

Amazon Application Recovery Controller



Amazon Application Recovery Controller: API Reference Guide for Region Switch

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Welcome

Amazon Application Recovery Controller (ARC) Region switch helps you to quickly and reliably shift traffic away from an impaired Amazon Web Services Region to a healthy Region. With Region switch, you can create plans that define the steps to shift traffic for your application from one Amazon Web Services Region to another. You can test your plans in practice mode before using them in a real recovery scenario.

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.

This document was last published on September 17, 2025.

Actions

The following actions are supported:

- [ApprovePlanExecutionStep](#)
- [CancelPlanExecution](#)
- [CreatePlan](#)
- [DeletePlan](#)
- [GetPlan](#)
- [GetPlanEvaluationStatus](#)
- [GetPlanExecution](#)
- [GetPlanInRegion](#)
- [ListPlanExecutionEvents](#)
- [ListPlanExecutions](#)
- [ListPlans](#)
- [ListPlansInRegion](#)
- [ListRoute53HealthChecks](#)
- [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 Errors](#).

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 Amazon SDKs, see the following:

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

- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Errors](#).

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

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- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
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- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

CreatePlan

Creates a new Region switch plan. A plan defines the steps required to shift traffic from one Amazon Web Services 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 Amazon Web Services 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 Amazon Web Services 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

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 Errors](#).

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
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- [Amazon SDK for Python](#)
- [Amazon 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 Errors](#).

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Amazon Web Services Region, or `Deactivate`, to deactivate a Region.

Type: String

Valid Values: `activate` | `deactivate`

executionId

The execution identifier of a plan execution.

Type: String

executionRegion

The Amazon Web Services 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`

mode

The plan execution mode. Valid values are `Practice`, for testing without making actual changes, or `Recovery`, for actual traffic shifting and application recovery.

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})`

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 Errors](#).

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 Amazon SDKs, see the following:

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

GetPlanInRegion

Retrieves information about a Region switch plan in a specific Amazon Web Services 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 Errors](#).

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
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- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Errors](#).

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 Amazon SDKs, see the following:

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- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

ListPlans

Lists all Region switch plans in your Amazon Web Services 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 Errors](#).

See Also

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

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

ListPlansInRegion

Lists all Region switch plans in your Amazon Web Services account that are available in the current Amazon Web Services 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 Errors](#).

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

StartPlanExecution

Starts the execution of a Region switch plan. You can execute a plan in either PRACTICE or RECOVERY mode.

In PRACTICE mode, the execution simulates the steps without making actual changes to your application's traffic routing. In RECOVERY mode, the execution performs actual changes to shift traffic between Regions.

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`

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 `Practice`, for testing without making actual changes, or `Recovery`, for actual traffic shifting and application recovery.

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

targetRegion

The Amazon Web Services 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 Amazon Web Services Region to activate.

Type: String

deactivateRegion

The Amazon Web Services 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 Errors](#).

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 Amazon SDKs, see the following:

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

InternalServerError

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

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 Errors](#).

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

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

- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 Errors](#).

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 Amazon SDKs, see the following:

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

- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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](#)
- [Ec2AsgCapacityIncreaseConfiguration](#)
- [Ec2Ungraceful](#)
- [EcsCapacityIncreaseConfiguration](#)
- [EcsUngraceful](#)
- [EksCluster](#)
- [EksResourceScalingConfiguration](#)
- [EksResourceScalingUngraceful](#)
- [ExecutionApprovalConfiguration](#)
- [ExecutionBlockConfiguration](#)
- [ExecutionEvent](#)
- [GlobalAuroraConfiguration](#)
- [GlobalAuroraUngraceful](#)
- [KubernetesResourceType](#)

- [KubernetesScalingResource](#)
- [Lambdas](#)
- [LambdaUngraceful](#)
- [MinimalWorkflow](#)
- [ParallelExecutionBlockConfiguration](#)
- [Plan](#)
- [RegionSwitchPlanConfiguration](#)
- [ResourceWarning](#)
- [Route53HealthCheck](#)
- [Route53HealthCheckConfiguration](#)
- [Route53ResourceRecordSet](#)
- [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 Amazon Web Services Region, or `Deactivate`, to deactivate a Region.

Type: String

Valid Values: `activate` | `deactivate`

Required: Yes

executionId

The execution identifier of a plan execution.

Type: String

Required: Yes

executionRegion

The Amazon Web Services 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 `Practice`, for testing without making actual changes, or `Recovery`, for actual traffic shifting and application recovery.

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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon Web Services 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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: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 Amazon SDKs, see the following:

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

- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

CustomActionLambdaConfiguration

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

Contents

lambdas

The Amazon 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 Amazon Web Services Region for the function to run in.

Type: String

Valid Values: `activatingRegion` | `deactivatingRegion`

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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

EcsCapacityIncreaseConfiguration

The configuration for an Amazon 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.

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

EksCluster

The Amazon EKS cluster execution block configuration.

Contents

clusterArn

The Amazon Resource Name (ARN) of an Amazon 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-_\]{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 Amazon SDKs, see the following:

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

- [Amazon SDK for Ruby V3](#)

EksResourceScalingConfiguration

The Amazon 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: `sampLedMaxInLast24Hours`

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.

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 Amazon SDKs, see the following:

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

EksResourceScalingUngraceful

The ungraceful settings for Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon Lambda execution block.

Type: [CustomActionLambdaConfiguration](#) 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 Amazon 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

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 Amazon SDKs, see the following:

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

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

Required: No

See Also

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

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

Required: Yes

globalClusterIdentifier

The global cluster identifier for a global database.

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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

Lambdas

Configuration for Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

Plan

Represents a Region switch plan. A plan defines the steps required to shift traffic from one Amazon Web Services 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 Amazon Web Services 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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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: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: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 Amazon SDKs, see the following:

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

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

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 Amazon Web Services 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 ALARM and OK.

Type: String

Valid Values: `red` | `green`

Required: Yes

See Also

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

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

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 Amazon Web Services 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed Amazon 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 Amazon 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 Amazon Security Token Service (Amazon STS). For a list of services that support temporary security credentials from Amazon STS, see [Amazon Web Services services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from Amazon 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 Amazon API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to Amazon standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400