



API Reference

# AWS Migration Hub Refactor Spaces



**Version latest**

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# AWS Migration Hub Refactor Spaces: API Reference

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# Welcome

This API reference provides descriptions, syntax, and other details about each of the actions and data types for AWS Migration Hub Refactor Spaces (Refactor Spaces). The topic for each action shows the API request parameters and the response. Alternatively, you can use one of the AWS SDKs to access an API that is tailored to the programming language or platform that you're using. For more information, see [AWS SDKs](#).

To share Refactor Spaces environments with other AWS accounts or with AWS Organizations and their OUs, use AWS Resource Access Manager's `CreateResourceShare` API. See [CreateResourceShare](#) in the *AWS RAM API Reference*.

This document was last published on June 28, 2024.

# Actions

The following actions are supported:

- [CreateApplication](#)
- [CreateEnvironment](#)
- [CreateRoute](#)
- [CreateService](#)
- [DeleteApplication](#)
- [DeleteEnvironment](#)
- [DeleteResourcePolicy](#)
- [DeleteRoute](#)
- [DeleteService](#)
- [GetApplication](#)
- [GetEnvironment](#)
- [GetResourcePolicy](#)
- [GetRoute](#)
- [GetService](#)
- [ListApplications](#)
- [ListEnvironments](#)
- [ListEnvironmentVpcs](#)
- [ListRoutes](#)
- [ListServices](#)
- [ListTagsForResource](#)
- [PutResourcePolicy](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateRoute](#)

# CreateApplication

Creates an AWS Migration Hub Refactor Spaces application. The account that owns the environment also owns the applications created inside the environment, regardless of the account that creates the application. Refactor Spaces provisions an Amazon API Gateway, API Gateway VPC link, and Network Load Balancer for the application proxy inside your account.

In environments created with a [CreateEnvironment:NetworkFabricType](#) of NONE you need to configure [VPC to VPC connectivity](#) between your service VPC and the application proxy VPC to route traffic through the application proxy to a service with a private URL endpoint. For more information, see [Create an application](#) in the *Refactor Spaces User Guide*.

## Request Syntax

```
POST /environments/EnvironmentIdentifier/applications HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ApiGatewayProxy": {
    "EndpointType": "string",
    "StageName": "string"
  },
  "ClientToken": "string",
  "Name": "string",
  "ProxyType": "string",
  "Tags": {
    "string" : "string"
  },
  "VpcId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### EnvironmentIdentifier

The unique identifier of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ApiGatewayProxy

A wrapper object holding the API Gateway endpoint type and stage name for the proxy.

Type: [ApiGatewayProxyInput](#) object

Required: No

### ClientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `^[^\x20-\x7E]{1,64}$`

Required: No

### Name

The name to use for the application.

Type: String

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

Pattern: `^(?!app-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: Yes

### ProxyType

The proxy type of the proxy created within the application.

Type: String

Valid Values: API\_GATEWAY

Required: Yes

### Tags

The tags to assign to the application. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

### VpcId

The ID of the virtual private cloud (VPC).

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

Required: Yes

## Response Syntax

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

{
  "ApiGatewayProxy": {
    "EndpointType": "string",
    "StageName": "string"
  },
}
```

```
"ApplicationId": "string",
"Arn": "string",
"CreatedByAccountId": "string",
"CreatedTime": number,
"EnvironmentId": "string",
"LastUpdatedTime": number,
"Name": "string",
"OwnerAccountId": "string",
"ProxyType": "string",
"State": "string",
"Tags": {
  "string" : "string"
},
"VpcId": "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.

### ApiGatewayProxy

A wrapper object holding the API Gateway endpoint type and stage name for the proxy.

Type: [ApiGatewayProxyInput](#) object

### ApplicationId

The unique identifier of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the application. The format for this ARN is `arn:aws:refactor-spaces:region:account-id:resource-type/resource-id` . For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@-\_/\_]+$`

### CreatedByAccountId

The AWS account ID of application creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### CreatedTime

A timestamp that indicates when the application is created.

Type: Timestamp

### EnvironmentId

The ID of the environment in which the application is created.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

### LastUpdatedTime

A timestamp that indicates when the application was last updated.

Type: Timestamp

### Name

The name of the application.

Type: String

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



Pattern: `^(?!app-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### OwnerAccountId

The AWS account ID of the application owner (which is always the same as the environment owner account ID).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### ProxyType

The proxy type of the proxy created within the application.

Type: String

Valid Values: API\_GATEWAY

### State

The current state of the application.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING

### Tags

The tags assigned to the application. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

### VpcId

The ID of the Amazon VPC.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# CreateEnvironment

Creates an AWS Migration Hub Refactor Spaces environment. The caller owns the environment resource, and all Refactor Spaces applications, services, and routes created within the environment. They are referred to as the *environment owner*. The environment owner has cross-account visibility and control of Refactor Spaces resources that are added to the environment by other accounts that the environment is shared with.

When creating an environment with a [CreateEnvironment:NetworkFabricType](#) of TRANSIT\_GATEWAY, Refactor Spaces provisions a transit gateway to enable services in VPCs to communicate directly across accounts. If [CreateEnvironment:NetworkFabricType](#) is NONE, Refactor Spaces does not create a transit gateway and you must use your network infrastructure to route traffic to services with private URL endpoints.

## Request Syntax

