



Recovery Readiness API Reference Guide

# Amazon Route 53 Application Recovery Controller



# Amazon Route 53 Application Recovery Controller: Recovery Readiness API Reference Guide

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# What is recovery readiness in Amazon Application Recovery Controller (ARC)?

Welcome to the Recovery Readiness API Reference Guide for Amazon Application Recovery Controller (ARC).

Recovery Readiness API actions support the readiness check feature of ARC. This API Reference Guide provides information about the API actions that you use to model your application with ARC. Next, you add readiness checks so that you can ensure that your application is always properly scaled and configured to handle failover traffic.

To set up recovery readiness in ARC, you model your application with structures that enable ARC to continually inspect your application resources and routing policies to make sure that your application's redundant failure-containment units, or replicas, are always ready for failover.

The first step is to create a *recovery group* that represents your application. Each recovery group includes *cells* for each individual failure-containment unit or *replica* of your application – for example, for each Regional or zonal version of the application. Then you create *resource sets* for each resource type and associate *readiness checks* with them. Finally, you associate the resources with the cells in your recovery group so that you can check the readiness status of your individual replicas.

With recovery groups and readiness checks, you can monitor the readiness status for each replica of your application—for example, in different AWS Regions—to determine how ready your application is to fail over from one replica to another. You can also monitor readiness details for resources at different levels and in different ways, such as checking the readiness of each type of resource. Or, you can view the readiness status of a resource in a specific cell (Availability Zone or Region).

By adding readiness checks, you can monitor the readiness status of your application and resources, for example, by using API calls. In addition, creating readiness checks enables ARC to take some corrective actions for you, to help make sure that your application and resources are ready for you to quickly reroute traffic to a failover application replica, if needed. After you create resource sets and set up readiness checks, ARC continually (once every minute) runs readiness checks on your resources. These checks inspect your resources to ensure that your provisioned capacities match, across all resource sets, and where possible, ARC takes corrective action. For more information, see the [Amazon Route 53 Application Recovery Controller Developer Guide](#).

After you create readiness checks, you can monitor and manage recovery readiness. You can also set up cross-account authorization in ARC to make it easier to set up and monitor distributed resources from one AWS account.

ARC is a global service that supports endpoints in multiple AWS Regions but you must specify the US West (Oregon) Region when you work with readiness and recovery control configuration resources, for example, to create readiness checks or routing controls.

For more information about ARC, see the following:

- For more information about creating resilient applications and preparing for recovery readiness with ARC, see the [Amazon Route 53 Application Recovery Controller Developer Guide](#).
- For more information setting up routing control in ARC to route around failures, see the [Recovery Control Configuration API Reference Guide for Amazon Route 53 Application Recovery Controller](#) and the [Routing Control API Reference Guide for Amazon Route 53 Application Recovery Controller](#).



# Resources

The Amazon Route 53 Application Recovery Controller REST API includes the following resources.

## Topics

- [DeleteCrossAccountAuthorization](#)
- [GetArchitectureRecommendations](#)
- [GetCell, UpdateCell, DeleteCell](#)
- [GetCellReadinessSummary](#)
- [GetReadinessCheck, UpdateReadinessCheck, DeleteReadinessCheck](#)
- [GetReadinessCheckResourceStatus](#)
- [GetReadinessCheckStatus](#)
- [GetRecoveryGroup, UpdateRecoveryGroup, DeleteRecoveryGroup](#)
- [GetRecoveryGroupReadinessSummary](#)
- [GetResourceSet, UpdateResourceSet, DeleteResourceSet](#)
- [ListCells, CreateCell](#)
- [ListCrossAccountAuthorizations, CreateCrossAccountAuthorization](#)
- [ListReadinessChecks, CreateReadinessCheck](#)
- [ListRecoveryGroups, CreateRecoveryGroup](#)
- [ListResourceSets, CreateResourceSet](#)
- [ListRules](#)
- [ListTagsForResource, TagResource, UntagResource](#)

## DeleteCrossAccountAuthorization

### URI

/crossaccountauthorizations/*crossAccountAuthorization*

## HTTP methods

### DELETE

**Operation ID:** DeleteCrossAccountAuthorization

Deletes cross account readiness authorization.

#### Path parameters

Name	Type	Required	Description
<i>crossAccountAuthorization</i>	String	True	The cross-account authorization.

#### Responses

Status code	Response model	Description
200	<a href="#">DeleteCrossAccountAuthorizationResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.

Status code	Response model	Description
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>crossAccountAuthorization</i>	String	True	The cross-account authorization.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Response bodies

#### DeleteCrossAccountAuthorizationResult schema

```
{  
}
```

## Properties

### DeleteCrossAccountAuthorizationResult

A successful DeleteCrossAccountAuthorization request returns no response.

### See also

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

### DeleteCrossAccountAuthorization

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

## GetArchitectureRecommendations

### URI

/recoverygroups/*recoveryGroupName*/architectureRecommendations

### HTTP methods

#### GET

#### Operation ID: GetArchitectureRecommendations

Gets recommendations about architecture designs for improving resiliency for an application, based on a recovery group.

## Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>roupName</i>	String	True	The name of a recovery group.

## Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

## Responses

Status code	Response model	Description
200	<a href="#">GetArchitectureRecommendationsOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>GroupName</i>	String	True	The name of a recovery group.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

# Schemas

## Response bodies

### GetArchitectureRecommendationsOutput schema

```
{
  "lastAuditTimestamp": "string",
  "nextToken": "string",
  "recommendations": [
    {
      "recommendationText": "string"
    }
  ]
}
```

## Properties

### GetArchitectureRecommendationsOutput

Result from GetArchitectureRecommendations call.

#### lastAuditTimestamp

The time that a recovery group was last assessed for recommendations, in UTC ISO-8601 format.

**Type:** string

**Required:** True

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

#### recommendations

A list of the recommendations for the customer's application.

**Type:** Array of type [Recommendation](#)

**Required:** True

## Recommendation

Recommendations that are provided to make an application more recovery resilient.

### **recommendationText**

Text of the recommendations that are provided to make an application more recovery resilient.

**Type:** string

**Required:** True

## See also

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

### **GetArchitectureRecommendations**

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

## **GetCell, UpdateCell, DeleteCell**

### **URI**

`/cells/cellName`



## HTTP methods

### GET

#### Operation ID: GetCell

Gets information about a cell including cell name, cell Amazon Resource Name (ARN), ARNs of nested cells for this cell, and a list of those cell ARNs with their associated recovery group ARNs.

#### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

#### Responses

Status code	Response model	Description
200	<a href="#">CellOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.

Status code	Response model	Description
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## PUT

**Operation ID:** UpdateCell

Updates a cell to replace the list of nested cells with a new list of nested cells.

### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

### Responses

Status code	Response model	Description
200	<a href="#">CellOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## DELETE

**Operation ID:** DeleteCell

Delete a cell. When successful, the response code is 204, with no response body.

### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

### Responses

Status code	Response model	Description
204	None	204 response - Successful deletion

Status code	Response model	Description
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

## Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### PUT schema

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

### Response bodies

#### CellOutput schema

```
{
  "cells": [
    "string"
  ],
  "parentReadinessScopes": [
    "string"
  ],
  "cellName": "string",
  "cellArn": "string",
  "tags": {
  }
}
```

## Properties

### CellOutput

Information about a cell.

## cells

A list of cell ARNs.

**Type:** Array of type string

**Required:** True

## parentReadinessScopes

The readiness scope for the cell, which can be a cell Amazon Resource Name (ARN) or a recovery group ARN. This is a list but currently can have only one element.

**Type:** Array of type string

**Required:** True

## cellName

The name of the cell.

**Type:** string

**Required:** True

**Pattern:** `\A[a-zA-Z0-9_]+\z`

**MaxLength:** 64

## cellArn

The Amazon Resource Name (ARN) for the cell.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

Tags on the resources.

**Type:** [Tags](#)

**Required:** False

## CellUpdateParameters

Parameters used to update a cell.

### cells

A list of cell Amazon Resource Names (ARNs), which completely replaces the previous list.

**Type:** Array of type string

**Required:** True

### Tags

A collection of tags associated with a resource.

