Welcome

AWS Resilience Hub

API Version 2020-04-30

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AWS Resilience Hub: Welcome

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Welcome

AWS Resilience Hub helps you proactively prepare and protect your AWS applications from disruptions. It offers continual resiliency assessment and validation that integrates into your software development lifecycle. This enables you to uncover resiliency weaknesses, ensure recovery time objective (RTO) and recovery point objective (RPO) targets for your applications are met, and resolve issues before they are released into production.

This document was last published on September 3, 2025.

Actions

The following actions are supported:

- AcceptResourceGroupingRecommendations
- AddDraftAppVersionResourceMappings
- BatchUpdateRecommendationStatus
- CreateApp
- CreateAppVersionAppComponent
- CreateAppVersionResource
- CreateRecommendationTemplate
- CreateResiliencyPolicy
- DeleteApp
- DeleteAppAssessment
- DeleteAppInputSource
- DeleteAppVersionAppComponent
- DeleteAppVersionResource
- DeleteRecommendationTemplate
- DeleteResiliencyPolicy
- DescribeApp
- DescribeAppAssessment
- DescribeAppVersion
- DescribeAppVersionAppComponent
- DescribeAppVersionResource
- DescribeAppVersionResourcesResolutionStatus
- DescribeAppVersionTemplate
- DescribeDraftAppVersionResourcesImportStatus
- DescribeMetricsExport
- DescribeResiliencyPolicy
- DescribeResourceGroupingRecommendationTask
- ImportResourcesToDraftAppVersion

- ListAlarmRecommendations
- ListAppAssessmentComplianceDrifts
- ListAppAssessmentResourceDrifts
- ListAppAssessments
- ListAppComponentCompliances
- ListAppComponentRecommendations
- ListAppInputSources
- ListApps
- ListAppVersionAppComponents
- ListAppVersionResourceMappings
- ListAppVersionResources
- ListAppVersions
- ListMetrics
- ListRecommendationTemplates
- ListResiliencyPolicies
- ListResourceGroupingRecommendations
- ListSopRecommendations
- ListSuggestedResiliencyPolicies
- ListTagsForResource
- ListTestRecommendations
- ListUnsupportedAppVersionResources
- PublishAppVersion
- PutDraftAppVersionTemplate
- RejectResourceGroupingRecommendations
- RemoveDraftAppVersionResourceMappings
- ResolveAppVersionResources
- StartAppAssessment
- StartMetricsExport
- StartResourceGroupingRecommendationTask
- TagResource

- UntagResource
- UpdateApp
- UpdateAppVersion
- UpdateAppVersionAppComponent
- UpdateAppVersionResource
- UpdateResiliencyPolicy

AcceptResourceGroupingRecommendations

Accepts the resource grouping recommendations suggested by AWS Resilience Hub for your application.

Request Syntax

```
POST /accept-resource-grouping-recommendations HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "entries": [
      {
         "groupingRecommendationId": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

entries

List of resource grouping recommendations you want to include in your application.

Type: Array of AcceptGroupingRecommendationEntry objects

Array Members: Minimum number of 1 item. Maximum number of 30 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "failedEntries": [
      {
         "errorMessage": "string",
         "groupingRecommendationId": "string"
      }
   ]
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

failedEntries

List of resource grouping recommendations that could not be included in your application.

Type: Array of FailedGroupingRecommendationEntry objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AddDraftAppVersionResourceMappings

Adds the source of resource-maps to the draft version of an application. During assessment, AWS Resilience Hub will use these resource-maps to resolve the latest physical ID for each resource in the application template. For more information about different types of resources supported by AWS Resilience Hub and how to add them in your application, see Step 2: How is your application managed? in the AWS Resilience Hub User Guide.

Request Syntax

```
POST /add-draft-app-version-resource-mappings HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "resourceMappings": [
      {
         "appRegistryAppName": "string",
         "eksSourceName": "string",
         "logicalStackName": "string",
         "mappingType": "string",
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
         },
         "resourceGroupName": "string",
         "resourceName": "string",
         "terraformSourceName": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

resourceMappings

Mappings used to map logical resources from the template to physical resources. You can use the mapping type `CFN_STACK` if the application template uses a logical stack name. Or you can map individual resources by using the mapping type `RESOURCE`. We recommend using the mapping type `CFN_STACK` if the application is backed by a CloudFormation stack.

Type: Array of ResourceMapping objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "resourceMappings": [
      {
         "appRegistryAppName": "string",
         "eksSourceName": "string",
         "logicalStackName": "string",
         "mappingType": "string",
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
```

```
            "identifier": "string",
            "type": "string"
        },
        "resourceGroupName": "string",
        "resourceName": "string",
        "terraformSourceName": "string"
    }
  ]
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

resourceMappings

List of sources that are used to map a logical resource from the template to a physical resource. You can use sources such as AWS CloudFormation, Terraform state files, AppRegistry applications, or Amazon EKS.

Type: Array of ResourceMapping objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Example CloudFormation Request

The following is an example request payload.

Sample Request

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-c634cb3edb39",
  "resourceMappings": [
    {
      "logicalStackName": "my-stack-name",
      "mappingType": "CfnStack",
      "physicalResourceId": {
        "identifier": "arn:aws:cloudformation:us-west-2:444455556666:stack/my-stack-name/fe0e1e00-03eb-11ee-8796-02038f8a9691",
        "type": "Arn"
      }
    }
  ]
}
```

Sample CloudFormation Response

The following is an example response payload.

Sample Response

```
{
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-c634cb3edb39",
  "appVersion": "draft",
  "resourceMappings": [
    {
```

```
      "logicalStackName": "my-stack-name",
      "mappingType": "CfnStack",
      "physicalResourceId": {
        "identifier": "arn:aws:cloudformation:us-west-2:444455556666:stack/my-stack-
name/fe0e1e00-03eb-11ee-8796-02038f8a9691",
        "type": "Arn"
      }
    }
  ]
}
```

Example Terraform Request

The following is an example request payload.

Sample Request

```
{
"appArn": " arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
   "resourceMappings": [
      {
"mappingType": "Terraform",
         "physicalResourceId": {
            "awsAccountId": "444455556666",
            "awsRegion": "us-west-2",
            "identifier": "s3://my-terraform-bucket/my/path/application-state-
file.tfstate",
            "type": "Native"
         },

      }
   ]
}
```

Sample Terraform Response

The following is an example response payload.

Sample Response

```
{
```

```
  "appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
  "resourceMappings": [
    {
      "terraformSourceName": "application-state-file.tfstate",
      "mappingType": "Terraform",
      "physicalResourceId": {
        "identifier": "s3://terraform-bucket/web-app/latest/application-state-
file.tfstate",
        "type": "Native",
        "awsRegion": "us-west-2",
        "awsAccountId": "444455556666"
      }
    }
  ]
}
```

Sample AppRegistry Request

The following is an example request payload.

Sample Request

```
{
"appArn": "arn:aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
"resourceMappings": [
      {
         "appRegistryAppName": "MyWebApp",
         "mappingType": "AppRegistryApp",
         "physicalResourceId": {
            "identifier": "arn:aws:servicecatalog:us-west-2:444455556666:/
applications/123456789012abcdefghijklmnop",
            "type": "ARN"
         },
      }
   ]
}
```

Sample AppRegistry Response

The following is an example response payload.

Sample Response

```
{
  "appArn": "aws:resiliencehub:us-west-2:444455556666:app/4019253a-0c99-4d30-be32-
b14dd46d1c3d",
  "resourceMappings": [
    {
      "appRegistryAppName": "MyWebApp",
      "mappingType": "AppRegistryApp",
      "physicalResourceId": {
        "identifier": "arn:aws:servicecatalog:us-west-2:444455556666:/
applications/123456789012abcdefghijklmnop",
        "type": "Arn"
      }
    }
  ]
}
```

Sample Amazon EKS Request

The following is an example request payload.

Sample Request

```
{
"appArn": "arn:aws:resiliencehub:us-
west-2:444455556666:app/98f97a67-228f-40b3-8b2b-29da919c68cc",
   "resourceMappings": [
      {
         "eksSourceName": "my-cluster/my-namespace",
         "mappingType": "EKS",
         "physicalResourceId": {
            "identifier": "arn:aws:eks:us-west-2:444455556666:cluster/my-cluster/my-
namespace",
            "type": "Arn"
         },
      }
   ]
}
```

Sample Amazon EKS Response

The following is an example response payload.

Sample Response

```
{
"appArn": "arn:aws:resiliencehub:us-
west-2:444455556666:app/98f97a67-228f-40b3-8b2b-29da919c68cc",
   "resourceMappings": [
      {
"eksSourceName": "my-cluster/my-namespace",
         "mappingType": "EKS",
         "physicalResourceId": {
"identifier": "arn:aws:eks:us-west-2:444455556666:cluster/my-cluster/my-namespace",
            "type": "Arn"
         },
      }
   ]
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdateRecommendationStatus

Enables you to include or exclude one or more operational recommendations.

Request Syntax

```
POST /batch-update-recommendation-status HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "requestEntries": [
      {
         "appComponentId": "string",
         "entryId": "string",
         "excluded": boolean,
         "excludeReason": "string",
         "item": {
            "resourceId": "string",
            "targetAccountId": "string",
            "targetRegion": "string"
         },
         "referenceId": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

requestEntries

Defines the list of operational recommendations that need to be included or excluded.

Type: Array of UpdateRecommendationStatusRequestEntry objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "failedEntries": [
      {
         "entryId": "string",
         "errorMessage": "string"
      }
   ],
   "successfulEntries": [
      {
         "appComponentId": "string",
         "entryId": "string",
         "excluded": boolean,
         "excludeReason": "string",
         "item": {
            "resourceId": "string",
            "targetAccountId": "string",
            "targetRegion": "string"
         },
         "referenceId": "string"
      }
   ]
```

```
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

failedEntries

A list of items with error details about each item, which could not be included or excluded.

Type: Array of BatchUpdateRecommendationStatusFailedEntry objects

successfulEntries

A list of items that were included or excluded.

Type: Array of BatchUpdateRecommendationStatusSuccessfulEntry objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample request

This example illustrates one usage of BatchUpdateRecommendationStatus.

```
{
  "appArn": "APP_ARN",
  "requestEntries": [
    {
      "entryId": "entry_num_1",
      "referenceId": "s3:alarm:health_4xx_errors_count:2020-04-01",
      "item": {
        "resourceId": "a-resource-id",
        "targetAccountId": "123456789012",
        "targetRegion": "us-west-2"
      },
      "excluded": true,
      "excludeReason": "AlreadyImplemented"
    },
    {
```

```
      "entryId": "entry_num_2",
      "referenceId": "s3:alarm:health_total_request_latency:2020-04-01",
      "item": {
        "resourceId": "a-resource-id",
        "targetAccountId": "123456789012",
        "targetRegion": "us-west-2"
      },
      "excluded": true
    }
  ]
}
```

Sample response

This example illustrates one usage of BatchUpdateRecommendationStatus.

```
{
  "appArn": "APP_ARN",
  "successfulEntries": [
    {
      "entryId": "entry_num_2",
      "referenceId": "s3:alarm:health_total_request_latency:2020-04-01",
      "item": {
        "resourceId": "a-resource-id",
        "targetAccountId": "123456789012",
        "targetRegion": "us-west-2"
      },
      "excluded": true
    },
    {
      "entryId": "entry_num_1",
      "referenceId": "s3:alarm:health_4xx_errors_count:2020-04-01",
      "item": {
        "resourceId": "a-resource-id",
        "targetAccountId": "123456789012",
        "targetRegion": "us-west-2"
      },
      "excluded": true,
      "excludeReason": "AlreadyImplemented"
    }
  ],
  "failedEntries": []
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateApp

Creates an AWS Resilience Hub application. An AWS Resilience Hub application is a collection of AWS resources structured to prevent and recover AWS application disruptions. To describe a AWS Resilience Hub application, you provide an application name, resources from one or more AWS CloudFormation stacks, AWS Resource Groups, Terraform state files, AppRegistry applications, and an appropriate resiliency policy. In addition, you can also add resources that are located on Amazon Elastic Kubernetes Service (Amazon EKS) clusters as optional resources. For more information about the number of resources supported per application, see Service quotas.

After you create an AWS Resilience Hub application, you publish it so that you can run a resiliency assessment on it. You can then use recommendations from the assessment to improve resiliency by running another assessment, comparing results, and then iterating the process until you achieve your goals for recovery time objective (RTO) and recovery point objective (RPO).

Request Syntax

```
POST /create-app HTTP/1.1
Content-type: application/json

{
   "assessmentSchedule": "string",
   "awsApplicationArn": "string",
   "clientToken": "string",
   "description": "string",
   "eventSubscriptions": [
      {
         "eventType": "string",
         "name": "string",
         "snsTopicArn": "string"
      }
   ],
   "name": "string",
   "permissionModel": {
      "crossAccountRoleArns": [ "string" ],
      "invokerRoleName": "string",
      "type": "string"
   },
   "policyArn": "string",
   "tags": {
      "string" : "string"
```

```
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: `Disabled | Daily`

Required: No

awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

eventSubscriptions

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports only **Drift detected** and **Scheduled assessment failure** events notification.

Type: Array of EventSubscription objects

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

Required: No

name

Name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

permissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

Type: PermissionModel object

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:partition:resiliencehub:region:account:resiliency-policy/policy-id. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "app": {
      "appArn": "string",
```

```
        "assessmentSchedule": "string",
        "awsApplicationArn": "string",
        "complianceStatus": "string",
        "creationTime": number,
        "description": "string",
        "driftStatus": "string",
        "eventSubscriptions": [
           {
              "eventType": "string",
              "name": "string",
              "snsTopicArn": "string"
           }
        ],
        "lastAppComplianceEvaluationTime": number,
        "lastDriftEvaluationTime": number,
        "lastResiliencyScoreEvaluationTime": number,
        "name": "string",
        "permissionModel": {
           "crossAccountRoleArns": [ "string" ],
           "invokerRoleName": "string",
           "type": "string"
        },
        "policyArn": "string",
        "resiliencyScore": number,
        "rpoInSecs": number,
        "rtoInSecs": number,
        "status": "string",
        "tags": {
           "string" : "string"
        }
    }
}
```

Response Elements

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

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

app

The created application returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: App object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateAppVersionAppComponent

Creates a new AppComponent in the AWS Resilience Hub application.

> **Note**
>
> This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.

