patch state for the requested instances.

Type: array of InstancePatchState (p. 246) objects

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

NextToken (p. 75)

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. 315).

InternalServerError

An error occurred on the server side.

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

See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++

Amazon EC2 Systems Manager API Reference See Also

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

DescribeMaintenanceWindowExecutions

Lists the executions of a Maintenance Window (meaning, information about when the Maintenance Window was scheduled to be active and information about tasks registered and run with the Maintenance Window).

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 78)

Each entry in the array is a structure containing:

Key (string, 1 < length < 128)

Values (array of strings 1 < length < 256)

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. 261) objects

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

Required: No

MaxResults (p. 78)

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. 78)

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

Type: String Required: No

Windowld (p. 78)

The ID of the Maintenance Window whose executions should be retrieved.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

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.

NextToken (p. 79)

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. 79)

Information about the Maintenance Windows execution.

Type: array of MaintenanceWindowExecution (p. 256) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeMaintenanceWindowExecutionTaskInvocations

Retrieves the individual task executions (one per target) for a particular task executed as part of a Maintenance Window execution.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 80)

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. 261) objects

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

Required: No

MaxResults (p. 80)

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. 80)

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

Type: String Required: No

Taskld (p. 80)

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. 80)

The ID of the Maintenance Window execution the task is part of.

Type: String

Amazon EC2 Systems Manager API Reference Response Syntax

```
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]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-F]{4}\\-[0-9a-fA-
```

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.

NextToken (p. 81)

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. 81)

Information about the task invocation results per invocation.

Type: array of MaintenanceWindowExecutionTaskInvocationIdentity (p. 259) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

Amazon EC2 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
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

DescribeMaintenanceWindowExecutionTasks

For a given Maintenance Window execution, lists the tasks that were executed.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 83)

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. 261) objects

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

Required: No

MaxResults (p. 83)

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. 83)

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

Type: String Required: No

WindowExecutionId (p. 83)

The ID of the Maintenance Window execution whose task executions should be retrieved.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

{

Amazon EC2 Systems Manager API Reference Response Elements

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. 83)

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. 83)

Information about the task executions.

Type: array of MaintenanceWindowExecutionTaskIdentity (p. 257) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeMaintenanceWindows

Retrieves the Maintenance Windows in an AWS account.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 85)

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. 261) objects

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

Required: No

MaxResults (p. 85)

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. 85)

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

Type: String 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.

NextToken (p. 85)

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

Windowldentities (p. 85)

Information about the Maintenance Windows.

Type: array of MaintenanceWindowldentity (p. 262) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeMaintenanceWindowTargets

Lists the targets registered with the Maintenance Window.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 87)

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. 261) objects

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

Required: No

MaxResults (p. 87)

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. 87)

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

Type: String Required: No

Windowld (p. 87)

The ID of the Maintenance Window whose targets should be retrieved.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

```
{
    "NextToken": "string",
    "Targets": [
```

Amazon EC2 Systems Manager API Reference Response Elements

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. 87)

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. 87)

Information about the targets in the Maintenance Window.

Type: array of MaintenanceWindowTarget (p. 263) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribeMaintenanceWindowTasks

Lists the tasks in a Maintenance Window.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 89)

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 (p. 261) objects

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

Required: No

MaxResults (p. 89)

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. 89)

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

Type: String Required: No

Windowld (p. 89)

The ID of the Maintenance Window whose tasks should be retrieved.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

```
{
    "NextToken": "string",
    "Tasks": [
```

```
"LoggingInfo": {
         "S3BucketName": "string",
         "S3KeyPrefix": "string",
         "S3Region": "string"
      "MaxConcurrency": "string",
      "MaxErrors": "string",
      "Priority": number,
      "ServiceRoleArn": "string",
      "Targets": [
            "Key": "string",
            "Values": [ "string" ]
      ],
      "TaskArn": "string",
      "TaskParameters": {
         "string" : {
            "Values": [ "string" ]
      "Type": "string",
      "WindowId": "string",
      "WindowTaskId": "string"
1
```

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. 89)

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. 89)

Information about the tasks in the Maintenance Window.

Type: array of MaintenanceWindowTask (p. 264) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

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

Amazon EC2 Systems Manager API Reference See Also

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

DescribeParameters

Get information about a parameter.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 92)

One or more filters. Use a filter to return a more specific list of results.

Type: array of ParametersFilter (p. 272) objects

Required: No

MaxResults (p. 92)

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. Maximum value of 50.

Required: No

NextToken (p. 92)

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

Type: String 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.

NextToken (p. 92)

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. 92)

Parameters returned by the request.

Type: array of ParameterMetadata (p. 271) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

DescribePatchBaselines

Lists the patch baselines in your AWS account.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 94)

Each element in the array is a structure containing:

Key: (string, "NAME_PREFIX" or "OWNER")

Value: (array of strings, exactly 1 entry, 1 < length < 255)

Type: array of PatchOrchestratorFilter (p. 280) objects

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

Required: No

MaxResults (p. 94)

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. 94)

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

Type: String 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.

BaselineIdentities (p. 94)

An array of PatchBaselineIdentity elements.

Type: array of PatchBaselineIdentity (p. 275) objects

NextToken (p. 94)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribePatchGroups

Lists all patch groups that have been registered with patch baselines.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

MaxResults (p. 96)

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. 96)

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

Type: String 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.

Mappings (p. 96)

Each entry in the array contains:

PatchGroup: string $(1 < length < 256, Regex: ^([\p{L}\p{Z}\p{N}_.:/=+\@]^*)$)$

PatchBaselineIdentity: A PatchBaselineIdentity element.

Type: array of PatchGroupPatchBaselineMapping (p. 279) objects

NextToken (p. 96)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

DescribePatchGroupState

Returns high-level aggregated patch compliance state for a patch group.

Request Syntax

```
{
    "PatchGroup": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

PatchGroup (p. 98)

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

```
{
  "Instances": number,
  "InstancesWithFailedPatches": number,
  "InstancesWithInstalledOtherPatches": number,
  "InstancesWithInstalledPatches": number,
  "InstancesWithMissingPatches": number,
  "InstancesWithNotApplicablePatches": 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. 98)

The number of instances in the patch group.

Type: Integer

InstancesWithFailedPatches (p. 98)

The number of instances with patches from the patch baseline that failed to install.

Type: Integer

InstancesWithInstalledOtherPatches (p. 98)

The number of instances with patches installed that aren't defined in the patch baseline.

Type: Integer

InstancesWithInstalledPatches (p. 98)

The number of instances with installed patches.

Type: Integer

InstancesWithMissingPatches (p. 98)

The number of instances with missing patches from the patch baseline.

Type: Integer

InstancesWithNotApplicablePatches (p. 98)

The number of instances with patches that aren't applicable.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

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. 313).

The request accepts the following data in JSON format.

AutomationExecutionId (p. 100)

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

```
"AutomationExecution": {
  "AutomationExecutionId": "string",
  "AutomationExecutionStatus": "string",
   "DocumentName": "string",
   "DocumentVersion": "string",
   "ExecutionEndTime": number,
   "ExecutionStartTime": number,
   "FailureMessage": "string",
   "Outputs": {
     "string" : [ "string" ]
   "Parameters": {
      "string" : [ "string" ]
   "StepExecutions": [
         "Action": "string",
         "ExecutionEndTime": number,
         "ExecutionStartTime": number,
         "FailureMessage": "string",
         "Inputs": {
            "string" : "string"
         "Outputs": {
            "string" : [ "string" ]
         "Response": "string",
         "ResponseCode": "string",
         "StepName": "string",
         "StepStatus": "string"
   ]
```

Amazon EC2 Systems Manager API Reference Response Elements

}

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. 100)

Detailed information about the current state of an automation execution.

Type: AutomationExecution (p. 208) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 400

See Also

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

GetCommandInvocation

Returns detailed information about command execution for an invocation or plugin.

Request Syntax

```
{
    "CommandId": "string",
    "InstanceId": "string",
    "PluginName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

CommandId (p. 102)

(Required) The parent command ID of the invocation plugin.

Type: String

Length Constraints: Fixed length of 36.

Required: Yes

Instanceld (p. 102)

(Required) The ID of the managed instance targeted by the command. A managed instance can be an Amazon EC2 instance or an instance in your hybrid environment that is configured for Systems Manager.

Type: String

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

Required: Yes

PluginName (p. 102)

(Optional) The name of the plugin for which you want detailed results. If the document contains only one plugin, the name can be omitted and the details will be returned.

Type: String

Length Constraints: Minimum length of 4.

Required: No

```
{
  "CommandId": "string",
  "Comment": "string",
  "DocumentName": "string",
  "ExecutionElapsedTime": "string",
  "ExecutionEndDateTime": "string",
  "ExecutionStartDateTime": "string",
  "InstanceId": "string",
  "PluginName": "string",
  "ResponseCode": number,
  "StandardErrorContent": "string",
  "StandardErrorUrl": "string",
  "StandardOutputContent": "string",
  "StandardOutputUrl": "string",
  "StandardOutputUrl": "string",
  "StandardOutputUrl": "string",
  "StandardOutputUrl": "string",
  "StandardOutputUrl": "string",
```

Amazon EC2 Systems Manager API Reference Response Elements

```
"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.

CommandId (p. 102)

The parent command ID of the invocation plugin.

Type: String

Length Constraints: Fixed length of 36.

Comment (p. 102)

The comment text for the command.

Type: String

Length Constraints: Maximum length of 100.

DocumentName (p. 102)

The name of the document that was executed. For example, AWS-RunShellScript.

Type: String

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

ExecutionElapsedTime (p. 102)

Duration since ExecutionStartDateTime.

Type: String

ExecutionEndDateTime (p. 102)

The date and time the plugin was finished executing. Date and time are written in ISO 8601 format. For example, August 28, 2016 is represented as 2016-08-28. If the plugin has not started to execute, the string is empty.

Type: String

Pattern: ^([\-]?\d{4}(?!\d{2}\b))((-?)((0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|
W([0-4]\d|5[0-2])(-?[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s]
((([01]\d|2[0-3])((:?)[0-5]\d)?|24\:?00)([\.,]\d(?!:))?)?(\17[0-5]\d([\.,]\d)?)?([zZ]|
([\-])([01]\d|2[0-3]):?([0-5]\d)?)?)?)?\$

ExecutionStartDateTime (p. 102)

The date and time the plugin started executing. Date and time are written in ISO 8601 format. For example, August 28, 2016 is represented as 2016-08-28. If the plugin has not started to execute, the string is empty.

Type: String

Instanceld (p. 102)

The ID of the managed instance targeted by the command. A managed instance can be an Amazon EC2 instance or an instance in your hybrid environment that is configured for Systems Manager.

Type: String

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

Amazon EC2 Systems Manager API Reference Response Elements

PluginName (p. 102)

The name of the plugin for which you want detailed results. For example, aws:RunShellScript is a plugin.

Type: String

Length Constraints: Minimum length of 4.

ResponseCode (p. 102)

The error level response code for the plugin script. If the response code is -1, then the command has not started executing on the instance, or it was not received by the instance.

Type: Integer

StandardErrorContent (p. 102)

The first 8,000 characters written by the plugin to stderr. If the command has not finished executing, then this string is empty.

Type: String

Length Constraints: Maximum length of 8000.

StandardErrorUrl (p. 102)

The URL for the complete text written by the plugin to stderr. If the command has not finished executing, then this string is empty.

Type: String

StandardOutputContent (p. 102)

The first 24,000 characters written by the plugin to stdout. If the command has not finished executing, if ExecutionStatus is neither Succeeded nor Failed, then this string is empty.

Type: String

Length Constraints: Maximum length of 24000.

StandardOutputUrl (p. 102)

The URL for the complete text written by the plugin to stdout in Amazon S3. If an Amazon S3 bucket was not specified, then this string is empty.

Type: String

Status (p. 102)

The status of the parent command for this invocation. This status can be different than StatusDetails.

Type: String

Valid Values: Pending | InProgress | Delayed | Success | Cancelled | TimedOut | Failed | Cancelling

StatusDetails (p. 102)

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 Run Command Status. 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, the instance was stopped, etc. The system will try to deliver the command again.
- Success The command or plugin was executed 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 MAXETTOTS 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 execute 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 executed 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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidCommandId

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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 adn the instance ID and try again.

HTTP Status Code: 400

See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- · AWS SDK for JavaScript
- · AWS SDK for PHP V3

Amazon EC2 Systems Manager API Reference See Also

- AWS SDK for Python
- AWS SDK for Ruby V2

GetDefaultPatchBaseline

Retrieves the default patch baseline.

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.

Baselineld (p. 107)

The ID of the default patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

GetDeployablePatchSnapshotForInstance

Retrieves the current snapshot for the patch baseline the instance uses. This API is primarily used by the AWS-ApplyPatchBaseline Systems Manager document.

Request Syntax

```
{
    "InstanceId": "string",
    "SnapshotId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Instanceld (p. 108)

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

Snapshotld (p. 108)

The user-defined snapshot ID.

Type: String

Length Constraints: Fixed length of 36.

 $\textbf{Pattern: } \\ \lceil 0 - 9a - fA - F \rceil \\ \{ 8 \} \\ \lceil 0 - 9a - fA - F \rceil \\ \{ 4 \} \\ \lceil 0 - 5a - fA - F \rceil \\ \{ 4 \} \\ \lceil 0 - 5a - fA - F \rceil \\ \{ 4 \} \\ \lceil 0 - 5a - fA - F \rceil \\ \{ 4 \} \\ \lceil 0 - 5a - fA - F$

Required: Yes

Response Syntax

```
{
  "InstanceId": "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.