### key-value pairs

**Type:** string

## See also

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

### GetCell

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

## UpdateCell

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

## DeleteCell

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

## GetCellReadinessSummary

### URI

/cellreadiness/*cellName*



## HTTP methods

### GET

**Operation ID:** GetCellReadinessSummary

Gets readiness for a cell. Aggregates the readiness of all the resources that are associated with the cell into a single value.

#### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

#### Responses

Status code	Response model	Description
200	<a href="#">GetCellReadinessSummaryOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed

Status code	Response model	Description
403	None	query string, an input parameter might be out of range, or you used parameter s together incorrectly. 403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>cellName</i>	String	True	The name of the cell.

## Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Response bodies

#### GetCellReadinessSummaryOutput schema

```
{
  "nextToken": "string",
  "readiness": enum,
  "readinessChecks": [
    {
      "readinessCheckName": "string",
      "readiness": enum
    }
  ]
}
```

## Properties

### GetCellReadinessSummaryOutput

Result of a GetReadinessCellSummary operation

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** True

#### readiness

The readiness at a cell level.

**Type:** [Readiness](#)

**Required:** True

## readinessChecks

Summaries for the readiness checks that make up the cell.

**Type:** Array of type [ReadinessCheckSummary](#)

**Required:** True

## Readiness

The readiness status.

READY

NOT\_READY

UNKNOWN

NOT\_AUTHORIZED

## ReadinessCheckSummary

Summary of all readiness check statuses in a recovery group, paginated in `GetRecoveryGroupReadinessSummary` and `GetCellReadinessSummary`.

### readinessCheckName

The name of a readiness check.

**Type:** string

**Required:** False

### readiness

The readiness status of this readiness check.

**Type:** [Readiness](#)

**Required:** False

## See also

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

### GetCellReadinessSummary

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

## GetReadinessCheck, UpdateReadinessCheck, DeleteReadinessCheck

### URI

/readinesschecks/*readinessCheckName*

### HTTP methods

#### GET

**Operation ID:** GetReadinessCheck

Gets details about a readiness check.

## Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.

## Responses

Status code	Response model	Description
200	<a href="#">ReadinessCheckOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## PUT

### Operation ID: UpdateReadinessCheck

Updates a readiness check.

#### Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.

#### Responses

Status code	Response model	Description
200	<a href="#">ReadinessCheckOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.

Status code	Response model	Description
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## DELETE

**Operation ID:** DeleteReadinessCheck

Deletes a readiness check.

### Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.

### Responses

Status code	Response model	Description
204	None	204 response - Successful deletion
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.



Status code	Response model	Description
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

# Schemas

## Request bodies

### PUT schema

```
{  
  "resourceSetName": "string"  
}
```

## Response bodies

### ReadinessCheckOutput schema

```
{  
  "resourceSet": "string",  
  "readinessCheckName": "string",  
  "readinessCheckArn": "string",  
  "tags": {  
  }  
}
```

## Properties

### ReadinessCheckOutput

A readiness check.

#### resourceSet

Name of the resource set to be checked.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

#### readinessCheckName

Name of a readiness check.

**Type:** string

**Required:** False

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

## readinessCheckArn

The Amazon Resource Name (ARN) associated with a readiness check.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

**Type:** [Tags](#)

**Required:** False

## ReadinessCheckUpdateParameters

Parameter used to create or update a readiness check.

## resourceSetName

The name of the resource set to be checked.

**Type:** string

**Required:** True

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## See also

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

### GetReadinessCheck

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

### UpdateReadinessCheck

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

### DeleteReadinessCheck

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

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

## GetReadinessCheckResourceStatus

### URI

/readinesschecks/*readinessCheckName*/resource/*resourceIdentifier*/status

### HTTP methods

#### GET

**Operation ID:** GetReadinessCheckResourceStatus

Gets individual readiness status for a readiness check. To see the overall readiness status for a recovery group, that considers the readiness status for all the readiness checks in the recovery group, use GetRecoveryGroupReadinessSummary.

#### Path parameters

Name	Type	Required	Description
<i>readinessCheckName</i>	String	True	Name of a readiness check.
<i>resourceIdentifier</i>	String	True	The resource identifier, which is the Amazon Resource Name (ARN) or the identifier generated for the resource by

Name	Type	Required	Description
			Application Recovery Controller (for example, for a DNS target resource).

### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

### Responses

Status code	Response model	Description
200	<a href="#">GetReadinessCheckResourceStatusOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

### Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.
<i>resourceI dentifier</i>	String	True	The resource identifier, which is the Amazon Resource Name (ARN) or the identifier generated for the resource by Application Recovery Controller (for example, for a DNS target resource).

## Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Response bodies

#### GetReadinessCheckResourceStatusOutput schema

```
{
  "nextToken": "string",
  "readiness": enum,
  "rules": [
    {
      "readiness": enum,
      "messages": [
        {
          "messageText": "string"
        }
      ],
      "lastCheckedTimestamp": "string",
      "ruleId": "string"
    }
  ]
}
```

## Properties

### GetReadinessCheckResourceStatusOutput

Result of a GetReadinessCheckResourceStatus operation.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string



**Required:** True

## readiness

The readiness at a rule level.

**Type:** [Readiness](#)

**Required:** True

## rules

Details of the rule's results.

**Type:** Array of type [RuleResult](#)

**Required:** True

## Message

Information relating to readiness check status.

### messageText

The text of a readiness check message.

**Type:** string

**Required:** False

## Readiness

The readiness status.

READY

NOT\_READY

UNKNOWN

NOT\_AUTHORIZED

## RuleResult

The result of a successful Rule request, with status for an individual rule.

## readiness

The readiness at rule level.

**Type:** [Readiness](#)

**Required:** True

## messages

Details about the resource's readiness.

**Type:** Array of type [Message](#)

**Required:** True

## lastCheckedTimestamp

The time the resource was last checked for readiness, in ISO-8601 format, UTC.

**Type:** string

**Required:** True

## ruleId

The identifier of the rule.

**Type:** string

**Required:** True

## See also

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

### GetReadinessCheckResourceStatus

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

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

## GetReadinessCheckStatus

### URI

/readinesschecks/*readinessCheckName*/status

### HTTP methods

#### GET

**Operation ID:** GetReadinessCheckStatus

Gets the readiness status for an individual readiness check. To see the overall readiness status for a recovery group, that considers the readiness status for all the readiness checks in a recovery group, use GetRecoveryGroupReadinessSummary.

#### Path parameters

Name	Type	Required	Description
<i>readinessCheckName</i>	String	True	Name of a readiness check.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch

Name	Type	Required	Description
maxResults	String	False	of results you want to see.  The number of objects that you want to return with this call.

## Responses

Status code	Response model	Description
200	<a href="#">GetReadinessCheckStatusOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.

Status code	Response model	Description
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Path parameters

Name	Type	Required	Description
<i>readiness CheckName</i>	String	True	Name of a readiness check.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Response bodies

#### GetReadinessCheckStatusOutput schema

```
{
  "nextToken": "string",
  "readiness": enum,
  "messages": [
    {
      "messageText": "string"
    }
  ],
}
```

```
"resources": [  
  {  
    "componentId": "string",  
    "readiness": enum,  
    "resourceArn": "string",  
    "lastCheckedTimestamp": "string"  
  }  
]  
}
```

## Properties

### GetReadinessCheckStatusOutput

Result of a GetReadinessCheckStatus operation.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** True

#### readiness

The readiness at rule level.

**Type:** [Readiness](#)

**Required:** True

#### messages

Top level messages for readiness check status

**Type:** Array of type [Message](#)

**Required:** True

#### resources

Summary of the readiness of resources.

**Type:** Array of type [ResourceResult](#)

**Required:** True

## Message

Information relating to readiness check status.

### messageText

The text of a readiness check message.

**Type:** string

**Required:** False

## Readiness

The readiness status.

READY

NOT\_READY

UNKNOWN

NOT\_AUTHORIZED

## ResourceResult

The result of a successful Resource request, with status for an individual resource.

### componentId

The component id of the resource.

**Type:** string

**Required:** False

### readiness

The readiness of a resource.

