



API Reference Guide for Region Switch

# Amazon Application Recovery Controller



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# Amazon Application Recovery Controller: API Reference Guide for Region Switch

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
ApprovePlanExecutionStep .....	3
Request Parameters .....	3
Errors .....	4
See Also .....	4
CancelPlanExecution .....	6
Request Parameters .....	6
Errors .....	6
See Also .....	7
CreatePlan .....	8
Request Parameters .....	8
Response Elements .....	10
Errors .....	11
See Also .....	11
DeletePlan .....	12
Request Parameters .....	12
Errors .....	12
See Also .....	13
GetPlan .....	14
Request Parameters .....	14
Response Elements .....	14
Errors .....	14
See Also .....	15
GetPlanEvaluationStatus .....	16
Request Parameters .....	16
Response Elements .....	16
Errors .....	18
See Also .....	18
GetPlanExecution .....	20
Request Parameters .....	20
Response Elements .....	21
Errors .....	23
See Also .....	24

GetPlanInRegion .....	25
Request Parameters .....	25
Response Elements .....	25
Errors .....	25
See Also .....	26
ListPlanExecutionEvents .....	27
Request Parameters .....	27
Response Elements .....	28
Errors .....	28
See Also .....	29
ListPlanExecutions .....	30
Request Parameters .....	30
Response Elements .....	31
Errors .....	31
See Also .....	32
ListPlans .....	33
Request Parameters .....	33
Response Elements .....	33
Errors .....	34
See Also .....	34
ListPlansInRegion .....	35
Request Parameters .....	35
Response Elements .....	35
Errors .....	36
See Also .....	36
ListRoute53HealthChecks .....	37
Request Parameters .....	37
Response Elements .....	38
Errors .....	38
See Also .....	39
ListRoute53HealthChecksInRegion .....	40
Request Parameters .....	40
Response Elements .....	41
Errors .....	41
See Also .....	42
ListTagsForResource .....	44

Request Parameters .....	44
Response Elements .....	44
Errors .....	44
See Also .....	45
StartPlanExecution .....	46
Request Parameters .....	46
Response Elements .....	47
Errors .....	48
See Also .....	49
TagResource .....	50
Request Parameters .....	50
Errors .....	50
See Also .....	51
UntagResource .....	52
Request Parameters .....	52
Errors .....	52
See Also .....	53
UpdatePlan .....	54
Request Parameters .....	54
Response Elements .....	55
Errors .....	56
See Also .....	56
UpdatePlanExecution .....	57
Request Parameters .....	57
Errors .....	58
See Also .....	58
UpdatePlanExecutionStep .....	60
Request Parameters .....	60
Errors .....	61
See Also .....	61
<b>Data Types .....</b>	<b>63</b>
AbbreviatedExecution .....	65
Contents .....	65
See Also .....	67
AbbreviatedPlan .....	69
Contents .....	69

See Also .....	71
ArcRoutingControlConfiguration .....	72
Contents .....	72
See Also .....	73
ArcRoutingControlState .....	74
Contents .....	74
See Also .....	74
Asg .....	75
Contents .....	75
See Also .....	75
AssociatedAlarm .....	77
Contents .....	77
See Also .....	78
CustomActionLambdaConfiguration .....	79
Contents .....	79
See Also .....	80
DocumentDbConfiguration .....	81
Contents .....	81
See Also .....	82
DocumentDbUngraceful .....	83
Contents .....	83
See Also .....	83
Ec2AsgCapacityIncreaseConfiguration .....	84
Contents .....	84
See Also .....	85
Ec2Ungraceful .....	86
Contents .....	86
See Also .....	86
EcsCapacityIncreaseConfiguration .....	87
Contents .....	87
See Also .....	88
EcsUngraceful .....	89
Contents .....	89
See Also .....	89
EksCluster .....	90
Contents .....	90

See Also .....	90
EksResourceScalingConfiguration .....	92
Contents .....	92
See Also .....	93
EksResourceScalingUngraceful .....	94
Contents .....	94
See Also .....	94
ExecutionApprovalConfiguration .....	95
Contents .....	95
See Also .....	95
ExecutionBlockConfiguration .....	96
Contents .....	96
See Also .....	98
ExecutionEvent .....	99
Contents .....	99
See Also .....	101
FailedReportOutput .....	102
Contents .....	102
See Also .....	102
GeneratedReport .....	103
Contents .....	103
See Also .....	103
GlobalAuroraConfiguration .....	104
Contents .....	104
See Also .....	105
GlobalAuroraUngraceful .....	106
Contents .....	106
See Also .....	106
KubernetesResourceType .....	107
Contents .....	107
See Also .....	107
KubernetesScalingResource .....	108
Contents .....	108
See Also .....	108
Lambdas .....	109
Contents .....	109

See Also .....	109
LambdaUngraceful .....	110
Contents .....	110
See Also .....	110
MinimalWorkflow .....	111
Contents .....	111
See Also .....	111
ParallelExecutionBlockConfiguration .....	112
Contents .....	112
See Also .....	112
Plan .....	113
Contents .....	113
See Also .....	116
RdsCreateCrossRegionReplicaConfiguration .....	117
Contents .....	117
See Also .....	118
RdsPromoteReadReplicaConfiguration .....	119
Contents .....	119
See Also .....	120
RegionSwitchPlanConfiguration .....	121
Contents .....	121
See Also .....	121
ReportConfiguration .....	123
Contents .....	123
See Also .....	123
ReportOutput .....	124
Contents .....	124
See Also .....	124
ReportOutputConfiguration .....	125
Contents .....	125
See Also .....	125
ResourceWarning .....	126
Contents .....	126
See Also .....	127
Route53HealthCheck .....	128
Contents .....	128

See Also .....	129
Route53HealthCheckConfiguration .....	130
Contents .....	130
See Also .....	131
Route53ResourceRecordSet .....	132
Contents .....	132
See Also .....	132
S3ReportOutput .....	133
Contents .....	133
See Also .....	133
S3ReportOutputConfiguration .....	134
Contents .....	134
See Also .....	134
Service .....	135
Contents .....	135
See Also .....	136
Step .....	137
Contents .....	137
See Also .....	138
StepState .....	139
Contents .....	139
See Also .....	140
Trigger .....	141
Contents .....	141
See Also .....	142
TriggerCondition .....	143
Contents .....	143
See Also .....	143
Workflow .....	144
Contents .....	144
See Also .....	145
<b>Common Parameters .....</b>	<b>146</b>
<b>Common Error Types .....</b>	<b>149</b>

# Welcome

Amazon Application Recovery Controller (ARC) Region switch helps you to quickly and reliably shift traffic away from an impaired AWS Region to a healthy Region. With Region switch, you can create plans that define the steps to shift traffic for your application from one AWS Region to another.