Instanceld (p. 108)

The ID of the instance.

Type: String

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

SnapshotDownloadUrl (p. 108)

A pre-signed Amazon S3 URL that can be used to download the patch snapshot.

Type: String

Snapshotld (p. 108)

The user-defined snapshot ID.

Type: String

Length Constraints: Fixed length of 36.

 $\textbf{Pattern: } \\ \lceil 0 - 9a - fA - F \rceil \\ \{ 8 \} \\ - \lceil 0 - 9a - fA - F \rceil \\ \{ 4 \} \\ - \lceil 0 - 9a - fA - F \rceil \\ \{ 4 \} \\ - \lceil 0 - 9a - fA - F \rceil \\ \{ 4 \} \\ - \lceil 0 - 9a - fA - F \rceil \\ \{ 12 \} \\ \$ \\ + [0 - 9a - fA - F] \\ \{ 12 \} \\ + [0 - 9a - fA - F] \\ \{ 12 \} \\ + [0 - 9a - fA - F] \\ \{ 12 \} \\ + [0 - 9a - fA - F] \\ + [0 - 9a - f$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

GetDocument

Gets the contents of the specified SSM document.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DocumentVersion (p. 110)

The document version for which you want information.

Type: String

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

Required: No

Name (p. 110)

The name of the SSM document.

Type: String

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

Required: Yes

Response Syntax

```
{
   "Content": "string",
   "DocumentType": "string",
   "DocumentVersion": "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.

Content (p. 110)

The contents of the SSM document.

Type: String

Length Constraints: Minimum length of 1.

DocumentType (p. 110)

The document type.

Type: String

 $\begin{tabular}{lll} Values: {\tt Command} & | & {\tt Policy} & | & {\tt Automation} \\ \end{tabular}$

DocumentVersion (p. 110)

The document version.

Type: String

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

Name (p. 110)

The name of the SSM document.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

GetInventory

Query inventory information.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 112)

One or more filters. Use a filter to return a more specific list of results.

Type: array of InventoryFilter (p. 249) objects

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

Required: No

MaxResults (p. 112)

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. Maximum value of 50.

Required: No

NextToken (p. 112)

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

Type: String Required: No

ResultAttributes (p. 112)

The list of inventory item types to return.

Type: array of ResultAttribute (p. 284) objects

Array Members: Fixed number of 1 item.

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.

Entities (p. 112)

Collection of inventory entities such as a collection of instance inventory.

Type: array of InventoryResultEntity (p. 253) objects

NextToken (p. 112)

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. 315).

InternalServerError

An error occurred on the server side.

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

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

See Also

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

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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

MaxResults (p. 115)

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 50. Maximum value of 200.

Required: No

NextToken (p. 115)

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

Type: String Required: No

TypeName (p. 115)

The type of inventory item to return.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

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.

NextToken (p. 115)

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. 115)

Inventory schemas returned by the request.

Type: array of InventoryItemSchema (p. 252) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

GetMaintenanceWindow

Retrieves a Maintenance Window.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Windowld (p. 117)

The ID of the desired Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

Response Syntax

```
{
    "AllowUnassociatedTargets": boolean,
    "CreatedDate": number,
    "Cutoff": number,
    "Duration": number,
    "Enabled": boolean,
    "ModifiedDate": number,
    "Name": "string",
    "Schedule": "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. 117)

Whether targets must be registered with the Maintenance Window before tasks can be defined for those targets.

Type: Boolean

CreatedDate (p. 117)

The date the Maintenance Window was created.

Type: Timestamp

Cutoff (p. 117)

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.

Duration (p. 117)

The duration of the Maintenance Window in hours.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Enabled (p. 117)

Whether the Maintenance Windows is enabled.

Type: Boolean

ModifiedDate (p. 117)

The date the Maintenance Window was last modified.

Type: Timestamp

Name (p. 117)

The name of the Maintenance Window.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Schedule (p. 117)

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.

Windowld (p. 117)

The ID of the created Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

Amazon EC2 Systems Manager API Reference See Also

• AWS SDK for Ruby V2

GetMaintenanceWindowExecution

Retrieves details about a specific task executed as part of a Maintenance Window execution.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

WindowExecutionId (p. 120)

The ID of the Maintenance Window execution that includes the task.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Required: Yes

Response Syntax

```
{
    "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. 120)

The time the Maintenance Window finished executing.

Type: Timestamp

StartTime (p. 120)

The time the Maintenance Window started executing.

Type: Timestamp

Status (p. 120)

The status of the Maintenance Window execution.

Type: String

Valid Values: Pending | in_progress | success | failed | timed_out | cancelling | cancelled | skipped_overlapping

StatusDetails (p. 120)

The details explaining the Status. Only available for certain status values.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Tasklds (p. 120)

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. 120)

The ID of the Maintenance Window execution.

Type: String

Length Constraints: Fixed length of 36.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

GetMaintenanceWindowExecutionTask

Retrieves the details about a specific task executed as part of a Maintenance Window execution.

Request Syntax

```
{
    "TaskId": "string",
    "WindowExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Taskld (p. 122)

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

Required: Yes

WindowExecutionId (p. 122)

The ID of the Maintenance Window execution that includes the task.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Required: Yes

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. 122)

The time the task execution completed.

Type: Timestamp

MaxConcurrency (p. 122)

The defined maximum number of task executions that could be run in parallel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)\$

MaxErrors (p. 122)

The defined maximum number of task execution errors allowed before scheduling of the task execution would have been stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

Pattern: ^([1-9][0-9]*|[0]|[1-9][0-9]%|[0-9]%|100%)\$

Priority (p. 122)

The priority of the task.

Type: Integer

Valid Range: Minimum value of 0.

ServiceRole (p. 122)

The role that was assumed when executing the task.

Type: String
StartTime (p. 122)

The time the task execution started.

Type: Timestamp

Status (p. 122)

The status of the task.

Type: String

Valid Values: Pending | in_progress | success | failed | timed_out | cancelling | cancelled | skipped_overlapping

StatusDetails (p. 122)

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. 122)

The ARN of the executed task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

TaskExecutionId (p. 122)

The ID of the specific task execution in the Maintenance Window task that was retrieved.

Type: String

Length Constraints: Fixed length of 36.

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

TaskParameters (p. 122)

The parameters passed to the task when it was executed. The map has the following format:

Key: string, 1 < length < 255

Value: an array of strings where each string 1 < length < 255

Type: array of String to MaintenanceWindowTaskParameterValueExpression (p. 266) object maps

Type (p. 122)

The type of task executed.

Type: String

Valid Values: RUN_COMMAND

WindowExecutionId (p. 122)

The ID of the Maintenance Window execution that includes the task.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

GetParameterHistory

Query a list of all parameters used by the AWS account.

Request Syntax

```
{
   "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. 313).

The request accepts the following data in JSON format.

MaxResults (p. 125)

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. Maximum value of 50.

Required: No

Name (p. 125)

The name of a parameter you want to query.

Type: String

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

Pattern: ^(?!^([aA][wW][sS]|[sS][sS][mM]))(?=^[a-zA-Z0-9_.-]*\$).*\$

Required: Yes NextToken (p. 125)

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

Type: String Required: No

WithDecryption (p. 125)

Return decrypted values for secure string parameters. This flag is ignored for String and StringList parameter types.

Type: Boolean Required: No

Amazon EC2 Systems Manager API Reference Response Elements

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. 125)

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. 125)

A list of parameters returned by the request.

Type: array of ParameterHistory (p. 269) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

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

See Also

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

GetParameters

Get details of a parameter.

Request Syntax

```
{
    "Names": [ "string" ],
    "WithDecryption": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Names (p. 127)

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 1024.

 $\textbf{Pattern: $$^{?!^{([aA][wW][sS]|[sS][mM]))(?=^{[a-zA-Z0-9_.-]*$).*$}} $}$

Required: Yes

WithDecryption (p. 127)

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

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. 127)

A list of parameters that are not formatted correctly or do not run when executed.

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 1024.

Amazon EC2 Systems Manager API Reference Errors

Pattern: $^(?!^([aA][wW][sS]|[sS][mM]))(?=^[a-zA-Z0-9_.-]*$).*$$

Parameters (p. 127)

A list of details for a parameter.

Type: array of Parameter (p. 268) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

GetPatchBaseline

Retrieves information about a patch baseline.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Baselineld (p. 129)

The ID of the patch baseline to retrieve.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: Yes

Response Syntax

```
"ApprovalRules": {
   "PatchRules": [
         "ApproveAfterDays": number,
         "PatchFilterGroup": {
            "PatchFilters": [
                  "Key": "string",
                  "Values": [ "string" ]
"ApprovedPatches": [ "string" ],
"BaselineId": "string",
"CreatedDate": number,
"Description": "string",
"GlobalFilters": {
   "PatchFilters": [
         "Key": "string",
         "Values": [ "string" ]
"ModifiedDate": number,
"Name": "string",
"PatchGroups": [ "string" ],
"RejectedPatches": [ "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.

ApprovalRules (p. 129)

A set of rules used to include patches in the baseline.

Type: PatchRuleGroup (p. 282) object

ApprovedPatches (p. 129)

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.

Pattern: $(^{KB}[0-9]{1,7}$)|(^{MS}[0-9]{2}\\-[0-9]{3}$)$

Baselineld (p. 129)

The ID of the retrieved patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

CreatedDate (p. 129)

The date the patch baseline was created.

Type: Timestamp

Description (p. 129)

A description of the patch baseline.

Type: String

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

GlobalFilters (p. 129)

A set of global filters used to exclude patches from the baseline.

Type: PatchFilterGroup (p. 278) object

ModifiedDate (p. 129)

The date the patch baseline was last modified.

Type: Timestamp

Name (p. 129)

The name of the patch baseline.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

PatchGroups (p. 129)

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. 129)

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.

Pattern: $(^KB[0-9]{1,7})|(^MS[0-9]{2}\\-[0-9]{3})$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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

HTTP Status Code: 400

See Also

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

GetPatchBaselineForPatchGroup

Retrieves the patch baseline that should be used for the specified patch group.

Request Syntax

```
{
    "PatchGroup": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

PatchGroup (p. 132)

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

Required: Yes

Response Syntax

```
{
    "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.

Baselineld (p. 132)

The ID of the patch baseline that should be used for the patch group.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

PatchGroup (p. 132)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

ListAssociations

Lists the associations for the specified Systems Manager document or instance.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AssociationFilterList (p. 134)

One or more filters. Use a filter to return a more specific list of results.

Type: array of AssociationFilter (p. 205) objects

Array Members: Minimum number of 1 item.

Required: No

MaxResults (p. 134)

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. Maximum value of 50.

Required: No

NextToken (p. 134)

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

Type: String Required: No

Response Syntax

Amazon EC2 Systems Manager API Reference Response Elements

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. 134)

The associations.

Type: array of Association (p. 201) objects

NextToken (p. 134)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

ListCommandInvocations

An invocation is 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 executes SendCommand against three instances, then a command invocation is created for each requested instance ID. ListCommandInvocations provide status about command execution.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

CommandId (p. 136)

(Optional) The invocations for a specific command ID.

Type: String

Length Constraints: Fixed length of 36.

Required: No

Details (p. 136)

(Optional) If set this returns the response of the command executions and any command output. By default this is set to False.

Type: Boolean Required: No

Filters (p. 136)

(Optional) One or more filters. Use a filter to return a more specific list of results.

Type: array of CommandFilter (p. 216) objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: No Instanceld (p. 136)

(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. 136)

(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

Valid Range: Minimum value of 1. Maximum value of 50.

```
Required: No NextToken (p. 136)
```

(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

```
"CommandInvocations": [
      "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",
      "InstanceId": "string",
      "InstanceName": "string",
      "NotificationConfig": {
         "NotificationArn": "string",
         "NotificationEvents": [ "string" ],
         "NotificationType": "string'
      "RequestedDateTime": number,
      "ServiceRole": "string",
      "StandardErrorUrl": "string",
      "StandardOutputUrl": "string",
      "Status": "string",
      "StatusDetails": "string",
      "TraceOutput": "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.

CommandInvocations (p. 137)

(Optional) A list of all invocations.

Type: array of CommandInvocation (p. 217) objects

NextToken (p. 137)

(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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidCommandId

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.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

ListCommands

Lists the commands requested by users of the AWS account.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

CommandId (p. 139)

(Optional) If provided, lists only the specified command.

Type: String

Length Constraints: Fixed length of 36.

Required: No

Filters (p. 139)

(Optional) One or more filters. Use a filter to return a more specific list of results.

Type: array of CommandFilter (p. 216) objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: No

Instanceld (p. 139)

(Optional) Lists commands issued against this instance ID.