**Type:** [Readiness](#)

**Required:** True

### **resourceArn**

The Amazon Resource Name (ARN) of the resource.

**Type:** string

**Required:** False

### **lastCheckedTimestamp**

The time (UTC) that the resource was last checked for readiness, in ISO-8601 format.

**Type:** string

**Required:** True

## **See also**

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

### **GetReadinessCheckStatus**

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



# GetRecoveryGroup, UpdateRecoveryGroup, DeleteRecoveryGroup

## URI

/recoverygroups/*recoveryGroupName*

## HTTP methods

### GET

**Operation ID:** GetRecoveryGroup

Gets details about a recovery group, including a list of the cells that are included in it.

### Path parameters

Name	Type	Required	Description
<i>recoveryGroupName</i>	String	True	The name of a recovery group.

### Responses

Status code	Response model	Description
200	<a href="#">RecoveryGroupOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## PUT

**Operation ID:** UpdateRecoveryGroup

Updates a recovery group.

### Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>roupName</i>	String	True	The name of a recovery group.

### Responses

Status code	Response model	Description
200	<a href="#">RecoveryGroupOutput</a>	200 response - Success.

Status code	Response model	Description
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## DELETE

**Operation ID:** DeleteRecoveryGroup

Deletes a recovery group.

## Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>roupName</i>	String	True	The name of a recovery group.

## Responses

Status code	Response model	Description
204	None	204 response - Successful deletion
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary

Status code	Response model	Description
		service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

### Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>GroupName</i>	String	True	The name of a recovery group.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### PUT schema

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

### Response bodies

#### RecoveryGroupOutput schema

```
{
```

```
"cells": [  
  "string"  
],  
"recoveryGroupName": "string",  
"recoveryGroupArn": "string",  
"tags": {  
}  
}
```

## Properties

### RecoveryGroupOutput

A representation of the application, typically containing multiple cells.

#### cells

A list of a cell's Amazon Resource Names (ARNs).

**Type:** Array of type string

**Required:** True

#### recoveryGroupName

The name of the recovery group.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

#### recoveryGroupArn

The Amazon Resource Name (ARN) for the recovery group.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

The tags associated with the recovery group.

**Type:** [Tags](#)

**Required:** False

## RecoveryGroupUpdateParameters

Parameters used to update a recovery group.

## cells

A list of cell Amazon Resource Names (ARNs). This list completely replaces the previous list.

**Type:** Array of type string

**Required:** True

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## See also

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

## GetRecoveryGroup

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

## UpdateRecoveryGroup

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

## DeleteRecoveryGroup

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



# GetRecoveryGroupReadinessSummary

## URI

/recoverygroupreadiness/*recoveryGroupName*

## HTTP methods

### GET

**Operation ID:** GetRecoveryGroupReadinessSummary

Displays a summary of information about a recovery group's readiness status. Includes the readiness checks for resources in the recovery group and the readiness status of each one.

### Path parameters

Name	Type	Required	Description
<i>recoveryGroupName</i>	String	True	The name of a recovery group.

### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

## Responses

Status code	Response model	Description
200	<a href="#">GetRecoveryGroupReadinessSummaryOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

## Path parameters

Name	Type	Required	Description
<i>recoveryGroup</i> <i>roupName</i>	String	True	The name of a recovery group.

## Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Response bodies

#### GetRecoveryGroupReadinessSummaryOutput schema

```
{
  "nextToken": "string",
  "readiness": enum,
  "readinessChecks": [
    {
      "readinessCheckName": "string",
      "readiness": enum
    }
  ]
}
```

## Properties

### GetRecoveryGroupReadinessSummaryOutput

Result of a GetReadinessRecoveryGroupSummary operation.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** True

## readiness

The readiness status at a recovery group level.

**Type:** [Readiness](#)

**Required:** True

## readinessChecks

Summaries of the readiness checks for the recovery group.

**Type:** Array of type [ReadinessCheckSummary](#)

**Required:** True

## Readiness

The readiness status.

READY

NOT\_READY

UNKNOWN

NOT\_AUTHORIZED

## ReadinessCheckSummary

Summary of all readiness check statuses in a recovery group, paginated in [GetRecoveryGroupReadinessSummary](#) and [GetCellReadinessSummary](#).

## readinessCheckName

The name of a readiness check.

**Type:** string

**Required:** False

## readiness

The readiness status of this readiness check.

**Type:** [Readiness](#)

**Required:** False

## See also

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

### GetRecoveryGroupReadinessSummary

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

## GetResourceSet, UpdateResourceSet, DeleteResourceSet

### URI

`/resourcesets/resourceSetName`

### HTTP methods

#### GET

**Operation ID:** GetResourceSet

Displays the details about a resource set, including a list of the resources in the set.

## Path parameters

Name	Type	Required	Description
<i>resourceSetName</i>	String	True	Name of a resource set.

## Responses

Status code	Response model	Description
200	<a href="#">ResourceSetOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## PUT

### Operation ID: UpdateResourceSet

Updates a resource set.

#### Path parameters

Name	Type	Required	Description
<i>resourceSetName</i>	String	True	Name of a resource set.

#### Responses

Status code	Response model	Description
200	<a href="#">ResourceSetOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.

Status code	Response model	Description
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## DELETE

**Operation ID:** DeleteResourceSet

Deletes a resource set.

### Path parameters

Name	Type	Required	Description
<i>resourceSetName</i>	String	True	Name of a resource set.

### Responses

Status code	Response model	Description
204	None	204 response - Successful deletion
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.



Status code	Response model	Description
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

### Path parameters

Name	Type	Required	Description
<i>resourceSetName</i>	String	True	Name of a resource set.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

# Schemas

## Request bodies

### PUT schema

```
{
  "resourceSetType": "string",
  "resources": [
    {
      "readinessScopes": [
        "string"
      ],
      "componentId": "string",
      "resourceArn": "string",
      "dnsTargetResource": {
        "recordType": "string",
        "domainName": "string",
        "hostedZoneArn": "string",
        "targetResource": {
          "r53Resource": {
            "domainName": "string",
            "recordSetId": "string"
          },
          "nLBResource": {
            "arn": "string"
          }
        }
      },
      "recordSetId": "string"
    }
  ]
}
```

## Response bodies

### ResourceSetOutput schema

```
{
  "resourceSetType": "string",
  "resourceSetName": "string",
  "resources": [
    {
```

```
  "readinessScopes": [
    "string"
  ],
  "componentId": "string",
  "resourceArn": "string",
  "dnsTargetResource": {
    "recordType": "string",
    "domainName": "string",
    "hostedZoneArn": "string",
    "targetResource": {
      "r53Resource": {
        "domainName": "string",
        "recordSetId": "string"
      },
      "nLBResource": {
        "arn": "string"
      }
    },
    "recordSetId": "string"
  }
}
],
"resourceSetArn": "string",
"tags": {
}
}
```

## Properties

### DNSTargetResource

A component for DNS/routing control readiness checks and architecture checks.

#### recordType

The type of DNS record of the target resource.

**Type:** string

**Required:** False

#### domainName

The domain name that acts as an ingress point to a portion of the customer application.

**Type:** string  
**Required:** False

### **hostedZoneArn**

The hosted zone Amazon Resource Name (ARN) that contains the DNS record with the provided name of the target resource.

**Type:** string  
**Required:** False

### **targetResource**

The target resource of the DNS target resource.

**Type:** [TargetResource](#)  
**Required:** False

### **recordSetId**

The Route 53 record set ID that uniquely identifies a DNS record, given a name and a type.

**Type:** string  
**Required:** False

### **NLBResource**

The Network Load Balancer resource that a DNS target resource points to.

#### **arn**

The Network Load Balancer resource Amazon Resource Name (ARN).

**Type:** string  
**Required:** False

### **R53ResourceRecord**

The Route 53 resource that a DNS target resource record points to.

**domainName**

The DNS target domain name.

**Type:** string

**Required:** False

**recordSetId**

The Route 53 Resource Record Set ID.

**Type:** string

**Required:** False

**Resource**

The resource element of a resource set.