```
POST /environments HTTP/1.1
Content-type: application/json

{
  "ClientToken": "string",
  "Description": "string",
  "Name": "string",
  "NetworkFabricType": "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.

### [ClientToken](#)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `^[\\x20-\\x7E]{1,64}$`

Required: No

### Description

The description of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-\\s\\.\\!\\*\\#\\@\\']+$`

Required: No

### Name

The name of the environment.

Type: String

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

Pattern: `^(?!env-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: Yes

### NetworkFabricType

The network fabric type of the environment.

Type: String

Valid Values: TRANSIT\_GATEWAY | NONE

Required: Yes

### Tags

The tags to assign to the environment. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern:  $^(?!aws:).+$

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

Required: No

## Response Syntax

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

{
  "Arn": "string",
  "CreatedTime": number,
  "Description": "string",
  "EnvironmentId": "string",
  "LastUpdatedTime": number,
  "Name": "string",
  "NetworkFabricType": "string",
  "OwnerAccountId": "string",
  "State": "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.

### Arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@-\_\/]+`

### CreatedTime

A timestamp that indicates when the environment is created.

Type: Timestamp

### Description

A description of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-\_s\.\!*\#\@\' ]+`

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}`

### LastUpdatedTime

A timestamp that indicates when the environment was last updated.

Type: Timestamp

### Name

The name of the environment.

Type: String

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

Pattern: `^(?!env-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### NetworkFabricType

The network fabric type of the environment.

Type: String

Valid Values: TRANSIT\_GATEWAY | NONE

### OwnerAccountId

The AWS account ID of environment owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### State

The current state of the environment.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

### Tags

The tags assigned to the created environment. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## Errors

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



## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

## **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# CreateRoute

Creates an AWS Migration Hub Refactor Spaces route. The account owner of the service resource is always the environment owner, regardless of which account creates the route. Routes target a service in the application. If an application does not have any routes, then the first route must be created as a `DEFAULT` `RouteType`.

When created, the default route defaults to an active state. Therefore, state is not a required input. However, like all other state values, the state of the default route can be updated after creation, but only when all other routes are also inactive. Conversely, no route can be active without the default route also being active.

Refactor Spaces supports routes with [path parameters](#). Path parameters are contained in curly braces. For example: `/users/{id}`, where `{id}` represents the parameter that is forwarded to the service. When using path parameters with Lambda services, the path parameters are parsed by API Gateway and are added to the Lambda [event object](#).