Type: String

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

Required: No

MaxResults (p. 139)

(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

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken (p. 139)

(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

```
"Commands": [
   {
      "CommandId": "string",
      "Comment": "string",
      "CompletedCount": number,
      "DocumentName": "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" ]
      1
],
"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.

Commands (p. 140)

(Optional) The list of commands requested by the user.

Type: array of Command (p. 213) objects

NextToken (p. 140)

(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. 315).

InternalServerError

An error occurred on the server side.

Amazon EC2 Systems Manager API Reference See Also

HTTP Status Code: 400

InvalidCommandId

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.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

ListDocuments

Describes one or more of your SSM documents.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DocumentFilterList (p. 142)

One or more filters. Use a filter to return a more specific list of results.

Type: array of DocumentFilter (p. 229) objects

Array Members: Minimum number of 1 item.

Required: No

MaxResults (p. 142)

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. Maximum value of 50.

Required: No

NextToken (p. 142)

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

Type: String Required: No

Response Syntax

```
{
    "DocumentType": "string",
        "DocumentVersion": "string",
        "Name": "string",
        "Owner": "string",
        "PlatformTypes": [ "string" ],
        "SchemaVersion": "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. 142)

The names of the SSM documents.

Type: array of DocumentIdentifier (p. 230) objects

NextToken (p. 142)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidFilterKey

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

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

ListDocumentVersions

List all versions for a document.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

MaxResults (p. 144)

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. Maximum value of 50.

Required: No

Name (p. 144)

The name of the document about which you want version information.

Type: String

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

Required: Yes

NextToken (p. 144)

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

Type: String 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.

Amazon EC2 Systems Manager API Reference Errors

DocumentVersions (p. 144)

The document versions.

Type: array of DocumentVersionInfo (p. 232) objects

Array Members: Minimum number of 1 item.

NextToken (p. 144)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

InvalidNextToken

The specified token is not valid.

HTTP Status Code: 400

See Also

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

ListInventoryEntries

A list of inventory items returned by the request.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Filters (p. 146)

One or more filters. Use a filter to return a more specific list of results.

Type: array of InventoryFilter (p. 249) objects

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

Required: No

Instanceld (p. 146)

The instance ID for which you want inventory information.

Type: String

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

Required: Yes

MaxResults (p. 146)

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. Maximum value of 50.

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

TypeName (p. 146)

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

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. 147)

The time that inventory information was collected for the instance(s).

Type: String

Entries (p. 147)

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.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Instanceld (p. 147)

The instance ID targeted by the request to query inventory information.

Type: String

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

NextToken (p. 147)

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. 147)

The inventory schema version used by the instance(s).

Type: String

Pattern: ^([0-9]{1,6})(\.[0-9]{1,6})\$

TypeName (p. 147)

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. 315).

Amazon EC2 Systems Manager API Reference See Also

InternalServerError

An error occurred on the server side.

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

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

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

ListTagsForResource

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

Request Syntax

```
{
    "ResourceId": "string",
    "ResourceType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Resourceld (p. 149)

The resource ID for which you want to see a list of tags.

Type: String Required: Yes

ResourceType (p. 149)

Returns a list of tags for a specific resource type.

Type: String

Valid Values: ManagedInstance | MaintenanceWindow | Parameter

Required: Yes

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.

TagList (p. 149)

A list of tags.

Type: array of Tag (p. 289) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

Amazon EC2 Systems Manager API Reference See Also

HTTP Status Code: 400

InvalidResourceld

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. If you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

See Also

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

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"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AccountIdsToAdd (p. 151)

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. 151)

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. 151)

The name of the document that you want to share.

Type: String

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

Required: Yes

PermissionType (p. 151)

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

Type: String

Valid Values: Share 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. 315).

DocumentLimitExceeded

You can have at most 200 active SSM 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: 400

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

See Also

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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Instanceld (p. 153)

One or more instance IDs where you want to add or update inventory items.

Type: String

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

Required: Yes

Items (p. 153)

The inventory items that you want to add or update on instances.

Type: array of InventoryItem (p. 250) objects

Array Members: Minimum number of 1 item. Maximum number of 30 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. 315).

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: 400

Amazon EC2 Systems Manager API Reference See Also

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

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

TotalSizeLimitExceededException

The size of inventory data has exceeded the total size limit for the resource.

HTTP Status Code: 400

UnsupportedInventorySchemaVersionException

Inventory item type schema version has to match supported versions in the service. Check output of <code>GetInventorySchema</code> to see the available schema version for each type.

HTTP Status Code: 400

See Also

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

PutParameter

Add one or more paramaters to the system.

Request Syntax

```
{
  "Description": "string",
  "KeyId": "string",
  "Name": "string",
  "Overwrite": boolean,
  "Type": "string",
  "Value": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Description (p. 155)
Information about the parameter that you want to add to the system Type: String
Length Constraints: Minimum length of 1. Maximum length of 1024. Required: No

Keyld (p. 155)
The parameter key ID that you want to add to the system.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Pattern: ^([a-zA-z0-9:/_-]+)$
Required: No
```

Name (p. 155)

The name of the parameter that you want to add to the system.

Type: String

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

 $\textbf{Pattern: $$^{?!^{([aA][wW][sS]|[sS][mM]))(?=^{[a-zA-Z0-9_.-]*$).*$}}$

Required: Yes

Overwrite (p. 155)

Overwrite an existing parameter. If not specified, will default to "false".

Type: Boolean Required: No Type (p. 155)

The type of parameter that you want to add to the system.

Type: String

Valid Values: String | StringList | SecureString

Required: Yes

Value (p. 155)

The parameter value that you want to add to the system.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Amazon EC2 Systems Manager API Reference Response Elements

Pattern: ^(?:(?!(\{\{.*\}\})).)*\$

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidKeyld

The query key ID is not valid. 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

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

See Also

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

RegisterDefaultPatchBaseline

Defines the default patch baseline.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Baselineld (p. 157)

The ID of the patch baseline that should be the default patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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.

Baselineld (p. 157)

The ID of the default patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

Amazon EC2 Systems Manager API Reference See Also

InvalidResourceld

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

HTTP Status Code: 400

See Also

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

RegisterPatchBaselineForPatchGroup

Registers a patch baseline for a patch group.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Baselineld (p. 159)

The ID of the patch baseline to register the patch group with.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: Yes

PatchGroup (p. 159)

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

```
{
    "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.

Baselineld (p. 159)

The ID of the patch baseline the patch group was registered with.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

PatchGroup (p. 159)

The name of the patch group registered with the patch baseline.

Type: String

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

Amazon EC2 Systems Manager API Reference Errors

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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 (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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 limits (e.g. too many Maintenance Windows have been created).

HTTP Status Code: 400

See Also

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

RegisterTargetWithMaintenanceWindow

Registers a target with a Maintenance Window.

Request Syntax

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

ClientToken (p. 161)

User-provided idempotency token.

Type: String

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

Required: No

OwnerInformation (p. 161)

User-provided value that will be included in any CloudWatch events raised while running tasks for these targets in this Maintenance Window.

Type: String

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

Required: No

ResourceType (p. 161)

The type of target being registered with the Maintenance Window.

Type: String

Valid Values: INSTANCE

Required: Yes

Targets (p. 161)

The targets (either instances or tags). Instances are specified using

Key=instanceids, Values=<instanceid1>,<instanceid2>. Tags are specified using Key=<tag name>, Values=<tag value>.

Type: array of Target (p. 290) objects

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

Required: Yes

Windowld (p. 161)

The ID of the Maintenance Window the target should be registered with.

Type: String

Length Constraints: Fixed length of 20.

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. 162)

The ID of the target definition in this Maintenance Window.

Type: String

Length Constraints: Fixed length of 36.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

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: 400

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource limits (e.g. too many Maintenance Windows have been created).

HTTP Status Code: 400

See Also

- · AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- · AWS SDK for JavaScript
- · AWS SDK for PHP V3

Amazon EC2 Systems Manager API Reference See Also

- AWS SDK for Python
- AWS SDK for Ruby V2

RegisterTaskWithMaintenanceWindow

Adds a new task to a Maintenance Window.

Request Syntax

```
"ClientToken": "string",
"LoggingInfo": {
  "S3BucketName": "string",
  "S3KeyPrefix": "string",
  "S3Region": "string"
"MaxConcurrency": "string",
"MaxErrors": "string",
"Priority": number,
"ServiceRoleArn": "string",
"Targets": [
      "Key": "string",
      "Values": [ "string" ]
],
"TaskArn": "string",
"TaskParameters": {
  "string" : {
     "Values": [ "string" ]
},
"TaskType": "string",
"WindowId": "string"
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
ClientToken (p. 164)
```

User-provided idempotency token.

Type: String

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

Required: No

LoggingInfo (p. 164)

A structure containing information about an Amazon S3 bucket to write instance-level logs to.

Type: LoggingInfo (p. 255) object

Required: No

MaxConcurrency (p. 164)

The maximum number of targets this task can be run for in parallel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)\$

Required: Yes

MaxErrors (p. 164)

The maximum number of errors allowed before this task stops being scheduled.

Amazon EC2 Systems Manager API Reference Response Syntax

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7. Pattern: ([1-9][0-9]*|[0]|[1-9][0-9]*|[0-9]*|100*)\$

Required: Yes

Priority (p. 164)

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. 164)

The role that should be assumed when executing the task.

Type: String Required: Yes

Targets (p. 164)

The targets (either instances or tags). Instances are specified using

Key=instanceids, Values=<instanceid1>,<instanceid2>. Tags are specified using Key=<tag

name>, Values=<tag value>.

Type: array of Target (p. 290) objects

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

Required: Yes TaskArn (p. 164)

The ARN of the task to execute

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

TaskParameters (p. 164)

The parameters that should be passed to the task when it is executed.

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 266) object map

Required: No TaskType (p. 164)

The type of task being registered.

Type: String

Valid Values: RUN_COMMAND

Required: Yes Windowld (p. 164)

The id of the Maintenance Window the task should be added to.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

Response Syntax

```
{
    "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. 165)

The id of the task in the Maintenance Window.

Type: String

Length Constraints: Fixed length of 36.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

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: 400

ResourceLimitExceededException

Error returned when the caller has exceeded the default resource limits (e.g. too many Maintenance Windows have been created).

HTTP Status Code: 400

See Also

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

RemoveTagsFromResource

Removes all tags from the specified resource.

Request Syntax

```
{
    "ResourceId": "string",
    "ResourceType": "string",
    "TagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

Resourceld (p. 167)

The resource ID for which you want to remove tags.

Type: String Required: Yes

ResourceType (p. 167)

The type of resource of which you want to remove a tag.

Type: String

Valid Values: ManagedInstance | MaintenanceWindow | Parameter

Required: Yes TagKeys (p. 167)

Tag keys that you want to remove from the specified resource.

Type: array of Strings

Length Constraints: Minimum length of 1. Maximum length of 128. Pattern: $^(?!^(?i)aws:)(?=^[\p{L}\p{Z}\p{N}_.:/=+\-@]*$).*$$

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidResourceld

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. If you are attempting to tag an instance, the instance must be a registered, managed instance.

HTTP Status Code: 400

See Also

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

SendCommand

Executes commands on one or more remote instances.

Request Syntax

```
"Comment": "string",
"DocumentHash": "string",
"DocumentHashType": "string",
"DocumentName": "string",
"InstanceIds": [ "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 (p. 313).

The request accepts the following data in JSON format.

Comment (p. 169)

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. 169)

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. 169)

Sha256 or Sha1.

Amazon EC2 Systems Manager API Reference Request Parameters

Note

Sha1 hashes have been deprecated.

Type: String

Valid Values: Sha256 | Sha1

Required: No

DocumentName (p. 169)

Required. The name of the Systems Manager document to execute. This can be a public document or a custom document.

Type: String

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

Required: Yes InstanceIds (p. 169)

The instance IDs where the command should execute. You can specify a maximum of 50 IDs. If you prefer not to list individual instance IDs, you can instead send commands to a fleet of instances using

Type: array of Strings

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

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

the Targets parameter, which accepts EC2 tags.

Required: No

MaxConcurrency (p. 169)

(Optional) The maximum number of instances that are allowed to execute 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 Executing a Command Using Systems Manager Run Command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|100%)\$

Required: No MaxErrors (p. 169)

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 50. For more information about how to use MaxErrors, see Executing a Command Using Systems Manager Run Command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7. Pattern: ([1-9][0-9]*|[0]|[1-9][0-9]*|[0-9]*|100*)\$

Required: No

NotificationConfig (p. 169)

Configurations for sending notifications. Type: NotificationConfig (p. 267) object

Required: No

OutputS3BucketName (p. 169)

The name of the S3 bucket where command execution responses should be stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Required: No

OutputS3KeyPrefix (p. 169)

The directory structure within the S3 bucket where the responses should be stored.

Type: String

Amazon EC2 Systems Manager API Reference Response Syntax

Length Constraints: Maximum length of 500.

Required: No

OutputS3Region (p. 169)

(Optional) The region where the Amazon Simple Storage Service (Amazon S3) output bucket is located. The default value is the region where Run Command is being called.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 20.

Required: No

Parameters (p. 169)

The required and optional parameters specified in the document being executed.

Type: String to array of Strings map

Required: No

ServiceRoleArn (p. 169)

The IAM role that Systems Manager uses to send notifications.

Type: String Required: No

Targets (p. 169)

(Optional) An array of search criteria that targets instances using a <code>Key,Value</code> combination that you specify. <code>Targets</code> is required if you don't provide one or more instance IDs in the call. For more information about how to use <code>Targets</code>, see Executing a Command Using Systems Manager Run Command.

Type: array of Target (p. 290) objects

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

Required: No

TimeoutSeconds (p. 169)

If this time is reached and the command has not already started executing, it will not execute.

Type: Integer

Valid Range: Minimum value of 30. Maximum value of 2592000.

Required: No

Response Syntax

```
"Command": {
  "CommandId": "string",
  "Comment": "string",
  "CompletedCount": number,
  "DocumentName": "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" ]
  },
```

Amazon EC2 Systems Manager API Reference Response Elements

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. 171)

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. 213) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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: 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.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

Invalid Output Folder

The S3 bucket does not exist.

HTTP Status Code: 400

Amazon EC2 Systems Manager API Reference See Also

InvalidParameters

You must specify values for all required parameters in the SSM document. You can only supply values to parameters defined in the SSM 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 Amazon EC2 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.

HTTP Status Code: 400

See Also

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

StartAutomationExecution

Initiates execution of an Automation document.

Request Syntax

```
{
    "DocumentName": "string",
    "DocumentVersion": "string",
    "Parameters": {
        "string" : [ "string" ]
    }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

DocumentName (p. 174)

The name of the Automation document to use for this execution.