Request Syntax

```
POST /create-app-version-app-component HTTP/1.1
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string",
   "clientToken": "string",
   "id": "string",
   "name": "string",
   "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInfo

Currently, there is no supported additional information for AppComponents.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

id

Identifier of the AppComponent.

Type: String

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

Required: No

name

Name of the AppComponent.

Type: String

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

Required: Yes

type

Type of AppComponent. For more information about the types of AppComponent, see Grouping resources in an AppComponent.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appComponent": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "id": "string",
      "name": "string",
      "type": "string"
   },
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appComponent

List of AppComponents that belong to this resource.

Type: AppComponent object

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

CreateAppVersionResource

Adds a resource to the AWS Resilience Hub application and assigns it to the specified AppComponents. If you specify a new AppComponent, AWS Resilience Hub will automatically create the AppComponent.

Note

- This action has no effect outside AWS Resilience Hub.
- This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.
- To update application version with new `physicalResourceID`, you must call `ResolveAppVersionResources` API.
- AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see Managing Application Components.

Request Syntax

```
POST /create-app-version-resource HTTP/1.1
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string",
   "appComponents": [ "string" ],
   "awsAccountId": "string",
   "awsRegion": "string",
   "clientToken": "string",
   "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
```

```
        "resourceGroupName": "string",
        "terraformSourceName": "string"
    },
    "physicalResourceId": "string",
    "resourceName": "string",
    "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInfo

Currently, there is no supported additional information for resources.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appComponents

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array of strings

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

Required: Yes

awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: Yes

physicalResourceId

Physical identifier of the resource.

Type: String

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

Required: Yes

resourceName

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

resourceType

Type of resource.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "physicalResource": {
      "additionalInfo": {
         "string" : [ "string" ]
```

```
        },
        "appComponents": [
           {
              "additionalInfo": {
                 "string" : [ "string" ]
              },
              "id": "string",
              "name": "string",
              "type": "string"
           }
        ],
        "excluded": boolean,
        "logicalResourceId": {
           "eksSourceName": "string",
           "identifier": "string",
           "logicalStackName": "string",
           "resourceGroupName": "string",
           "terraformSourceName": "string"
        },
        "parentResourceName": "string",
        "physicalResourceId": {
           "awsAccountId": "string",
           "awsRegion": "string",
           "identifier": "string",
           "type": "string"
        },
        "resourceName": "string",
        "resourceType": "string",
        "sourceType": "string"
    }
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: PhysicalResource object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

CreateRecommendationTemplate

Creates a new recommendation template for the AWS Resilience Hub application.

Request Syntax

```
POST /create-recommendation-template HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "bucketName": "string",
   "clientToken": "string",
   "format": "string",
   "name": "string",
   "recommendationIds": [ "string" ],
   "recommendationTypes": [ "string" ],
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

bucketName

The name of the Amazon S3 bucket that will contain the recommendation template.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

format

The format for the recommendation template.

CfnJson

The template is CloudFormation JSON.

CfnYaml

The template is CloudFormation YAML.

Type: String

Valid Values: `CfnYaml | CfnJson`

Required: No

name

The name for the recommendation template.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

recommendationIds

Identifiers for the recommendations used to create a recommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: No

recommendationTypes

An array of strings that specify the recommendation template type or types.

Alarm

The template is an AlarmRecommendation template.

Sop

The template is a SopRecommendation template.

Test

The template is a TestRecommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: `Alarm | Sop | Test`

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "recommendationTemplate": {
      "appArn": "string",
      "assessmentArn": "string",
      "endTime": number,
      "format": "string",
      "message": "string",
      "name": "string",
      "needsReplacements": boolean,
      "recommendationIds": [ "string" ],
      "recommendationTemplateArn": "string",
      "recommendationTypes": [ "string" ],
      "startTime": number,
      "status": "string",
      "tags": {
         "string" : "string"
      },
      "templatesLocation": {
         "bucket": "string",
         "prefix": "string"
      }
   }
}
```

Response Elements

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

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

recommendationTemplate

The newly created recommendation template, returned as an object. This object includes the template's name, format, status, tags, Amazon S3 bucket location, and more.

Type: RecommendationTemplate object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateResiliencyPolicy

Creates a resiliency policy for an application.

> **Note**
>
> AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

Request Syntax

```
POST /create-resiliency-policy HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "dataLocationConstraint": "string",
   "policy": {
      "string" : {
         "rpoInSecs": number,
         "rtoInSecs": number
      }
   },
   "policyDescription": "string",
   "policyName": "string",
   "tags": {
      "string" : "string"
   },
   "tier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

dataLocationConstraint

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: `AnyLocation | SameContinent | SameCountry`

Required: No

policy

The type of resiliency policy to be created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: String to FailurePolicy object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: Yes

policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

policyName

Name of the resiliency policy.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

tier

The tier for this resiliency policy, ranging from the highest severity (`MissionCritical`) to lowest (`NonCritical`).

Type: String

Valid Values: `MissionCritical | Critical | Important | CoreServices | NonCritical | NotApplicable`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": {
      "creationTime": number,
      "dataLocationConstraint": "string",
      "estimatedCostTier": "string",
      "policy": {
         "string" : {
            "rpoInSecs": number,
            "rtoInSecs": number
         }
      },
      "policyArn": "string",
      "policyDescription": "string",
      "policyName": "string",
      "tags": {
         "string" : "string"
      },
      "tier": "string"
   }
}
```

Response Elements

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

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

policy

The type of resiliency policy that was created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: ResiliencyPolicy object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample ResilienceHub ResiliencyPolicy

This example illustrates one usage of CreateResiliencyPolicy.

```
AWSTemplateFormatVersion: 2010-09-09
Resources:
  ResiliencyPolicyCFNCanaryStack:
    Type: AWS::ResilienceHub::ResiliencyPolicy
    Properties:
      PolicyName: "ResiliencyPolicyCFNCanaryExample"
      PolicyDescription: 'ResilienceHub TestResiliencyPolicy for CFN'
      Tier: 'MissionCritical'
      Tags:
        TagKey: ""
      Policy:
        Software:
          RtoInSecs: 10
          RpoInSecs: 10
        Hardware:
          RtoInSecs: 10
          RpoInSecs: 10
        AZ:
          RtoInSecs: 10
          RpoInSecs: 10
        Region:
          RtoInSecs: 10
          RpoInSecs: 10
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

DeleteApp

Deletes an AWS Resilience Hub application. This is a destructive action that can't be undone.

Request Syntax

```
POST /delete-app HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "clientToken": "string",
   "forceDelete": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

forceDelete

A boolean option to force the deletion of an AWS Resilience Hub application.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Errors

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

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAppAssessment

Deletes an AWS Resilience Hub application assessment. This is a destructive action that can't be undone.

Request Syntax

```
POST /delete-app-assessment HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "clientToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "assessmentArn": "string",
   "assessmentStatus": "string"
}
```

Response Elements

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

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

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

assessmentStatus

The current status of the assessment for the resiliency policy.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAppInputSource

Deletes the input source and all of its imported resources from the AWS Resilience Hub application.

Request Syntax

```
POST /delete-app-input-source HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "clientToken": "string",
   "eksSourceClusterNamespace": {
      "eksClusterArn": "string",
      "namespace": "string"
   },
   "sourceArn": "string",
   "terraformSource": {
      "s3StateFileUrl": "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

eksSourceClusterNamespace

The namespace on your Amazon Elastic Kubernetes Service cluster that you want to delete from the AWS Resilience Hub application.

Type: EksSourceClusterNamespace object

Required: No

sourceArn

The Amazon Resource Name (ARN) of the imported resource you want to remove from the AWS Resilience Hub application. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

terraformSource

The imported Terraform s3 state file you want to remove from the AWS Resilience Hub application.

Type: TerraformSource object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appInputSource": {
      "eksSourceClusterNamespace": {
         "eksClusterArn": "string",
         "namespace": "string"
      },
      "importType": "string",
      "resourceCount": number,
      "sourceArn": "string",
      "sourceName": "string",
      "terraformSource": {
         "s3StateFileUrl": "string"
      }
   }
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appInputSource

Name of the input source from where the application resource is imported from.

Type: AppInputSource object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAppVersionAppComponent

Deletes an AppComponent from the AWS Resilience Hub application.

> **Note**
>
> - This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.
> - You will not be able to delete an AppComponent if it has resources associated with it.

Request Syntax

```
POST /delete-app-version-app-component HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "clientToken": "string",
   "id": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

id

Identifier of the AppComponent.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appComponent": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "id": "string",
      "name": "string",
      "type": "string"
   },
```

```
    "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appComponent

List of AppComponents that belong to this resource.

Type: AppComponent object

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

DeleteAppVersionResource

Deletes a resource from the AWS Resilience Hub application.

> **Note**
>
> - You can only delete a manually added resource. To exclude non-manually added resources, use the `UpdateAppVersionResource` API.
> - This action has no effect outside AWS Resilience Hub.
> - This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.

Request Syntax

```
POST /delete-app-version-resource HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "awsAccountId": "string",
   "awsRegion": "string",
   "clientToken": "string",
   "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
   },
   "physicalResourceId": "string",
   "resourceName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: No

physicalResourceId

Physical identifier of the resource.

Type: String

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

Required: No

resourceName

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "physicalResource": {
      "additionalInfo": {
         "string" : [ "string" ]
```

```
        },
        "appComponents": [
           {
              "additionalInfo": {
                 "string" : [ "string" ]
              },
              "id": "string",
              "name": "string",
              "type": "string"
           }
        ],
        "excluded": boolean,
        "logicalResourceId": {
           "eksSourceName": "string",
           "identifier": "string",
           "logicalStackName": "string",
           "resourceGroupName": "string",
           "terraformSourceName": "string"
        },
        "parentResourceName": "string",
        "physicalResourceId": {
           "awsAccountId": "string",
           "awsRegion": "string",
           "identifier": "string",
           "type": "string"
        },
        "resourceName": "string",
        "resourceType": "string",
        "sourceType": "string"
    }
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: PhysicalResource object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRecommendationTemplate

Deletes a recommendation template. This is a destructive action that can't be undone.

Request Syntax

```
POST /delete-recommendation-template HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "recommendationTemplateArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

recommendationTemplateArn

The Amazon Resource Name (ARN) for a recommendation template.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "recommendationTemplateArn": "string",
   "status": "string"
}
```

Response Elements

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

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

recommendationTemplateArn

The Amazon Resource Name (ARN) for a recommendation template.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteResiliencyPolicy

Deletes a resiliency policy. This is a destructive action that can't be undone.

Request Syntax

```
POST /delete-resiliency-policy HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "policyArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policyArn": "string"
}
```

Response Elements

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

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

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeApp

Describes an AWS Resilience Hub application.

Request Syntax

```
POST /describe-app HTTP/1.1
Content-type: application/json

{
   "appArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "app": {
      "appArn": "string",
      "assessmentSchedule": "string",
      "awsApplicationArn": "string",
      "complianceStatus": "string",
      "creationTime": number,
      "description": "string",
      "driftStatus": "string",
      "eventSubscriptions": [
         {
            "eventType": "string",
            "name": "string",
            "snsTopicArn": "string"
         }
      ],
      "lastAppComplianceEvaluationTime": number,
      "lastDriftEvaluationTime": number,
      "lastResiliencyScoreEvaluationTime": number,
      "name": "string",
      "permissionModel": {
         "crossAccountRoleArns": [ "string" ],
         "invokerRoleName": "string",
         "type": "string"
      },
      "policyArn": "string",
      "resiliencyScore": number,
      "rpoInSecs": number,
      "rtoInSecs": number,
      "status": "string",
      "tags": {
         "string" : "string"
      }
   }
}
```

Response Elements

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

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

app

The specified application, returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: App object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppAssessment

Describes an assessment for an AWS Resilience Hub application.

Request Syntax

```
POST /describe-app-assessment HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "assessment": {
      "appArn": "string",
      "appVersion": "string",
      "assessmentArn": "string",
      "assessmentName": "string",
      "assessmentStatus": "string",
      "compliance": {
         "string" : {
            "achievableRpoInSecs": number,
            "achievableRtoInSecs": number,
            "complianceStatus": "string",
            "currentRpoInSecs": number,
            "currentRtoInSecs": number,
            "message": "string",
            "rpoDescription": "string",
            "rpoReferenceId": "string",
            "rtoDescription": "string",
            "rtoReferenceId": "string"
         }
      },
      "complianceStatus": "string",
      "cost": {
         "amount": number,
         "currency": "string",
         "frequency": "string"
      },
      "driftStatus": "string",
      "endTime": number,
      "invoker": "string",
      "message": "string",
      "policy": {
         "creationTime": number,
         "dataLocationConstraint": "string",
         "estimatedCostTier": "string",
         "policy": {
            "string" : {
               "rpoInSecs": number,
               "rtoInSecs": number
            }
         },
         "policyArn": "string",
         "policyDescription": "string",
```

```
            "policyName": "string",
            "tags": {
               "string" : "string"
            },
            "tier": "string"
         },
         "resiliencyScore": {
            "componentScore": {
               "string" : {
                  "excludedCount": number,
                  "outstandingCount": number,
                  "possibleScore": number,
                  "score": number
               }
            },
            "disruptionScore": {
               "string" : number
            },
            "score": number
         },
         "resourceErrorsDetails": {
            "hasMoreErrors": boolean,
            "resourceErrors": [
               {
                  "logicalResourceId": "string",
                  "physicalResourceId": "string",
                  "reason": "string"
               }
            ]
         },
         "startTime": number,
         "summary": {
            "riskRecommendations": [
               {
                  "appComponents": [ "string" ],
                  "recommendation": "string",
                  "risk": "string"
               }
            ],
            "summary": "string"
         },
         "tags": {
            "string" : "string"
         },
```

```
        "versionName": "string"
    }
}
```

Response Elements

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

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

assessment

The assessment for an AWS Resilience Hub application, returned as an object. This object includes Amazon Resource Names (ARNs), compliance information, compliance status, cost, messages, resiliency scores, and more.

Type: AppAssessment object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppVersion

Describes the AWS Resilience Hub application version.

Request Syntax

```
POST /describe-app-version HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string",
   "appVersion": "string"
}
```

Response Elements

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

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

additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter supports only failover region and account.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppVersionAppComponent

Describes an AppComponent in the AWS Resilience Hub application.

Request Syntax

```
POST /describe-app-version-app-component HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "id": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

id

Identifier of the AppComponent.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appComponent": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "id": "string",
      "name": "string",
      "type": "string"
   },
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appComponent

List of AppComponents that belong to this resource.

Type: AppComponent object

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppVersionResource

Describes a resource of the AWS Resilience Hub application.

> **Note**
>
> This API accepts only one of the following parameters to describe the resource:
>
> - `resourceName`
> - `logicalResourceId`
> - `physicalResourceId` (Along with `physicalResourceId`, you can also provide `awsAccountId`, and `awsRegion`)

Request Syntax

```
POST /describe-app-version-resource HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "awsAccountId": "string",
   "awsRegion": "string",
   "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
   },
   "physicalResourceId": "string",
   "resourceName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: No

physicalResourceId

Physical identifier of the resource.

Type: String

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

Required: No

resourceName

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "physicalResource": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "appComponents": [
```

```
            {
               "additionalInfo": {
                  "string" : [ "string" ]
               },
               "id": "string",
               "name": "string",
               "type": "string"
            }
         ],
         "excluded": boolean,
         "logicalResourceId": {
            "eksSourceName": "string",
            "identifier": "string",
            "logicalStackName": "string",
            "resourceGroupName": "string",
            "terraformSourceName": "string"
         },
         "parentResourceName": "string",
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
         },
         "resourceName": "string",
         "resourceType": "string",
         "sourceType": "string"
      }
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: PhysicalResource object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppVersionResourcesResolutionStatus

Returns the resolution status for the specified resolution identifier for an application version. If `resolutionId` is not specified, the current resolution status is returned.

Request Syntax

```
POST /describe-app-version-resources-resolution-status HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "resolutionId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

resolutionId

The identifier for a specific resolution.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "errorMessage": "string",
   "resolutionId": "string",
   "status": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

errorMessage

The returned error message for the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

resolutionId

The identifier for a specific resolution.