When you create a route, Refactor Spaces configures the Amazon API Gateway to send traffic to the target service as follows:

- **URL Endpoints**

If the service has a URL endpoint, and the endpoint resolves to a private IP address, Refactor Spaces routes traffic using the API Gateway VPC link. If a service endpoint resolves to a public IP address, Refactor Spaces routes traffic over the public internet. Services can have HTTP or HTTPS URL endpoints. For HTTPS URLs, publicly-signed certificates are supported. Private Certificate Authorities (CAs) are permitted only if the CA's domain is also publicly resolvable.

Refactor Spaces automatically resolves the public Domain Name System (DNS) names that are set in `CreateService:UrlEndpoint` when you create a service. The DNS names resolve when the DNS time-to-live (TTL) expires, or every 60 seconds for TTLs less than 60 seconds. This periodic DNS resolution ensures that the route configuration remains up-to-date.

When using path parameters for URL endpoints, you must set `AppendSourcePath` to `TRUE` for Refactor Spaces to append the source path to the destination service URL endpoint. For example, given a service endpoint URL of `http://pets-svc/petclinic/api` and a route source path of `/pets/{id}`, Refactor Spaces appends the source path to the service endpoint URL. The path routed to the service will be `http://pets-svc/petclinic/api/pets/{id}`. For URL endpoints, your service must parse the parameters.

- **One-time health check**

A one-time health check is performed on the service when either the route is updated from inactive to active, or when it is created with an active state. If the health check fails, the route transitions the route state to FAILED, an error code of SERVICE\_ENDPOINT\_HEALTH\_CHECK\_FAILURE is provided, and no traffic is sent to the service.

For private URLs, a target group is created on the Network Load Balancer and the load balancer target group runs default target health checks. By default, the health check is run against the service endpoint URL. Optionally, the health check can be performed against a different protocol, port, and/or path using the [CreateService:UrlEndpoint](#) parameter. All other health check settings for the load balancer use the default values described in the [Health checks for your target groups](#) in the *Elastic Load Balancing guide*. The health check is considered successful if at least one target within the target group transitions to a healthy state.

- **AWS Lambda function endpoints**

If the service has an AWS Lambda function endpoint, then Refactor Spaces configures the Lambda function's resource policy to allow the application's API Gateway to invoke the function.

The Lambda function state is checked. If the function is not active, the function configuration is updated so that Lambda resources are provisioned. If the Lambda state is Failed, then the route creation fails. For more information, see the [GetFunctionConfiguration's State response parameter](#) in the *AWS Lambda Developer Guide*.

A check is performed to determine that a AWS Lambda function with the specified ARN exists. If it does not exist, the health check fails. For public URLs, a connection is opened to the public endpoint. If the URL is not reachable, the health check fails.

When using path parameters with AWS Lambda function endpoints, the path parameters are parsed by API Gateway and are added to the Lambda event object.

## **Environments without a network bridge**

When you create environments without a network bridge ([CreateEnvironment:NetworkFabricType](#) is NONE ) and you use your own networking infrastructure, you need to configure [VPC to VPC connectivity](#) between your network and the application proxy VPC. Route creation from the

application proxy to service endpoints will fail if your network is not configured to connect to the application proxy VPC. For more information, see [Create a route](#) in the *Refactor Spaces User Guide*.