Type: String

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

Required: Yes

DocumentVersion (p. 174)

The version of the Automation document to use for this execution.

Type: String

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

Required: No Parameters (p. 174)

A key-value map of execution parameters, which match the declared parameters in the Automation document.

Type: String to array of Strings map

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

Length Constraints: Minimum length of 1. Maximum length of 512.

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. 174)

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. 315).

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

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

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

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

StopAutomationExecution

Stop an Automation that is currently executing.

Request Syntax

```
{
    "AutomationExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AutomationExecutionId (p. 176)

The execution ID of the Automation to stop.

Type: String

Length Constraints: Fixed length of 36.

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. 315).

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: 400

See Also

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

UpdateAssociation

Updates an association. You can only update the document version, schedule, parameters, and Amazon S3 output of an association.

Request Syntax

```
{
   "AssociationId": "string",
   "DocumentVersion": "string",
   "OutputLocation": {
        "OutputS3BucketName": "string",
        "OutputS3KeyPrefix": "string",
        "OutputS3Region": "string"
     }
},
   "Parameters": {
        "string" : [ "string" ]
},
   "ScheduleExpression": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AssociationId (p. 177)

The ID of the association you want to update.

Type: String

 $\textbf{Pattern:} \ [0-9a-fA-F]\{8\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F][4]+[0-9a-fA-F]+[0-9a-fA$

Required: Yes

DocumentVersion (p. 177)

The document version you want update for the association.

Type: String

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

Required: No

OutputLocation (p. 177)

An Amazon S3 bucket where you want to store the results of this request.

```
"{ \"S3Location\": { \"OutputS3Region\": \"<region>\", \"OutputS3BucketName\": \"bucket name\", \"OutputS3KeyPrefix\": \"folder name\" } }"
```

Type: InstanceAssociationOutputLocation (p. 237) object

Required: No

Parameters (p. 177)

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. 177)

The cron expression used to schedule the association that you want to update. Supported expressions are every half, 1, 2, 4, 8 or 12 hour(s); every specified day and time of the week. For example: cron(0

0/30 * 1/1 * ? *) to run every thirty minutes; cron(0 0 0/4 1/1 * ? *) to run every four hours; and cron(0 0 10 ? * SUN *) to run every Sunday at 10 a.m.

Type: String

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

Required: No

Response Syntax

```
"AssociationDescription": {
  "AssociationId": "string",
  "Date": number,
  "DocumentVersion": "string",
  "InstanceId": "string",
   "LastExecutionDate": number,
   "LastSuccessfulExecutionDate": number,
   "LastUpdateAssociationDate": number,
   "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"
   "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.

AssociationDescription (p. 178)

The description of the association that was updated.

Type: AssociationDescription (p. 203) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

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 SSM document. You can only supply values to parameters defined in the SSM document.

HTTP Status Code: 400

InvalidSchedule

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

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

See Also

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

UpdateAssociationStatus

Updates the status of the Systems Manager document associated with the specified instance.

Request Syntax

```
{
   "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. 313).

The request accepts the following data in JSON format.

```
AssociationStatus (p. 180)
The association status.
Type: AssociationStatus (p. 207) object
Required: Yes
InstanceId (p. 180)
The ID of the instance.
Type: String
Pattern: (^i-(\w{8}|\w{17})$)|(^mi-\w{17}$)
Required: Yes
Name (p. 180)
The name of the SSM document.
Type: String
Pattern: ^[a-zA-z0-9_\-.]{3,128}$
Required: Yes
```

Response Syntax

```
}
      "Overview": {
        "AssociationStatusAggregatedCount": {
            "string" : number
         "DetailedStatus": "string",
         "Status": "string"
      "Parameters": {
         "string" : [ "string" ]
      "ScheduleExpression": "string",
      "Status": {
         "AdditionalInfo": "string",
         "Date": number,
         "Message": "string",
         "Name": "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.

AssociationDescription (p. 180)

Information about the association.

Type: AssociationDescription (p. 203) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

AssociationDoesNotExist

The specified association does not exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

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.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

Amazon EC2 Systems Manager API Reference See Also

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

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

UpdateDocument

The document you want to update.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
Content (p. 183)
```

The content in a document that you want to update.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

DocumentVersion (p. 183)

The version of the document that you want to update.

Type: String

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

Required: No

Name (p. 183)

The name of the document that you want to update.

Type: String

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

Required: Yes

Response Syntax

```
"DocumentDescription": {
  "CreatedDate": number,
  "DefaultVersion": "string",
  "Description": "string",
  "DocumentType": "string",
   "DocumentVersion": "string",
   "Hash": "string",
   "HashType": "string",
   "LatestVersion": "string",
  "Name": "string",
   "Owner": "string",
   "Parameters": [
         "DefaultValue": "string",
         "Description": "string",
         "Name": "string",
         "Type": "string"
```

Amazon EC2 Systems Manager API Reference Response Elements

```
],
   "PlatformTypes": [ "string" ],
   "SchemaVersion": "string",
   "Shal": "string",
   "Status": "string"
}
```

Response Elements

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

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

DocumentDescription (p. 183)

A description of the document that was updated.

Type: DocumentDescription (p. 227) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

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

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidDocument

The specified document does not exist.

HTTP Status Code: 400

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

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

See Also

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

• AWS Command Line Interface

Amazon EC2 Systems Manager API Reference See Also

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

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. 313).

The request accepts the following data in JSON format.

DocumentVersion (p. 186)

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. 186)

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",
        "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. 186)

The description of a custom document that you want to set as the default version.

Type: DocumentDefaultVersionDescription (p. 226) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

InternalServerError

An error occurred on the server side.

Amazon EC2 Systems Manager API Reference See Also

HTTP Status Code: 400

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

See Also

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

UpdateMaintenanceWindow

Updates an existing Maintenance Window. Only specified parameters are modified.

Request Syntax

```
{
    "AllowUnassociatedTargets": boolean,
    "Cutoff": number,
    "Duration": number,
    "Enabled": boolean,
    "Name": "string",
    "Schedule": "string",
    "WindowId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

AllowUnassociatedTargets (p. 188)

Whether targets must be registered with the Maintenance Window before tasks can be defined for those targets.

Type: Boolean Required: No

Cutoff (p. 188)

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 **Duration (p. 188)**

The duration of the Maintenance Window in hours.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Required: No Enabled (p. 188)

Whether the Maintenance Window is enabled.

Type: Boolean Required: No Name (p. 188)

The name of the Maintenance Window.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Required: No Schedule (p. 188)

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.

Amazon EC2 Systems Manager API Reference Response Syntax

Required: No Windowld (p. 188)

The ID of the Maintenance Window to update.

Type: String

Length Constraints: Fixed length of 20.

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

Required: Yes

Response Syntax

```
{
    "AllowUnassociatedTargets": boolean,
    "Cutoff": number,
    "Duration": number,
    "Enabled": boolean,
    "Name": "string",
    "Schedule": "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. 189)

Whether targets must be registered with the Maintenance Window before tasks can be defined for those targets.

Type: Boolean

Cutoff (p. 189)

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.

Duration (p. 189)

The duration of the Maintenance Window in hours.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Enabled (p. 189)

Whether the Maintenance Window is enabled.

Type: Boolean

Name (p. 189)

The name of the Maintenance Window.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Schedule (p. 189)

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.

Amazon EC2 Systems Manager API Reference Errors

Windowld (p. 189)

The ID of the created Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

UpdateManagedInstanceRole

Assigns or changes an Amazon Identity and Access Management (IAM) role to the managed instance.

Request Syntax

```
{
    "IamRole": "string",
    "InstanceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

lamRole (p. 191)

The IAM role you want to assign or change.

Type: String

Length Constraints: Maximum length of 64.

Required: Yes Instanceld (p. 191)

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. 315).

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

InvalidInstanceId

The following problems can cause this exception:

You do not have permission to access the instance.

The SSM Agent is not running. On managed instances and Linux instances, verify that the SSM Agent is running. On EC2 Windows instances, verify that the EC2Config service is running.

The SSM Agent or EC2Config service is not registered to the SSM endpoint. Try reinstalling the SSM Agent or EC2Config service.

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

See Also

Amazon EC2 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
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

UpdatePatchBaseline

Modifies an existing patch baseline. Fields not specified in the request are left unchanged.

Request Syntax

```
"ApprovalRules": {
   "PatchRules": [
         "ApproveAfterDays": number,
         "PatchFilterGroup": {
            "PatchFilters": [
                  "Key": "string",
                  "Values": [ "string" ]
   ]
"ApprovedPatches": [ "string" ],
"BaselineId": "string",
"Description": "string",
"GlobalFilters": {
   "PatchFilters": [
         "Key": "string",
         "Values": [ "string" ]
   1
"Name": "string",
"RejectedPatches": [ "string" ]
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 313).

The request accepts the following data in JSON format.

```
ApprovalRules (p. 193)
```

A set of rules used to include patches in the baseline.

Type: PatchRuleGroup (p. 282) object

Required: No

ApprovedPatches (p. 193)

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.

Pattern: $(^{KB}[0-9]\{1,7\}\$) | (^{MS}[0-9]\{2\}\-[0-9]\{3\}\$)$

Required: No

Baselineld (p. 193)

The ID of the patch baseline to update.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

Amazon EC2 Systems Manager API Reference Response Syntax

```
Pattern: ^[a-zA-Z0-9_\-:/]{20,128}$
   Required: Yes
Description (p. 193)
   A description of the patch baseline.
    Type: String
   Length Constraints: Minimum length of 1. Maximum length of 1024.
    Required: No
GlobalFilters (p. 193)
   A set of global filters used to exclude patches from the baseline.
    Type: PatchFilterGroup (p. 278) object
    Required: No
Name (p. 193)
   The name of the patch baseline.
   Type: String
   Length Constraints: Minimum length of 3. Maximum length of 128.
   Pattern: ^[a-zA-Z0-9_\-.]{3,128}$
    Required: No
RejectedPatches (p. 193)
    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.
    Pattern: (^KB[0-9]{1,7}$)|(^MS[0-9]{2}\-[0-9]{3}$)
    Required: No
```

Response Syntax

```
"ApprovalRules": {
   "PatchRules": [
         "ApproveAfterDays": number,
         "PatchFilterGroup": {
            "PatchFilters": [
                  "Key": "string",
                  "Values": [ "string" ]
      }
   ]
"ApprovedPatches": [ "string" ],
"BaselineId": "string",
"CreatedDate": number,
"Description": "string",
"GlobalFilters": {
   "PatchFilters": [
         "Key": "string",
         "Values": [ "string" ]
},
```