Type: String

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

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeAppVersionTemplate

Describes details about an AWS Resilience Hub application.

Request Syntax

```
POST /describe-app-version-template HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appTemplateBody": "string",
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appTemplateBody

A JSON string that provides information about your application structure. To learn more about the `appTemplateBody` template, see the sample template provided in the *Examples* section.

The `appTemplateBody` JSON string has the following structure:

- **`resources`**

  The list of logical resources that must be included in the AWS Resilience Hub application.

  Type: Array

> **Note**
>
> Don't add the resources that you want to exclude.

Each `resources` array item includes the following fields:

- *`logicalResourceId`*

  Logical identifier of the resource.

  Type: Object

  Each `logicalResourceId` object includes the following fields:

  - `identifier`

    Identifier of the resource.

    Type: String
  - `logicalStackName`

    The name of the AWS CloudFormation stack this resource belongs to.

    Type: String
  - `resourceGroupName`

    The name of the resource group this resource belongs to.

    Type: String
  - `terraformSourceName`

    The name of the Terraform S3 state file this resource belongs to.

    Type: String
  - `eksSourceName`

    Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

> **Note**
>
> This parameter accepts values in "eks-cluster/namespace" format.

Type: String

- *type*

  The type of resource.

  Type: string

- *name*

  The name of the resource.

  Type: String

- `additionalInfo`

  Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

  > **Note**
  >
  > Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
  > Key: `"failover-regions"`
  > Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

- **`appComponents`**

  List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

  Type: Array

  Each `appComponents` array item includes the following fields:

- `name`

  Name of the AppComponent.

  Type: String

- `type`

  Type of AppComponent. For more information about the types of AppComponent, see Grouping resources in an AppComponent.

  Type: String

- `resourceNames`

  The list of included resources that are assigned to the AppComponent.

  Type: Array of strings

- `additionalInfo`

  Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

  > **Note**
  >
  > Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
  > Key: `"failover-regions"`
  > Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

- **`excludedResources`**

  The list of logical resource identifiers to be excluded from the application.

  Type: Array

  > **Note**
  >
  > Don't add the resources that you want to include.

Each `excludedResources` array item includes the following fields:

- *`logicalResourceIds`*

  Logical identifier of the resource.

  Type: Object

  > **Note**
  >
  > You can configure only one of the following fields:
  >
  > - `logicalStackName`
  > - `resourceGroupName`
  > - `terraformSourceName`
  > - `eksSourceName`

  Each `logicalResourceIds` object includes the following fields:

  - `identifier`

    Identifier of the resource.

    Type: String
  - `logicalStackName`

    The name of the AWS CloudFormation stack this resource belongs to.

    Type: String
  - `resourceGroupName`

    The name of the resource group this resource belongs to.

    Type: String
  - `terraformSourceName`

    The name of the Terraform S3 state file this resource belongs to.

    Type: String

- `eksSourceName`

  Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

  > **Note**
  >
  > This parameter accepts values in "eks-cluster/namespace" format.

  Type: String

- **`version`**

  AWS Resilience Hub application version.

- `additionalInfo`

  Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

  > **Note**
  >
  > Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
  > Key: `"failover-regions"`
  > Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

  Type: String

  Length Constraints: Minimum length of 0. Maximum length of 409600.

  Pattern: `[\w\s:,-\.'\/{}\[\]:"\\]+`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample appTemplateBody template

This example illustrates one usage of DescribeAppVersionTemplate.

```
{
 "resources": [{
  "logicalResourceId": {
   "identifier": "testResourceID1",
   "logicalStackName": "testResourceStack1",
   "resourceGroupName": null
  },
  "type": "AWS::RDS::DBInstance",
  "name": "testResourceName"
 }],
 "appComponents": [{
   "name": "testappcomponent-test",
   "type": "AWS::ResilienceHub::AppComponent",
   "resourceNames": [
    "testResourceName"
   ]
  },
  {
   "name": "testappcommon",
   "type": "AWS::ResilienceHub::AppComponent",
   "resourceNames": "[testResourceName]"
  }
 ],
 "excludedResources": {
  "logicalResourceIds": [{
   "identifier": "testResourceID2",
   "logicalStackName": "testResourceStack2",
   "resourceGroupName": ""
  }]
 },
 "version": 2.0
}
```

See Also

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

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeDraftAppVersionResourcesImportStatus

Describes the status of importing resources to an application version.

> **Note**
>
> If you get a 404 error with `ResourceImportStatusNotFoundAppMetadataException`, you must call `importResourcesToDraftAppVersion` after creating the application and before calling `describeDraftAppVersionResourcesImportStatus` to obtain the status.

Request Syntax

```
POST /describe-draft-app-version-resources-import-status HTTP/1.1
Content-type: application/json

{
   "appArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "errorDetails": [
      {
         "errorMessage": "string"
      }
   ],
   "errorMessage": "string",
   "status": "string",
   "statusChangeTime": number
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

errorDetails

List of errors that were encountered while importing resources.

Type: Array of ErrorDetail objects

errorMessage

The error message returned for the resource request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

statusChangeTime

The time when the status last changed.

Type: Timestamp

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeMetricsExport

Describes the metrics of the application configuration being exported.

Request Syntax

```
POST /describe-metrics-export HTTP/1.1
Content-type: application/json

{
   "metricsExportId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

metricsExportId

Identifier of the metrics export task.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "errorMessage": "string",
   "exportLocation": {
      "bucket": "string",
      "prefix": "string"
```

```
    },
    "metricsExportId": "string",
    "status": "string"
}
```

Response Elements

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

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

errorMessage

Explains the error that occurred while exporting the metrics.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

exportLocation

Specifies the name of the Amazon S3 bucket where the exported metrics is stored.

Type: S3Location object

metricsExportId

Identifier for the metrics export task.

Type: String

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

status

Indicates the status of the metrics export task.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample Request

The following is an example request payload.

Sample Request

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691"
}
```

Sample Response

The following is an example response payload.

Sample Response

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691",
  "status": "Success",
  "exportLocation": {
    "bucket": "my-bucket-name",
    "prefix": "resiliencehub-metrics/2024-11-14/fe0e1e00-03eb-11ee-8796-02038f8a9691"
  }
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeResiliencyPolicy

Describes a specified resiliency policy for an AWS Resilience Hub application. The returned policy object includes creation time, data location constraints, the Amazon Resource Name (ARN) for the policy, tags, tier, and more.

Request Syntax

```
POST /describe-resiliency-policy HTTP/1.1
Content-type: application/json

{
   "policyArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": {
      "creationTime": number,
      "dataLocationConstraint": "string",
      "estimatedCostTier": "string",
      "policy": {
         "string" : {
            "rpoInSecs": number,
            "rtoInSecs": number
         }
      },
      "policyArn": "string",
      "policyDescription": "string",
      "policyName": "string",
      "tags": {
         "string" : "string"
      },
      "tier": "string"
   }
}
```

Response Elements

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

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

policy

Information about the specific resiliency policy, returned as an object. This object includes creation time, data location constraints, its name, description, tags, the recovery time objective (RTO) and recovery point objective (RPO) in seconds, and more.

Type: ResiliencyPolicy object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeResourceGroupingRecommendationTask

Describes the resource grouping recommendation tasks run by AWS Resilience Hub for your application.

Request Syntax

```
POST /describe-resource-grouping-recommendation-task HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "groupingId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

groupingId

Identifier of the grouping recommendation task.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "errorMessage": "string",
   "groupingId": "string",
   "status": "string"
}
```

Response Elements

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

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

errorMessage

Error that occurred while generating a grouping recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

groupingId

Identifier of the grouping recommendation task.

Type: String

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

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ImportResourcesToDraftAppVersion

Imports resources to AWS Resilience Hub application draft version from different input sources. For more information about the input sources supported by AWS Resilience Hub, see Discover the structure and describe your Resilience Hub application.

Request Syntax

```
POST /import-resources-to-draft-app-version HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "eksSources": [
      {
         "eksClusterArn": "string",
         "namespaces": [ "string" ]
      }
   ],
   "importStrategy": "string",
   "sourceArns": [ "string" ],
   "terraformSources": [
      {
         "s3StateFileUrl": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

eksSources

The input sources of the Amazon Elastic Kubernetes Service resources you need to import.

Type: Array of EksSource objects

Required: No

importStrategy

The import strategy you would like to set to import resources into AWS Resilience Hub application.

Type: String

Valid Values: `AddOnly | ReplaceAll`

Required: No

sourceArns

The Amazon Resource Names (ARNs) for the resources.

Type: Array of strings

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

terraformSources

A list of terraform file s3 URLs you need to import.

Type: Array of TerraformSource objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "eksSources": [
      {
         "eksClusterArn": "string",
         "namespaces": [ "string" ]
      }
   ],
   "sourceArns": [ "string" ],
   "status": "string",
   "terraformSources": [
      {
         "s3StateFileUrl": "string"
      }
   ]
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

eksSources

The input sources of the Amazon Elastic Kubernetes Service resources you have imported.

Type: Array of EksSource objects

sourceArns

The Amazon Resource Names (ARNs) for the resources you have imported.

Type: Array of strings

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

terraformSources

A list of terraform file s3 URLs you have imported.

Type: Array of TerraformSource objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAlarmRecommendations

Lists the alarm recommendations for an AWS Resilience Hub application.

Request Syntax

```
POST /list-alarm-recommendations HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "alarmRecommendations": [
      {
         "appComponentName": "string",
         "appComponentNames": [ "string" ],
         "description": "string",
         "items": [
            {
               "alreadyImplemented": boolean,
               "discoveredAlarm": {
                  "alarmArn": "string",
                  "source": "string"
               },
               "excluded": boolean,
               "excludeReason": "string",
               "latestDiscoveredExperiment": {
                  "experimentArn": "string",
```

```
                    "experimentTemplateId": "string"
                },
                "resourceId": "string",
                "targetAccountId": "string",
                "targetRegion": "string"
            }
        ],
        "name": "string",
        "prerequisite": "string",
        "recommendationId": "string",
        "recommendationStatus": "string",
        "referenceId": "string",
        "type": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

alarmRecommendations

The alarm recommendations for an AWS Resilience Hub application, returned as an object. This object includes AppComponent names, descriptions, information about whether a recommendation has already been implemented or not, prerequisites, and more.

Type: Array of AlarmRecommendation objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

ListAppAssessmentComplianceDrifts

List of compliance drifts that were detected while running an assessment.

Request Syntax

```
POST /list-app-assessment-compliance-drifts HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of compliance drifts requested.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "complianceDrifts": [
      {
         "actualReferenceId": "string",
         "actualValue": {
            "string" : {
               "achievableRpoInSecs": number,
               "achievableRtoInSecs": number,
               "complianceStatus": "string",
               "currentRpoInSecs": number,
               "currentRtoInSecs": number,
               "message": "string",
               "rpoDescription": "string",
               "rpoReferenceId": "string",
               "rtoDescription": "string",
               "rtoReferenceId": "string"
            }
         },
         "appId": "string",
         "appVersion": "string",
         "diffType": "string",
         "driftType": "string",
         "entityId": "string",
         "entityType": "string",
         "expectedReferenceId": "string",
```

```
            "expectedValue": {
               "string" : {
                  "achievableRpoInSecs": number,
                  "achievableRtoInSecs": number,
                  "complianceStatus": "string",
                  "currentRpoInSecs": number,
                  "currentRtoInSecs": number,
                  "message": "string",
                  "rpoDescription": "string",
                  "rpoReferenceId": "string",
                  "rtoDescription": "string",
                  "rtoReferenceId": "string"
               }
            }
         }
      ],
      "nextToken": "string"
   }
```

Response Elements

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

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

complianceDrifts

Indicates compliance drifts (recovery time objective (RTO) and recovery point objective (RPO)) detected for an assessed entity.

Type: Array of ComplianceDrift objects

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListAppAssessmentResourceDrifts

List of resource drifts that were detected while running an assessment.

Request Syntax

```
POST /list-app-assessment-resource-drifts HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of drift results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "resourceDrifts": [
      {
         "appArn": "string",
         "appVersion": "string",
         "diffType": "string",
         "referenceId": "string",
         "resourceIdentifier": {
            "logicalResourceId": {
               "eksSourceName": "string",
               "identifier": "string",
               "logicalStackName": "string",
               "resourceGroupName": "string",
               "terraformSourceName": "string"
            },
```

```
            "resourceType": "string"
        }
    }
  ]
}
```

Response Elements

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

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

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

resourceDrifts

Indicates all the resource drifts detected for an assessed entity.

Type: Array of ResourceDrift objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppAssessments

Lists the assessments for an AWS Resilience Hub application. You can use request parameters to refine the results for the response object.

Request Syntax

```
GET /list-app-assessments?
appArn=appArn&assessmentName=assessmentName&assessmentStatus=assessmentStatus&complianceStatus=
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

assessmentName

The name for the assessment.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

assessmentStatus

The current status of the assessment for the resiliency policy.

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

Valid Values: `Pending | InProgress | Failed | Success`

complianceStatus

The current status of compliance for the resiliency policy.

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

invoker

Specifies the entity that invoked a specific assessment, either a `User` or the `System`.