Region switch provides a structured approach to multi-Region failover, helping you to meet your recovery time objectives (RTOs) and maintain business continuity during regional disruptions.

For more information, see [Region switch in ARC](#) in the *Amazon Application Recovery Controller User Guide*.

This document was last published on April 3, 2026.

# Actions

The following actions are supported:

- [ApprovePlanExecutionStep](#)
- [CancelPlanExecution](#)
- [CreatePlan](#)
- [DeletePlan](#)
- [GetPlan](#)
- [GetPlanEvaluationStatus](#)
- [GetPlanExecution](#)
- [GetPlanInRegion](#)
- [ListPlanExecutionEvents](#)
- [ListPlanExecutions](#)
- [ListPlans](#)
- [ListPlansInRegion](#)
- [ListRoute53HealthChecks](#)
- [ListRoute53HealthChecksInRegion](#)
- [ListTagsForResource](#)
- [StartPlanExecution](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdatePlan](#)
- [UpdatePlanExecution](#)
- [UpdatePlanExecutionStep](#)

# ApprovePlanExecutionStep

Approves a step in a plan execution that requires manual approval. When you create a plan, you can include approval steps that require manual intervention before the execution can proceed. This operation allows you to provide that approval.

You must specify the plan ARN, execution ID, step name, and approval status. You can also provide an optional comment explaining the approval decision.

## Request Parameters

### **approval**

The status of approval for a plan execution step.

Type: String

Valid Values: `approve` | `decline`

Required: Yes

### **comment**

A comment that you can enter about a plan execution.

Type: String

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

Required: No

### **executionId**

The execution identifier of a plan execution.

Type: String

Required: Yes

### **planArn**

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### **stepName**

The name of a step in a plan execution.

Type: String

Required: Yes

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### **ResourceNotFoundException**

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CancelPlanExecution

Cancels an in-progress plan execution. This operation stops the execution of the plan and prevents any further steps from being processed.

You must specify the plan ARN and execution ID. You can also provide an optional comment explaining why the execution was canceled.

## Request Parameters

### **comment**

A comment that you can enter about canceling a plan execution step.

Type: String

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

Required: No

### **executionId**

The execution identifier of a plan execution.

Type: String

Required: Yes

### **planArn**

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Errors

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

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

## ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# CreatePlan

Creates a new Region switch plan. A plan defines the steps required to shift traffic from one AWS Region to another.

You must specify a name for the plan, the primary Region, and at least one additional Region. You can also provide a description, execution role, recovery time objective, associated alarms, triggers, and workflows that define the steps to execute during a Region switch.

## Request Parameters

### **associatedAlarms**

The alarms associated with a Region switch plan.

Type: String to [AssociatedAlarm](#) object map

Required: No

### **description**

The description of a Region switch plan.

Type: String

Required: No

### **executionRole**

An execution role is a way to categorize a Region switch plan.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam:[0-9]{12}:role/.+`

Required: Yes

### **name**

The name of a Region switch plan.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?`

Required: Yes

### **primaryRegion**

The primary AWS Region for the application. This is the Region where the application normally runs before any Region switch occurs.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: No

### **recoveryApproach**

The recovery approach for a Region switch plan, which can be active/active (activeActive) or active/passive (activePassive).

Type: String

Valid Values: activeActive | activePassive

Required: Yes

### **recoveryTimeObjectiveMinutes**

Optionally, you can specify an recovery time objective for a Region switch plan, in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10080.

Required: No

### **regions**

An array that specifies the AWS Regions for a Region switch plan. Specify two Regions.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: Yes

### **reportConfiguration**

Configuration for automatic report generation for plan executions. When configured, Region switch automatically generates a report after each plan execution that includes execution events, plan configuration, and CloudWatch alarm states.

Type: [ReportConfiguration](#) object

Required: No

### **tags**

The tags to apply to the Region switch plan.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

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

Required: No

### **triggers**

The triggers associated with a Region switch plan.

Type: Array of [Trigger](#) objects

Required: No

### **workflows**

An array of workflows included in a Region switch plan.

Type: Array of [Workflow](#) objects

Required: Yes

## **Response Elements**

The following element is returned by the service.

## plan

The details of the created Region switch plan.

Type: [Plan](#) object

## Errors

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

## See Also

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

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

# DeletePlan

Deletes a Region switch plan. You must specify the ARN of the plan to delete.

You cannot delete a plan that has an active execution in progress.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Errors

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

### IllegalStateException

The operation failed because the current state of the resource doesn't allow the operation to proceed.

HTTP Status Code: 400

HTTP Status Code: 400

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# GetPlan

Retrieves detailed information about a Region switch plan. You must specify the ARN of the plan.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following element is returned by the service.

### plan

The detailed information about the requested Region switch plan.

Type: [Plan](#) object

## Errors

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

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# GetPlanEvaluationStatus

Retrieves the evaluation status of a Region switch plan. The evaluation status provides information about the last time the plan was evaluated and any warnings or issues detected.

## Request Parameters

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

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

Required: No

### planArn

The Amazon Resource Name (ARN) of the Region switch plan to retrieve evaluation status for.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following elements are returned by the service.

**evaluationState**

The evaluation state for the plan.

Type: String

Valid Values: `passed` | `actionRequired` | `pendingEvaluation` | `unknown`

**lastEvaluatedVersion**

The version of the last evaluation of the plan.

Type: String

**lastEvaluationTime**

The time of the last time that Region switch ran an evaluation of the plan.

Type: Timestamp

**nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

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

**planArn**

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

**region**

The AWS Region for the plan.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

## warnings

The current evaluation warnings for the plan.

Type: Array of [ResourceWarning](#) objects

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

# GetPlanExecution

Retrieves detailed information about a specific plan execution. You must specify the plan ARN and execution ID.

## Request Parameters

### **executionId**

The execution identifier of a plan execution.

Type: String

Required: Yes

### **maxResults**

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### **nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

Required: No

### **planArn**

The Amazon Resource Name (ARN) of the plan with the execution to retrieve.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following elements are returned by the service.

### **actualRecoveryTime**

The actual recovery time that Region switch calculates for a plan execution. Actual recovery time includes the time for the plan to run added to the time elapsed until the application health alarms that you've specified are healthy again.

Type: String

Pattern: `P(?!$)(\d+Y)?(\d+M)?(\d+D)?(T(?:=\d)(\d+H)?(\d+M)?(\d+S)?)?`

### **comment**

A comment included on the plan execution.

Type: String

### **endTime**

The time (UTC) when the plan execution ended.

Type: Timestamp

### **executionAction**

The plan execution action. Valid values are `activate`, to activate an AWS Region, or `deactivate`, to deactivate a Region.