Amazon EC2 Systems Manager API Reference Response Elements

```
"ModifiedDate": number,
"Name": "string",
"RejectedPatches": [ "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.

ApprovalRules (p. 194)

A set of rules used to include patches in the baseline.

Type: PatchRuleGroup (p. 282) object

ApprovedPatches (p. 194)

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.

Pattern: $(^{KB[0-9]}{1,7}$)|(^{MS[0-9]}{2}\\-[0-9]{3}$)$

Baselineld (p. 194)

The ID of the deleted patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

CreatedDate (p. 194)

The date when the patch baseline was created.

Type: Timestamp

Description (p. 194)

A description of the Patch Baseline.

Type: String

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

GlobalFilters (p. 194)

A set of global filters used to exclude patches from the baseline.

Type: PatchFilterGroup (p. 278) object

ModifiedDate (p. 194)

The date when the patch baseline was last modified.

Type: Timestamp

Name (p. 194)

The name of the patch baseline.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

RejectedPatches (p. 194)

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.

Pattern: $(^KB[0-9]{1,7}$)|(^MS[0-9]{2}\-[0-9]{3}$)$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 315).

Amazon EC2 Systems Manager API Reference See Also

DoesNotExistException

Error returned when the ID specified for a resource (e.g. a Maintenance Window) doesn't exist.

HTTP Status Code: 400

InternalServerError

An error occurred on the server side.

HTTP Status Code: 400

See Also

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

Data Types

The Amazon Simple Systems Management Service API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- Activation (p. 199)
- Association (p. 201)
- AssociationDescription (p. 203)
- AssociationFilter (p. 205)
- AssociationOverview (p. 206)
- AssociationStatus (p. 207)
- AutomationExecution (p. 208)
- AutomationExecutionFilter (p. 210)
- AutomationExecutionMetadata (p. 211)
- Command (p. 213)
- CommandFilter (p. 216)
- CommandInvocation (p. 217)
- CommandPlugin (p. 220)
- CreateAssociationBatchRequestEntry (p. 223)
- DescribeActivationsFilter (p. 225)
- DocumentDefaultVersionDescription (p. 226)
- DocumentDescription (p. 227)
- DocumentFilter (p. 229)
- DocumentIdentifier (p. 230)
- DocumentParameter (p. 231)
- DocumentVersionInfo (p. 232)
- EffectivePatch (p. 233)
- FailedCreateAssociation (p. 234)
- InstanceAggregatedAssociationOverview (p. 235)
- InstanceAssociation (p. 236)

- InstanceAssociationOutputLocation (p. 237)
- InstanceAssociationOutputUrl (p. 238)
- InstanceAssociationStatusInfo (p. 239)
- InstanceInformation (p. 241)
- InstanceInformationFilter (p. 244)
- InstanceInformationStringFilter (p. 245)
- InstancePatchState (p. 246)
- InstancePatchStateFilter (p. 248)
- InventoryFilter (p. 249)
- InventoryItem (p. 250)
- InventoryItemAttribute (p. 251)
- InventoryItemSchema (p. 252)
- InventoryResultEntity (p. 253)
- InventoryResultItem (p. 254)
- LoggingInfo (p. 255)
- MaintenanceWindowExecution (p. 256)
- MaintenanceWindowExecutionTaskIdentity (p. 257)
- MaintenanceWindowExecutionTaskInvocationIdentity (p. 259)
- MaintenanceWindowFilter (p. 261)
- MaintenanceWindowldentity (p. 262)
- MaintenanceWindowTarget (p. 263)
- MaintenanceWindowTask (p. 264)
- MaintenanceWindowTaskParameterValueExpression (p. 266)
- NotificationConfig (p. 267)
- Parameter (p. 268)
- ParameterHistory (p. 269)
- ParameterMetadata (p. 271)
- ParametersFilter (p. 272)
- Patch (p. 273)
- PatchBaselineIdentity (p. 275)
- PatchComplianceData (p. 276)
- PatchFilter (p. 277)
- PatchFilterGroup (p. 278)
- PatchGroupPatchBaselineMapping (p. 279)
- PatchOrchestratorFilter (p. 280)
- PatchRule (p. 281)
- PatchRuleGroup (p. 282)
- PatchStatus (p. 283)
- ResultAttribute (p. 284)
- S3OutputLocation (p. 285)
- S3OutputUrl (p. 286)
- StepExecution (p. 287)
- Tag (p. 289)
- Target (p. 290)

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

See Also

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

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

 $\textbf{Pattern:} \ [0-9a-fA-F]\{8\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F][4]+[0-9a-fA-F]+[0$

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 SSM document.

Type: String

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

Required: No

Overview

Information about the association.

Type: AssociationOverview (p. 206) object

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

Targets

The instances targeted by the request to create an association.

Type: array of Target (p. 290) objects

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

Required: No

See Also

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

Association Description

Describes the parameters for a document.

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

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

Instanceld

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

Name

The name of the SSM document.

Type: String

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

Required: No OutputLocation

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

Type: InstanceAssociationOutputLocation (p. 237) object

Required: No

Overview

Information about the association.

Type: AssociationOverview (p. 206) 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

Status

The association status.

Type: AssociationStatus (p. 207) object

Required: No

Targets

The instances targeted by the request. Type: array of Target (p. 290) objects

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

Required: No

See Also

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

AssociationFilter

Describes a filter.

Contents