**readinessScopes**

The recovery group Amazon Resource Name (ARN) or the cell ARN that the readiness checks for this resource set are scoped to.

**Type:** Array of type string

**Required:** False

**componentId**

The component identifier of the resource, generated when DNS target resource is used.

**Type:** string

**Required:** False

**resourceArn**

The Amazon Resource Name (ARN) of the AWS resource.

**Type:** string

**Required:** False

## dnsTargetResource

The DNS target resource.

**Type:** [DNSTargetResource](#)

**Required:** False

## ResourceSetOutput

A collection of resources of the same type.

### resourceSetType

The resource type of the resources in the resource set. One of the following values:

AWS::ApiGateway::Stage, AWS::ApiGatewayV2::Stage, AWS::AutoScaling::AutoScalingGroup, AWS::CloudWatch::Alarm, AWS::EC2::CustomerGateway, AWS::DynamoDB::Table, AWS::EC2::Volume, AWS::ElasticLoadBalancing::LoadBalancer, AWS::ElasticLoadBalancingV2::LoadBalancer, AWS::Lambda::Function, AWS::MSK::Cluster, AWS::RDS::DBCluster, AWS::Route53::HealthCheck, AWS::SQS::Queue, AWS::SNS::Topic, AWS::SNS::Subscription, AWS::EC2::VPC, AWS::EC2::VPNConnection, AWS::EC2::VPNGateway, AWS::Route53RecoveryReadiness::DNSTargetResource

**Type:** string

**Required:** True

**Pattern:** `AWS:::[A-Za-z0-9]+:::[A-Za-z0-9]+`

### resourceSetName

The name of the resource set.

**Type:** string

**Required:** True

**Pattern:** `\A[a-zA-Z0-9_]+\z`

**MaxLength:** 64

### resources

A list of resource objects.

**Type:** Array of type [Resource](#)

**Required:** True

### **resourceSetArn**

The Amazon Resource Name (ARN) for the resource set.

**Type:** string

**Required:** True

**MaxLength:** 256

### **tags**

**Type:** [Tags](#)

**Required:** False

## **ResourceSetUpdateParameters**

Parameters used to create a resource set.

### **resourceSetType**

The resource type of the resources in the resource set. One of the following values:

AWS::ApiGateway::Stage, AWS::ApiGatewayV2::Stage, AWS::AutoScaling::AutoScalingGroup, AWS::CloudWatch::Alarm, AWS::EC2::CustomerGateway, AWS::DynamoDB::Table, AWS::EC2::Volume, AWS::ElasticLoadBalancing::LoadBalancer, AWS::ElasticLoadBalancingV2::LoadBalancer, AWS::Lambda::Function, AWS::MSK::Cluster, AWS::RDS::DBCluster, AWS::Route53::HealthCheck, AWS::SQS::Queue, AWS::SNS::Topic, AWS::SNS::Subscription, AWS::EC2::VPC, AWS::EC2::VPNConnection, AWS::EC2::VPNGateway, AWS::Route53RecoveryReadiness::DNSTargetResource

**Type:** string

**Required:** True

**Pattern:** AWS : : [A-Za-z0-9]+ : : [A-Za-z0-9]+

### **resources**

A list of resource objects.

**Type:** Array of type [Resource](#)

**Required:** True

## Tags

A collection of tags associated with a resource.

### key-value pairs

**Type:** string

## TargetResource

The target resource that the Route 53 record points to.

### r53Resource

The Route 53 resource.

**Type:** [R53ResourceRecord](#)

**Required:** False

### nLBResource

The Network Load Balancer resource.

**Type:** [NLBResource](#)

**Required:** False

## See also

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

### GetResourceSet

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



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

## UpdateResourceSet

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

## DeleteResourceSet

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

- [AWS SDK for Ruby V3](#)

## ListCells, CreateCell

### URI

/cells

### HTTP methods

#### GET

**Operation ID:** ListCells

Lists the cells for an account.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

#### Responses

Status code	Response model	Description
200	<a href="#">ListCellsResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you

Status code	Response model	Description
403	None	might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly. 403 response - Access denied exception. You do not have sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

### Operation ID: CreateCell

Creates a cell in an account.

### Responses

Status code	Response model	Description
200	<a href="#">CellOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of

Status code	Response model	Description
403	None	range, or you used parameter s together incorrectly. 403 response - Access denied exception. You do not have sufficient access to perform this action.
409	None	409 response - Conflict exception. You might be using a predefined variable.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

## POST schema

```
{
  "cells": [
    "string"
  ],
  "cellName": "string",
  "tags": {
  }
}
```

## Response bodies

### ListCellsResult schema

```
{
  "cells": [
    {
      "cells": [
        "string"
      ],
      "parentReadinessScopes": [
        "string"
      ],
      "cellName": "string",
      "cellArn": "string",
      "tags": {
      }
    }
  ],
  "nextToken": "string"
}
```

### CellOutput schema

```
{
  "cells": [
    "string"
  ],
  "parentReadinessScopes": [
    "string"
  ],
}
```

```
"cellName": "string",  
"cellArn": "string",  
"tags": {  
  }  
}
```

## Properties

### CellCreateParameters

Parameters used to create a cell.

#### cells

A list of cell Amazon Resource Names (ARNs) contained within this cell, for use in nested cells. For example, Availability Zones within specific AWS Regions.

**Type:** Array of type string

**Required:** False

#### cellName

The name of the cell to create.

**Type:** string

**Required:** True

#### tags

**Type:** [Tags](#)

**Required:** False

### CellOutput

Information about a cell.

#### cells

A list of cell ARNs.

**Type:** Array of type string

**Required:** True

### parentReadinessScopes

The readiness scope for the cell, which can be a cell Amazon Resource Name (ARN) or a recovery group ARN. This is a list but currently can have only one element.

**Type:** Array of type string

**Required:** True

### cellName

The name of the cell.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

### cellArn

The Amazon Resource Name (ARN) for the cell.

**Type:** string

**Required:** True

**MaxLength:** 256

### tags

Tags on the resources.

**Type:** [Tags](#)

**Required:** False

### ListCellsResult

The result of a successful `ListCells` request.

## cells

A list of cells.

**Type:** Array of type [CellOutput](#)

**Required:** False

## nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## See also

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

## ListCells

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



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

## CreateCell

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

## ListCrossAccountAuthorizations, CreateCrossAccountAuthorization

### URI

/crossaccountauthorizations

### HTTP methods

#### GET

**Operation ID:** ListCrossAccountAuthorizations

Lists the cross-account readiness authorizations that are in place for an account.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch

Name	Type	Required	Description
maxResults	String	False	The number of objects that you want to return with this call.

## Responses

Status code	Response model	Description
200	<a href="#">ListCrossAccountAuthorizationsResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

### Operation ID: CreateCrossAccountAuthorization

Creates a cross-account readiness authorization. This lets you authorize another account to work with Route 53 Application Recovery Controller, for example, to check the readiness status of resources in a separate account.

### Responses

Status code	Response model	Description
200	<a href="#">CreateCrossAccountAuthorizationResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
409	None	409 response - Conflict exception. You might be using a predefined variable.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### POST schema

```
{  
  "crossAccountAuthorization": "string"  
}
```

### Response bodies

#### ListCrossAccountAuthorizationsResult schema

```
{  
  "nextToken": "string",  
  "crossAccountAuthorizations": [  
    "string"  
  ]  
}
```

#### CreateCrossAccountAuthorizationResult schema

```
{  
  "crossAccountAuthorization": "string"  
}
```

## Properties

### CreateCrossAccountAuthorizationParameters

Parameters used to create a cross-account authorization.

#### crossAccountAuthorization

The cross-account authorization.

**Type:** string

**Required:** True

### CreateCrossAccountAuthorizationResult

The result of a successful CreateCrossAccountAuthorization request.

#### crossAccountAuthorization

The cross-account authorization.

**Type:** string

**Required:** False

### ListCrossAccountAuthorizationsResult

The result of a successful ListCrossAccountAuthorizations request.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

#### crossAccountAuthorizations

A list of cross-account authorizations.