Type: String

Valid Values: `activate` | `deactivate` | `postRecovery`

### **executionId**

The execution identifier of a plan execution.

Type: String

### **executionRegion**

The AWS Region for a plan execution.

Type: String

### **executionState**

The plan execution state. Provides the state of a plan execution, for example, In Progress or Paused by Operator.

Type: String

Valid Values: `inProgress` | `pausedByFailedStep` | `pausedByOperator` | `completed` | `completedWithExceptions` | `canceled` | `planExecutionTimedOut` | `pendingManualApproval` | `failed` | `pending` | `completedMonitoringApplicationHealth`

### **generatedReportDetails**

Information about the location of a generated report, or the cause of its failure.

Type: Array of [GeneratedReport](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

### **mode**

The plan execution mode. Valid values are `graceful`, for graceful executions, or `ungraceful`, for ungraceful executions.

Type: String

Valid Values: `graceful` | `ungraceful`

### **nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

### **plan**

The details of the Region switch plan.

Type: [Plan](#) object

## planArn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

## recoveryExecutionId

The unique identifier of the most recent recovery execution. Required when starting a post-recovery execution.

Type: String

## startTime

The time (UTC) when the plan execution started.

Type: Timestamp

## stepStates

The states of the steps in the plan execution.

Type: Array of [StepState](#) objects

## updatedAt

The timestamp when the plan execution was last updated.

Type: Timestamp

## version

The version for the plan.

Type: String

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### **ResourceNotFoundException**

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## **See Also**

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

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

# GetPlanInRegion

Retrieves information about a Region switch plan in a specific AWS Region. This operation is useful for getting Region-specific information about a plan.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the plan in Region.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following element is returned by the service.

### plan

The details of the Region switch plan.

Type: [Plan](#) object

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

## ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# ListPlanExecutionEvents

Lists the events that occurred during a plan execution. These events provide a detailed timeline of the execution process.

## Request Parameters

### **executionId**

The execution identifier of a plan execution.

Type: String

Required: Yes

### **maxResults**

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### **name**

The name of the plan execution event.

Type: String

Required: No

### **nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

Required: No

## planArn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following elements are returned by the service.

### items

The items in the plan execution event.

Type: Array of [ExecutionEvent](#) objects

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

## ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# ListPlanExecutions

Lists the executions of a Region switch plan. This operation returns information about both current and historical executions.

## Request Parameters

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

Required: No

### planArn

The ARN for the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### state

The state of the plan execution. For example, the plan execution might be In Progress.

Type: String

Valid Values: `inProgress` | `pausedByFailedStep` | `pausedByOperator` | `completed` | `completedWithExceptions` | `canceled` | `planExecutionTimedOut` | `pendingManualApproval` | `failed` | `pending` | `completedMonitoringApplicationHealth`

Required: No

## Response Elements

The following elements are returned by the service.

### items

The items in the plan execution to return.

Type: Array of [AbbreviatedExecution](#) objects

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# ListPlans

Lists all Region switch plans in your AWS account.

## Request Parameters

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

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

Required: No

## Response Elements

The following elements are returned by the service.

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

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

## plans

The plans that were requested.

Type: Array of [AbbreviatedPlan](#) objects

## Errors

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

## See Also

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

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

# ListPlansInRegion

Lists all Region switch plans in your AWS account that are available in the current AWS Region.

## Request Parameters

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

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

Required: No

## Response Elements

The following elements are returned by the service.

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a nextToken response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's nextToken response to request the next page of results.

Type: String

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

## plans

The plans that were requested.

Type: Array of [AbbreviatedPlan](#) objects

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

## See Also

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

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

# ListRoute53HealthChecks

List the Amazon Route 53 health checks.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the Amazon Route 53 health check request.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### hostedZoneId

The hosted zone ID for the health checks.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

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

Required: No

### **recordName**

The record name for the health checks.

Type: String

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

Required: No

## **Response Elements**

The following elements are returned by the service.

### **healthChecks**

List of the health checks requested.

Type: Array of [Route53HealthCheck](#) objects

### **nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

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

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## **See Also**

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

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

# ListRoute53HealthChecksInRegion

List the Amazon Route 53 health checks in a specific AWS Region.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the Arc Region Switch Plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### hostedZoneId

The hosted zone ID for the health checks.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

### maxResults

The number of objects that you want to return with this call.

Type: Integer

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

Required: No

### nextToken

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

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

Required: No

### **recordName**

The record name for the health checks.

Type: String

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

Required: No

## **Response Elements**

The following elements are returned by the service.

### **healthChecks**

List of the health checks requested.

Type: Array of [Route53HealthCheck](#) objects

### **nextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `nextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `nextToken` response to request the next page of results.

Type: String

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

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### **IllegalArgumentException**

The request processing has an invalid argument.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags attached to a Region switch resource.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Response Elements

The following element is returned by the service.

### resourceTags

The tags for a resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

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

## Errors

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

### InternalServerErrorException

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

HTTP Status Code: 500

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## **See Also**

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

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

# StartPlanExecution

Starts the execution of a Region switch plan. You can execute a plan in either `graceful` or `ungraceful` mode.

Specifying `ungraceful` mode either changes the behavior of the execution blocks in a workflow or skips specific execution blocks.

## Request Parameters

### **action**

The action to perform. Valid values are `activate` (to shift traffic to the target Region) or `deactivate` (to shift traffic away from the target Region).

Type: String

Valid Values: `activate` | `deactivate` | `postRecovery`

Required: Yes

### **comment**

An optional comment explaining why the plan execution is being started.

Type: String

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

Required: No

### **latestVersion**

A boolean value indicating whether to use the latest version of the plan. If set to `false`, you must specify a specific version.

Type: String

Required: No

### **mode**

The plan execution mode. Valid values are `graceful`, for starting the execution in graceful mode, or `ungraceful`, for starting the execution in ungraceful mode.

Type: String

Valid Values: `graceful` | `ungraceful`

Required: No

### **planArn**

The Amazon Resource Name (ARN) of the plan to execute.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### **recoveryExecutionId**

The execution identifier of the recovery execution that ran in the opposite region post-recovery is ran in. Required when starting a post-recovery execution.

Type: String

Pattern: `[a-z]{2}(-[a-z]+)-[0-9]+/[0-9a-fA-F]{16}`

Required: No

### **targetRegion**

The AWS Region to target with this execution. This is the Region that traffic will be shifted to or from, depending on the action.

Type: String

Required: Yes

## **Response Elements**

The following elements are returned by the service.

### **activateRegion**

The AWS Region to activate.

Type: String

### **deactivateRegion**

The AWS Region to deactivate.

Type: String

### **executionId**

The execution identifier of a plan execution.