```
key
```

The name of the filter.

Type: String

Valid Values: InstanceId | Name | AssociationId | AssociationStatusName |

LastExecutedBefore | LastExecutedAfter

Required: Yes

value

The filter value.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

See Also

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

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

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

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

Required: Yes

Name

The status.

Type: String

Valid Values: Pending | Success | Failed

Required: Yes

See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

AutomationExecution

Detailed information about the current state of an individual Automation execution.

Contents

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 | Success | TimedOut | Cancelled | Failed

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

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

Outputs

The list of execution outputs as defined in the automation document.

Type: String to array of Strings map

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

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Parameters

The key-value map of execution parameters, which were supplied when calling StartAutomationExecution.

Type: String to array of Strings map

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

Length Constraints: Minimum length of 1. Maximum length of 512.

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 executed in order.

Type: array of StepExecution (p. 287) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

See Also

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

AutomationExecutionFilter

A filter used to match specific automation executions. This is used to limit the scope of Automation execution information returned.

Contents

Key

The aspect of the Automation execution information that should be limited.

Type: String

Valid Values: DocumentNamePrefix | ExecutionStatus

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

AutomationExecutionMetadata

Details about a specific Automation execution.

Contents

AutomationExecutionId

The execution ID. Type: String

Length Constraints: Fixed length of 36.

Required: No

AutomationExecutionStatus

The status of the execution. Valid values include: Running, Succeeded, Failed, Timed out, or

Cancelled.
Type: String

Valid Values: Pending | InProgress | Success | TimedOut | Cancelled | Failed

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 executed 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

LogFile

An Amazon S3 bucket where execution information is stored.

Type: String Required: No

Outputs

The list of execution outputs as defined in the Automation document.

Type: String to array of Strings map

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

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

See Also

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

Command

Describes a command request.

Contents

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, Of Undeliverable.

Type: Integer Required: No

DocumentName

The name of the document requested for execution.

Type: String

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

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 executing, it will not execute. Calculated based on the ExpiresAfter user input provided as part of the SendCommand API.

Type: Timestamp Required: No

Instancelds

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 execute 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 Executing a Command Using Systems Manager Run Command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

Amazon EC2 Systems Manager API Reference Contents

Pattern: ^([1-9][0-9]*|[1-9][0-9]%|[1-9]%|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 or errors, such as 10%. The default value is 50. For more information about how to use MaxErrors, see Executing a Command Using Systems Manager Run Command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7. 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. 267) 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

Length Constraints: Minimum length of 3. Maximum length of 63.

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

The region where the Amazon Simple Storage Service (Amazon S3) output bucket is located. The default value is the region where Run Command is being called.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 20.

Required: No

Parameters

The parameter values to be inserted in the document when executing 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 Required: No

Status

The status of the command.

Type: String

Valid Values: Pending | InProgress | Success | Cancelled | Failed | TimedOut | Cancelling Required: No

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 Run Command Status. 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 executed 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 executing it on any instance. This is a terminal state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

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. 290) objects

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

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

CommandFilter

Describes a command filter.

Contents

key

The name of the filter. For example, requested date and time.

Type: String

 $\begin{tabular}{ll} Valid Values: {\tt InvokedAfter | InvokedBefore | Status} \end{tabular}$

Required: Yes

value

The filter value. For example: June 30, 2015.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

See Also

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

CommandInvocation

An invocation is 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 executes 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 executed.

Contents

CommandId

The command against which this invocation was requested.

Type: String

Length Constraints: Fixed length of 36.

Required: No

CommandPlugins

Type: array of CommandPlugin (p. 220) 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

Instanceld

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 Amazon EC2 instances this is the value for the <code>aws:Name</code> 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. 267) 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.

Amazon EC2 Systems Manager API Reference Contents

Type: String Required: No

StandardErrorUrl

The URL to the plugin's StdErr file in Amazon S3, if the Amazon S3 bucket was defined for the parent command. For an invocation, <code>standardErrorUrl</code> is populated if there is just one plugin defined for the command, and the Amazon 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 Amazon 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 Amazon 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 Run Command Status. 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

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

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

Length Constraints: Minimum length of 4.

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:

test_folder/ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix/i-1234567876543/awsrunShellScript

test_folder is the name of the Amazon S3 bucket;

ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix is the name of the S3 prefix;

i-1234567876543 is the instance ID;

awsrunShellScript is the name of the plugin.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

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:

test_folder/ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix/i-1234567876543/awsrunShellScript

 ${\tt test_folder}$ is the name of the Amazon S3 bucket;

ab19cb99-a030-46dd-9dfc-8eSAMPLEPre-Fix is the name of the S3 prefix;

i-1234567876543 is the instance ID;

 ${\tt awsrunShellScript} \ \ \textbf{is the name of the plugin}.$

Type: String

Length Constraints: Maximum length of 500.

Required: No OutputS3Region

The name of the region where the output is stored in Amazon S3.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 20.

Required: No

ResponseCode

A numeric response code generated after executing the plugin.

Type: Integer Required: No

Amazon EC2 Systems Manager API Reference Contents

ResponseFinishDateTime

The time the plugin stopped executing. Could stop prematurely if, for example, a cancel command was sent.

Type: Timestamp Required: No

ResponseStartDateTime

The time the plugin started executing.

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 Amazon 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 execute 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 Run Command Status. 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 MAXETTOTS 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

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

CreateAssociationBatchRequestEntry

Describes the association of a Systems Manager document and an instance.

Contents

DocumentVersion

The document version.

Type: String

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

Required: No

Instanceld

The ID of the instance.

Type: String

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

Required: No

Name

The name of the configuration document.

Type: String

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

Required: Yes

OutputLocation

An Amazon S3 bucket where you want to store the results of this request.

Type: InstanceAssociationOutputLocation (p. 237) 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

Targets

The instances targeted by the request.

Type: array of Target (p. 290) objects

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

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

Amazon EC2 Systems Manager API Reference See Also	

DescribeActivationsFilter

Filter for the DescribeActivation API.

Contents

FilterKey

The name of the filter.

Type: String

Required: No

FilterValues

The filter values.

Type: array of Strings

Required: No

See Also

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

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

Name

The name of the document.

Type: String

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

Required: No

See Also

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

DocumentDescription

Describes an SSM document.

Contents

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

DocumentType

The type of document.

Type: String

Valid Values: Command | Policy | Automation

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

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 SSM document.

Type: String

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

Required: No

Owner

The AWS user account of the person who created the document.

Type: String Required: No

Parameters

A description of the parameters for a document.

Type: array of DocumentParameter (p. 231) objects

Required: No **PlatformTypes**

The list of OS platforms compatible with this SSM document.

Type: array of Strings

Valid Values: Windows | Linux

Required: No

SchemaVersion

The schema version.

Type: String

Pattern: ([0-9]+)\.([0-9]+)

Required: No

Sha1

The SHA1 hash of the document, which you can use for verification purposes.

Type: String Required: No

Status

The status of the SSM document.

Type: String

 $\begin{tabular}{lll} Values: Creating & | Active & | Updating & | Deleting \\ \end{tabular}$

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

DocumentFilter

Describes a filter.

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

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

DocumentIdentifier

Describes the name of an SSM document.

Contents

DocumentType

The document type.

Type: String

 $\begin{tabular}{lll} Values: {\tt Command} & | & {\tt Policy} & | & {\tt Automation} \\ \end{tabular}$

Required: No

DocumentVersion

The document version.

Type: String

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

Required: No

Name

The name of the SSM document.

Type: String

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

Required: No

Owner

The AWS user account of the person who created the document.

Type: String Required: No

PlatformTypes

The operating system platform.

Type: array of Strings

Valid Values: Windows | Linux

Required: No **SchemaVersion**

The schema version.

Type: String

Pattern: ([0-9]+)\.([0-9]+)

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

DocumentParameter

Parameters specified in a System Manager document that execute 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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

DocumentVersionInfo

Version information about the document.

Contents

CreatedDate

The date the document was created.

Type: Timestamp 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

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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. 273) 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. 283) object

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

FailedCreateAssociation

Describes a failed association.

Contents

Entry

The association.

Type: CreateAssociationBatchRequestEntry (p. 223) 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

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

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

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

InstanceAssociation

One or more association documents on the instance.

Contents

AssociationId

The association ID.

Type: String

 $\textbf{Pattern:} \ \, [\, 0 - 9a - fA - F \,] \, \{ 8 \} - [\, 0 - 9a - fA - F \,] \, \{ 4 \} - [\, 0 - 9a -$

Required: No

Content

The content of the association document for the instance(s).

Type: String

Length Constraints: Minimum length of 1.

Required: No

Instanceld

The instance ID. Type: String

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

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

InstanceAssociationOutputLocation

An Amazon S3 bucket where you want to store the results of this request.

Contents

S3Location

An Amazon S3 bucket where you want to store the results of this request.

Type: S3OutputLocation (p. 285) object

Required: No

See Also

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

InstanceAssociationOutputUrl

The URL of Amazon S3 bucket where you want to store the results of this request.

Contents

S3OutputUrl

The URL of Amazon S3 bucket where you want to store the results of this request.

Type: S3OutputUrl (p. 286) object

Required: No

See Also

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

InstanceAssociationStatusInfo

Status information about the instance association.

Contents

AssociationId

The association ID.

Type: String

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

Required: No

DetailedStatus

Detailed status information about the instance association.

Type: String Required: No

DocumentVersion

The association document verions.

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 executed.

Type: Timestamp Required: No

ExecutionSummary

Summary information about association execution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

Instanceld

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 Amazon S3 bucket where you want to store the results of this request.

Type: InstanceAssociationOutputUrl (p. 238) object

Required: No

Amazon EC2 Systems Manager API Reference See Also

Status

Status information about the instance association.

Type: String Required: No

See Also

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

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 the 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. 235) object

Required: No AssociationStatus

The status of the second

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 EC2 instances or managed

instances.

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 latest version of the SSM Agent is running on your instance.

Type: Boolean Required: No

LastAssociationExecutionDate

The date the association was last executed.

Type: Timestamp Required: No

LastPingDateTime

The date and time when agent last pinged Systems Manager service.

Type: Timestamp Required: No

LastSuccessfulAssociationExecutionDate

The last date the association was successfully run.

Type: Timestamp Required: No

Name

The name of the managed instance.

Type: String Required: No

PingStatus

Connection status of the SSM Agent.

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:

• AWS SDK for C++

Amazon EC2 Systems Manager API Reference See Also

- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

InstanceInformationFilter

Describes a filter for a specific list of instances.

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

InstanceInformationStringFilter

The filters to describe or get information about your managed instances.

Contents

Key

The filter key name to describe your instances. For example:

"InstanceIds"|"AgentVersion"|"PingStatus"|"PlatformTypes"|"ActivationIds"|"IamRole"|"ResourceType"|"AssociationSt Key"

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

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: Yes

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

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 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 hence aren't installed on the instance.

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.

Amazon EC2 Systems Manager API Reference See Also

Type: Timestamp Required: Yes OperationStartTime

The time the most recent patching operation was started on the instance.

Type: Timestamp Required: Yes OwnerInformation

Placeholder information, this field will always be empty in the current release of the service.

Type: String

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

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

Snapshotld

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

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

InstancePatchStateFilter

Defines a filter used in DescribeInstancePatchStatesForPatchGroup 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

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

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

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

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

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

Required: Yes

Type

The type of filter. Valid values include the following:

"Equal"|"NotEqual"|"BeginWith"|"LessThan"|"GreaterThan"

Type: String

Valid Values: Equal | NotEqual | BeginWith | LessThan | GreaterThan

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 20 items.

Required: Yes

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

InventoryItem

Information collected from managed instances based on your inventory policy document

Contents

CaptureTime

The time the inventory information was collected.

Type: String

 $\textbf{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.

Length Constraints: Minimum length of 0. Maximum length of 1024.

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 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

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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

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

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. 251) objects

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

Required: Yes

TypeName

The name of the inventory type. Default inventory item type names start with ${\tt AWS}$. Custom inventory type names will start with ${\tt Custom}$. Default inventory item types include the following:

 ${\tt AWS:AWSComponent,\,AWS:Application,\,AWS:InstanceInformation,\,AWS:Network,\,\textbf{and}}$

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})\$

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

InventoryResultEntity

Inventory query results.

Contents

Data

The data section in the inventory result entity json.

Type: String to InventoryResultItem (p. 254) object map

Required: No

ld

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

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

InventoryResultItem

The inventory result item.

Contents

CaptureTime

The time inventory item data was captured.

Type: String

 $\textbf{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

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.

Length Constraints: Minimum length of 0. Maximum length of 1024.

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

LoggingInfo

Information about an Amazon S3 bucket to write instance-level logs to.

Contents

S3BucketName

The name of an Amazon S3 bucket where execution logs are stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Required: Yes

S3KeyPrefix

(Optional) The Amazon S3 bucket subfolder.

Type: String

Length Constraints: Maximum length of 500.

Required: No

S3Region

The region where the Amazon S3 bucket is located.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 20.

Required: Yes

See Also

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

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: $^{0-9a-fA-F}_{4} - ^{0-9a-fA-F}_{4} - ^{$

{12}\$

Required: No

Windowld

The ID of the Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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 executed task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No TaskExecutionId

The ID of the specific task execution in the Maintenance Window execution.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Required: No

TaskType

The type of executed task.

Type: String

Valid Values: RUN_COMMAND

Required: No

WindowExecutionId

The ID of the Maintenance Window execution that ran the task.

Type: String

Length Constraints: Fixed length of 36.

 $\textbf{Pattern: } \\ \cite{A-F} & \$

{12}\$

Required: No

Amazon EC2 Systems Manager API Reference See Also

See Also

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

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.

 $\textbf{Pattern: $$^{0-9a-fA-F}_{8}\to [0-9a-fA-F]_{4}\to [0-9a-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

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

Required: No

Parameters

The parameters that were provided for the invocation when it was executed.

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

Amazon EC2 Systems Manager API Reference See Also

TaskExecutionId

The ID of the specific task execution in the Maintenance Window execution.

Type: String

Length Constraints: Fixed length of 36.

{12}\$

Required: No WindowExecutionId

The ID of the Maintenance Window execution that ran the task.

Type: String

Length Constraints: Fixed length of 36.

 $\textbf{Pattern: } \\ \cite{A-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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

MaintenanceWindowFilter

Filter used in the request.

Contents

Key

The name of the filter.

Type: String

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

Required: No

Values

The filter values.

Type: array of Strings

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

Required: No

See Also

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

MaintenanceWindowldentity

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

Duration

The duration of the Maintenance Window in hours.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Required: No

Enabled

Whether the Maintenance Window is enabled.

Type: Boolean Required: No

Name

The name of the Maintenance Window.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: $^{a-zA-z0-9}-.]{3,128}$

Required: No

Windowld

The ID of the Maintenance Window.

Type: String

Length Constraints: Fixed length of 20.

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

Required: No

See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

MaintenanceWindowTarget

The target registered with the Maintenance Window.

Contents

OwnerInformation

User-provided value that will be included in any CloudWatch events raised while running tasks for these targets in this Maintenance Window.

Type: String

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

Required: No

ResourceType

The type of target.

Type: String

Valid Values: INSTANCE

Required: No

Targets

The targets (either instances or tags). Instances are specified using

Key=instanceids, Values=<instanceid1>,<instanceid2>. Tags are specified using Key=<tag

name>, Values=<tag value>.

Type: array of Target (p. 290) objects

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

Required: No

Windowld

The Maintenance Window ID where the target is registered.

Type: String

Length Constraints: Fixed length of 20.

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

Required: No

WindowTargetId

The ID of the target.

Type: String

Length Constraints: Fixed length of 36.

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

{12}\$

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

MaintenanceWindowTask

Information about a task defined for a Maintenance Window.

Contents

LoggingInfo

Information about an Amazon S3 bucket to write task-level logs to.

Type: LoggingInfo (p. 255) object

Required: No MaxConcurrency

The maximum number of targets this task can be run for in parallel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 7.

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

Length Constraints: Minimum length of 1. Maximum length of 7. Pattern: ([1-9][0-9]*|[0]|[1-9][0-9]*|[0-9]*|100*)\$

Required: No

Priority

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

The role that should be assumed when executing the task

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=<tag name>, Values=<tag value>.

Type: array of Target (p. 290) objects

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

Required: No

TaskArn

The ARN of the task to execute.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

TaskParameters

The parameters that should be passed to the task when it is executed.

Type: String to MaintenanceWindowTaskParameterValueExpression (p. 266) object map

Required: No

Amazon EC2 Systems Manager API Reference See Also

Type

The type of task. Type: String

Valid Values: RUN_COMMAND

Required: No

Windowld

The Maintenance Window ID where the task is registered.

Type: String

Length Constraints: Fixed length of 20.

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

Required: No WindowTaskId

The task ID. Type: String

Length Constraints: Fixed length of 36.

 $\textbf{Pattern: } \\ \cite{A-F} & \$

{12}\$

Required: No

See Also

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

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

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

NotificationConfig

Configurations for sending notifications.

Contents

NotificationArn

An Amazon Resource Name (ARN) for a Simple Notification Service (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 Setting Up Events and Notifications in the *Amazon EC2 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

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

Parameter

An Amazon EC2 Systems Manager parameter in Parameter Store.

Contents

Name

The name of the parameter.

Type: String

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

Pattern: ^(?!^([aA][wW][sS]|[sS][sS][mM]))(?=^[a-zA-Z0-9_.-]*\$).*\$

Required: No

Type

The type of parameter. Valid values include the following: String, String list, Secure string.

Type: String

Valid Values: String | StringList | SecureString

Required: No

Value

The parameter value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: ^(?:(?!(\{\{.*\}\})).)*\$

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

ParameterHistory

Information about parameter usage.

Contents

Description

Information about the parameter.

Type: String

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

Required: No

Keyld

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 name of the parameter.

Type: String

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

 $\textbf{Pattern: $$^{?!^{([aA][wW][sS]|[sS][mM]))(?=^{[a-zA-Z0-9_.-]*$).*$}}$

Required: No

Type

The type of parameter used.

Type: String

Valid Values: String | StringList | SecureString

Required: No

Value

The parameter value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: ^(?:(?!(\{\{.*\}\})).)*\$

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go

Amazon EC2 Systems Manager API Reference See Also

- AWS SDK for Java
- AWS SDK for Ruby V2

ParameterMetadata

Metada includes information like the ARN of the last user and the date/time the parameter was last used.

Contents

Description

Description of the parameter actions.

Type: String

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

Required: No

Keyld

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 1024.

Pattern: ^(?!^([aA][wW][sS]|[sS][sS][mM]))(?=^[a-zA-Z0-9_.-]*\$).*\$

Required: No

Type

The type of parameter. Valid parameter types include the following: String, String list, Secure string.

Type: String

Valid Values: String | StringList | SecureString

Required: No

See Also

- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

ParametersFilter

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

Values

The filter values.

Type: array of Strings

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

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

Required: Yes

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

Patch

Represents metadata about a patch.

Contents

Classification

The classification of the patch (for example, SecurityUpdates, Updates, CriticalUpdates).

Type: String Required: No

ContentUrl

The URL where more information can be obtained about the patch.

Type: String Required: No

Description

The description of the patch.

Type: String Required: No

ld

The ID of the patch (this is different than the Microsoft Knowledge Base ID).

Type: String

Pattern: (^KB[0-9]{1,7}\$)|(^MS[0-9]{2}\-[0-9]{3}\$)

Required: No

KbNumber

The Microsoft Knowledge Base ID of the patch.

Type: String Required: No

Language

The language of the patch if it's language-specific.

Type: String Required: No

MsrcNumber

The ID of the MSRC bulletin the patch is related to.

Type: String Required: No

MsrcSeverity

The severity of the patch (for example Critical, Important, Moderate).

Type: String Required: No

Product

The specific product the patch is applicable for (for example, WindowsServer2016).

Type: String Required: No **ProductFamily**

The product family the patch is applicable for (for example, Windows).

Type: String Required: No

ReleaseDate

The date the patch was released.

Amazon EC2 Systems Manager API Reference See Also

Type: Timestamp 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

See Also

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

PatchBaselineIdentity

Defines the basic information about a patch baseline.

Contents

BaselineDescription

The description of the patch baseline.

Type: String

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

Required: No

Baselineld

The ID of the patch baseline.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 128.

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

Required: No

BaselineName

The name of the patch baseline.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Required: No DefaultBaseline

Whether this is the default baseline.

Type: Boolean Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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

InstalledTime

The date/time the patch was installed on the instance.

Type: Timestamp Required: Yes

KBId

The Microsoft Knowledge Base 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 (INSTALLED, INSTALLED_OTHER, MISSING,

NOT_APPLICABLE or FAILED).

Type: String

Valid Values: INSTALLED | INSTALLED_OTHER | MISSING | NOT_APPLICABLE | FAILED

Required: Yes

Title

The title of the patch.

Type: String Required: Yes

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

PatchFilter

Defines a patch filter.

Contents

Key

The key for the filter (PRODUCT, CLASSIFICATION, MSRC_SEVERITY, PATCH_ID)

Type: String

Valid Values: PRODUCT | CLASSIFICATION | MSRC_SEVERITY | PATCH_ID

Required: Yes

Values

The value for the filter key. 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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

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. 277) objects

Array Members: Minimum number of 0 items. Maximum number of 4 items.

Required: Yes

See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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. 275) 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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

PatchOrchestratorFilter

Defines a filter used in Patch Manager APIs.

Contents

Key

The key for the filter.

Type: String

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

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

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

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 the patch is marked as approved in the patch baseline.

Type: Integer

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

Required: Yes PatchFilterGroup

The patch filter group that defines the criteria for the rule.

Type: PatchFilterGroup (p. 278) object

Required: Yes

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

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. 281) objects

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

Required: Yes

See Also

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

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

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

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

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

S3OutputLocation

An Amazon S3 bucket where you want to store the results of this request.

Contents

OutputS3BucketName

The name of the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Required: No OutputS3KeyPrefix

The Amazon S3 bucket subfolder.

Type: String

Length Constraints: Maximum length of 500.

Required: No OutputS3Region

The Amazon S3 region where the association information is stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 20.

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

S3OutputUrl

A URL for the Amazon S3 bucket where you want to store the results of this request.

Contents

OutputUrl

A URL for an Amazon S3 bucket where you want to store the results of this request.

Type: String Required: No

See Also

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

StepExecution

Detailed information about an 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

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

Outputs

Returned values from the execution of the step.

Type: String to array of Strings map

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

Length Constraints: Minimum length of 1. Maximum length of 512.

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

StepName

The name of this execution step.

Type: String Required: No

Amazon EC2 Systems Manager API Reference See Also

StepStatus

The execution status for this step. Valid values include: Pending, InProgress, Success, Cancelled, Failed, and TimedOut.

Type: String

Valid Values: Pending | InProgress | Success | TimedOut | Cancelled | Failed

Required: No

See Also

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

Tag

Metadata that you assign to your managed instances. Tags enable you to categorize your managed instances in different ways, for example, by purpose, owner, or environment.

Contents

Key

The name of the tag.

Type: String

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

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

Target

An array of search criteria that targets instances using a <code>Key,Value</code> combination that you specify. <code>Targets</code> is required if you don't provide one or more instance IDs in the call.

Contents

Key

User-defined criteria for sending commands that target instances that meet the criteria. Key can be tag: <Amazon EC2 tag> or InstanceIds. For more information about how to send commands that target instances using Key,Value parameters, see Executing a Command Using Systems Manager Run Command.

Type: String

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

Pattern: $[\p{L}\p{Z}\p{N}_.:/=\-@]*$$

Required: No

Values

User-defined criteria that maps to Key. For example, if you specified tag:ServerRole, you could specify value:WebServer to execute a command on instances that include Amazon EC2 tags of ServerRole,WebServer. For more information about how to send commands that target instances using Key,Value parameters, see Executing a Command Using Systems Manager Run Command.

Type: array of Strings

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

Required: No

See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

Systems Manager Plugins

Systems Manager determines the actions to perform on a managed instance by reading the contents of a Systems Manager document. Each document includes a code-execution section. Depending on the schema version of your document, this code-execution section can include one or more plugins or steps. For the purpose of this Help topic, plugins and steps are called *plugins*. This section includes information about each of the Systems Manager plugins. For more information about documents, including information about creating documents and the differences between schema versions, see Systems Manager Documents.

Note

Some of the plugins described here run only on either Windows instances or Linux instances. Platform dependencies are noted for each plugin.

Contents

- Top-level Elements (p. 291)
- aws:applications (p. 295)
- aws:cloudWatch (p. 296)
- aws:configureDocker (p. 302)
- aws:configurePackage (p. 303)
- aws:domainJoin (p. 303)
- aws:psModule (p. 305)
- aws:refreshAssociation (p. 306)
- aws:runDockerAction (p. 306)
- aws:runPowerShellScript (p. 308)
- aws:runShellScript (p. 308)
- aws:softwareInventory (p. 309)
- aws:updateAgent (p. 310)
- aws:updateSSMAgent (p. 311)

Top-level Elements

The top-level elements are common for all Systems Manager documents. Top-level elements provide the structure of the Systems Manager document.

Syntax

The syntax of your document is defined by the schema version used to create it. Currently, Systems Manager supports schema version 0.3, 1.2, and 2.0. Schema version 0.3 is reserved for documents of type Automation. For more information about plugins for Automation documents, see Actions Reference for Automation Documents. For more information about documents, including information about creating documents and the differences between schema versions, see Systems Manager Documents.

Syntax for Schema Version 1.2

The following example shows the top-level elements of a schema version 1.2 document.