Valid Values: `User | System`

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

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

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

reverseOrder

The default is to sort by ascending **startTime**. To sort by descending **startTime**, set reverseOrder to `true`.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "assessmentSummaries": [
      {
         "appArn": "string",
         "appVersion": "string",
         "assessmentArn": "string",
         "assessmentName": "string",
         "assessmentStatus": "string",
```

```
            "complianceStatus": "string",
            "cost": {
               "amount": number,
               "currency": "string",
               "frequency": "string"
            },
            "driftStatus": "string",
            "endTime": number,
            "invoker": "string",
            "message": "string",
            "resiliencyScore": number,
            "startTime": number,
            "versionName": "string"
         }
      ],
      "nextToken": "string"
   }
```

Response Elements

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

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

assessmentSummaries

The summaries for the specified assessments, returned as an object. This object includes application versions, associated Amazon Resource Numbers (ARNs), cost, messages, resiliency scores, and more.

Type: Array of AppAssessmentSummary objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

ListAppComponentCompliances

Lists the compliances for an AWS Resilience Hub AppComponent.

Request Syntax

```
POST /list-app-component-compliances HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentCompliances": [
      {
         "appComponentName": "string",
         "compliance": {
            "string" : {
               "achievableRpoInSecs": number,
               "achievableRtoInSecs": number,
               "complianceStatus": "string",
               "currentRpoInSecs": number,
               "currentRtoInSecs": number,
               "message": "string",
               "rpoDescription": "string",
               "rpoReferenceId": "string",
               "rtoDescription": "string",
               "rtoReferenceId": "string"
            }
```

```
            },
            "cost": {
               "amount": number,
               "currency": "string",
               "frequency": "string"
            },
            "message": "string",
            "resiliencyScore": {
               "componentScore": {
                  "string" : {
                     "excludedCount": number,
                     "outstandingCount": number,
                     "possibleScore": number,
                     "score": number
                  }
               },
               "disruptionScore": {
                  "string" : number
               },
               "score": number
            },
            "status": "string"
         }
      ],
      "nextToken": "string"
   }
```

Response Elements

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

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

componentCompliances

The compliances for an AWS Resilience Hub AppComponent, returned as an object. This object contains the names of the AppComponents, compliances, costs, resiliency scores, outage scores, and more.

Type: Array of AppComponentCompliance objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppComponentRecommendations

Lists the recommendations for an AWS Resilience Hub AppComponent.

Request Syntax

```
POST /list-app-component-recommendations HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentRecommendations": [
      {
         "appComponentName": "string",
         "configRecommendations": [
            {
               "appComponentName": "string",
               "compliance": {
                  "string" : {
                     "achievableRpoInSecs": number,
                     "achievableRtoInSecs": number,
                     "complianceStatus": "string",
                     "currentRpoInSecs": number,
                     "currentRtoInSecs": number,
                     "message": "string",
                     "rpoDescription": "string",
                     "rpoReferenceId": "string",
```

```
                    "rtoDescription": "string",
                    "rtoReferenceId": "string"
                }
            },
            "cost": {
                "amount": number,
                "currency": "string",
                "frequency": "string"
            },
            "description": "string",
            "haArchitecture": "string",
            "name": "string",
            "optimizationType": "string",
            "recommendationCompliance": {
                "string" : {
                    "expectedComplianceStatus": "string",
                    "expectedRpoDescription": "string",
                    "expectedRpoInSecs": number,
                    "expectedRtoDescription": "string",
                    "expectedRtoInSecs": number
                }
            },
            "referenceId": "string",
            "suggestedChanges": [ "string" ]
        }
    ],
    "recommendationStatus": "string"
  }
],
"nextToken": "string"
}
```

Response Elements

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

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

componentRecommendations

The recommendations for an AWS Resilience Hub AppComponent, returned as an object. This object contains the names of the AppComponents, configuration recommendations, and recommendation statuses.

Type: Array of ComponentRecommendation objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppInputSources

Lists all the input sources of the AWS Resilience Hub application. For more information about the input sources supported by AWS Resilience Hub, see Discover the structure and describe your Resilience Hub application.

Request Syntax

```
POST /list-app-input-sources HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Required: Yes

maxResults

Maximum number of input sources to be displayed per AWS Resilience Hub application.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appInputSources": [
      {
         "eksSourceClusterNamespace": {
            "eksClusterArn": "string",
            "namespace": "string"
         },
         "importType": "string",
```

```
            "resourceCount": number,
            "sourceArn": "string",
            "sourceName": "string",
            "terraformSource": {
               "s3StateFileUrl": "string"
            }
         }
      ],
      "nextToken": "string"
   }
```

Response Elements

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

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

appInputSources

The list of AWS Resilience Hub application input sources.

Type: Array of AppInputSource objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListApps

Lists your AWS Resilience Hub applications.

> **Note**
>
> You can filter applications using only one filter at a time or without using any filter. If you try to filter applications using multiple filters, you will get the following error:
> `An error occurred (ValidationException) when calling the ListApps operation: Only one filter is supported for this operation.`

Request Syntax

```
GET /list-apps?
appArn=appArn&awsApplicationArn=awsApplicationArn&fromLastAssessmentTime=fromLastAssessmentTime
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

fromLastAssessmentTime

Lower limit of the range that is used to filter applications based on their last assessment times.

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

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

name

The name for the one of the listed applications.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

reverseOrder

The application list is sorted based on the values of `lastAppComplianceEvaluationTime` field. By default, application list is sorted in ascending order. To sort the application list in descending order, set this field to `True`.

toLastAssessmentTime

Upper limit of the range that is used to filter the applications based on their last assessment times.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "appSummaries": [
      {
         "appArn": "string",
         "assessmentSchedule": "string",
         "awsApplicationArn": "string",
         "complianceStatus": "string",
         "creationTime": number,
         "description": "string",
         "driftStatus": "string",
         "lastAppComplianceEvaluationTime": number,
         "name": "string",
         "resiliencyScore": number,
         "rpoInSecs": number,
         "rtoInSecs": number,
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

appSummaries

Summaries for the AWS Resilience Hub application.

Type: Array of AppSummary objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppVersionAppComponents

Lists all the AppComponents in the AWS Resilience Hub application.

Request Syntax

```
POST /list-app-version-app-components HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

Version of the AppComponent.

Type: String

Pattern: `\S{1,50}`

Required: Yes

maxResults

Maximum number of AppComponents to be displayed per AWS Resilience Hub application version.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appComponents": [
      {
         "additionalInfo": {
            "string" : [ "string" ]
         },
         "id": "string",
         "name": "string",
         "type": "string"
```

```
        }
    ],
    "appVersion": "string",
    "nextToken": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appComponents

Defines an AppComponent.

Type: Array of AppComponent objects

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppVersionResourceMappings

Lists how the resources in an application version are mapped/sourced from. Mappings can be physical resource identifiers, CloudFormation stacks, resource-groups, or an application registry app.

Request Syntax

```
POST /list-app-version-resource-mappings HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "resourceMappings": [
      {
         "appRegistryAppName": "string",
```

```
            "eksSourceName": "string",
            "logicalStackName": "string",
            "mappingType": "string",
            "physicalResourceId": {
               "awsAccountId": "string",
               "awsRegion": "string",
               "identifier": "string",
               "type": "string"
            },
            "resourceGroupName": "string",
            "resourceName": "string",
            "terraformSourceName": "string"
         }
      ]
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

resourceMappings

Mappings used to map logical resources from the template to physical resources. You can use the mapping type `CFN_STACK` if the application template uses a logical stack name. Or you can map individual resources by using the mapping type `RESOURCE`. We recommend using the mapping type `CFN_STACK` if the application is backed by a CloudFormation stack.

Type: Array of ResourceMapping objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

ListAppVersionResources

Lists all the resources in an AWS Resilience Hub application.

Request Syntax

```
POST /list-app-version-resources HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "maxResults": number,
   "nextToken": "string",
   "resolutionId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

resolutionId

The identifier for a specific resolution.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
```

```
   "physicalResources": [
      {
         "additionalInfo": {
            "string" : [ "string" ]
         },
         "appComponents": [
            {
               "additionalInfo": {
                  "string" : [ "string" ]
               },
               "id": "string",
               "name": "string",
               "type": "string"
            }
         ],
         "excluded": boolean,
         "logicalResourceId": {
            "eksSourceName": "string",
            "identifier": "string",
            "logicalStackName": "string",
            "resourceGroupName": "string",
            "terraformSourceName": "string"
         },
         "parentResourceName": "string",
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
         },
         "resourceName": "string",
         "resourceType": "string",
         "sourceType": "string"
      }
   ],
   "resolutionId": "string"
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

physicalResources

The physical resources in the application version.

Type: Array of PhysicalResource objects

resolutionId

The ID for a specific resolution.

Type: String

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

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAppVersions

Lists the different versions for the AWS Resilience Hub applications.

Request Syntax

```
POST /list-app-versions HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "endTime": number,
   "maxResults": number,
   "nextToken": "string",
   "startTime": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

endTime

Upper limit of the time range to filter the application versions.

Type: Timestamp

Required: No

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

startTime

Lower limit of the time range to filter the application versions.

Type: Timestamp

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appVersions": [
      {
         "appVersion": "string",
```

```
            "creationTime": number,
            "identifier": number,
            "versionName": "string"
        }
    ],
    "nextToken": "string"
}
```

Response Elements

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

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

appVersions

The version of the application.

Type: Array of AppVersionSummary objects

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListMetrics

Lists the metrics that can be exported.

Request Syntax

```
POST /list-metrics HTTP/1.1
Content-type: application/json

{
   "conditions": [
      {
         "field": "string",
         "operator": "string",
         "value": "string"
      }
   ],
   "dataSource": "string",
   "fields": [
      {
         "aggregation": "string",
         "name": "string"
      }
   ],
   "maxResults": number,
   "nextToken": "string",
   "sorts": [
      {
         "ascending": boolean,
         "field": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

conditions

Indicates the list of all the conditions that were applied on the metrics.

Type: Array of Condition objects

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

Required: No

dataSource

Indicates the data source of the metrics.

Type: String

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

Required: No

fields

Indicates the list of fields in the data source.

Type: Array of Field objects

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

Required: No

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

sorts

(Optional) Indicates the order in which you want to sort the fields in the metrics. By default, the fields are sorted in the ascending order.

Type: Array of Sort objects

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

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

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

rows

Specifies all the list of metric values for each row of metrics.

Type: Array of arrays of strings

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

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample Request

The following is an example request payload.

Sample Request

```
{
  "dataSource": "Applications",
  "fields": [
    {
      "name": "Application Arn"
    }
  ]
}
```

Sample Response

The following is an example response payload.

Sample Response

```
{
  "headers": [
    "Application Arn"
  ],
  "rows": [
    [
      "arn:aws:resiliencehub:us-west-2:444455556666:app/dd058443-7e2f-410d-bee6-
c634cb3edb39"
    ]
  ]
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListRecommendationTemplates

Lists the recommendation templates for the AWS Resilience Hub applications.

Request Syntax

```
GET /list-recommendation-templates?
assessmentArn=assessmentArn&maxResults=maxResults&name=name&nextToken=nextToken&recommendationT
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

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

name

The name for one of the listed recommendation templates.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

recommendationTemplateArn

The Amazon Resource Name (ARN) for a recommendation template.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

reverseOrder

The default is to sort by ascending **startTime**. To sort by descending **startTime**, set reverseOrder to `true`.

status

Status of the action.

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: `Pending | InProgress | Failed | Success`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "recommendationTemplates": [
      {
         "appArn": "string",
         "assessmentArn": "string",
         "endTime": number,
         "format": "string",
         "message": "string",
         "name": "string",
         "needsReplacements": boolean,
         "recommendationIds": [ "string" ],
         "recommendationTemplateArn": "string",
```

```
            "recommendationTypes": [ "string" ],
            "startTime": number,
            "status": "string",
            "tags": {
               "string" : "string"
            },
            "templatesLocation": {
               "bucket": "string",
               "prefix": "string"
            }
         }
      ]
   }
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

recommendationTemplates

The recommendation templates for the AWS Resilience Hub applications.

Type: Array of RecommendationTemplate objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListResiliencyPolicies

Lists the resiliency policies for the AWS Resilience Hub applications.

Request Syntax

```
GET /list-resiliency-policies?
maxResults=maxResults&nextToken=nextToken&policyName=policyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

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

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

policyName

Name of the resiliency policy.

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "nextToken": "string",
   "resiliencyPolicies": [
      {
         "creationTime": number,
         "dataLocationConstraint": "string",
         "estimatedCostTier": "string",
         "policy": {
            "string" : {
               "rpoInSecs": number,
               "rtoInSecs": number
            }
         },
         "policyArn": "string",
         "policyDescription": "string",
         "policyName": "string",
         "tags": {
            "string" : "string"
         },
         "tier": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

resiliencyPolicies

The resiliency policies for the AWS Resilience Hub applications.

Type: Array of ResiliencyPolicy objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListResourceGroupingRecommendations

Lists the resource grouping recommendations suggested by AWS Resilience Hub for your application.

Request Syntax

```
GET /list-resource-grouping-recommendations?
appArn=appArn&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

maxResults

Maximum number of grouping recommendations to be displayed per AWS Resilience Hub application.

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

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "groupingRecommendations": [
      {
         "confidenceLevel": "string",
         "creationTime": number,
         "groupingAppComponent": {
            "appComponentId": "string",
            "appComponentName": "string",
            "appComponentType": "string"
         },
         "groupingRecommendationId": "string",
         "recommendationReasons": [ "string" ],
         "rejectionReason": "string",
         "resources": [
            {
               "logicalResourceId": {
                  "eksSourceName": "string",
                  "identifier": "string",
                  "logicalStackName": "string",
                  "resourceGroupName": "string",
                  "terraformSourceName": "string"
               },
               "physicalResourceId": {
                  "awsAccountId": "string",
                  "awsRegion": "string",
                  "identifier": "string",
                  "type": "string"
               },
               "resourceName": "string",
               "resourceType": "string",
               "sourceAppComponentIds": [ "string" ]
            }
         ],
         "score": number,
         "status": "string"
      }
   ],
   "nextToken": "string"
```

```
}
```

Response Elements

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

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

groupingRecommendations

List of resource grouping recommendations generated by AWS Resilience Hub.

Type: Array of GroupingRecommendation objects

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSopRecommendations

Lists the standard operating procedure (SOP) recommendations for the AWS Resilience Hub applications.

Request Syntax

```
POST /list-sop-recommendations HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "sopRecommendations": [
      {
         "appComponentName": "string",
         "description": "string",
         "items": [
            {
               "alreadyImplemented": boolean,
               "discoveredAlarm": {
                  "alarmArn": "string",
                  "source": "string"
               },
               "excluded": boolean,
               "excludeReason": "string",
               "latestDiscoveredExperiment": {
```

```
                    "experimentArn": "string",
                    "experimentTemplateId": "string"
                },
                "resourceId": "string",
                "targetAccountId": "string",
                "targetRegion": "string"
            }
        ],
        "name": "string",
        "prerequisite": "string",
        "recommendationId": "string",
        "recommendationStatus": "string",
        "referenceId": "string",
        "serviceType": "string"
    }
  ]
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

sopRecommendations

The standard operating procedure (SOP) recommendations for the AWS Resilience Hub applications.

Type: Array of SopRecommendation objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSuggestedResiliencyPolicies

Lists the suggested resiliency policies for the AWS Resilience Hub applications.