Type: String

### **plan**

The details of the Region switch plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

### **planVersion**

The version of the plan, a unique number generated by Region switch.

Type: String

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### **IllegalArgumentException**

The request processing has an invalid argument.

HTTP Status Code: 400

## IllegalStateException

The operation failed because the current state of the resource doesn't allow the operation to proceed.

HTTP Status Code: 400

HTTP Status Code: 400

## ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# TagResource

Adds or updates tags for a Region switch resource. You can assign metadata to your resources in the form of tags, which are key-value pairs.

## Request Parameters

### arn

The Amazon Resource Name (ARN) for a tag that you add to a resource.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### tags

Tags that you add to a resource. You can add a maximum of 50 tags in Region switch.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

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

Required: Yes

## Errors

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

### InternalServerErrorException

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

HTTP Status Code: 500

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# UntagResource

Removes tags from a Region switch resource.

## Request Parameters

### arn

The Amazon Resource Name (ARN) for a tag you remove a resource from.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### resourceTagKeys

Tag keys that you remove from a resource.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

Required: Yes

## Errors

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

### InternalServerErrorException

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

HTTP Status Code: 500

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# UpdatePlan

Updates an existing Region switch plan. You can modify the plan's description, workflows, execution role, recovery time objective, associated alarms, and triggers.

## Request Parameters

### arn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### associatedAlarms

The updated CloudWatch alarms associated with the plan.

Type: String to [AssociatedAlarm](#) object map

Required: No

### description

The updated description for the Region switch plan.

Type: String

Required: No

### executionRole

The updated IAM role ARN that grants Region switch the permissions needed to execute the plan steps.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: Yes

## recoveryTimeObjectiveMinutes

The updated target recovery time objective (RTO) in minutes for the plan.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10080.

Required: No

## reportConfiguration

The updated report configuration for the plan.

Type: [ReportConfiguration](#) object

Required: No

## triggers

The updated conditions that can automatically trigger the execution of the plan.

Type: Array of [Trigger](#) objects

Required: No

## workflows

The updated workflows for the Region switch plan.

Type: Array of [Workflow](#) objects

Required: Yes

## Response Elements

The following element is returned by the service.

### plan

The details of the updated Region switch plan.

Type: [Plan](#) object

## Errors

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

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

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

# UpdatePlanExecution

Updates an in-progress plan execution. This operation allows you to modify certain aspects of the execution, such as adding a comment or changing the action.

## Request Parameters

### action

The action specified for a plan execution, for example, Switch to Graceful or Pause.

Type: String

Valid Values: `switchToGraceful` | `switchToUngraceful` | `pause` | `resume`

Required: Yes

### comment

An optional comment about the plan execution.

Type: String

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

Required: No

### executionId

The execution identifier of a plan execution.

Type: String

Required: Yes

### planArn

The Amazon Resource Name (ARN) of the plan with the execution to update.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### IllegalStateException

The operation failed because the current state of the resource doesn't allow the operation to proceed.

HTTP Status Code: 400

HTTP Status Code: 400

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

# UpdatePlanExecutionStep

Updates a specific step in an in-progress plan execution. This operation allows you to modify the step's comment or action.

## Request Parameters

### **actionToTake**

The updated action to take for the step. This can be used to skip or retry a step.

Type: String

Valid Values: `switchToUngraceful` | `skip`

Required: Yes

### **comment**

An optional comment about the plan execution.

Type: String

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

Required: Yes

### **executionId**

The unique identifier of the plan execution containing the step to update.

Type: String

Required: Yes

### **planArn**

The Amazon Resource Name (ARN) of the plan containing the execution step to update.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

## stepName

The name of the execution step to update.

Type: String

Required: Yes

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

HTTP Status Code: 403

### ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

HTTP Status Code: 404

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

# Data Types

The ARC - Region switch 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:

- [AbbreviatedExecution](#)
- [AbbreviatedPlan](#)
- [ArcRoutingControlConfiguration](#)
- [ArcRoutingControlState](#)
- [Asg](#)
- [AssociatedAlarm](#)
- [CustomActionLambdaConfiguration](#)
- [DocumentDbConfiguration](#)
- [DocumentDbUngraceful](#)
- [Ec2AsgCapacityIncreaseConfiguration](#)
- [Ec2Ungraceful](#)
- [EcsCapacityIncreaseConfiguration](#)
- [EcsUngraceful](#)
- [EksCluster](#)
- [EksResourceScalingConfiguration](#)
- [EksResourceScalingUngraceful](#)
- [ExecutionApprovalConfiguration](#)
- [ExecutionBlockConfiguration](#)
- [ExecutionEvent](#)
- [FailedReportOutput](#)

- [GeneratedReport](#)
- [GlobalAuroraConfiguration](#)
- [GlobalAuroraUngraceful](#)
- [KubernetesResourceType](#)
- [KubernetesScalingResource](#)
- [Lambdas](#)
- [LambdaUngraceful](#)
- [MinimalWorkflow](#)
- [ParallelExecutionBlockConfiguration](#)
- [Plan](#)
- [RdsCreateCrossRegionReplicaConfiguration](#)
- [RdsPromoteReadReplicaConfiguration](#)
- [RegionSwitchPlanConfiguration](#)
- [ReportConfiguration](#)
- [ReportOutput](#)
- [ReportOutputConfiguration](#)
- [ResourceWarning](#)
- [Route53HealthCheck](#)
- [Route53HealthCheckConfiguration](#)
- [Route53ResourceRecordSet](#)
- [S3ReportOutput](#)
- [S3ReportOutputConfiguration](#)
- [Service](#)
- [Step](#)
- [StepState](#)
- [Trigger](#)
- [TriggerCondition](#)
- [Workflow](#)

# AbbreviatedExecution

A summarized representation of a plan execution. This structure contains key information about an execution without all the detailed step data.

## Contents

### **executionAction**

The plan execution action. Valid values are `activate`, to activate an AWS Region, or `deactivate`, to deactivate a Region.

Type: String

Valid Values: `activate` | `deactivate` | `postRecovery`

Required: Yes

### **executionId**

The execution identifier of a plan execution.

Type: String

Required: Yes

### **executionRegion**

The AWS Region for a plan execution.

Type: String

Required: Yes

### **executionState**

The plan execution state. Provides the state of a plan execution, for example, `In Progress` or `Paused by Operator`.

Type: String

Valid Values: `inProgress` | `pausedByFailedStep` | `pausedByOperator` | `completed` | `completedWithExceptions` | `canceled` |

planExecutionTimedOut | pendingManualApproval | failed | pending | completedMonitoringApplicationHealth

Required: Yes

### **mode**

The plan execution mode. Valid values are `graceful`, for graceful executions, or `ungraceful`, for ungraceful executions.