```
"schemaVersion": "1.2",
   "description": "A description of the Systems Manager document.",
   "parameters":{
      "parameter 1":{
         "one or more parameter properties"
      "parameter 2":{
         "one or more parameter properties"
      "parameter 3":{
         "one or more parameter properties"
   },
   "runtimeConfig":{
      "plugin 1":{
         "properties":[
                "one or more plugin properties"
         1
   }
}
```

Note

The aws-applications, aws-psModule, aws-runShellScript, and aws-runPowerShellScript plugins allow you to specify an array of properties.

Schema Version 1.2 Example

The following example shows the AWS-RunShellScript Systems Manager document. The **runtimeConfig** section includes the **aws:runShellScript** plugin.

```
"schemaVersion":"1.2",
  "description":"Run a shell script or specify the commands to run.",
  "parameters":{
      "commands":{
            "type":"StringList",
            "description":"(Required) Specify a shell script or a command to run.",
            "minItems":1,
            "displayType":"textarea"
      },
      "workingDirectory":{
            "type":"String",
            "default":"",
            "description":"(Optional) The path to the working directory on your instance.",
            "maxChars":4096
```

```
"executionTimeout":{
             "type": "String",
             "default":"3600",
             "description":"(Optional) The time in seconds for a command to complete before
it is considered to have failed. Default is 3600 (1 hour). Maximum is 28800 (8 hours).",
             "allowedPattern":"([1-9][0-9]{0,3})|(1[0-9]{1,4})|(2[0-7][0-9]{1,3})|(28[0-7]
[0-9]{1,2})|(28800)"
        }
    "runtimeConfig":{
         "aws:runShellScript":{
             "properties":[
                 {
                      "id": "0.aws:runShellScript",
                      "runCommand":"\{\{ commands \}\}",
                      "workingDirectory":"{{ workingDirectory }}",
"timeoutSeconds":"{{ executionTimeout }}"
                 }
             ]
        }
    }
```

Syntax for Schema Version 2.0

The following example shows the top-level elements of a schema version 2.0 document.

```
"schemaVersion": "2.0",
   "description": "A description of the document.",
   "parameters":{
       "parameter 1":{
           "one or more parameter properties"
        "parameter 2":{
            "one or more parameter properties"
        "parameter 3":{
           "one or more parameter properties"
   },
   "mainSteps":[
      {
         "action":"plugin 1",
         "name": "A name for this action.",
         "inputs":{
            "name":"{{ input 1 }}",
            "name":"{{ input 2 }}",
            "name":"{{    input 3 }}",
      }
   ]
}
```

Schema Version 2.0 Example

The following example shows the AWS-ConifgureAWSPackage document. The **mainSteps** section includes the **aws:configurePackage** plugin in the **action** step.

```
{
    "schemaVersion": "2.0",
```

Amazon EC2 Systems Manager API Reference Properties

```
"description": "Install or uninstall the latest version or specified version of an AWS
package.",
"parameters": {
 "action": {
  "description": "(Required) Specify whether or not to install or uninstall the package.",
  "type": "String",
  "allowedValues": [
  "Install",
  "Uninstall"
  ]
 },
 "name": {
  "description": "(Required) The package to install/uninstall.",
  "type": "String",
  "allowedValues": [
   "AWSPVDriver"
},
 "version": {
 "description": "(Optional) A specific version of the package to install or uninstall.
If installing, the system installs the latest published version, by default. If
uninstalling, the system uninstalls the currently installed version, by default. If no
installed version is found, the latest published version is downloaded, and the uninstall
action is run.",
  "type": "String",
  "default": "",
  "allowedPattern": (^(?:(\d+)\.)(?:(\d+)\.)(\d+)""
"mainSteps": [{
"action": "aws:configurePackage",
 "name": "configurePackage",
 "inputs": {
 "name": "{{ name }}",
  "action": "{{ action }}",
  "version": "{{ version }}"
}]
```

Properties

schemaVersion

The version of the schema.

Type: Version

Required: Yes

description

A description of the configuration.

Type: String

Required: No

parameters

parameters is a structure that contains one or more parameters to execute when processing the document. You can specify parameters at runtime, in a document, or by using Systems Manager Parameter Store. For more information, see Systems Manager Parameter Store.

Type: Structure

The parameters structure accepts the following fields and values:

- type: (Required) Allowed values include the following: String, StringList, Boolean, Integer, MapList, and StringMap
- description: (Optional) A description of the parameter.
- default: (Optional) The default value of the parameter or a reference to a parameter in Parameter Store
- allowedValues: (Optional) Allowed values for the parameter.
- allowedPattern: (Optional) The regular expression the parameter must match.
- displayType: (Optional) Used to display either a textfield or a textarea in the AWS console. textfield is a single-line text box. textarea is a multi-line text area.
- minItems: (Optional) The minimum number of items allowed.
- maxItems: (Optional) The maximum number of items allowed.
- minChars: (Optional) The minimum number of parameter characters allowed.
- maxChars: (Optional) The maximum number of parameter characters allowed.

runtimeConfig

(Schema version 1.2 only) The configuration for the instance as applied by one or more Systems Manager plugins. Plugins are not guaranteed to run in sequence.

Type: Dictionary<string,PluginConfiguration>

Required: No

mainSteps

(Schema version 0.3 and 2.0 only) The configuration for the instance as applied by one or more Systems Manager plugins. Plugins are organized as *actions* within steps. Steps execute in sequential order as listed in the document.

Type: Dictionary<string,PluginConfiguration>

Required: No

aws:applications

Install, repair, or uninstall applications on an EC2 instance. This plugin only runs on Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Properties

action

The action to take.

Type: Enum

Valid values: Install | Repair | Uninstall

Required: Yes

parameters

The parameters for the installer.

Type: String Required: No

source

The URL of the .msi file for the application.

Type: String Required: Yes

sourceHash

The SHA256 hash of the .msi file.

Type: String Required: No

aws:cloudWatch

Export data from Windows server to Amazon CloudWatch or Amazon CloudWatch Logs and monitor using Amazon CloudWatch metrics. This plugin only runs on Microsoft Windows operating systems. For more information about configuring CloudWatch integration with Amazon EC2, see Sending Logs, Events, and Performance Counters to Amazon CloudWatch. For more information about documents, see Systems Manager Documents.

You can export and monitor the following data types:

ApplicationEventLog

Sends application event log data to CloudWatch Logs.

CustomLogs

Sends any text-based log file to CloudWatch Logs. The CloudWatch plugin creates a fingerprint for log files. The system then associates a data offset with each fingerprint. The plugin uploads files when there are changes, records the offset, and associates the offset with a fingerprint. This method is used to avoid a situation where a user enables the plugin, associates the service with a directory that contains a large number of files, and the system uploads all of the files.

Warning

Be aware that if your application truncates or attempts to clean logs during polling, any logs specified for <code>LogDirectoryPath</code> can lose entries. If, for example, you want to limit log file size, create a new log file when that limit is reached, and then continue writing data to the new file.

ETW

Sends Event Tracing for Windows (ETW) data to CloudWatch Logs.

Note

Microsoft Windows Server 2003 is not supported.

IIS

Sends IIS log data to CloudWatch Logs.

PerformanceCounter

Sends Windows performance counters to CloudWatch. You can select different categories to upload to CloudWatch as metrics. For each performance counter that you want to upload, create a **PerformanceCounter** section with a unique ID (for example, "PerformanceCounter2", "PerformanceCounter3", and so on) and configure its properties.

SecurityEventLog

Sends security event log data to CloudWatch Logs.

SystemEventLog

Sends system event log data to CloudWatch Logs.

You can define the following destinations for the data:

CloudWatch

The destination where your performance counter metric data is sent. You can add additional sections with unique IDs (for example, "CloudWatch2", CloudWatch3", and so on), and specify a different region for each new ID to send the same data to different locations.

CloudWatchLogs

The destination where your log data is sent. You can add additional sections with unique IDs (for example, "CloudWatchLogs2", CloudWatchLogs3", and so on), and specify a different region for each new ID to send the same data to different locations.

Syntax

Settings and Properties

AccessKey

Your access key ID. This property is required unless you launched your instance using an IAM role. This property cannot be used with SSM.

Type: String Required: No

CategoryName

The performance counter category from Performance Monitor.

Type: String

Required: Yes

CounterName

The name of the performance counter from Performance Monitor.

Type: String

Required: Yes

CultureName

The locale where the timestamp is logged. If **CultureName** is blank, it defaults to the same locale currently used by your Windows instance.

Type: String

Valid values: For a list of supported values, see National Language Support (NLS) on the Microsoft website. Note that the div, div-MV, hu, and hu-HU values are not supported.

Required: No **DimensionName**

A dimension for your Amazon CloudWatch metric. If you specify <code>DimensionName</code>, you must specify <code>DimensionValue</code>. These parameters provide another view when listing metrics. You can also use the same dimension for multiple metrics so that you can view all metrics belonging to a specific dimension.

Type: String

Required: No

DimensionValue

A dimension value for your Amazon CloudWatch metric.

Type: String

Required: No

Encoding

The file encoding to use (for example, UTF-8). Use the encoding name, not the display name.

Type: String

Valid values: For a list of supported values, see Encoding Class in the MSDN Library.

Required: Yes

Filter

The prefix of log names. Leave this parameter blank to monitor all files.

Type: String

Valid values: For a list of supported values, see the FileSystemWatcherFilter Property in the MSDN

Library.

Required: No

Flows

Each data type to upload, along with the destination for the data (CloudWatch or CloudWatch Logs). For example, to send a performance counter defined under "Id": "PerformanceCounter" to the CloudWatch destination defined under "Id": "CloudWatch", enter "PerformanceCounter, CloudWatch". Similarly, to send the custom log, ETW log, and system log

to the CloudWatch Logs destination defined under "Id": "ETW", enter "(ETW), CloudWatchLogs". In addition, you can send the same performance counter or log file to more than one destination. For example, to send the application log to two different destinations that you defined under "Id": "CloudWatchLogs" and "Id": "CloudWatchLogs2", enter "ApplicationEventLog,(CloudWatchLogs, CloudWatchLogs.")

CloudWatchLogs2)".

Type: String

Valid values (source): ApplicationEventLog | CustomLogs | ETW | PerformanceCounter | SystemEventLog | SecurityEventLog

Valid values (destination): CloudWatch | CloudWatchLogs | CloudWatchn | CloudWatchLogsn

Required: Yes

FullName

The full name of the component.

Type: String

Required: Yes

ld

Identifies the data source or destination. This identifier must be unique within the configuration file.

Type: String

Required: Yes

InstanceName

The name of the performance counter instance. Do not use an asterisk (*) to indicate all instances because each performance counter component only supports one metric. You can, however use **Total**.

Type: String Required: Yes

Levels

The types of messages to send to Amazon CloudWatch.

Type: String

Valid values:

- 1 Only error messages uploaded.
- 2 Only warning messages uploaded.
- 4 Only information messages uploaded.

Note that you can add values together to include more than one type of message. For example, 3 means that error messages (1) and warning messages (2) are included. A value of 7 means that error messages (1), warning messages (2), and informational messages (4) are included.

Required: Yes

Note

Windows Security Logs should set Levels to 7.

LineCount

The number of lines in the header to identify the log file. For example, IIS log files have virtually identical headers. You could enter **3**, which would read the first three lines of the log file's header to identify it. In IIS log files, the third line is the date and time stamp, which is different between log files.

Type: Integer Required: No

LogDirectoryPath

For CustomLogs, the path where logs are stored on your Amazon EC2 instance. For IIS logs, the folder where IIS logs are stored for an individual site (for example, C:\\interpub\\logs\\LogFiles\\\W3SVC_n\).

Note

For IIS logs, only W3C log format is supported. IIS, NCSA, and Custom formats are not supported.

Type: String Required: Yes

LogGroup

The name for your log group. This name is displayed on the **Log Groups** screen in the CloudWatch console.

Type: String
Required: Yes

LogName

The name of the log file.

- 1. To find the name of the log, in Event Viewer, in the navigation pane, click **Applications and Services Logs**.
- In the list of logs, right-click the log you want to upload (for example, Microsoft>Windows>Backup>Operational), and then click Create Custom View.
- 3. In the Create Custom View dialog box, click the XML tab. The LogName is in the <Select Path=> tag (for example, Microsoft-Windows-Backup). Copy this text into the LogName parameter.

Type: String

Valid values: Application | Security | System | Microsoft-Windows-WinINet/Analytic

Required: Yes

LogStream

The destination log stream. If you use **{instance_id}**, the default, the instance ID of this instance is used as the log stream name.

Type: String

Valid values: {instance_id} | {hostname} | {ip_address} < log_stream_name>

If you enter a log stream name that doesn't already exist, CloudWatch Logs automatically creates it for you. You can use a literal string or predefined variables (**{instance_id}**, **{hostname}**, **{ip_address}**, or a combination of all three to define a log stream name.

The log stream name specified in this parameter appears on the **Log Groups > Streams for** <YourLogStream> screen in the CloudWatch console.

Required: Yes

MetricName

The CloudWatch metric that you want performance data to appear under.

Type: String

Required: Yes

NameSpace

The metric namespace where you want performance counter data to be written.

Type: String

Required: Yes

PollInterval

How many seconds must elapse before new performance counter and log data is uploaded.

Type: Integer

Valid values: Set this to 5 or more seconds. Fifteen seconds (00:00:15) is recommended.

Required: Yes

Region

The region where you want to send log data. Although you can send performance counters to a different region from where you send your log data, we recommend that you set this parameter to the same region where your instance is running.

Type: String

Valid values: us-east-1 | us-west-2 | eu-west-1 | eu-central-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1

Required: Yes

SecretKey

Your secret access key. This property is required unless you launched your instance using an IAM role.

Type: String

Required: No

startType

Enable or disable CloudWatch on the instance.

Type: String

Valid values: Enabled | Disabled

Required: Yes
TimestampFormat

The timestamp format you want to use. For a list of supported values, see Custom Date and Time Format Strings in the MSDN Library.

Amazon EC2 Systems Manager API Reference aws:configureDocker

Type: String Required: Yes

TimeZoneKind

Provides time zone information when no time zone information is included in your log's timestamp. If this parameter is left blank and if your timestamp doesn't include time zone information, CloudWatch Logs defaults to the local time zone. This parameter is ignored if your timestamp already contains time zone information.

Type: String

Valid values: Local | UTC

Required: No

Unit

The appropriate unit of measure for the metric.

Type: String

Valid values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Count/Second | None

Required: Yes

aws:configureDocker

(Schema version 2.0 or later) Configure an instance to work with containers and Docker. This plugin runs only on Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

Inputs

action

The type of action to perform.

Type: Enum

Valid values: Install | Uninstall

Required: Yes

aws:configurePackage

(Schema version 2.0 or later) Install or uninstall an AWS package. This plugin runs on Linux and Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