**Type:** Array of type string

**Required:** True

## See also

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

### ListCrossAccountAuthorizations

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

### CreateCrossAccountAuthorization

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

## ListReadinessChecks, CreateReadinessCheck

### URI

/readinesschecks

## HTTP methods

### GET

**Operation ID:** ListReadinessChecks

Lists the readiness checks for an account.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

#### Responses

Status code	Response model	Description
200	<a href="#">ListReadinessChecksResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

### Operation ID: CreateReadinessCheck

Creates a readiness check in an account. A readiness check monitors a resource set in your application, such as a set of Amazon Aurora instances, that Application Recovery Controller is auditing recovery readiness for. The audits run once every minute on every resource that's associated with a readiness check.

### Responses

Status code	Response model	Description
200	<a href="#">ReadinessCheckOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have



Status code	Response model	Description
		sufficient access to perform this action.
409	None	409 response - Conflict exception. You might be using a predefined variable.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enables CORS by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### POST schema

```
{
  "readinessCheckName": "string",
  "resourceSetName": "string",
  "tags": {
  }
```

```
}
```

## Response bodies

### ListReadinessChecksResult schema

```
{
  "nextToken": "string",
  "readinessChecks": [
    {
      "resourceSet": "string",
      "readinessCheckName": "string",
      "readinessCheckArn": "string",
      "tags": {
      }
    }
  ]
}
```

### ReadinessCheckOutput schema

```
{
  "resourceSet": "string",
  "readinessCheckName": "string",
  "readinessCheckArn": "string",
  "tags": {
  }
}
```

## Properties

### ListReadinessChecksResult

The result of a successful ListReadinessChecks request.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

## readinessChecks

A list of readiness checks associated with the account.

**Type:** Array of type [ReadinessCheckOutput](#)

**Required:** False

## ReadinessCheckCreateParameters

Parameters used to create or update a readiness check.

### readinessCheckName

The name of the readiness check to create.

**Type:** string

**Required:** True

### resourceSetName

The name of the resource set to check.

**Type:** string

**Required:** True

### tags

**Type:** [Tags](#)

**Required:** False

## ReadinessCheckOutput

A readiness check.

### resourceSet

Name of the resource set to be checked.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

## readinessCheckName

Name of a readiness check.

**Type:** string

**Required:** False

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

## readinessCheckArn

The Amazon Resource Name (ARN) associated with a readiness check.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

**Type:** [Tags](#)

**Required:** False

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## See also

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

## ListReadinessChecks

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

## CreateReadinessCheck

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

## ListRecoveryGroups, CreateRecoveryGroup

### URI

/recoverygroups

## HTTP methods

### GET

**Operation ID:** ListRecoveryGroups

Lists the recovery groups in an account.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

#### Responses

Status code	Response model	Description
200	<a href="#">ListRecoveryGroupsResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

### Operation ID: CreateRecoveryGroup

Creates a recovery group in an account. A recovery group corresponds to an application and includes a list of the cells that make up the application.

### Responses

Status code	Response model	Description
200	<a href="#">RecoveryGroupOutput</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.

Status code	Response model	Description
409	None	409 response - Conflict exception. You might be using a predefined variable.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### POST schema

```
{
  "cells": [
    "string"
  ],
  "recoveryGroupName": "string",
  "tags": {
  }
}
```



## Response bodies

### ListRecoveryGroupsResult schema

```
{
  "nextToken": "string",
  "recoveryGroups": [
    {
      "cells": [
        "string"
      ],
      "recoveryGroupName": "string",
      "recoveryGroupArn": "string",
      "tags": {
      }
    }
  ]
}
```

### RecoveryGroupOutput schema

```
{
  "cells": [
    "string"
  ],
  "recoveryGroupName": "string",
  "recoveryGroupArn": "string",
  "tags": {
  }
}
```

## Properties

### ListRecoveryGroupsResult

The result of a successful ListRecoveryGroups request.

#### nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

## recoveryGroups

A list of recovery groups.

**Type:** Array of type [RecoveryGroupOutput](#)

**Required:** False

## RecoveryGroupCreateParameters

Parameters used to create a recovery group. A recovery group corresponds to your application and includes the cells that make up the application.

### cells

A list of the cell Amazon Resource Names (ARNs) in the recovery group.

**Type:** Array of type string

**Required:** False

### recoveryGroupName

The name of the recovery group to create.

**Type:** string

**Required:** True

### tags

**Type:** [Tags](#)

**Required:** False

## RecoveryGroupOutput

A representation of the application, typically containing multiple cells.

## cells

A list of a cell's Amazon Resource Names (ARNs).

**Type:** Array of type string

**Required:** True

## recoveryGroupName

The name of the recovery group.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

## recoveryGroupArn

The Amazon Resource Name (ARN) for the recovery group.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

The tags associated with the recovery group.

**Type:** [Tags](#)

**Required:** False

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## See also

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

### ListRecoveryGroups

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

### CreateRecoveryGroup

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

## ListResourceSets, CreateResourceSet

### URI

/resourcesets

## HTTP methods

### GET

**Operation ID:** ListResourceSets

Lists the resource sets in an account.

#### Query parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

#### Responses

Status code	Response model	Description
200	<a href="#">ListResourceSetsResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have

Status code	Response model	Description
		sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

### Operation ID: CreateResourceSet

Creates a resource set. A resource set is a set of resources of one type that span multiple cells. You can associate a resource set with a readiness check to monitor the resources for failover readiness.

### Responses

Status code	Response model	Description
200	<a href="#">ResourceSetOutput</a>	200 response
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameters together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.

Status code	Response model	Description
409	None	409 response - Conflict exception. You might be using a predefined variable.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

### Responses

Status code	Response model	Description
200	None	200 response - Success.

## Schemas

### Request bodies

#### POST schema

```
{
  "resourceSetType": "string",
  "resourceSetName": "string",
  "resources": [
    {
      "readinessScopes": [
        "string"
      ],
    },
  ],
}
```

```

    "componentId": "string",
    "resourceArn": "string",
    "dnsTargetResource": {
      "recordType": "string",
      "domainName": "string",
      "hostedZoneArn": "string",
      "targetResource": {
        "r53Resource": {
          "domainName": "string",
          "recordSetId": "string"
        },
        "nLBResource": {
          "arn": "string"
        }
      },
      "recordSetId": "string"
    }
  },
  "tags": {
  }
}

```

## Response bodies

### ListResourceSetsResult schema

```

{
  "nextToken": "string",
  "resourceSets": [
    {
      "resourceSetType": "string",
      "resourceSetName": "string",
      "resources": [
        {
          "readinessScopes": [
            "string"
          ],
          "componentId": "string",
          "resourceArn": "string",
          "dnsTargetResource": {
            "recordType": "string",
            "domainName": "string",

```



```

        "hostedZoneArn": "string",
        "targetResource": {
            "r53Resource": {
                "domainName": "string",
                "recordSetId": "string"
            },
            "nLBResource": {
                "arn": "string"
            }
        },
        "recordSetId": "string"
    }
}
],
"resourceSetArn": "string",
"tags": {
}
}
]
}

```

## ResourceSetOutput schema

```

{
  "resourceSetType": "string",
  "resourceSetName": "string",
  "resources": [
    {
      "readinessScopes": [
        "string"
      ],
      "componentId": "string",
      "resourceArn": "string",
      "dnsTargetResource": {
        "recordType": "string",
        "domainName": "string",
        "hostedZoneArn": "string",
        "targetResource": {
          "r53Resource": {
            "domainName": "string",
            "recordSetId": "string"
          },
          "nLBResource": {

```

```
        "arn": "string"
      }
    },
    "recordSetId": "string"
  }
},
"resourceSetArn": "string",
"tags": {
}
}
```

## Properties

### DNSTargetResource

A component for DNS/routing control readiness checks and architecture checks.

#### recordType

The type of DNS record of the target resource.

**Type:** string

**Required:** False

#### domainName

The domain name that acts as an ingress point to a portion of the customer application.

**Type:** string

**Required:** False

#### hostedZoneArn

The hosted zone Amazon Resource Name (ARN) that contains the DNS record with the provided name of the target resource.