Type: String

Valid Values: `graceful` | `ungraceful`

Required: Yes

### **planArn**

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### **startTime**

The timestamp when the plan execution was started.

Type: Timestamp

Required: Yes

### **actualRecoveryTime**

The actual recovery time that Region switch calculates for a plan execution. Actual recovery time includes the time for the plan to run added to the time elapsed until the application health alarms that you've specified are healthy again.

Type: String

Pattern: `P(?!$)(\d+Y)?(\d+M)?(\d+D)?(T(?:=\d)(\d+H)?(\d+M)?(\d+S)?)?`

Required: No

**comment**

An optional comment about the plan execution.

Type: String

Required: No

**endTime**

The timestamp when the plan execution was ended.

Type: Timestamp

Required: No

**recoveryExecutionId**

The unique identifier of the most recent recovery execution. Required when starting a post-recovery execution.

Type: String

Required: No

**updatedAt**

The timestamp when the plan execution was last updated.

Type: Timestamp

Required: No

**version**

The version for the plan.

Type: String

Required: No

**See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AbbreviatedPlan

A summarized representation of a Region switch plan. This structure contains key information about a plan without all the detailed workflow and step data.

## Contents

### arn

The Amazon Resource Name (ARN) of the Region switch plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### name

The name of a Region switch plan.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?`

Required: Yes

### owner

The owner of a Region switch plan.

Type: String

Pattern: `\d{12}`

Required: Yes

### recoveryApproach

The recovery approach for a Region switch plan, which can be active/active (activeActive) or active/passive (activePassive).

Type: String

Valid Values: `activeActive` | `activePassive`

Required: Yes

### **regions**

The AWS Region specified for a Region switch plan.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: Yes

### **activePlanExecution**

Specifies if this is the active plan execution at this time.

Type: String

Required: No

### **description**

The description of a Region switch plan.

Type: String

Required: No

### **executionRole**

The execution role is a way to categorize a Region switch plan.

Type: String

Required: No

### **primaryRegion**

The primary Region for a plan.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: No

### **recoveryTimeObjectiveMinutes**

The recovery time objective that you've specified.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10080.

Required: No

### **updatedAt**

The timestamp when the plan execution was last updated.

Type: Timestamp

Required: No

### **version**

The version for the plan.

Type: String

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ArcRoutingControlConfiguration

Configuration for ARC routing controls used in a Region switch plan. Routing controls are simple on/off switches that you can use to shift traffic away from an impaired Region.

## Contents

### **regionAndRoutingControls**

The Region and ARC routing controls for the configuration.

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

Required: Yes

### **crossAccountRole**

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### **externalId**

The external ID (secret key) for the configuration.

Type: String

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ArcRoutingControlState

Represents the state of an ARC routing control.

## Contents

### routingControlArn

The Amazon Resource Name (ARN) of a routing control.

Type: String

Required: Yes

### state

The state of an ARC routing control, On or Off.

Type: String

Valid Values: On | Off

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Asg

Configuration for an Amazon EC2 Auto Scaling group used in a Region switch plan.

## Contents

### arn

The Amazon Resource Name (ARN) of the EC2 Auto Scaling group.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:autoscaling:[a-z0-9-]+\d{12}:autoScalingGroup:[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}:autoScalingGroupName/[\S\s]{1,255}`

Required: No

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)

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

# AssociatedAlarm

An Amazon CloudWatch alarm associated with a Region switch plan. These alarms can be used to trigger automatic execution of the plan.

## Contents

### alarmType

The alarm type for an associated alarm. An associated CloudWatch alarm can be an application health alarm or a trigger alarm.

Type: String

Valid Values: `applicationHealth` | `trigger`

Required: Yes

### resourceIdentifier

The resource identifier for alarms that you associate with a plan.

Type: String

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CustomActionLambdaConfiguration

Configuration for AWS Lambda functions that perform custom actions during a Region switch.

## Contents

### lambdas

The AWS Lambda functions for the execution block.

Type: Array of [Lambdas](#) objects

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

Required: Yes

### regionToRun

The AWS Region for the function to run in. For recovery workflows use `activatingRegion` or `deactivatingRegion`. For post-recovery workflows, use `activeRegion` (the Region with customer traffic) or `inactiveRegion` (the Region with no customer traffic).

Type: String

Valid Values: `activatingRegion` | `deactivatingRegion` | `activeRegion` | `inactiveRegion`

Required: Yes

### retryIntervalMinutes

The retry interval specified.

Type: Float

Required: Yes

### timeoutMinutes

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## **ungraceful**

The settings for ungraceful execution.

Type: [LambdaUngraceful](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DocumentDbConfiguration

Configuration for Amazon DocumentDB global clusters used in a Region switch plan.

## Contents

### behavior

The behavior for a global cluster, that is, only allow switchover or also allow failover.

Type: String

Valid Values: `switchoverOnly` | `failover`

Required: Yes

### databaseClusterArns

The database cluster Amazon Resource Names (ARNs) for a DocumentDB global cluster.

Type: Array of strings

Pattern: `arn:aws[a-zA-Z-]*:rds:[a-z0-9-]+\d{12}:cluster:[a-zA-Z0-9][a-zA-Z0-9-_\]{0,99}`

Required: Yes

### globalClusterIdentifier

The global cluster identifier for a DocumentDB global cluster.

Type: String

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### **externalId**

The external ID (secret key) for the configuration.

Type: String

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### **ungraceful**

The settings for ungraceful execution.

Type: [DocumentDbUngraceful](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DocumentDbUngraceful

Configuration for handling failures when performing operations on DocumentDB global clusters.

## Contents

### ungraceful

The settings for ungraceful execution.

Type: String

Valid Values: `failover`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Ec2AsgCapacityIncreaseConfiguration

Configuration for increasing the capacity of Amazon EC2 Auto Scaling groups during a Region switch.

## Contents

### **asgs**

The EC2 Auto Scaling groups for the configuration.

Type: Array of [Asg](#) objects

Array Members: Fixed number of 2 items.

Required: Yes

### **capacityMonitoringApproach**

The monitoring approach that you specify EC2 Auto Scaling groups for the configuration.

Type: String

Valid Values: `sampledMaxInLast24Hours` | `autoscalingMaxInLast24Hours`

Required: No

### **targetPercent**

The target percentage that you specify for EC2 Auto Scaling groups. The default is 100.

Type: Integer

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## ungraceful

The settings for ungraceful execution.

Type: [Ec2Ungraceful](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Ec2Ungraceful

Configuration for handling failures when performing operations on EC2 resources.

## Contents

### **minimumSuccessPercentage**

The minimum success percentage that you specify for EC2 Auto Scaling groups.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EcsCapacityIncreaseConfiguration

The configuration for an AWS ECS capacity increase.