## Request Syntax

```
POST /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/routes
HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ClientToken": "string",
  "DefaultRoute": {
    "ActivationState": "string"
  },
  "RouteType": "string",
  "ServiceIdentifier": "string",
  "Tags": {
    "string" : "string"
  },
  "UriPathRoute": {
    "ActivationState": "string",
    "AppendSourcePath": boolean,
    "IncludeChildPaths": boolean,
    "Methods": [ "string" ],
    "SourcePath": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [ApplicationIdentifier](#)

The ID of the application within which the route is being created.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

## EnvironmentIdentifier

The ID of the environment in which the route is created.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ClientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `^[^\x20-\x7E]{1,64}$`

Required: No

### DefaultRoute

Configuration for the default route type.

Type: [DefaultRouteInput](#) object

Required: No

### RouteType

The route type of the route. `DEFAULT` indicates that all traffic that does not match another route is forwarded to the default route. Applications must have a default route before any other routes can be created. `URI_PATH` indicates a route that is based on a URI path.

Type: String

Valid Values: `DEFAULT` | `URI_PATH`

Required: Yes

### ServiceIdentifier

The ID of the service in which the route is created. Traffic that matches this route is forwarded to this service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

Required: Yes

### Tags

The tags to assign to the route. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

### UriPathRoute

The configuration for the URI path route type.

Type: [UriPathRouteInput](#) object

Required: No

## Response Syntax

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

```
{
  "ApplicationId": "string",
  "Arn": "string",
  "CreatedByAccountId": "string",
  "CreatedTime": number,
  "LastUpdatedTime": number,
  "OwnerAccountId": "string",
  "RouteId": "string",
  "RouteType": "string",
  "ServiceId": "string",
  "State": "string",
  "Tags": {
    "string" : "string"
  },
  "UriPathRoute": {
    "ActivationState": "string",
    "AppendSourcePath": boolean,
    "IncludeChildPaths": boolean,
    "Methods": [ "string" ],
    "SourcePath": "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.

### ApplicationId

The ID of the application in which the route is created.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the route. The format for this ARN is

`arn:aws:refactor-spaces:region:account-id:resource-type/resource-id` .



For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+`

### CreatedByAccountId

The AWS account ID of the route creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}`

### CreatedTime

A timestamp that indicates when the route is created.

Type: Timestamp

### LastUpdatedTime

A timestamp that indicates when the route was last updated.

Type: Timestamp

### OwnerId

The AWS account ID of the route owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}`

### RouteId

The unique identifier of the route.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

### RouteType

The route type of the route.

Type: String

Valid Values: DEFAULT | URI\_PATH

### ServiceId

The ID of service in which the route is created. Traffic that matches this route is forwarded to this service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

### State

The current state of the route. Activation state only allows ACTIVE or INACTIVE as user inputs. FAILED is a route state that is system generated.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING | INACTIVE

### Tags

The tags assigned to the created route. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## UriPathRoute

Configuration for the URI path route type.

Type: [UriPathRouteInput](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# CreateService

Creates an AWS Migration Hub Refactor Spaces service. The account owner of the service is always the environment owner, regardless of which account in the environment creates the service. Services have either a URL endpoint in a virtual private cloud (VPC), or a Lambda function endpoint.

## Important

If an AWS resource is launched in a service VPC, and you want it to be accessible to all of an environment's services with VPCs and routes, apply the `RefactorSpacesSecurityGroup` to the resource. Alternatively, to add more cross-account constraints, apply your own security group.