**Type:** string

**Required:** False

## targetResource

The target resource of the DNS target resource.

**Type:** [TargetResource](#)

**Required:** False

## recordSetId

The Route 53 record set ID that uniquely identifies a DNS record, given a name and a type.

**Type:** string

**Required:** False

## ListResourceSetsResult

The result of a successful ListResourceSets request.

## nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

## resourceSets

A list of resource sets associated with the account.

**Type:** Array of type [ResourceSetOutput](#)

**Required:** False

## NLBResource

The Network Load Balancer resource that a DNS target resource points to.

## arn

The Network Load Balancer resource Amazon Resource Name (ARN).

**Type:** string

**Required:** False

## R53ResourceRecord

The Route 53 resource that a DNS target resource record points to.

### domainName

The DNS target domain name.

**Type:** string

**Required:** False

### recordSetId

The Route 53 Resource Record Set ID.

**Type:** string

**Required:** False

## Resource

The resource element of a resource set.

### readinessScopes

The recovery group Amazon Resource Name (ARN) or the cell ARN that the readiness checks for this resource set are scoped to.

**Type:** Array of type string

**Required:** False

### componentId

The component identifier of the resource, generated when DNS target resource is used.

**Type:** string

**Required:** False

## resourceArn

The Amazon Resource Name (ARN) of the AWS resource.

**Type:** string

**Required:** False

## dnsTargetResource

The DNS target resource.

**Type:** [DNSTargetResource](#)

**Required:** False

## ResourceSetCreateParameters

The parameters used to create a resource set.

## resourceSetType

The resource type of the resources in the resource set. One of the following values:

AWS::ApiGateway::Stage, AWS::ApiGatewayV2::Stage, AWS::AutoScaling::AutoScalingGroup, AWS::CloudWatch::Alarm, AWS::EC2::CustomerGateway, AWS::DynamoDB::Table, AWS::EC2::Volume, AWS::ElasticLoadBalancing::LoadBalancer, AWS::ElasticLoadBalancingV2::LoadBalancer, AWS::Lambda::Function, AWS::MSK::Cluster, AWS::RDS::DBCluster, AWS::Route53::HealthCheck, AWS::SQS::Queue, AWS::SNS::Topic, AWS::SNS::Subscription, AWS::EC2::VPC, AWS::EC2::VPNConnection, AWS::EC2::VPNGateway, AWS::Route53RecoveryReadiness::DNSTargetResource

**Type:** string

**Required:** True

**Pattern:** AWS : : [A-Za-z0-9]+ : : [A-Za-z0-9]+

## resourceSetName

The name of the resource set to create.

**Type:** string

**Required:** True

## resources

A list of resource objects in the resource set.

**Type:** Array of type [Resource](#)

**Required:** True

## tags

A tag to associate with the parameters for a resource set.

**Type:** [Tags](#)

**Required:** False

## ResourceSetOutput

A collection of resources of the same type.

### resourceSetType

The resource type of the resources in the resource set. One of the following values:

AWS::ApiGateway::Stage, AWS::ApiGatewayV2::Stage, AWS::AutoScaling::AutoScalingGroup, AWS::CloudWatch::Alarm, AWS::EC2::CustomerGateway, AWS::DynamoDB::Table, AWS::EC2::Volume, AWS::ElasticLoadBalancing::LoadBalancer, AWS::ElasticLoadBalancingV2::LoadBalancer, AWS::Lambda::Function, AWS::MSK::Cluster, AWS::RDS::DBCluster, AWS::Route53::HealthCheck, AWS::SQS::Queue, AWS::SNS::Topic, AWS::SNS::Subscription, AWS::EC2::VPC, AWS::EC2::VPNConnection, AWS::EC2::VPNGateway, AWS::Route53RecoveryReadiness::DNSTargetResource

**Type:** string

**Required:** True

**Pattern:** `AWS : : [A-Za-z0-9]+ : : [A-Za-z0-9]+`

### resourceSetName

The name of the resource set.

**Type:** string

**Required:** True

**Pattern:** \A[a-zA-Z0-9\_]+\z

**MaxLength:** 64

## resources

A list of resource objects.

**Type:** Array of type [Resource](#)

**Required:** True

## resourceSetArn

The Amazon Resource Name (ARN) for the resource set.

**Type:** string

**Required:** True

**MaxLength:** 256

## tags

**Type:** [Tags](#)

**Required:** False

## Tags

A collection of tags associated with a resource.

## key-value pairs

**Type:** string

## TargetResource

The target resource that the Route 53 record points to.

## r53Resource

The Route 53 resource.

**Type:** [R53ResourceRecord](#)

**Required:** False

## nLBResource

The Network Load Balancer resource.

**Type:** [NLBResource](#)

**Required:** False

## See also

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

### ListResourceSets

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

### CreateResourceSet

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)



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

## ListRules

### URI

/rules

### HTTP methods

#### GET

**Operation ID:** ListRules

Lists all readiness rules, or lists the readiness rules for a specific resource type.

#### Query parameters

Name	Type	Required	Description
resourceType	String	False	The resource type that a readiness rule applies to.
nextToken	String	False	The token that identifies which batch of results you want to see.
maxResults	String	False	The number of objects that you want to return with this call.

## Responses

Status code	Response model	Description
200	<a href="#">ListRulesResult</a>	200 response - Success.
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
403	None	403 response - Access denied exception. You do not have sufficient access to perform this action.
429	None	429 response - Limit exceeded exception or too many requests exception.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## OPTIONS

Enable CORS by returning correct headers

### Responses

Status code	Response model	Description
200	None	200 response - Success.

# Schemas

## Response bodies

### ListRulesResult schema

```
{
  "nextToken": "string",
  "rules": [
    {
      "ruleId": "string",
      "ruleDescription": "string",
      "resourceType": "string"
    }
  ]
}
```

## Properties

### ListRulesOutput

Readiness rule information, including the resource type, rule ID, and rule description.

#### ruleId

The ID for the readiness rule.

**Type:** string

**Required:** True

**MaxLength:** 64

#### ruleDescription

The description of a readiness rule.

**Type:** string

**Required:** True

**MaxLength:** 256

## resourceType

The resource type that the readiness rule applies to.

**Type:** string

**Required:** True

**MaxLength:** 64

## ListRulesResult

The result of a successful ListRules request.

## nextToken

The token that identifies which batch of results you want to see.

**Type:** string

**Required:** False

## rules

A list of readiness rules for a specific resource type.

**Type:** Array of type [ListRulesOutput](#)

**Required:** False

## See also

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

## ListRules

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

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

## ListTagsForResources, TagResource, UntagResource

### URI

/tags/*resource-arn*

### HTTP methods

#### GET

**Operation ID:** ListTagsForResources

Lists the tags for a resource.

#### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for a resource.

#### Responses

Status code	Response model	Description
200	<a href="#">tagsModel</a>	200 response - Success.
204	None	204 response - Successful deletion
400	None	400 response - Multiple causes. For example, you might have a malformed

Status code	Response model	Description
404	None	query string, an input parameter might be out of range, or you used parameter s together incorrectly. 404 response - Malformed query string. The query string contains a syntax error or resource not found.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## POST

**Operation ID:** TagResource

Adds a tag to a resource.

### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for a resource.

### Responses

Status code	Response model	Description
200	None	200 response - Success.
204	None	204 response - Successful deletion

Status code	Response model	Description
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## DELETE

**Operation ID:** UntagResource

Removes a tag from a resource.

### Path parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for a resource.

## Query parameters

Name	Type	Required	Description
tagKeys	String	True	The keys for tags you add to resources.

## Responses

Status code	Response model	Description
204	None	204 response - Successful deletion
400	None	400 response - Multiple causes. For example, you might have a malformed query string, an input parameter might be out of range, or you used parameter s together incorrectly.
404	None	404 response - Malformed query string. The query string contains a syntax error or resource not found.
500	None	500 response - Internal service error or temporary service error. Retry the request.

## Schemas

### Request bodies



## POST schema

```
{
  "tags": {
  }
}
```

## Response bodies

### tagsModel schema

```
{
  "tags": {
  }
}
```

## Properties

### Tags

A collection of tags associated with a resource.