Request Syntax

```
GET /list-suggested-resiliency-policies?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

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

nextToken

Null, or the token from a previous call to get the next set of results.

Pattern: `\S{1,2000}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "resiliencyPolicies": [
      {
```

```
            "creationTime": number,
            "dataLocationConstraint": "string",
            "estimatedCostTier": "string",
            "policy": {
               "string" : {
                  "rpoInSecs": number,
                  "rtoInSecs": number
               }
            },
            "policyArn": "string",
            "policyDescription": "string",
            "policyName": "string",
            "tags": {
               "string" : "string"
            },
            "tier": "string"
         }
      ]
   }
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

resiliencyPolicies

The suggested resiliency policies for the AWS Resilience Hub applications.

Type: Array of ResiliencyPolicy objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

ListTagsForResource

Lists the tags for your resources in your AWS Resilience Hub applications.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) for a specific resource in your AWS Resilience Hub application.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

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

Response Elements

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

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

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTestRecommendations

Lists the test recommendations for the AWS Resilience Hub application.

Request Syntax

```
POST /list-test-recommendations HTTP/1.1
Content-type: application/json

{
   "assessmentArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "testRecommendations": [
      {
         "appComponentId": "string",
         "appComponentName": "string",
         "dependsOnAlarms": [ "string" ],
         "description": "string",
         "intent": "string",
         "items": [
            {
               "alreadyImplemented": boolean,
               "discoveredAlarm": {
                  "alarmArn": "string",
                  "source": "string"
               },
               "excluded": boolean,
```

```
                "excludeReason": "string",
                "latestDiscoveredExperiment": {
                   "experimentArn": "string",
                   "experimentTemplateId": "string"
                },
                "resourceId": "string",
                "targetAccountId": "string",
                "targetRegion": "string"
            }
         ],
         "name": "string",
         "prerequisite": "string",
         "recommendationId": "string",
         "recommendationStatus": "string",
         "referenceId": "string",
         "risk": "string",
         "type": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

testRecommendations

The test recommendations for the AWS Resilience Hub application.

Type: Array of TestRecommendation objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListUnsupportedAppVersionResources

Lists the resources that are not currently supported in AWS Resilience Hub. An unsupported resource is a resource that exists in the object that was used to create an app, but is not supported by AWS Resilience Hub.

Request Syntax

```
POST /list-unsupported-app-version-resources HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "maxResults": number,
   "nextToken": "string",
   "resolutionId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

maxResults

Maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

nextToken

Null, or the token from a previous call to get the next set of results.

Type: String

Pattern: `\S{1,2000}`

Required: No

resolutionId

The identifier for a specific resolution.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "resolutionId": "string",
   "unsupportedResources": [
      {
         "logicalResourceId": {
            "eksSourceName": "string",
            "identifier": "string",
            "logicalStackName": "string",
            "resourceGroupName": "string",
            "terraformSourceName": "string"
         },
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
         },
         "resourceType": "string",
         "unsupportedResourceStatus": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

Token for the next set of results, or null if there are no more results.

Type: String

Pattern: `\S{1,2000}`

resolutionId

The identifier for a specific resolution.

Type: String

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

unsupportedResources

The unsupported resources for the application.

Type: Array of UnsupportedResource objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PublishAppVersion

Publishes a new version of a specific AWS Resilience Hub application.

Request Syntax

```
POST /publish-app-version HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "versionName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "identifier": number,
   "versionName": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

identifier

Identifier of the application version.

Type: Long

versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutDraftAppVersionTemplate

Adds or updates the app template for an AWS Resilience Hub application draft version.

> **Note**
>
> AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see Managing Application Components.

Request Syntax

```
POST /put-draft-app-version-template HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appTemplateBody": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appTemplateBody

A JSON string that provides information about your application structure. To learn more about the `appTemplateBody` template, see the sample template provided in the *Examples* section.

The `appTemplateBody` JSON string has the following structure:

- **`resources`**

  The list of logical resources that must be included in the AWS Resilience Hub application.

  Type: Array

  > **Note**
  >
  > Don't add the resources that you want to exclude.

  Each `resources` array item includes the following fields:

  - *`logicalResourceId`*

    Logical identifier of the resource.

    Type: Object

    Each `logicalResourceId` object includes the following fields:

    - `identifier`

      Identifier of the resource.

      Type: String

    - `logicalStackName`

      The name of the AWS CloudFormation stack this resource belongs to.

      Type: String

- `resourceGroupName`

  The name of the resource group this resource belongs to.

  Type: String

- `terraformSourceName`

  The name of the Terraform S3 state file this resource belongs to.

  Type: String

- `eksSourceName`

  Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

  > **Note**
  > This parameter accepts values in "eks-cluster/namespace" format.

  Type: String

- *`type`*

  The type of resource.

  Type: string

- *`name`*

  The name of the resource.

  Type: String

- `additionalInfo`

  Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`
> Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

- **`appComponents`**

  List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

  Type: Array

  Each `appComponents` array item includes the following fields:

  - `name`

    Name of the AppComponent.

    Type: String

  - `type`

    Type of AppComponent. For more information about the types of AppComponent, see Grouping resources in an AppComponent.

    Type: String

  - `resourceNames`

    The list of included resources that are assigned to the AppComponent.

    Type: Array of strings

  - `additionalInfo`

    Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`
> Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

- **`excludedResources`**

  The list of logical resource identifiers to be excluded from the application.

  Type: Array

  > **Note**
  >
  > Don't add the resources that you want to include.

  Each `excludedResources` array item includes the following fields:

  - *`logicalResourceIds`*

    Logical identifier of the resource.

    Type: Object

    > **Note**
    >
    > You can configure only one of the following fields:
    >
    > - `logicalStackName`
    > - `resourceGroupName`
    > - `terraformSourceName`
    > - `eksSourceName`

    Each `logicalResourceIds` object includes the following fields:

    - `identifier`

Identifier of the resource.

Type: String

- `logicalStackName`

  The name of the AWS CloudFormation stack this resource belongs to.

  Type: String

- `resourceGroupName`

  The name of the resource group this resource belongs to.

  Type: String

- `terraformSourceName`

  The name of the Terraform S3 state file this resource belongs to.

  Type: String

- `eksSourceName`

  Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

  > **Note**
  >
  > This parameter accepts values in "eks-cluster/namespace" format.

  Type: String

- **`version`**

  AWS Resilience Hub application version.

- `additionalInfo`

  Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`
> Value: `"[{"region":"<REGION>", "accounts": [{"id":"<ACCOUNT_ID>"}]}]"`

Type: String

Length Constraints: Minimum length of 0. Maximum length of 409600.

Pattern: `[\w\s:,-\.'\/{}\[\]:"\\]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Sample appTemplateBody template

This example illustrates one usage of PutDraftAppVersionTemplate.

```
{
 "resources": [{
  "logicalResourceId": {
   "identifier": "testResourceID1",
   "logicalStackName": "testResourceStack1",
   "resourceGroupName": null
  },
  "type": "AWS::RDS::DBInstance",
  "name": "testResourceName"
 }],
 "appComponents": [{
   "name": "testappcomponent-test",
   "type": "AWS::ResilienceHub::AppComponent",
   "resourceNames": [
    "testResourceName"
   ]
  },
  {
   "name": "testappcommon",
   "type": "AWS::ResilienceHub::AppComponent",
   "resourceNames": "[testResourceName]"
  }
 ],
 "excludedResources": {
  "logicalResourceIds": [{
```

```
    "identifier": "testResourceID2",
    "logicalStackName": "testResourceStack2",
    "resourceGroupName": ""
   }]
  },
  "version": 2.0
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RejectResourceGroupingRecommendations

Rejects resource grouping recommendations.

Request Syntax

```
POST /reject-resource-grouping-recommendations HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "entries": [
      {
         "groupingRecommendationId": "string",
         "rejectionReason": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

entries

List of resource grouping recommendations you have selected to exclude from your application.

Type: Array of RejectGroupingRecommendationEntry objects

Array Members: Minimum number of 1 item. Maximum number of 30 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "failedEntries": [
      {
         "errorMessage": "string",
         "groupingRecommendationId": "string"
      }
   ]
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

failedEntries

List of resource grouping recommendations that failed to get excluded in your application.

Type: Array of FailedGroupingRecommendationEntry objects

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RemoveDraftAppVersionResourceMappings

Removes resource mappings from a draft application version.

Request Syntax

```
POST /remove-draft-app-version-resource-mappings HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appRegistryAppNames": [ "string" ],
   "eksSourceNames": [ "string" ],
   "logicalStackNames": [ "string" ],
   "resourceGroupNames": [ "string" ],
   "resourceNames": [ "string" ],
   "terraformSourceNames": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appRegistryAppNames

The names of the registered applications you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

eksSourceNames

The names of the Amazon Elastic Kubernetes Service clusters and namespaces you want to remove from the resource mappings.

> **Note**
>
> This parameter accepts values in "eks-cluster/namespace" format.

Type: Array of strings

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

Required: No

logicalStackNames

The names of the CloudFormation stacks you want to remove from the resource mappings.

Type: Array of strings

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

Required: No

resourceGroupNames

The names of the resource groups you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

resourceNames

The names of the resources you want to remove from the resource mappings.

Type: Array of strings

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

terraformSourceNames

The names of the Terraform sources you want to remove from the resource mappings.

Type: Array of strings

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ResolveAppVersionResources

Resolves the resources for an application version.

Request Syntax

```
POST /resolve-app-version-resources HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "resolutionId": "string",
   "status": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

resolutionId

The identifier for a specific resolution.

Type: String

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

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartAppAssessment

Creates a new application assessment for an application.

Request Syntax

```
POST /start-app-assessment HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "assessmentName": "string",
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appVersion

The version of the application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

assessmentName

The name for the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "assessment": {
      "appArn": "string",
      "appVersion": "string",
      "assessmentArn": "string",
      "assessmentName": "string",
      "assessmentStatus": "string",
      "compliance": {
         "string" : {
            "achievableRpoInSecs": number,
            "achievableRtoInSecs": number,
            "complianceStatus": "string",
            "currentRpoInSecs": number,
            "currentRtoInSecs": number,
            "message": "string",
            "rpoDescription": "string",
            "rpoReferenceId": "string",
            "rtoDescription": "string",
            "rtoReferenceId": "string"
         }
      },
      "complianceStatus": "string",
      "cost": {
         "amount": number,
         "currency": "string",
         "frequency": "string"
      },
      "driftStatus": "string",
      "endTime": number,
      "invoker": "string",
      "message": "string",
      "policy": {
         "creationTime": number,
         "dataLocationConstraint": "string",
```

```
            "estimatedCostTier": "string",
            "policy": {
               "string" : {
                  "rpoInSecs": number,
                  "rtoInSecs": number
               }
            },
            "policyArn": "string",
            "policyDescription": "string",
            "policyName": "string",
            "tags": {
               "string" : "string"
            },
            "tier": "string"
         },
         "resiliencyScore": {
            "componentScore": {
               "string" : {
                  "excludedCount": number,
                  "outstandingCount": number,
                  "possibleScore": number,
                  "score": number
               }
            },
            "disruptionScore": {
               "string" : number
            },
            "score": number
         },
         "resourceErrorsDetails": {
            "hasMoreErrors": boolean,
            "resourceErrors": [
               {
                  "logicalResourceId": "string",
                  "physicalResourceId": "string",
                  "reason": "string"
               }
            ]
         },
         "startTime": number,
         "summary": {
            "riskRecommendations": [
               {
                  "appComponents": [ "string" ],
```

```
                "recommendation": "string",
                "risk": "string"
            }
         ],
         "summary": "string"
      },
      "tags": {
         "string" : "string"
      },
      "versionName": "string"
   }
}
```

Response Elements

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

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

assessment

The assessment created.

Type: AppAssessment object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

StartMetricsExport

Initiates the export task of metrics.

Request Syntax

```
POST /start-metrics-export HTTP/1.1
Content-type: application/json

{
   "bucketName": "string",
   "clientToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

bucketName

(Optional) Specifies the name of the Amazon Simple Storage Service bucket where the exported metrics will be stored.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

clientToken

Used for an idempotency token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. You should not reuse the same client token for other API requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[A-Za-z0-9_.-]{0,63}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "metricsExportId": "string",
   "status": "string"
}
```

Response Elements

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

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

metricsExportId

Identifier of the metrics export task.

Type: String

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

status

Indicates the status of the metrics export task.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

Examples

Example

The following is an example request payload.

Sample Request

```
{
  "bucketName": "my-bucket-name"
}
```

Example

The following is an example response payload.

Sample Response

```
{
  "metricsExportId": "fe0e1e00-03eb-11ee-8796-02038f8a9691",
  "status": "Pending"
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

StartResourceGroupingRecommendationTask

Starts grouping recommendation task.

Request Syntax

```
POST /start-resource-grouping-recommendation-task HTTP/1.1
Content-type: application/json

{
   "appArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:partition:resiliencehub:region:account:app/app-id. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "appArn": "string",
   "errorMessage": "string",
   "groupingId": "string",
   "status": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

errorMessage

Error that occurred while executing a grouping recommendation task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

groupingId

Identifier of the grouping recommendation task.

Type: String

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

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Applies one or more tags to a resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to assign to the resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes one or more tags from a resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

tagKeys

The keys of the tags you want to remove.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `[^\x00-\x1f\x22]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateApp

Updates an application.

Request Syntax

```
POST /update-app HTTP/1.1
Content-type: application/json

{
   "appArn": "string",
   "assessmentSchedule": "string",
   "clearResiliencyPolicyArn": boolean,
   "description": "string",
   "eventSubscriptions": [
      {
         "eventType": "string",
         "name": "string",
         "snsTopicArn": "string"
      }
   ],
   "permissionModel": {
      "crossAccountRoleArns": [ "string" ],
      "invokerRoleName": "string",
      "type": "string"
   },
   "policyArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: `Disabled | Daily`

Required: No

clearResiliencyPolicyArn

Specifies if the resiliency policy ARN should be cleared.

Type: Boolean

Required: No

description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

eventSubscriptions

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

Type: Array of EventSubscription objects

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

Required: No

permissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating an application, importing its resources, and running an assessment.

Type: PermissionModel object

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "app": {
      "appArn": "string",
      "assessmentSchedule": "string",
      "awsApplicationArn": "string",
      "complianceStatus": "string",
      "creationTime": number,
      "description": "string",
      "driftStatus": "string",
      "eventSubscriptions": [
         {
```

```
            "eventType": "string",
            "name": "string",
            "snsTopicArn": "string"
         }
      ],
      "lastAppComplianceEvaluationTime": number,
      "lastDriftEvaluationTime": number,
      "lastResiliencyScoreEvaluationTime": number,
      "name": "string",
      "permissionModel": {
         "crossAccountRoleArns": [ "string" ],
         "invokerRoleName": "string",
         "type": "string"
      },
      "policyArn": "string",
      "resiliencyScore": number,
      "rpoInSecs": number,
      "rtoInSecs": number,
      "status": "string",
      "tags": {
         "string" : "string"
      }
   }
}
```

Response Elements

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

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

app

The specified application, returned as an object with details including compliance status, creation time, description, resiliency score, and more.

Type: App object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateAppVersion

Updates the AWS Resilience Hub application version.

> **Note**
>
> This API updates the AWS Resilience Hub application draft version. To use this information for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.

Request Syntax

```
POST /update-app-version HTTP/1.1
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`
> Value: `"[{"region":"<REGION>", "accounts":[{"id":"<ACCOUNT_ID>"}]}]"`

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
```

```
    },
    "appArn": "string",
    "appVersion": "string"
}
```

Response Elements

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

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

additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter supports only failover region and account.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateAppVersionAppComponent

Updates an existing AppComponent in the AWS Resilience Hub application.

> **Note**
>
> This API updates the AWS Resilience Hub application draft version. To use this AppComponent for running assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.

Request Syntax

```
POST /update-app-version-app-component HTTP/1.1
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string",
   "id": "string",
   "name": "string",
   "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInfo

Currently, there is no supported additional information for AppComponents.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

id

Identifier of the AppComponent.