## Request Syntax

```
POST /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/services
HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ClientToken": "string",
  "Description": "string",
  "EndpointType": "string",
  "LambdaEndpoint": {
    "Arn": "string"
  },
  "Name": "string",
  "Tags": {
    "string" : "string"
  },
  "UrlEndpoint": {
    "HealthUrl": "string",
    "Url": "string"
  },
  "VpcId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application which the service is created.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment in which the service is created.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ClientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `^[^\x20-\x7E]{1,64}$`

Required: No

### Description

The description of the service.

Type: String

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

Pattern: `^[a-zA-Z0-9-_\s\.\!\*\#\@\']+$`

Required: No

### EndpointType

The type of endpoint to use for the service. The type can be a URL in a VPC or an AWS Lambda function.

Type: String

Valid Values: LAMBDA | URL

Required: Yes

### LambdaEndpoint

The configuration for the Lambda endpoint type.

Type: [LambdaEndpointInput](#) object

Required: No

### Name

The name of the service.

Type: String

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

Pattern: `^(?!svc-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: Yes

### Tags

The tags to assign to the service. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

### UrlEndpoint

The configuration for the URL endpoint type. When creating a route to a service, Refactor Spaces automatically resolves the address in the `UrlEndpointInput` object URL when the Domain Name System (DNS) time-to-live (TTL) expires, or every 60 seconds for TTLs less than 60 seconds.

Type: [UrlEndpointInput](#) object

Required: No

### VpcId

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

Required: No

## Response Syntax

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

{
  "ApplicationId": "string",
  "Arn": "string",
  "CreatedByAccountId": "string",
  "CreatedTime": number,
```



```
"Description": "string",
"EndpointType": "string",
"EnvironmentId": "string",
"LambdaEndpoint": {
  "Arn": "string"
},
"LastUpdatedTime": number,
"Name": "string",
"OwnerAccountId": "string",
"ServiceId": "string",
"State": "string",
"Tags": {
  "string" : "string"
},
"UrlEndpoint": {
  "HealthUrl": "string",
  "Url": "string"
},
"VpcId": "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.

### ApplicationId

The ID of the application that the created service belongs to.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9-]+\w{12}:[a-zA-Z0-9+,.@_-/_]+$`

### CreatedByAccountId

The AWS account ID of the service creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### CreatedTime

A timestamp that indicates when the service is created.

Type: Timestamp

### Description

The description of the created service.

Type: String

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

Pattern: `^[a-zA-Z0-9-_\s\.\!*\#\@\']+$`

### EndpointType

The endpoint type of the service.

Type: String

Valid Values: LAMBDA | URL

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

## LambdaEndpoint

The configuration for the Lambda endpoint type.

Type: [LambdaEndpointInput](#) object

## LastUpdatedTime

A timestamp that indicates when the service was last updated.

Type: Timestamp

## Name

The name of the service.

Type: String

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

Pattern: `^(?!svc-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

## OwnerAccountId

The AWS account ID of the service owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

## ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

## State

The current state of the service.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

## Tags

The tags assigned to the created service. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## UrlEndpoint

The configuration for the URL endpoint type.

Type: [UrlEndpointInput](#) object

## VpcId

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# DeleteApplication

Deletes an AWS Migration Hub Refactor Spaces application. Before you can delete an application, you must first delete any services or routes within the application.

## Request Syntax

```
DELETE /environments/EnvironmentIdentifier/applications/ApplicationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "ApplicationId": "string",
  "Arn": "string",
  "EnvironmentId": "string",
  "LastUpdatedTime": number,
  "Name": "string",
  "State": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+$`

### EnvironmentId

The unique identifier of the application's environment.

Type: String

Length Constraints: Fixed length of 14.



Pattern: `^env-[0-9A-Za-z]{10}$`

### LastUpdatedTime

A timestamp that indicates when the environment was last updated.

Type: Timestamp

### Name

The name of the application.

Type: String

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

Pattern: `^(?!app-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### State

The current state of the application.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# DeleteEnvironment

Deletes an AWS Migration Hub Refactor Spaces environment. Before you can delete an environment, you must first delete any applications and services within the environment.

## Request Syntax

```
DELETE /environments/EnvironmentIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Arn": "string",
  "EnvironmentId": "string",
  "LastUpdatedTime": number,
  "Name": "string",
  "State": "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.

### Arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z0-9+=,.\@\_/_]+`

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}`

### LastUpdatedTime

A timestamp that indicates when the environment was last updated.

Type: Timestamp

### Name

The name of the environment.

Type: String

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

Pattern: `^(?!env-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### State

The current state of the environment.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# DeleteResourcePolicy

Deletes the resource policy set for the environment.

## Request Syntax

```
DELETE /resourcepolicy/Identifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Identifier

Amazon Resource Name (ARN) of the resource associated with the policy.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+`

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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 PHP V3](#)



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

# DeleteRoute

Deletes an AWS Migration Hub Refactor Spaces route.