### key-value pairs

**Type:** string

### tagsModel

### tags

**Type:** [Tags](#)

**Required:** True

## See also

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

## ListTagsForResources

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

## TagResource

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

## UntagResource

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

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

# CLI Examples for the Recovery Readiness API

This section includes CLI examples for working with the APIs for Recovery Readiness with Amazon Application Recovery Controller (ARC).

ARC is a global service that supports endpoints in multiple AWS Regions but you must specify the US West (Oregon) Region when you work with readiness and recovery control configuration resources.

## Topics

- [Create a cell](#)
- [Get a cell](#)
- [Update a cell](#)
- [Delete a cell](#)
- [List cells for an account](#)
- [Create a recovery group](#)
- [Get a recovery group](#)
- [Update a recovery group](#)
- [Delete a recovery group](#)
- [List recovery groups](#)
- [Create a resource set](#)
- [Get a resource set](#)
- [Update a resource set](#)
- [Delete a resource set](#)
- [List resource sets](#)
- [Create a readiness check](#)
- [Get a readiness check](#)
- [Update a readiness check](#)
- [Delete a readiness check](#)
- [List readiness checks](#)
- [Check the status of an entire readiness check](#)

- [Check the readiness of a resource in a readiness check](#)
- [Check the readiness of a cell](#)
- [Check the readiness of a recovery group](#)

## Create a cell

The following is an example of a request to create a cell, and the response.

```
aws route53-recovery-readiness --region us-west-2 create-cell \  
  --cell-name test-cell
```

```
{  
  "CellArn": "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
  "CellName": "test-cell",  
  "Cells": [],  
  "ParentReadinessScopes": [],  
  "Tags": {}  
}
```

## Get a cell

The following is an example of a request to get a cell, and the response.

```
aws route53-recovery-readiness --region us-west-2 getF-cell \  
  --cell-name test-cell
```

```
{  
  "CellArn": "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
  "CellName": "test-cell",  
  "Cells": [],  
  "ParentReadinessScopes": [],  
  "Tags": {}  
}
```

## Update a cell

The following is an example of a request to update a cell, and the response.

You update a cell by updating its own Cells field. Note that the Cells field takes full Amazon Resource Names (ARNs), not a cell name. In this example, "testcell-child" already existed.

```
aws route53-recovery-readiness --region us-west-2 update-cell \  
  --cell-name test-cell \  
  --cells arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-child
```

```
{  
  "CellArn": "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
  "CellName": "test-cell",  
  "Cells": [  
    "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-child"  
  ],  
  "ParentReadinessScopes": [],  
  "Tags": {}  
}
```

## Delete a cell

The following is an example of a request to delete a cell. Deleting a cell doesn't return a response.

```
aws route53-recovery-readiness --region us-west-2 delete-cell \  
  --cell-name test-cell
```

## List cells for an account

The following is an example of a request to list the cells in an account, and the response.

```
aws route53-recovery-readiness --region us-west-2 list-cells
```

```
{  
  "Cells": [  
    {  
      "CellArn": "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
      "CellName": "test-cell",  
      "Cells": [],  
      "ParentReadinessScopes": [],  
      "Tags": {}  
    }  
  ]  
}
```

```
]
}
```

## Create a recovery group

The following is an example of a request to list the cells in an account, and the response.

```
aws route53-recovery-readiness --region us-west-2 create-recovery-group \
  --recovery-group-name test-recovery-group
```

```
{
  "Cells": [],
  "RecoveryGroupArn": "arn:aws:route53-recovery-readiness::888888888888:recovery-
group/test-recovery-group",
  "RecoveryGroupName": "test-recovery-group",
  "Tags": {}
}
```

## Get a recovery group

The following is an example of a request to get a recovery group, and the response.

```
aws route53-recovery-readiness --region us-west-2 get-recovery-group \
  --recovery-group-name test-recovery-group
```

```
{
  "Cells": [],
  "RecoveryGroupArn": "arn:aws:route53-recovery-readiness::888888888888:recovery-
group/test-recovery-group",
  "RecoveryGroupName": "test-recovery-group",
  "Tags": {}
}
```

## Update a recovery group

The following is an example of a request to update a recovery group to add two cells, and the response.

```
aws route53-recovery-readiness --region us-west-2 update-recovery-group \
```

```
--recovery-group-name test-recovery-group \  
--cells arn:aws:route53-recovery-readiness::888888888888:cell/test-cell  
arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-2
```

```
{  
  "Cells": [  
    "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
    "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-2"  
  ],  
  "RecoveryGroupArn": "arn:aws:route53-recovery-readiness::888888888888:recovery-  
group/test-recovery-group",  
  "RecoveryGroupName": "test-recovery-group",  
  "Tags": {}  
}
```

## Delete a recovery group

The following is an example of a request to delete a recovery group. Note that there is no response on success when you delete a recovery group.

```
aws route53-recovery-readiness --region us-west-2 delete-recovery-group \  
--recovery-group-name test-recovery-group
```

## List recovery groups

The following is an example of a request to list the recovery groups in an account, and the response.

```
aws route53-recovery-readiness --region us-west-2 list-recovery-groups
```

```
{  
  "RecoveryGroups": [  
    {  
      "Cells": [  
        "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell",  
        "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-2"  
      ],  
      "RecoveryGroupArn": "arn:aws:route53-recovery-  
readiness::888888888888:recovery-group/test-recovery-group",
```



```

        "RecoveryGroupName": "test-recovery-group",
        "Tags": {}
    }
]
}

```

## Create a resource set

The following is an example of a request to create a resource set with two Amazon EBS volumes, and the response.

```

aws route53-recovery-readiness --region us-west-2 create-resource-set \
  --resource-set-name sample-resource-set \
  --resource-set-type AWS::EC2::Volume \
  --resources ResourceArn="arn:aws:ec2:us-west-2:888888888888:volume/
vol-014869e6063ed547b" \
  ResourceArn="arn:aws:ec2:ap-southeast-1:888888888888:volume/vol-0bc095e048255a901"

```

```

{
  "ResourceSetArn": "arn:aws:route53-recovery-readiness::888888888888:resource-set/
sample-resource-set",
  "ResourceSetName": "sample-resource-set",
  "Resources": [
    {
      "ReadinessScopes": [],
      "ResourceArn": "arn:aws:ec2:us-west-2:888888888888:volume/
vol-014869e6063ed547b"
    },
    {
      "ReadinessScopes": [],
      "ResourceArn": "arn:aws:ec2:ap-southeast-1:888888888888:volume/
vol-0bc095e048255a901"
    }
  ],
  "Tags": {}
}

```

## Get a resource set

The following is an example of a request to get a resource set, and the response.

```
aws route53-recovery-readiness --region us-west-2 get-resource-set \
  --resource-set-name sample-resource-set
```

```
{
  "ResourceSetArn": "arn:aws:route53-recovery-readiness::888888888888:resource-set/sample-resource-set",
  "ResourceSetName": "sample-resource-set",
  "Resources": [
    {
      "ReadinessScopes": [],
      "ResourceArn": "arn:aws:ec2:us-west-2:888888888888:volume/vol-014869e6063ed547b"
    },
    {
      "ReadinessScopes": [],
      "ResourceArn": "arn:aws:ec2:ap-southeast-1:888888888888:volume/vol-0bc095e048255a901"
    }
  ],
  "Tags": {}
}
```

## Update a resource set

The following is an example of a request to update a resource set, and the response.