Type: String

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

Required: Yes

name

Name of the AppComponent.

Type: String

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

Required: No

type

Type of AppComponent. For more information about the types of AppComponent, see Grouping resources in an AppComponent.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appComponent": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "id": "string",
      "name": "string",
      "type": "string"
   },
   "appVersion": "string"
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appComponent

List of AppComponents that belong to this resource.

Type: AppComponent object

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateAppVersionResource

Updates the resource details in the AWS Resilience Hub application.

> **Note**
>
> - This action has no effect outside AWS Resilience Hub.
> - This API updates the AWS Resilience Hub application draft version. To use this resource for running resiliency assessments, you must publish the AWS Resilience Hub application using the `PublishAppVersion` API.
> - To update application version with new `physicalResourceID`, you must call `ResolveAppVersionResources` API.
> - AWS Resilience Hub blocks manual grouping and automatically groups certain resources based on their dependencies and configurations to prevent configuration errors and ensure accurate resilience assessment results. For more information, see Managing Application Components.

Request Syntax

```
POST /update-app-version-resource HTTP/1.1
Content-type: application/json

{
   "additionalInfo": {
      "string" : [ "string" ]
   },
   "appArn": "string",
   "appComponents": [ "string" ],
   "awsAccountId": "string",
   "awsRegion": "string",
   "excluded": boolean,
   "logicalResourceId": {
      "eksSourceName": "string",
      "identifier": "string",
      "logicalStackName": "string",
      "resourceGroupName": "string",
      "terraformSourceName": "string"
   },
```

```
    "physicalResourceId": "string",
    "resourceName": "string",
    "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInfo

Currently, there is no supported additional information for resources.

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

appComponents

List of AppComponents that this resource belongs to. If an AppComponent is not part of the AWS Resilience Hub application, it will be added.

Type: Array of strings

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

Required: No

awsAccountId

AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

awsRegion

AWS region that owns the physical resource.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

excluded

Indicates if a resource is excluded from an AWS Resilience Hub application.

> **Note**
> You can exclude only imported resources from an AWS Resilience Hub application.

Type: Boolean

Required: No

logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: No

physicalResourceId

Physical identifier of the resource.

Type: String

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

Required: No

resourceName

Name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

resourceType

Type of resource.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appArn": "string",
   "appVersion": "string",
   "physicalResource": {
      "additionalInfo": {
         "string" : [ "string" ]
      },
      "appComponents": [
```

```
            {
               "additionalInfo": {
                  "string" : [ "string" ]
               },
               "id": "string",
               "name": "string",
               "type": "string"
            }
         ],
         "excluded": boolean,
         "logicalResourceId": {
            "eksSourceName": "string",
            "identifier": "string",
            "logicalStackName": "string",
            "resourceGroupName": "string",
            "terraformSourceName": "string"
         },
         "parentResourceName": "string",
         "physicalResourceId": {
            "awsAccountId": "string",
            "awsRegion": "string",
            "identifier": "string",
            "type": "string"
         },
         "resourceName": "string",
         "resourceType": "string",
         "sourceType": "string"
      }
}
```

Response Elements

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

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

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

appVersion

AWS Resilience Hub application version.

Type: String

Pattern: `\S{1,50}`

physicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or a Resilience Hub-native identifier.

Type: PhysicalResource object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

This exception occurs when you have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

UpdateResiliencyPolicy

Updates a resiliency policy.

> **Note**
>
> AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

Request Syntax

```
POST /update-resiliency-policy HTTP/1.1
Content-type: application/json

{
   "dataLocationConstraint": "string",
   "policy": {
      "string" : {
         "rpoInSecs": number,
         "rtoInSecs": number
      }
   },
   "policyArn": "string",
   "policyDescription": "string",
   "policyName": "string",
   "tier": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

dataLocationConstraint

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: `AnyLocation | SameContinent | SameCountry`

Required: No

policy

Resiliency policy to be created, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: String to FailurePolicy object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

policyName

Name of the resiliency policy.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

tier

The tier for this resiliency policy, ranging from the highest severity (`MissionCritical`) to lowest (`NonCritical`).

Type: String

Valid Values: `MissionCritical | Critical | Important | CoreServices | NonCritical | NotApplicable`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": {
      "creationTime": number,
      "dataLocationConstraint": "string",
      "estimatedCostTier": "string",
      "policy": {
         "string" : {
            "rpoInSecs": number,
            "rtoInSecs": number
         }
      },
      "policyArn": "string",
      "policyDescription": "string",
      "policyName": "string",
```

```
        "tags": {
           "string" : "string"
        },
        "tier": "string"
    }
}
```

Response Elements

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

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

policy

The resiliency policy that was updated, including the recovery time objective (RTO) and recovery point objective (RPO) in seconds.

Type: ResiliencyPolicy object

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions.

HTTP Status Code: 403

ConflictException

This exception occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 409

InternalServerException

This exception occurs when there is an internal failure in the AWS Resilience Hub service.

HTTP Status Code: 500

ResourceNotFoundException

This exception occurs when the specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

This exception occurs when you have exceeded the limit on the number of requests per second.

HTTP Status Code: 429

ValidationException

This exception occurs when a request is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Resilience Hub API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- AcceptGroupingRecommendationEntry
- Alarm
- AlarmRecommendation
- App
- AppAssessment
- AppAssessmentSummary
- AppComponent
- AppComponentCompliance
- AppInputSource
- AppSummary
- AppVersionSummary
- AssessmentRiskRecommendation
- AssessmentSummary
- BatchUpdateRecommendationStatusFailedEntry
- BatchUpdateRecommendationStatusSuccessfulEntry
- ComplianceDrift
- ComponentRecommendation
- Condition
- ConfigRecommendation
- Cost

- DisruptionCompliance
- EksSource
- EksSourceClusterNamespace
- ErrorDetail
- EventSubscription
- Experiment
- FailedGroupingRecommendationEntry
- FailurePolicy
- Field
- GroupingAppComponent
- GroupingRecommendation
- GroupingResource
- LogicalResourceId
- PermissionModel
- PhysicalResource
- PhysicalResourceId
- RecommendationDisruptionCompliance
- RecommendationItem
- RecommendationTemplate
- RejectGroupingRecommendationEntry
- ResiliencyPolicy
- ResiliencyScore
- ResourceDrift
- ResourceError
- ResourceErrorsDetails
- ResourceIdentifier
- ResourceMapping
- S3Location
- ScoringComponentResiliencyScore
- SopRecommendation

- Sort
- TerraformSource
- TestRecommendation
- UnsupportedResource
- UpdateRecommendationStatusItem
- UpdateRecommendationStatusRequestEntry

AcceptGroupingRecommendationEntry

Indicates the grouping recommendation you have accepted to include in your application.

Contents

groupingRecommendationId

Indicates the identifier of the grouping recommendation.

Type: String

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Alarm

Indicates the Amazon CloudWatch alarm detected while running an assessment.

Contents

alarmArn

Amazon Resource Name (ARN) of the Amazon CloudWatch alarm.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

source

Indicates the source of the Amazon CloudWatch alarm. That is, it indicates if the alarm was created using AWS Resilience Hub recommendation (`AwsResilienceHub`), or if you had created the alarm in Amazon CloudWatch (`Customer`).

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AlarmRecommendation

Defines a recommendation for a CloudWatch alarm.

Contents

name

Name of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

recommendationId

Identifier of the alarm recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: Yes

referenceId

Reference identifier of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

type

Type of alarm recommendation.

Type: String

Valid Values: `Metric | Composite | Canary | Logs | Event`

Required: Yes

appComponentName

This member has been deprecated.

AppComponent name for the CloudWatch alarm recommendation. This name is saved as the first item in the `appComponentNames` list.

Type: String

Pattern: `\S{1,255}`

Required: No

appComponentNames

List of AppComponent names for the CloudWatch alarm recommendation.

Type: Array of strings

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

Required: No

description

Description of the alarm recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

items

List of CloudWatch alarm recommendations.

Type: Array of RecommendationItem objects

Required: No

prerequisite

The prerequisite for the alarm recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

recommendationStatus

Status of the recommended Amazon CloudWatch alarm.

Type: String

Valid Values: `Implemented | Inactive | NotImplemented | Excluded`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

App

Defines an AWS Resilience Hub application.

Contents

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

creationTime

Date and time when the application was created.

Type: Timestamp

Required: Yes

name

Name for the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: `Disabled | Daily`

Required: No

awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

complianceStatus

Current status of compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotAssessed | ChangesDetected | NotApplicable | MissingPolicy`

Required: No

description

Optional description for an application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

driftStatus

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: `NotChecked | NotDetected | Detected`

Required: No

eventSubscriptions

The list of events you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

Type: Array of EventSubscription objects

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

Required: No

lastAppComplianceEvaluationTime

Date and time the most recent compliance evaluation.

Type: Timestamp

Required: No

lastDriftEvaluationTime

Indicates the last time that a drift was evaluated.

Type: Timestamp

Required: No

lastResiliencyScoreEvaluationTime

Date and time the most recent resiliency score evaluation.

Type: Timestamp

Required: No

permissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

Type: PermissionModel object

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

resiliencyScore

Current resiliency score for the application.

Type: Double

Required: No

rpoInSecs

Recovery Point Objective (RPO) in seconds.

Type: Integer

Required: No

rtoInSecs

Recovery Time Objective (RTO) in seconds.

Type: Integer

Required: No

status

Status of the application.

Type: String

Valid Values: `Active | Deleting`

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppAssessment

Defines an application assessment.

Contents

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

assessmentStatus

Current status of the assessment for the resiliency policy.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Required: Yes

invoker

The entity that invoked the assessment.

Type: String

Valid Values: `User | System`

Required: Yes

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

appVersion

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: No

assessmentName

Name of the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

compliance

Application compliance against the resiliency policy.

Type: String to DisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

complianceStatus

Current status of the compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

Required: No

cost

Cost for the application.

Type: Cost object

Required: No

driftStatus

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: `NotChecked | NotDetected | Detected`

Required: No

endTime

End time for the action.

Type: Timestamp

Required: No

message

Error or warning message from the assessment execution

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

policy

Resiliency policy of an application.

Type: ResiliencyPolicy object

Required: No

resiliencyScore

Current resiliency score for an application.

Type: ResiliencyScore object

Required: No

resourceErrorsDetails

A resource error object containing a list of errors retrieving an application's resources.

Type: ResourceErrorsDetails object

Required: No

startTime

Starting time for the action.

Type: Timestamp

Required: No

summary

Indicates the AI-generated summary for the AWS Resilience Hub assessment, providing a concise overview that highlights the top risks and recommendations.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: AssessmentSummary object

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

versionName

Version name of the published application.

Type: String

Pattern: `\S{1,50}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppAssessmentSummary

Defines an application assessment summary.

Contents

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

assessmentStatus

Current status of the assessment for the resiliency policy.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Required: Yes

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

appVersion

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: No

assessmentName

Name of the assessment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

complianceStatus

Current status of compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

Required: No

cost

Cost for an application.

Type: Cost object

Required: No

driftStatus

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: `NotChecked | NotDetected | Detected`

Required: No

endTime

End time for the action.

Type: Timestamp

Required: No

invoker

Entity that invoked the assessment.

Type: String

Valid Values: `User | System`

Required: No

message

Message from the assessment run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

resiliencyScore

Current resiliency score for the application.

Type: Double

Required: No

startTime

Starting time for the action.

Type: Timestamp

Required: No

versionName

Name of an application version.

Type: String

Pattern: `\S{1,50}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppComponent

Defines an AppComponent.

Contents

name

Name of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

type

The type of AppComponent.

Type: String

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

Required: Yes

additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`
> Value: `"[{"region":"<REGION>", "accounts":[{"id":"<ACCOUNT_ID>"}]}]"`

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

id

Identifier of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppComponentCompliance

Defines the compliance of an AppComponent against the resiliency policy.

Contents

appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

compliance

The compliance of the AppComponent against the resiliency policy.

Type: String to DisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

cost

The cost for the application.

Type: Cost object

Required: No

message

The compliance message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

resiliencyScore

The current resiliency score for the application.

Type: ResiliencyScore object

Required: No

status

Status of the action.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppInputSource

The list of AWS Resilience Hub application input sources.

Contents

importType

The resource type of the input source.

Type: String

Valid Values: `CfnStack | Resource | AppRegistryApp | ResourceGroup | Terraform | EKS`

Required: Yes

eksSourceClusterNamespace

The namespace on your Amazon Elastic Kubernetes Service cluster.

Type: EksSourceClusterNamespace object

Required: No

resourceCount

The number of resources.

Type: Integer

Required: No

sourceArn

The Amazon Resource Name (ARN) of the input source. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

sourceName

The name of the input source.

Type: String

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

Required: No

terraformSource

The name of the Terraform s3 state file.

Type: TerraformSource object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppSummary

Defines an application summary.

Contents

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

creationTime

Date and time when the app was created.

Type: Timestamp

Required: Yes

name

The name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

assessmentSchedule

Assessment execution schedule with 'Daily' or 'Disabled' values.

Type: String

Valid Values: `Disabled | Daily`

Required: No

awsApplicationArn

Amazon Resource Name (ARN) of AWS Resource Groups group that is integrated with an AppRegistry application. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

complianceStatus

The current status of compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotAssessed | ChangesDetected | NotApplicable | MissingPolicy`

Required: No

description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

driftStatus

Indicates if compliance drifts (deviations) were detected while running an assessment for your application.

Type: String

Valid Values: `NotChecked | NotDetected | Detected`

Required: No

lastAppComplianceEvaluationTime

Date and time of the most recent compliance evaluation.

Type: Timestamp

Required: No

resiliencyScore

The current resiliency score for the application.

Type: Double

Required: No

rpoInSecs

Recovery Point Objective (RPO) in seconds.

Type: Integer

Required: No

rtoInSecs

Recovery Time Objective (RTO) in seconds.

Type: Integer

Required: No

status

Status of the application.

Type: String

Valid Values: `Active | Deleting`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AppVersionSummary

Version of an application.

Contents

appVersion

Version of an application.

Type: String

Pattern: `\S{1,50}`

Required: Yes

creationTime

Creation time of the application version.

Type: Timestamp

Required: No

identifier

Identifier of the application version.

Type: Long

Required: No

versionName

Name of the application version.

Type: String

Pattern: `\S{1,50}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRiskRecommendation

Indicates a specific risk identified in the AWS Resilience Hub assessment and the corresponding recommendation provided to address that risk.