## Contents

### services

The services specified for the configuration.

Type: Array of [Service](#) objects

Array Members: Fixed number of 2 items.

Required: Yes

### capacityMonitoringApproach

The monitoring approach specified for the configuration, for example, `Most_Recent`.

Type: String

Valid Values: `sampledMaxInLast24Hours` | `containerInsightsMaxInLast24Hours`

Required: No

### targetPercent

The target percentage specified for the configuration. The default is 100.

Type: Integer

Required: No

### timeoutMinutes

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### ungraceful

The settings for ungraceful execution.

Type: [EcsUngraceful](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EcsUngraceful

The settings for ungraceful execution.

## Contents

### **minimumSuccessPercentage**

The minimum success percentage specified for the configuration.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EksCluster

The AWS EKS cluster execution block configuration.

## Contents

### clusterArn

The Amazon Resource Name (ARN) of an AWS EKS cluster.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:eks:[a-z0-9-]+\d{12}:cluster/[a-zA-Z0-9][a-zA-Z0-9-_\d]{0,99}`

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# EksResourceScalingConfiguration

The AWS EKS resource scaling configuration.

## Contents

### kubernetesResourceType

The Kubernetes resource type for the configuration.

Type: [KubernetesResourceType](#) object

Required: Yes

### capacityMonitoringApproach

The monitoring approach for the configuration, that is, whether it was sampled in the last 24 hours or autoscaled in the last 24 hours.

Type: String

Valid Values: `samp1edMaxInLast24Hours`

Required: No

### eksClusters

The clusters for the configuration.

Type: Array of [EksCluster](#) objects

Array Members: Minimum number of 2 items.

Required: No

### scalingResources

The scaling resources for the configuration.

Type: Array of string to string to [KubernetesScalingResource](#) object map maps

Array Members: Minimum number of 1 item.

Key Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: No

### **targetPercent**

The target percentage for the configuration. The default is 100.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### **ungraceful**

The settings for ungraceful execution.

Type: [EksResourceScalingUngraceful](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EksResourceScalingUngraceful

The ungraceful settings for AWS EKS resource scaling.

## Contents

### **minimumSuccessPercentage**

The minimum success percentage for the configuration.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExecutionApprovalConfiguration

Configuration for approval steps in a Region switch plan execution. Approval steps require manual intervention before the execution can proceed.

## Contents

### approvalRole

The IAM approval role for the configuration.

Type: String

Required: Yes

### timeoutMinutes

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExecutionBlockConfiguration

Execution block configurations for a workflow in a Region switch plan. An execution block represents a specific type of action to perform during a Region switch.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **arcRoutingControlConfig**

An ARC routing control execution block.

Type: [ArcRoutingControlConfiguration](#) object

Required: No

### **customActionLambdaConfig**

An AWS Lambda execution block.

Type: [CustomActionLambdaConfiguration](#) object

Required: No

### **documentDbConfig**

Configuration for Amazon DocumentDB global clusters used in a Region switch plan.

Type: [DocumentDbConfiguration](#) object

Required: No

### **ec2AsgCapacityIncreaseConfig**

An EC2 Auto Scaling group execution block.

Type: [Ec2AsgCapacityIncreaseConfiguration](#) object

Required: No

### **ecsCapacityIncreaseConfig**

The capacity increase specified for the configuration.

Type: [EcsCapacityIncreaseConfiguration](#) object

Required: No

### **eksResourceScalingConfig**

An AWS EKS resource scaling execution block.

Type: [EksResourceScalingConfiguration](#) object

Required: No

### **executionApprovalConfig**

A manual approval execution block.

Type: [ExecutionApprovalConfiguration](#) object

Required: No

### **globalAuroraConfig**

An Aurora Global Database execution block.

Type: [GlobalAuroraConfiguration](#) object

Required: No

### **parallelConfig**

A parallel configuration execution block.

Type: [ParallelExecutionBlockConfiguration](#) object

Required: No

### **rdsCreateCrossRegionReadReplicaConfig**

An Amazon RDS create cross-Region replica execution block.

Type: [RdsCreateCrossRegionReplicaConfiguration](#) object

Required: No

## **rdsPromoteReadReplicaConfig**

An Amazon RDS promote read replica execution block.

Type: [RdsPromoteReadReplicaConfiguration](#) object

Required: No

## **regionSwitchPlanConfig**

A Region switch plan execution block.

Type: [RegionSwitchPlanConfiguration](#) object

Required: No

## **route53HealthCheckConfig**

The Amazon Route 53 health check configuration.

Type: [Route53HealthCheckConfiguration](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExecutionEvent

Represents an event that occurred during a plan execution. These events provide a detailed timeline of the execution process.

## Contents

### eventId

The event ID for an execution event.

Type: String

Required: Yes

### description

The description for an execution event.

Type: String

Required: No

### error

Errors for an execution event.

Type: String

Required: No

### executionBlockType

The execution block type for an execution event.

Type: String

Valid Values: CustomActionLambda | ManualApproval | AuroraGlobalDatabase | EC2AutoScaling | ARCRoutingControl | ARCRegionSwitchPlan | Parallel | ECSServiceScaling | EKSResourceScaling | Route53HealthCheck | DocumentDb | RdsPromoteReadReplica | RdsCreateCrossRegionReplica

Required: No

**previousEventId**

The event ID of the previous execution event.

Type: String

Required: No

**resources**

The resources for an execution event.

Type: Array of strings

Required: No

**stepName**

The step name for an execution event.

Type: String

Required: No

**timestamp**

The timestamp for an execution event.

Type: Timestamp

Required: No

**type**

The type of an execution event.

Type: String

Valid Values: unknown | executionPending | executionStarted | executionSucceeded | executionFailed | executionPausing | executionPaused | executionCanceling | executionCanceled | executionPendingApproval | executionBehaviorChangedToUngraceful | executionBehaviorChangedToGraceful | executionPendingChildPlanManualApproval | executionSuccessMonitoringApplicationHealth | stepStarted

| stepUpdate | stepSucceeded | stepFailed | stepSkipped |  
stepPausedByError | stepPausedByOperator | stepCanceled |  
stepPendingApproval | stepExecutionBehaviorChangedToUngraceful |  
stepPendingApplicationHealthMonitor | planEvaluationWarning

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FailedReportOutput

Information about a report generation that failed.

## Contents

### errorCode

The error code for the failed report generation.

Type: String

Valid Values: `insufficientPermissions` | `invalidResource` | `configurationError`

Required: No

### errorMessage

The error message for the failed report generation.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GeneratedReport

Information about a generated execution report.

## Contents

### reportGenerationTime

The timestamp when the report was generated.