```
"mainSteps": [
    {
    "action": "aws:configurePackage",
    "name": "configurePackage",
    "inputs": {
        "name": "{{ name }}",
        "action": "{{ action }}",
        "version": "{{ version }}"
    }
}
```

Inputs

name

The name of the AWS package to install or uninstall.

Type: String

Required: Yes

action

Install or uninstall a package.

Type: Enum

Valid values: Install | Uninstall

Required: Yes

version

A specific version of the package to install or uninstall. If installing, the system installs the latest published version, by default. If uninstalling, the system uninstalls the currently installed version, by default. If no installed version is found, the latest published version is downloaded, and the uninstall action is run.

Type: String Required: No

aws:domainJoin

Join an Amazon EC2 instance to a domain. This plugin only runs on Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

```
"runtimeConfig":{
    "aws:domainJoin":{
        "properties":{
            "directoryId":"{{ directoryId }}",
            "directoryName":"{{ directoryName }}",
            "directoryOU":"{{ directoryOU }}",
            "dnsIpAddresses":"{{ dnsIpAddresses }}"
    }
}
```

Properties

directoryld

```
The ID of the directory.
```

Type: String

Required: Yes

Example: "directoryId": "d-1234567890"

directoryName

The name of the domain.

Type: String

Required: Yes

Example: "directoryName": "example.com"

directoryOU

The organizational unit (OU).

Type: String

Required: No

Example: "directoryOU": "OU=test,DC=example,DC=com"

dnslpAddresses

The IP addresses of the DNS servers.

Type: Array

Required: No

Example: "dnslpAddresses": ["198.51.100.1","198.51.100.2"]

Examples

For examples, see Joining a Windows Instance to an AWS Directory Service Domain in the *Amazon EC2 User Guide for Windows Instances*.

aws:psModule

Install PowerShell modules on an EC2 instance. This plugin only runs on Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

```
"runtimeConfig":{
    "aws:psModule":{
        "id":"0.aws:psModule",
        "runCommand":"{{ commands }}",
        "source":"{{ source }}",
        "sourceHash":"{{ sourceHash }}",
        "workingDirectory":"{{ workingDirectory }}",
        "timeoutSeconds":"{{ executionTimeout }}"
}
```

Properties

runCommand

The PowerShell command to run after the module is installed.

Type: String or Array

Required: No

source

The URL or local path on the instance to the application .zip file.

Type: String

Required: No

sourceHash

The SHA256 hash of the .zip file.

Type: String

Required: No

timeoutSeconds

The time in seconds for a command to be completed before it is considered to have failed.

Type: String

Required: No

workingDirectory

The path to the working directory on your instance.

Type: String

Required: No

aws:refreshAssociation

(Schema version 2.0 or later) Refresh (force apply) an association on demand. This action will change the system state based on what is defined in the selected association or all associations bound to the targets. This plugin runs on Linux and Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

```
"action":"aws:refreshAssociation",
    "name":"refreshAssociation",
    "inputs": {
        "associationIds": "{{ associationIds }}"
}
```

Inputs

associationIds

List of association IDs. If empty, all associations bound to the specified target are applied.

Type: StringList Required: No

aws:runDockerAction

(Schema version 2.0 or later) Run Docker actions on containers. This plugin runs on Linux and Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

Inputs

action

The type of action to perform.

Amazon EC2 Systems Manager API Reference Inputs

Type: String Required: Yes container The Docker container ID. Type: String Required: No image The Docker image name. Type: String Required: No cmd The container command. Type: String Required: No memory The container memory limit. Type: String Required: No cpuShares The container CPU shares (relative weight). Type: String Required: No volume The container volume mounts. Type: StringList Required: No env The container environment variables. Type: String Required: No user The container user name. Type: String Required: No

publish

The container published ports.

Type: String Required: No

aws:runPowerShellScript

Run PowerShell scripts or specify the path to a script to run. This plugin only runs on Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Syntax

Properties

runCommand

Specify the command(s) to run or the path to an existing script on the instance.

Type: String or Array

Required: Yes

timeoutSeconds

The time in seconds for a command to be completed before it is considered to have failed.

Type: String
Required: No
workingDirectory

The path to the working directory on your instance.

Type: String Required: No

aws:runShellScript

Run Linux shell scripts or specify the path to a script to run. This plugin only runs on Linux operating systems. For more information, see Systems Manager Documents.

Syntax

Properties

runCommand

Specify the command(s) to run or the path to an existing script on the instance.

Type: String or Array

Required: Yes

timeoutSeconds

The time in seconds for a command to be completed before it is considered to have failed.

Type: String Required: No

workingDirectory

The path to the working directory on your instance.

Type: String Required: No

aws:softwareInventory

(Schema version 2.0 or later) Gather an inventory of applications, AWS components, network configuration, Windows Updates, and custom inventory from an instance. This plugin runs on Linux and Microsoft Windows operating systems. For more information, see Systems Manager Documents.

Amazon EC2 Systems Manager API Reference Inputs

```
"customInventory": "{{ customInventory }}"
}
```

Inputs

applications

Collect data for installed applications.

Type: String

Required: No awsComponents

Collect data for AWS components like amazon-ssm-agent.

Type: String

Required: No

networkConfig

Collect data for network configuration.

Type: String

Required: No

windowsUpdates

Collect data for all Windows updates.

Type: String

Required: No

customInventory

Collect data for custom inventory.

Type: String

Required: No

aws:updateAgent

Update the EC2Config service to the latest version or specify an older version. This plugin only runs on Microsoft Windows operating systems. For more information about the EC2Config service, see Configuring a Windows Instance Using the EC2Config Service. For more information about documents, see Systems Manager Documents.

Amazon EC2 Systems Manager API Reference Properties

Properties

agentName

EC2Config. This is the name of the agent that runs the EC2Config service.

Type: String Required: Yes

allowDowngrade

Allow the EC2Config service to be downgraded to an earlier version. If set to false, the service can be upgraded to newer versions only (default). If set to true, specify the earlier version.

Type: Boolean Required: No

source

The location where Systems Manager copies the version of EC2Config to install. You can't change this location.

Type: String
Required: Yes
targetVersion

A specific version of the EC2Config service to install. If not specified, the service will be updated to the latest version.

Type: String Required: No

aws:updateSSMAgent

Update the SSM Agent to the latest version or specify an older version. This plugin runs on Linux and Windows operating systems. For more information, see Installing SSM Agent. For more information about documents, see Systems Manager Documents.

Amazon EC2 Systems Manager API Reference Properties

```
"targetVersion": "{{ version }}"
}

}
```

Properties

agentName

amazon-ssm-agent. This is the name of the Systems Manager agent that processes requests and executes commands on the instance.

Type: String

Required: Yes

allowDowngrade

Allow the SSM Agent to be downgraded to an earlier version. If set to false, the agent can be upgraded to newer versions only (default). If set to true, specify the earlier version.

Type: Boolean Required: No

source

The location where Systems Manager copies the SSM Agent version to install. You can't change this location.

Type: String Required: Yes

targetVersion

A specific version of the SSM Agent to install. If not specified, the agent will be updated to the latest version.

Type: String Required: No

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

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

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

Throttling

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400

Auditing Systems Manager API Calls Using AWS CloudTrail

Run Command is an extension of AWS EC2 Systems Manager. Where this document talks about Systems Manager, it includes Run Command.

Systems Manager is integrated with CloudTrail, a service that captures API calls made by or on behalf of Systems Manager and delivers the log files to an Amazon S3 bucket that you specify. The API calls can be made indirectly by using the Amazon EC2 console, AWS CLI, or AWS Tools for Windows PowerShell, or directly by using the Systems Manager API. Using the information collected by CloudTrail, you can determine what request was made, the source IP address from which the request was made, who made the request, when it was made, and so on. CloudTrail logs all Systems Manager API actions. For example, calls to execute commands using Run Command or create Systems Manager documents generate entries in CloudTrail log files. To learn more about CloudTrail, including how to configure and enable it, see the AWS CloudTrail User Guide.

Systems Manager Information in CloudTrail

When CloudTrail logging is enabled, calls made to Systems Manager actions are tracked in log files, along with any other AWS service records. CloudTrail determines when to create and write to a new file based on a specified time period and file size.

Every log entry contains information about who generated the request. The user identity information in the log helps you determine whether the request was made with root or IAM user credentials, with temporary security credentials for a role or federated user, or by another AWS service. For more information, see the **userIdentity** field in the CloudTrail Event Reference.

You can store your log files in your bucket for as long as you want, but you can also define Amazon S3 lifecycle rules to archive or delete log files automatically. By default, your log files are encrypted by using Amazon S3 server-side encryption (SSE).

You can choose to have CloudTrail publish Amazon SNS notifications when new log files are delivered if you want to take quick action upon log file delivery. For more information, see Configuring Amazon SNS Notifications.

You can also aggregate Systems Manager log files from multiple AWS regions and multiple AWS accounts into a single Amazon S3 bucket. For more information, see Aggregating CloudTrail Log Files to a Single Amazon S3 Bucket.

Understanding SSM Log File Entries

CloudTrail log files can contain one or more log entries where each entry is made up of multiple JSON-formatted events. A log entry represents a single request from any source and includes information about the requested action, any input parameters, the date and time of the action, and so on. The log entries are not in any particular order. That is, they are not an ordered stack trace of the public API calls.