> **Note**
>
> The assessment summary generated by large language models (LLMs) on Amazon Bedrock are only suggestions. The current level of generative AI technology is not perfect and LLMs are not infallible. Bias and incorrect answers, although rare, should be expected. Review each recommendation in the assessment summary before you use the output from an LLM.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Contents

appComponents

Indicates the Application Components (AppComponents) that were assessed as part of the assessment and are associated with the identified risk and recommendation.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: Array of strings

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

Required: No

recommendation

Indicates the recommendation provided by the AWS Resilience Hub to address the identified risks in the application.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: String

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

Required: No

risk

Indicates the description of the potential risk identified in the application as part of the AWS Resilience Hub assessment.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentSummary

Indicates the AI-generated summary for the AWS Resilience Hub assessment, providing a concise overview that highlights the top risks and recommendations.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Contents

riskRecommendations

Indicates the top risks and recommendations identified by the AWS Resilience Hub assessment, each representing a specific risk and the corresponding recommendation to address it.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: Array of AssessmentRiskRecommendation objects

Required: No

summary

Indicates a concise summary that provides an overview of the AWS Resilience Hub assessment.

> **Note**
>
> This property is available only in the US East (N. Virginia) Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdateRecommendationStatusFailedEntry

List of operational recommendations that did not get included or excluded.

Contents

entryId

An identifier of an entry in this batch that is used to communicate the result.

> **Note**
>
> The `entryIds` of a batch request need to be unique within a request.

Type: String

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

Required: Yes

errorMessage

Indicates the error that occurred while excluding an operational recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdateRecommendationStatusSuccessfulEntry

List of operational recommendations that were successfully included or excluded.

Contents

entryId

An identifier for an entry in this batch that is used to communicate the result.

> **Note**
>
> The `entryIds` of a batch request need to be unique within a request.

Type: String

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

Required: Yes

excluded

Indicates if the operational recommendation was successfully excluded.

Type: Boolean

Required: Yes

referenceId

Reference identifier of the operational recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

appComponentId

Indicates the identifier of an AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

excludeReason

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: `AlreadyImplemented | NotRelevant | ComplexityOfImplementation`

Required: No

item

The operational recommendation item.

Type: UpdateRecommendationStatusItem object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComplianceDrift

Indicates the compliance drifts (recovery time objective (RTO) and recovery point objective (RPO)) that were detected for an assessed entity.

Contents

actualReferenceId

Assessment identifier that is associated with this drift item.

Type: String

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

Required: No

actualValue

Actual compliance value of the entity.

Type: String to DisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

appId

Identifier of your application.

Type: String

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

Required: No

appVersion

Published version of your application on which drift was detected.

Type: String

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

Required: No

diffType

Difference type between actual and expected recovery point objective (RPO) and recovery time objective (RTO) values. Currently, AWS Resilience Hub supports only `NotEqual` difference type.

Type: String

Valid Values: `NotEqual | Added | Removed`

Required: No

driftType

The type of drift detected. Currently, AWS Resilience Hub supports only **ApplicationCompliance** drift type.

Type: String

Valid Values: `ApplicationCompliance | AppComponentResiliencyComplianceStatus`

Required: No

entityId

Identifier of an entity in which drift was detected. For compliance drift, the entity ID can be either application ID or the AppComponent ID.

Type: String

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

Required: No

entityType

The type of entity in which drift was detected. For compliance drifts, AWS Resilience Hub supports `AWS::ResilienceHub::AppComponent` and `AWS::ResilienceHub::Application`.

Type: String

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

Required: No

expectedReferenceId

Assessment identifier of a previous assessment of the same application version. AWS Resilience Hub uses the previous assessment (associated with the reference identifier) to compare the compliance with the current assessment to identify drifts.

Type: String

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

Required: No

expectedValue

The expected compliance value of an entity.

Type: String to DisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentRecommendation

Defines recommendations for an AWS Resilience Hub AppComponent, returned as an object. This object contains component names, configuration recommendations, and recommendation statuses.

Contents

appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: Yes

configRecommendations

List of recommendations.

Type: Array of ConfigRecommendation objects

Required: Yes

recommendationStatus

Status of the recommendation.

Type: String

Valid Values: `BreachedUnattainable | BreachedCanMeet | MetCanImprove | MissingPolicy`

Required: Yes

See Also

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

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

Condition

Indicates the condition based on which you want to filter the metrics.

Contents

field

Indicates the field in the metric.

Type: String

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

Required: Yes

operator

Indicates the type of operator or comparison to be used when evaluating a condition against the specified field.

Type: String

Valid Values: `Equals | NotEquals | GreaterThen | GreaterOrEquals | LessThen | LessOrEquals`

Required: Yes

value

Indicates the value or data against which a condition is evaluated.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigRecommendation

Defines a recommendation configuration.

Contents

name

The name of the recommendation configuration.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

optimizationType

The type of optimization.

Type: String

Valid Values: `LeastCost | LeastChange | BestAZRecovery | LeastErrors | BestAttainable | BestRegionRecovery`

Required: Yes

referenceId

Reference identifier for the recommendation configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

compliance

The current compliance against the resiliency policy before applying the configuration change.

Type: String to DisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

cost

The cost for the application.

Type: Cost object

Required: No

description

The optional description for an app.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

haArchitecture

The architecture type.

Type: String

Valid Values: `MultiSite | WarmStandby | PilotLight | BackupAndRestore | NoRecoveryPlan`

Required: No

recommendationCompliance

The expected compliance against the resiliency policy after applying the configuration change.

Type: String to RecommendationDisruptionCompliance object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

suggestedChanges

List of the suggested configuration changes.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Cost

Defines a cost object.

Contents

amount

The cost amount.

Type: Double

Required: Yes

currency

The cost currency, for example USD.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 3.

Required: Yes

frequency

The cost frequency.

Type: String

Valid Values: `Hourly | Daily | Monthly | Yearly`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DisruptionCompliance

Defines the compliance against the resiliency policy for a disruption.

Contents

complianceStatus

The current status of compliance for the resiliency policy.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

Required: Yes

achievableRpoInSecs

The Recovery Point Objective (RPO) that is achievable, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

achievableRtoInSecs

The Recovery Time Objective (RTO) that is achievable, in seconds

Type: Integer

Valid Range: Minimum value of 0.

Required: No

currentRpoInSecs

The current RPO, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

currentRtoInSecs

The current RTO, in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

message

The disruption compliance message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

rpoDescription

The RPO description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

rpoReferenceId

Reference identifier of the RPO .

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

rtoDescription

The RTO description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

rtoReferenceId

Reference identifier of the RTO.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EksSource

The input source of the Amazon Elastic Kubernetes Service cluster.

Contents

eksClusterArn

Amazon Resource Name (ARN) of the Amazon Elastic Kubernetes Service cluster. The format for this ARN is: arn:aws:eks:region:account-id:cluster/cluster-name. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

namespaces

The list of namespaces located on your Amazon Elastic Kubernetes Service cluster.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[a-z0-9]([-a-z0-9]*[a-z0-9])?`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EksSourceClusterNamespace

The input source of the namespace that is located on your Amazon Elastic Kubernetes Service cluster.

Contents

eksClusterArn

Amazon Resource Name (ARN) of the Amazon Elastic Kubernetes Service cluster. The format for this ARN is: arn:aws:eks:`region`:`account-id`:cluster/`cluster-name`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

namespace

Name of the namespace that is located on your Amazon Elastic Kubernetes Service cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[a-z0-9]([-a-z0-9]*[a-z0-9])?`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ErrorDetail

Indicates the error that was encountered while importing a resource.

Contents

errorMessage

Provides additional information about the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EventSubscription

Indicates an event you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** and **Scheduled assessment failure** events.

Contents

eventType

The type of event you would like to subscribe and get notification for. Currently, AWS Resilience Hub supports notifications only for **Drift detected** (`DriftDetected`) and **Scheduled assessment failure** (`ScheduledAssessmentFailure`) events.

Type: String

Valid Values: `ScheduledAssessmentFailure | DriftDetected`

Required: Yes

name

Unique name to identify an event subscription.

Type: String

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

Required: Yes

snsTopicArn

Amazon Resource Name (ARN) of the Amazon Simple Notification Service topic. The format for this ARN is: `arn:partition:sns:region:account:topic-name`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Experiment

Indicates the AWS FIS experiment detected while running an assessment.

Contents

experimentArn

Amazon Resource Name (ARN) of the AWS FIS experiment.

Type: String

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

Required: No

experimentTemplateId

Identifier of the AWS FIS experiment template.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FailedGroupingRecommendationEntry

Indicates the accepted grouping recommendation whose implementation failed.

Contents

errorMessage

Indicates the error that occurred while implementing a grouping recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

groupingRecommendationId

Indicates the identifier of the grouping recommendation.

Type: String

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FailurePolicy

Defines a failure policy.

Contents

rpoInSecs

Recovery Point Objective (RPO) in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

rtoInSecs

Recovery Time Objective (RTO) in seconds.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Field

Indicates the field or attribute of a resource or data structure on which a condition is being applied or evaluated.

Contents

name

Name of the field.

Type: String

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

Required: Yes

aggregation

(Optional) Indicates the type of aggregation or summary operation (such as Sum, Average, and so on) to be performed on a particular field or set of data.

Type: String

Valid Values: `Min | Max | Sum | Avg | Count`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupingAppComponent

Creates a new recommended Application Component (AppComponent).

Contents

appComponentId

Indicates the identifier of an AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

appComponentName

Indicates the name of an AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: Yes

appComponentType

Indicates the type of an AppComponent.

Type: String

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

GroupingRecommendation

Creates a new grouping recommendation.

Contents

confidenceLevel

Indicates the confidence level of AWS Resilience Hub on the grouping recommendation.

Type: String

Valid Values: `High | Medium`

Required: Yes

creationTime

Indicates the creation time of the grouping recommendation.

Type: Timestamp

Required: Yes

groupingAppComponent

Indicates the name of the recommended Application Component (AppComponent).

Type: GroupingAppComponent object

Required: Yes

groupingRecommendationId

Indicates all the reasons available for rejecting a grouping recommendation.

Type: String

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

Required: Yes

recommendationReasons

Indicates all the reasons available for rejecting a grouping recommendation.

Type: Array of strings

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

Required: Yes

resources

Indicates the resources that are grouped in a recommended AppComponent.

Type: Array of GroupingResource objects

Required: Yes

score

Indicates the confidence level of the grouping recommendation.

Type: Double

Required: Yes

status

Indicates the status of grouping resources into AppComponents.

Type: String

Valid Values: `Accepted | Rejected | PendingDecision`

Required: Yes

rejectionReason

Indicates the reason you had selected while rejecting a grouping recommendation.

Type: String

Valid Values: `DistinctBusinessPurpose | SeparateDataConcern | DistinctUserGroupHandling | Other`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupingResource

Indicates the resource that will be grouped in the recommended Application Component (AppComponent).

Contents

logicalResourceId

Indicates the logical identifier of the resource.

Type: LogicalResourceId object

Required: Yes

physicalResourceId

Indicates the physical identifier of the resource.

Type: PhysicalResourceId object

Required: Yes

resourceName

Indicates the resource name.

Type: String

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

Required: Yes

resourceType

Indicates the resource type.

Type: String

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

Required: Yes

sourceAppComponentIds

Indicates the identifier of the source AppComponents in which the resources were previously grouped into.

Type: Array of strings

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LogicalResourceId

Defines a logical resource identifier.

Contents

identifier

Identifier of the resource.

Type: String

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

Required: Yes

eksSourceName

Name of the Amazon Elastic Kubernetes Service cluster and namespace this resource belongs to.

> **Note**
>
> This parameter accepts values in "eks-cluster/namespace" format.

Type: String

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

Required: No

logicalStackName

The name of the AWS CloudFormation stack this resource belongs to.

Type: String

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

Required: No

resourceGroupName

The name of the resource group that this resource belongs to.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

terraformSourceName

The name of the Terraform S3 state file this resource belongs to.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PermissionModel

Defines the roles and credentials that AWS Resilience Hub would use while creating the application, importing its resources, and running an assessment.

Contents

type

Defines how AWS Resilience Hub scans your resources. It can scan for the resources by using a pre-existing role in your AWS account, or by using the credentials of the current IAM user.

Type: String

Valid Values: `LegacyIAMUser | RoleBased`

Required: Yes

crossAccountRoleArns

Defines a list of role Amazon Resource Names (ARNs) to be used in other accounts. These ARNs are used for querying purposes while importing resources and assessing your application.

> **Note**
>
> - These ARNs are required only when your resources are in other accounts and you have different role name in these accounts. Else, the invoker role name will be used in the other accounts.
> - These roles must have a trust policy with `iam:AssumeRole` permission to the invoker role in the primary account.

Type: Array of strings

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

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):iam::[0-9]{12}:role/(([^/][!-~]+/){1,511})?[A-Za-z0-9_+=,.@-]{1,64}`

Required: No

invokerRoleName

Existing AWS IAM role name in the primary AWS account that will be assumed by AWS Resilience Hub Service Principle to obtain a read-only access to your application resources while running an assessment.

If your IAM role includes a path, you must include the path in the `invokerRoleName` parameter. For example, if your IAM role's ARN is `arn:aws:iam:123456789012:role/my-path/role-name`, you should pass `my-path/role-name`.

> **Note**
>
> - You must have `iam:passRole` permission for this role while creating or updating the application.
> - Currently, `invokerRoleName` accepts only `[A-Za-z0-9_+=,.@-]` characters.

Type: String

Pattern: `([^/]([!-~]+/){1,511})?[A-Za-z0-9_+=,.@-]{1,64}`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PhysicalResource

Defines a physical resource. A physical resource is a resource that exists in your account. It can be identified using an Amazon Resource Name (ARN) or an AWS Resilience Hub-native identifier.

Contents

logicalResourceId

Logical identifier of the resource.

Type: LogicalResourceId object

Required: Yes

physicalResourceId

Identifier of the physical resource.

Type: PhysicalResourceId object

Required: Yes

resourceType

Type of resource.

Type: String

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

Required: Yes

additionalInfo

Additional configuration parameters for an AWS Resilience Hub application. If you want to implement `additionalInfo` through the AWS Resilience Hub console rather than using an API call, see Configure the application configuration parameters.

> **Note**
>
> Currently, this parameter accepts a key-value mapping (in a string format) of only one failover region and one associated account.
> Key: `"failover-regions"`

```
Value: "[{"region":"<REGION>", "accounts":[{"id":"<ACCOUNT_ID>"}]}]"
```

Type: String to array of strings map

Key Pattern: `\S{1,128}`

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

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

Required: No

appComponents

The Application Components that belong to this resource.

Type: Array of AppComponent objects

Required: No

excluded

Indicates if a resource is included or excluded from the assessment.

Type: Boolean

Required: No

parentResourceName

Name of the parent resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

resourceName

The name of the resource.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

sourceType

Type of input source.

Type: String

Valid Values: `AppTemplate | Discovered`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PhysicalResourceId

Defines a physical resource identifier.