Type: Timestamp

Required: No

### reportOutput

The output location or cause of a failure in report generation.

Type: [ReportOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlobalAuroraConfiguration

Configuration for Amazon Aurora global databases used in a Region switch plan.

## Contents

### behavior

The behavior for a global database, that is, only allow switchover or also allow failover.

Type: String

Valid Values: `switchoverOnly` | `failover`

Required: Yes

### databaseClusterArns

The database cluster Amazon Resource Names (ARNs) for a global database.

Type: Array of strings

Pattern: `arn:aws[a-zA-Z-]*:rds:[a-z0-9-]+\d{12}:cluster:[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### globalClusterIdentifier

The global cluster identifier for a global database.

Type: String

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

Pattern: `[A-Za-z][0-9A-Za-z-:._]*`

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### **externalId**

The external ID (secret key) for the configuration.

Type: String

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### **ungraceful**

The settings for ungraceful execution.

Type: [GlobalAuroraUngraceful](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlobalAuroraUngraceful

Configuration for handling failures when performing operations on Aurora global databases.

## Contents

### ungraceful

The settings for ungraceful execution.

Type: String

Valid Values: `failover`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KubernetesResourceType

Defines the type of Kubernetes resource to scale in an Amazon EKS cluster.

## Contents

### apiVersion

The API version type for the Kubernetes resource.

Type: String

Required: Yes

### kind

The kind for the Kubernetes resource.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KubernetesScalingResource

Defines a Kubernetes resource to scale in an Amazon EKS cluster.

## Contents

### name

The name for the Kubernetes resource.

Type: String

Required: Yes

### namespace

The namespace for the Kubernetes resource.

Type: String

Pattern: `[a-z0-9][a-z0-9-]{0,61}[a-z0-9]`

Required: Yes

### hpaName

The hpaname for the Kubernetes resource.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Lambdas

Configuration for AWS Lambda functions used in a Region switch plan.

## Contents

### arn

The Amazon Resource Name (ARN) of the Lambda function.

Type: String

Required: No

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LambdaUngraceful

Configuration for handling failures when invoking Lambda functions.

## Contents

### behavior

The ungraceful behavior for a Lambda function, which must be set to `skip`.

Type: String

Valid Values: `skip`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MinimalWorkflow

A simplified representation of a workflow in a Region switch plan.

## Contents

### action

The action for a minimal workflow, which can be Activate or Deactivate.

Type: String

Valid Values: activate | deactivate | postRecovery

Required: No

### name

The name for a minimal workflow

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ParallelExecutionBlockConfiguration

Configuration for steps that should be executed in parallel during a Region switch.

## Contents

### steps

The steps for a parallel execution block.

Type: Array of [Step](#) objects

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Plan

Represents a Region switch plan. A plan defines the steps required to shift traffic from one AWS Region to another.

## Contents

### arn

The Amazon Resource Name (ARN) of the plan.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### executionRole

The execution role for a plan.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: Yes

### name

The name for a plan.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?`

Required: Yes

### owner

The owner of a plan.

Type: String

Pattern: `\d{12}`

Required: Yes

### **recoveryApproach**

The recovery approach for a Region switch plan, which can be active/active (activeActive) or active/passive (activePassive).

Type: String

Valid Values: activeActive | activePassive

Required: Yes

### **regions**

The AWS Regions for a plan.

Type: Array of strings

Array Members: Fixed number of 2 items.

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: Yes

### **workflows**

The workflows for a plan.

Type: Array of [Workflow](#) objects

Required: Yes

### **associatedAlarms**

The associated application health alarms for a plan.

Type: String to [AssociatedAlarm](#) object map

Required: No

### **description**

The description for a plan.

Type: String

Required: No

### **primaryRegion**

The primary Region for a plan.

Type: String

Pattern: [a-z]{2}-[a-z-]+\d+

Required: No

### **recoveryTimeObjectiveMinutes**

The recovery time objective for a plan.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10080.

Required: No

### **reportConfiguration**

The report configuration for a plan.

Type: [ReportConfiguration](#) object

Required: No

### **triggers**

The triggers for a plan.

Type: Array of [Trigger](#) objects

Required: No

### **updatedAt**

The timestamp when the plan was last updated.

Type: Timestamp

Required: No

**version**

The version for the plan.

Type: String

Required: No

**See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RdsCreateCrossRegionReplicaConfiguration

Configuration for creating an Amazon RDS cross-Region read replica during post-recovery in a Region switch.

## Contents

### **dbInstanceArnMap**

A map of database instance ARNs for each Region in the plan.

Type: String to string map

Key Pattern: `[a-z]{2}-[a-z-]+\d+`

Value Pattern: `arn:aws[a-zA-Z-]*:rds:[a-z0-9-]+\d{12}:db:[a-zA-Z][a-zA-Z0-9]*(-[a-zA-Z0-9]+)*`

Required: Yes

### **crossAccountRole**

The cross-account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### **externalId**

The external ID (secret key) for the configuration.

Type: String

Required: No

### **timeoutMinutes**

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RdsPromoteReadReplicaConfiguration

Configuration for promoting an Amazon RDS read replica to a standalone database instance during a Region switch.

## Contents

### dbInstanceArnMap

A map of database instance ARNs for each Region in the plan.

Type: String to string map

Key Pattern: `[a-z]{2}-[a-z-]+\d+`

Value Pattern: `arn:aws[a-zA-Z-]*:rds:[a-z0-9-]+\d{12}:db:[a-zA-Z][a-zA-Z0-9]*(-[a-zA-Z0-9]+)*`

Required: Yes

### crossAccountRole

The cross-account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

### timeoutMinutes

The timeout value specified for the configuration.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RegionSwitchPlanConfiguration

Configuration for nested Region switch plans. This allows one Region switch plan to trigger another plan as part of its execution.

## Contents

### arn

The Amazon Resource Name (ARN) of the plan configuration.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:arc-region-switch::[0-9]{12}:plan/([a-zA-Z0-9](?:[a-zA-Z0-9-]{0,30}[a-zA-Z0-9])?):([a-z0-9]{6})`

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)

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

# ReportConfiguration

Configuration for automatic report generation for plan executions. When configured, Region switch automatically generates a report after each plan execution that includes execution events, plan configuration, and CloudWatch alarm states.

## Contents

### reportOutput

The output configuration for the report.

Type: Array of [ReportOutputConfiguration](#) objects

Array Members: Fixed number of 1 item.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReportOutput

The output location or cause of a failure in report generation.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### failedReportOutput

The details about a failed report generation.

Type: [FailedReportOutput](#) object

Required: No

### s3ReportOutput

Information about a report delivered to Amazon S3.