This updates the resource set so that the resources each reference a cell. Note that the resources field is replaced in its entirety, so we specify the ResourceArns.

```
aws route53-recovery-readiness --region us-west-2 update-resource-set \
  --resource-set-name sample-resource-set \
  --resource-set-type AWS::EC2::Volume \
  --resources ResourceArn="arn:aws:ec2:us-west-2:888888888888:volume/vol-014869e6063ed547b",ReadinessScopes=[arn:aws:route53-recovery-readiness::888888888888:cell/test-cell] \
  ResourceArn="arn:aws:ec2:ap-southeast-1:888888888888:volume/vol-0bc095e048255a901",ReadinessScopes=[arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-2]
```

```
{
```

```

    "ResourceSetArn": "arn:aws:route53-recovery-readiness::888888888888:resource-set/
sample-resource-set",
    "ResourceSetName": "sample-resource-set",
    "Resources": [
      {
        "ReadinessScopes": [
          "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell"
        ],
        "ResourceArn": "arn:aws:ec2:us-west-2:888888888888:volume/
vol-014869e6063ed547b"
      },
      {
        "ReadinessScopes": [
          "arn:aws:route53-recovery-readiness::888888888888:cell/test-cell-2"
        ],
        "ResourceArn": "arn:aws:ec2:ap-southeast-1:888888888888:volume/
vol-0bc095e048255a901"
      }
    ],
    "Tags": {}
  }

```

## Delete a resource set

The following is an example of a request to delete a resource set. Note that there is no response on success when you delete a resource set.

```
aws route53-recovery-readiness --region us-west-2 delete-resource-set \
  --resource-set-name sample-resource-set
```

## List resource sets

The following is an example of a request to list the resource sets in an account, and the response.

```
aws route53-recovery-readiness --region us-west-2 list-resource-sets
```

```

{
  "ResourceSets": [
    {
      "ResourceSetArn": "arn:aws:route53-recovery-
readiness::888888888888:resource-set/sample-resource-set",

```

```

    "ResourceSetName": "sample-resource-set",
    "Resources": [
      {
        "ReadinessScopes": [],
        "ResourceArn": "arn:aws:ec2:us-west-2:888888888888:volume/
vol-014869e6063ed547b"
      },
      {
        "ReadinessScopes": [],
        "ResourceArn": "arn:aws:ec2:ap-southeast-1:888888888888:volume/
vol-0bc095e048255a901"
      }
    ],
    "Tags": {}
  }
]
}

```

## Create a readiness check

The following is an example of a request to create a readiness check for an Amazon EBS volume, and the response.

```

aws route53-recovery-readiness --region us-west-2 create-readiness-check \
  --readiness-check-name ebs-volume-readiness \
  --resource-set-name sample-resource-set

```

```

{
  "ReadinessCheckArn": "arn:aws:route53-recovery-readiness::888888888888:readiness-
check/ebs-volume-readiness",
  "ReadinessCheckName": "ebs-volume-readiness",
  "ResourceSet": "sample-resource-set",
  "Tags": {}
}

```

## Get a readiness check

The following is an example of a request to get a readiness check, and the response.

```

aws route53-recovery-readiness --region us-west-2 get-readiness-check \

```

```
--readiness-check-name ebs-volume-readiness
```

```
{
  "ReadinessCheckArn": "arn:aws:route53-recovery-readiness::888888888888:readiness-check/ebs-volume-readiness",
  "ReadinessCheckName": "ebs-volume-readiness",
  "ResourceSet": "sample-resource-set",
  "Tags": {}
}
```

## Update a readiness check

The following is an example of a request to update a readiness check, and the response.

```
aws route53-recovery-readiness --region us-west-2 update-readiness-check \
  --readiness-check-name ebs-volume-readiness \
  --resource-set-name some-other-resource-set
```

```
{
  "ReadinessCheckArn": "arn:aws:route53-recovery-readiness::888888888888:readiness-check/ebs-volume-readiness",
  "ReadinessCheckName": "ebs-volume-readiness",
  "ResourceSet": "some-other-resource-set",
  "Tags": {}
}
```

## Delete a readiness check

The following is an example of a request to delete a readiness check. Note that there is no response on success when you delete a readiness check.

```
aws route53-recovery-readiness --region us-west-2 delete-readiness-check \
  --readiness-check-name ebs-volume-readiness
```

## List readiness checks

The following is an example of a request to list the readiness checks in an account, and the response.

```
aws route53-recovery-readiness --region us-west-2 list-readiness-checks
```

```
{
  "ReadinessChecks": [
    {
      "ReadinessCheckArn": "arn:aws:route53-recovery-
readiness::888888888888:readiness-check/ebs-volume-readiness",
      "ReadinessCheckName": "ebs-volume-readiness",
      "ResourceSet": "sample-resource-set",
      "Tags": {}
    }
  ]
}
```

## Check the status of an entire readiness check

The following is an example of a request to list the roll-up status for an entire readiness check, and the response.

```
aws route53-recovery-readiness --region us-west-2 get-readiness-check-status \
--readiness-check-name ebs-volume-readiness
```

```
{
  "Readiness": "READY",
  "Resources": [
    {
      "LastCheckedTimestamp": "2021-01-07T00:53:39Z",
      "Readiness": "READY",
      "ResourceArn": "arn:aws:ec2:us-west-2:888888888888:volume/
vol-014869e6063ed547b"
    },
    {
      "LastCheckedTimestamp": "2021-01-07T00:53:39Z",
      "Readiness": "READY",
      "ResourceArn": "arn:aws:ec2:ap-southeast-1:888888888888:volume/
vol-0bc095e048255a901"
    }
  ]
}
```

## Check the readiness of a resource in a readiness check

The following is an example of a request to check the readiness of an individual resource in a readiness check, and the response.

This request checks the detailed status of an individual resource within a readiness check, to get rule-level visibility.

```
aws route53-recovery-readiness --region us-west-2 get-readiness-check-resource-status \
  --readiness-check-name ebs-volume-readiness \
  --resource-identifier arn:aws:ec2:ap-southeast-1:888888888888:volume/
vol-0bc095e048255a901
```

```
{
  "Readiness": "READY",
  "Rules": [
    {
      "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
      "Messages": [],
      "Readiness": "READY",
      "RuleId": "EbsVolumeEncryptionDefault"
    },
    {
      "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
      "Messages": [],
      "Readiness": "READY",
      "RuleId": "EbsVolumeEncryptionEnabled"
    },
    {
      "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
      "Messages": [],
      "Readiness": "READY",
      "RuleId": "EbsVolumeIops"
    },
    {
      "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
      "Messages": [],
      "Readiness": "READY",
      "RuleId": "EbsVolumeKmsKeyId"
    },
    {
```

```

    "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
    "Messages": [],
    "Readiness": "READY",
    "RuleId": "EbsVolumeLimits"
  },
  {
    "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
    "Messages": [],
    "Readiness": "READY",
    "RuleId": "EbsVolumeMultiAttachEnabled"
  },
  {
    "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
    "Messages": [],
    "Readiness": "READY",
    "RuleId": "EbsVolumeSize"
  },
  {
    "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
    "Messages": [],
    "Readiness": "READY",
    "RuleId": "EbsVolumeState"
  },
  {
    "LastCheckedTimestamp": "2021-01-07T00:55:41Z",
    "Messages": [],
    "Readiness": "READY",
    "RuleId": "EbsVolumeType"
  }
]
}

```

## Check the readiness of a cell

The following is an example of a request to check cell readiness, and the response.

```
aws route53-recovery-readiness --region us-west-2 get-cell-readiness-summary \
  --cell-name test-cell
```

```
{
  "Readiness": "READY",
  "ReadinessChecks": [
```



```
{
  "Readiness": "READY",
  "ReadinessCheckName": "ebs-volume-readiness"
}
]
```

## Check the readiness of a recovery group

The following is an example of a request to check a recovery group readiness, and the response.

For this example, we have configured a readiness check and resource set at the level of the recovery group (creation not shown), and now retrieve readiness of the recovery group itself.

```
aws route53-recovery-readiness --region us-west-2 get-recovery-group-readiness-summary \
  --recovery-group-name test-recovery-group
```

```
{
  "Readiness": "READY",
  "ReadinessChecks": [
    {
      "Readiness": "READY",
      "ReadinessCheckName": "ddb-table-readiness"
    }
  ]
}
```

# Document history for the Recovery Readiness API Reference Guide for ARC

The following table describes the documentation for this release of the Recovery Readiness API Reference Guide for Amazon Route 53 Application Recovery Controller.

- **API version: latest**
- **Latest documentation update: July 27, 2021**

Change	Description	Date
--------	-------------	------

# AWS Glossary

For the latest AWS terminology, see the [AWS glossary](#) in the *AWS Glossary Reference*.