Contents

identifier

Identifier of the physical resource.

Type: String

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

Required: Yes

type

Specifies the type of physical resource identifier.

Arn

The resource identifier is an Amazon Resource Name (ARN) and it can identify the following list of resources:

- `AWS::ECS::Service`
- `AWS::EFS::FileSystem`
- `AWS::ElasticLoadBalancingV2::LoadBalancer`
- `AWS::Lambda::Function`
- `AWS::SNS::Topic`

Native

The resource identifier is an AWS Resilience Hub-native identifier and it can identify the following list of resources:

- `AWS::ApiGateway::RestApi`
- `AWS::ApiGatewayV2::Api`
- `AWS::AutoScaling::AutoScalingGroup`
- `AWS::DocDB::DBCluster`
- `AWS::DocDB::DBGlobalCluster`

- `AWS::DocDB::DBInstance`
- `AWS::DynamoDB::GlobalTable`
- `AWS::DynamoDB::Table`
- `AWS::EC2::EC2Fleet`
- `AWS::EC2::Instance`
- `AWS::EC2::NatGateway`
- `AWS::EC2::Volume`
- `AWS::ElasticLoadBalancing::LoadBalancer`
- `AWS::RDS::DBCluster`
- `AWS::RDS::DBInstance`
- `AWS::RDS::GlobalCluster`
- `AWS::Route53::RecordSet`
- `AWS::S3::Bucket`
- `AWS::SQS::Queue`

Type: String

Valid Values: `Arn | Native`

Required: Yes

awsAccountId

The AWS account that owns the physical resource.

Type: String

Pattern: `[0-9]{12}`

Required: No

awsRegion

The AWS Region that the physical resource is located in.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecommendationDisruptionCompliance

Defines a disruption compliance recommendation.

Contents

expectedComplianceStatus

The expected compliance status after applying the recommended configuration change.

Type: String

Valid Values: `PolicyBreached | PolicyMet | NotApplicable | MissingPolicy`

Required: Yes

expectedRpoDescription

The expected Recovery Point Objective (RPO) description after applying the recommended configuration change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

expectedRpoInSecs

The expected RPO after applying the recommended configuration change.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

expectedRtoDescription

The expected Recovery Time Objective (RTO) description after applying the recommended configuration change.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

expectedRtoInSecs

The expected RTO after applying the recommended configuration change.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecommendationItem

Defines a recommendation.

Contents

alreadyImplemented

Specifies if the recommendation has already been implemented.

Type: Boolean

Required: No

discoveredAlarm

Indicates the previously implemented Amazon CloudWatch alarm discovered by AWS Resilience Hub.

Type: Alarm object

Required: No

excluded

Indicates if an operational recommendation item is excluded.

Type: Boolean

Required: No

excludeReason

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: `AlreadyImplemented | NotRelevant | ComplexityOfImplementation`

Required: No

latestDiscoveredExperiment

Indicates the experiment created in AWS FIS that was discovered by AWS Resilience Hub, which matches the recommendation.

Type: Experiment object

Required: No

resourceId

Identifier of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

targetAccountId

Identifier of the target account.

Type: String

Pattern: `[0-9]{12}`

Required: No

targetRegion

The target region.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecommendationTemplate

Defines a recommendation template created with the CreateRecommendationTemplate action.

Contents

assessmentArn

Amazon Resource Name (ARN) of the assessment. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

format

Format of the recommendation template.

CfnJson

The template is AWS CloudFormation JSON.

CfnYaml

The template is AWS CloudFormation YAML.

Type: String

Valid Values: `CfnYaml | CfnJson`

Required: Yes

name

Name for the recommendation template.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

recommendationTemplateArn

Amazon Resource Name (ARN) for the recommendation template.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: Yes

recommendationTypes

An array of strings that specify the recommendation template type or types.

Alarm

The template is an AlarmRecommendation template.

Sop

The template is a SopRecommendation template.

Test

The template is a TestRecommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: `Alarm | Sop | Test`

Required: Yes

status

Status of the action.

Type: String

Valid Values: `Pending | InProgress | Failed | Success`

Required: Yes

appArn

Amazon Resource Name (ARN) of the AWS Resilience Hub application. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

endTime

The end time for the action.

Type: Timestamp

Required: No

message

Message for the recommendation template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

needsReplacements

Indicates if replacements are needed.

Type: Boolean

Required: No

recommendationIds

Identifiers for the recommendations used in the recommendation template.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: No

startTime

The start time for the action.

Type: Timestamp

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

templatesLocation

The file location of the template.

Type: S3Location object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RejectGroupingRecommendationEntry

Indicates the rejected grouping recommendation.

Contents

groupingRecommendationId

Indicates the identifier of the grouping recommendation.

Type: String

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

Required: Yes

rejectionReason

Indicates the reason you had selected while rejecting a grouping recommendation.

Type: String

Valid Values: `DistinctBusinessPurpose | SeparateDataConcern | DistinctUserGroupHandling | Other`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResiliencyPolicy

Defines a resiliency policy.

> **Note**
>
> AWS Resilience Hub allows you to provide a value of zero for `rtoInSecs` and `rpoInSecs` of your resiliency policy. But, while assessing your application, the lowest possible assessment result is near zero. Hence, if you provide value zero for `rtoInSecs` and `rpoInSecs`, the estimated workload RTO and estimated workload RPO result will be near zero and the **Compliance status** for your application will be set to **Policy breached**.

Contents

creationTime

Date and time when the resiliency policy was created.

Type: Timestamp

Required: No

dataLocationConstraint

Specifies a high-level geographical location constraint for where your resilience policy data can be stored.

Type: String

Valid Values: `AnyLocation | SameContinent | SameCountry`

Required: No

estimatedCostTier

Specifies the estimated cost tier of the resiliency policy.

Type: String

Valid Values: `L1 | L2 | L3 | L4`

Required: No

policy

The resiliency policy.

Type: String to FailurePolicy object map

Valid Keys: `Software | Hardware | AZ | Region`

Required: No

policyArn

Amazon Resource Name (ARN) of the resiliency policy. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:resiliency-policy/`policy-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

policyDescription

Description of the resiliency policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

policyName

The name of the policy

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

tags

Tags assigned to the resource. A tag is a label that you assign to an AWS resource. Each tag consists of a key/value pair.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `[^\x00-\x1f\x22]+`

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

Value Pattern: `[^\x00-\x1f\x22]*`

Required: No

tier

The tier for this resiliency policy, ranging from the highest severity (`MissionCritical`) to lowest (`NonCritical`).

Type: String

Valid Values: `MissionCritical | Critical | Important | CoreServices | NonCritical | NotApplicable`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResiliencyScore

The overall resiliency score, returned as an object that includes the disruption score and outage score.

Contents

disruptionScore

The disruption score for a valid key.

Type: String to double map

Valid Keys: `Software | Hardware | AZ | Region`

Required: Yes

score

The outage score for a valid key.

Type: Double

Required: Yes

componentScore

The score generated by AWS Resilience Hub for the scoring component after running an assessment.

For example, if the `score` is 25 points, it indicates the overall score of your application generated by AWS Resilience Hub after running an assessment.

Type: String to ScoringComponentResiliencyScore object map

Valid Keys: `Compliance | Test | Alarm | Sop`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceDrift

Indicates the resources that have drifted in the current application version.

Contents

appArn

Amazon Resource Name (ARN) of the application whose resources have drifted. The format for this ARN is: arn:`partition`:resiliencehub:`region`:`account`:app-assessment/`app-id`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference* guide.

Type: String

Pattern: `arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+.-]{0,1023}`

Required: No

appVersion

Version of the application whose resources have drifted.

Type: String

Pattern: `\S{1,50}`

Required: No

diffType

Indicates if the resource was added or removed.

Type: String

Valid Values: `NotEqual | Added | Removed`

Required: No

referenceId

Reference identifier of the resource drift.

Type: String

Pattern: `\S{1,255}`

Required: No

resourceIdentifier

Identifier of the drifted resource.

Type: ResourceIdentifier object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceError

Defines application resource errors.

Contents

logicalResourceId

Identifier of the logical resource.

Type: String

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

Required: No

physicalResourceId

Identifier of the physical resource.

Type: String

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

Required: No

reason

This is the error message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ResourceErrorsDetails

A list of errors retrieving an application's resources.

Contents

hasMoreErrors

This indicates if there are more errors not listed in the `resourceErrors` list.

Type: Boolean

Required: No

resourceErrors

A list of errors retrieving an application's resources.

Type: Array of ResourceError objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceIdentifier

Defines a resource identifier for the drifted resource.

Contents

logicalResourceId

Logical identifier of the drifted resource.

Type: LogicalResourceId object

Required: No

resourceType

Type of the drifted resource.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceMapping

Defines a resource mapping.

Contents

mappingType

Specifies the type of resource mapping.

Type: String

Valid Values: `CfnStack | Resource | AppRegistryApp | ResourceGroup | Terraform | EKS`

Required: Yes

physicalResourceId

Identifier of the physical resource.

Type: PhysicalResourceId object

Required: Yes

appRegistryAppName

Name of the application this resource is mapped to when the `mappingType` is `AppRegistryApp`.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

eksSourceName

Name of the Amazon Elastic Kubernetes Service cluster and namespace that this resource is mapped to when the `mappingType` is `EKS`.

> **Note**
>
> This parameter accepts values in "eks-cluster/namespace" format.

Type: String

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

Required: No

logicalStackName

Name of the AWS CloudFormation stack this resource is mapped to when the `mappingType` is `CfnStack`.

Type: String

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

Required: No

resourceGroupName

Name of the AWS Resource Groups that this resource is mapped to when the `mappingType` is `ResourceGroup`.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

resourceName

Name of the resource that this resource is mapped to when the `mappingType` is `Resource`.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: No

terraformSourceName

Name of the Terraform source that this resource is mapped to when the `mappingType` is `Terraform`.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3Location

The location of the Amazon S3 bucket.

Contents

bucket

The name of the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

prefix

The prefix for the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ScoringComponentResiliencyScore

Resiliency score of each scoring component. For more information about scoring component, see Calculating resiliency score.

Contents

excludedCount

Number of recommendations that were excluded from the assessment.

For example, if the `excludedCount` for Alarms coverage scoring component is 7, it indicates that 7 Amazon CloudWatch alarms are excluded from the assessment.

Type: Long

Required: No

outstandingCount

Number of recommendations that must be implemented to obtain the maximum possible score for the scoring component. For SOPs, alarms, and tests, these are the number of recommendations that must be implemented. For compliance, these are the number of Application Components that have breached the resiliency policy.

For example, if the `outstandingCount` for Alarms coverage scoring component is 5, it indicates that 5 Amazon CloudWatch alarms need to be implemented to achieve the maximum possible score.

Type: Long

Required: No

possibleScore

Maximum possible score that can be obtained for the scoring component.

For example, if the `possibleScore` is 20 points, it indicates the maximum possible score you can achieve for the scoring component when you run a new assessment after implementing all the AWS Resilience Hub recommendations.

Type: Double

Required: No

score

Resiliency score points given for the scoring component. The score is always less than or equal to the `possibleScore`.

Type: Double

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SopRecommendation

Defines a standard operating procedure (SOP) recommendation.

Contents

recommendationId

Identifier for the SOP recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: Yes

referenceId

Reference identifier for the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

serviceType

The service type.

Type: String

Valid Values: `SSM`

Required: Yes

appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

description

Description of the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

items

The recommendation items.

Type: Array of RecommendationItem objects

Required: No

name

Name of the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

prerequisite

Prerequisite for the SOP recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

recommendationStatus

Status of the recommended standard operating procedure.

Type: String

Valid Values: `Implemented | Inactive | NotImplemented | Excluded`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Sort

Indicates the sorting order of the fields in the metrics.

Contents

field

Indicates the order in which you want to sort the metrics. By default, the list is sorted in ascending order. To sort the list in descending order, set this field to False.

Type: String

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

Required: Yes

ascending

Indicates the name or identifier of the field or attribute that should be used as the basis for sorting the metrics.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TerraformSource

The Terraform s3 state file you need to import.

Contents

s3StateFileUrl

The URL of the Terraform s3 state file you need to import.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: `((https://([^/]+)\.s3((-|\.)[^/]+)?\.amazonaws\.com(.cn)?)|(s3:// ([^/]+)))/\S{1,2000}`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TestRecommendation

Defines a test recommendation.

Contents

referenceId

Reference identifier for the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

appComponentId

Indicates the identifier of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

appComponentName

Name of the AppComponent.

Type: String

Pattern: `\S{1,255}`

Required: No

dependsOnAlarms

A list of recommended alarms that are used in the test and must be exported before or with the test.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

description

Description for the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

intent

Intent of the test recommendation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

items

The test recommendation items.

Type: Array of RecommendationItem objects

Required: No

name

Name of the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

prerequisite

Prerequisite of the test recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

recommendationId

Identifier for the test recommendation.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-5][0-9a-f]{3}-[089ab][0-9a-f]{3}-[0-9a-f]{12}`

Required: No

recommendationStatus

Status of the recommended test.

Type: String

Valid Values: `Implemented | Inactive | NotImplemented | Excluded`

Required: No

risk

Level of risk for this test recommendation.

Type: String

Valid Values: `Small | Medium | High`

Required: No

type

Type of test recommendation.

Type: String

Valid Values: `Software | Hardware | AZ | Region`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnsupportedResource

Defines a resource that is not supported by AWS Resilience Hub.

Contents

logicalResourceId

Logical resource identifier for the unsupported resource.

Type: LogicalResourceId object

Required: Yes

physicalResourceId

Physical resource identifier for the unsupported resource.

Type: PhysicalResourceId object

Required: Yes

resourceType

The type of resource.

Type: String

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

Required: Yes

unsupportedResourceStatus

The status of the unsupported resource.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateRecommendationStatusItem

Defines the operational recommendation item that needs a status update.

Contents

resourceId

Resource identifier of the operational recommendation item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

targetAccountId

Identifier of the target AWS account.

Type: String

Pattern: `[0-9]{12}`

Required: No

targetRegion

Identifier of the target AWS Region.

Type: String

Pattern: `[a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

UpdateRecommendationStatusRequestEntry

Defines the operational recommendation item that is to be included or excluded.

Contents

entryId

An identifier for an entry in this batch that is used to communicate the result.

> **Note**
>
> The `entryIds` of a batch request need to be unique within a request.

Type: String

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

Required: Yes

excluded

Indicates if the operational recommendation needs to be excluded. If set to True, the operational recommendation will be excluded.

Type: Boolean

Required: Yes

referenceId

Reference identifier of the operational recommendation item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

appComponentId

Indicates the identifier of the AppComponent.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{0,254}`

Required: No

excludeReason

Indicates the reason for excluding an operational recommendation.

Type: String

Valid Values: `AlreadyImplemented | NotRelevant | ComplexityOfImplementation`

Required: No

item

The operational recommendation item.

Type: UpdateRecommendationStatusItem object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400