Type: [S3ReportOutput](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReportOutputConfiguration

Configuration for report output destinations used in a Region switch plan.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### s3Configuration

Configuration for delivering reports to an Amazon S3 bucket.

Type: [S3ReportOutputConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceWarning

Represents a warning about a resource in a Region switch plan.

## Contents

### **version**

The version for the resource warning.

Type: String

Required: Yes

### **warningMessage**

The warning message about what needs to be corrected.

Type: String

Required: Yes

### **warningStatus**

The status of the resource warning.

Type: String

Valid Values: `active` | `resolved`

Required: Yes

### **warningUpdatedTime**

The timestamp when the warning was last updated.

Type: Timestamp

Required: Yes

### **resourceArn**

The Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

### **stepName**

The name of the step for the resource warning.

Type: String

Required: No

### **workflow**

The workflow for the resource warning.

Type: [MinimalWorkflow](#) object

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Route53HealthCheck

The Amazon Route 53 health check.

## Contents

### hostedZoneId

The Amazon Route 53 health check hosted zone ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

### recordName

The Amazon Route 53 record name.

Type: String

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

Required: Yes

### region

The Amazon Route 53 Region.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: Yes

### healthCheckId

The Amazon Route 53 health check ID.

Type: String

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

Required: No

**status**

The Amazon Route 53 health check status.

Type: String

Valid Values: healthy | unhealthy | unknown

Required: No

**See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Route53HealthCheckConfiguration

The Amazon Route 53 health check configuration.

## Contents

### hostedZoneId

The Amazon Route 53 health check configuration hosted zone ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

### recordName

The Amazon Route 53 health check configuration record name.

Type: String

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

Required: Yes

### crossAccountRole

The cross account role for the configuration.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the configuration.

Type: String

Required: No

### recordSets

The Amazon Route 53 health check configuration record sets.

Type: Array of [Route53ResourceRecordSet](#) objects

Required: No

### **timeoutMinutes**

The Amazon Route 53 health check configuration time out (in minutes).

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Route53ResourceRecordSet

The Amazon Route 53 record set.

## Contents

### **recordSetIdentifier**

The Amazon Route 53 record set identifier.

Type: String

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

Required: No

### **region**

The Amazon Route 53 record set Region.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3ReportOutput

Information about a report delivered to Amazon S3.

## Contents

### s3ObjectKey

The S3 object key where the generated report is stored.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3ReportOutputConfiguration

Configuration for delivering generated reports to an Amazon S3 bucket.

## Contents

### bucketOwner

The AWS account ID that owns the S3 bucket. Required to ensure the bucket is still owned by the same expected owner at generation time.

Type: String

Pattern: `\d{12}`

Required: No

### bucketPath

The S3 bucket name and optional prefix where reports are stored. Format: bucket-name or bucket-name/prefix.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 512.

Pattern: `(?:s3://)?[a-z0-9][a-z0-9-]{1,61}[a-z0-9](?:/[^\ ]+[/]*)*/?`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Service

The service for a cross account role.

## Contents

### clusterArn

The cluster Amazon Resource Name (ARN) for a service.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:ecs:[a-z0-9-]+\d{12}:cluster/[a-zA-Z0-9_-]{1,255}`

Required: No

### crossAccountRole

The cross account role for a service.

Type: String

Pattern: `arn:aws[a-zA-Z0-9-]*:iam::[0-9]{12}:role/.+`

Required: No

### externalId

The external ID (secret key) for the service.

Type: String

Required: No

### serviceArn

The Amazon Resource Name (ARN) for a service.

Type: String

Pattern: `arn:aws[a-zA-Z-]*:ecs:[a-z0-9-]+\d{12}:service/[a-zA-Z0-9_-]+/[a-zA-Z0-9_-]{1,255}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Step

Represents a step in a Region switch plan workflow. Each step performs a specific action during the Region switch process.

## Contents

### **executionBlockConfiguration**

The configuration for an execution block in a workflow.

Type: [ExecutionBlockConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **executionBlockType**

The type of an execution block in a workflow.

Type: String

Valid Values: CustomActionLambda | ManualApproval | AuroraGlobalDatabase | EC2AutoScaling | ARCRoutingControl | ARCRegionSwitchPlan | Parallel | ECSServiceScaling | EKSResourceScaling | Route53HealthCheck | DocumentDb | RdsPromoteReadReplica | RdsCreateCrossRegionReplica

Required: Yes

### **name**

The name of a step in a workflow.

Type: String

Required: Yes

### **description**

The description of a step in a workflow.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StepState

Represents the state of a step in a plan execution.

## Contents

### endTime

The timestamp when a step ended execution.

Type: Timestamp

Required: No

### name

The name of a step in a workflow.

Type: String

Required: No

### startTime

The timestamp when a step started execution.

Type: Timestamp

Required: No

### status

The status of a step in a workflow. For example, a status might be Completed or Pending Approval.

Type: String

Valid Values: `notStarted` | `running` | `failed` | `completed` | `canceled` | `skipped` | `pendingApproval`

Required: No

### stepMode

The mode for a step execution. The mode can be Graceful or Ungraceful.

Type: String

Valid Values: `graceful` | `ungraceful`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Trigger

Defines a condition that can automatically trigger the execution of a Region switch plan.

## Contents

### action

The action to perform when the trigger fires. Valid values include `activate` and `deactivate`.

Type: String

Valid Values: `activate` | `deactivate` | `postRecovery`

Required: Yes

### conditions

The conditions that must be met for the trigger to fire.

Type: Array of [TriggerCondition](#) objects

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

Required: Yes

### minDelayMinutesBetweenExecutions

The minimum time, in minutes, that must elapse between automatic executions of the plan.

Type: Integer

Required: Yes

### targetRegion

The AWS Region for a trigger.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: Yes

## description

The description for a trigger.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TriggerCondition

Defines a condition that must be met for a trigger to fire.

## Contents

### **associatedAlarmName**

The name of the CloudWatch alarm associated with the condition.

Type: String

Required: Yes

### **condition**

The condition that must be met. Valid values include `green` and `red`.

Type: String

Valid Values: `red` | `green`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Workflow

Represents a workflow in a Region switch plan. A workflow defines a sequence of steps to execute during a Region switch.

## Contents

### **workflowTargetAction**

The action that the workflow performs. Valid values include `activate` and `deactivate`.

Type: String

Valid Values: `activate` | `deactivate` | `postRecovery`

Required: Yes

### **steps**

The steps that make up the workflow.

Type: Array of [Step](#) objects

Required: No

### **workflowDescription**

The description of the workflow.

Type: String

Required: No

### **workflowTargetRegion**

The AWS Region that the workflow targets.

Type: String

Pattern: `[a-z]{2}-[a-z-]+\d+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

## Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

### **UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

### **UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

### **ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400