## Request Syntax

```
DELETE /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/
routes/RouteIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application to delete the route from.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment to delete the route from.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### RouteIdentifier

The ID of the route to delete.

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "ApplicationId": "string",
  "Arn": "string",
  "LastUpdatedTime": number,
  "RouteId": "string",
  "ServiceId": "string",
  "State": "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.

### ApplicationId

The ID of the application that the route belongs to.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the route.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z0-9+=,.\@\_/-]+/$`

### LastUpdatedTime

A timestamp that indicates when the route was last updated.

Type: Timestamp

### RouteId

The ID of the route to delete.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

### ServiceId

The ID of the service that the route belongs to.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

### State

The current state of the route.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING | INACTIVE

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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 PHP V3](#)

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

# DeleteService

Deletes an AWS Migration Hub Refactor Spaces service.

## Request Syntax

```
DELETE /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/
services/ServiceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

Deletes a Refactor Spaces service.

#### Note

The RefactorSpacesSecurityGroup security group must be removed from all AWS resources in the virtual private cloud (VPC) prior to deleting a service with a URL endpoint in a VPC.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment that the service is in.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### ServiceIdentifier

The ID of the service to delete.

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "ApplicationId": "string",
  "Arn": "string",
  "EnvironmentId": "string",
  "LastUpdatedTime": number,
  "Name": "string",
  "ServiceId": "string",
  "State": "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.

### ApplicationId

The ID of the application that the service is in.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`



## Arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\_/-_]/]+$`

## EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

## LastUpdatedTime

A timestamp that indicates when the service was last updated.

Type: Timestamp

## Name

The name of the service.

Type: String

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

Pattern: `^(?!svc-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

## ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

## State

The current state of the service.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# GetApplication

Gets an AWS Migration Hub Refactor Spaces application.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications/ApplicationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "ApiGatewayProxy": {
    "ApiGatewayId": "string",
    "EndpointType": "string",
    "NlbArn": "string",
    "NlbName": "string",
    "ProxyUrl": "string",
    "StageName": "string",
    "VpcLinkId": "string"
  },
  "ApplicationId": "string",
  "Arn": "string",
  "CreatedByAccountId": "string",
  "CreatedTime": number,
  "EnvironmentId": "string",
  "Error": {
    "AccountId": "string",
    "AdditionalDetails": {
      "string" : "string"
    },
    "Code": "string",
    "Message": "string",
    "ResourceIdentifier": "string",
    "ResourceType": "string"
  },
  "LastUpdatedTime": number,
  "Name": "string",
  "OwnerAccountId": "string",
  "ProxyType": "string",
  "State": "string",
  "Tags": {
    "string" : "string"
  },
  "VpcId": "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.

## ApiGatewayProxy

The endpoint URL of the API Gateway proxy.

Type: [ApiGatewayProxyConfig](#) object

## ApplicationId

The unique identifier of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

## Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+$`

## CreatedByAccountId

The AWS account ID of the application creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

## CreatedTime

A timestamp that indicates when the application is created.

Type: Timestamp

## EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

### Error

Any error associated with the application resource.

Type: [ErrorResponse](#) object

### LastUpdatedTime

A timestamp that indicates when the application was last updated.

Type: Timestamp

### Name

The name of the application.

Type: String

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

Pattern: `^(?!app-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### OwnerAccountId

The AWS account ID of the application owner (which is always the same as the environment owner account ID).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### ProxyType

The proxy type of the proxy created within the application.

Type: String

Valid Values: API\_GATEWAY

### State

The current state of the application.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING

## Tags

The tags assigned to the application. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## VpcId

The ID of the virtual private cloud (VPC).

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500



## ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# GetEnvironment

Gets an AWS Migration Hub Refactor Spaces environment.

## Request Syntax

```
GET /environments/EnvironmentIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "Arn": "string",  
  "CreatedTime": number,  
  "Description": "string",  
  "EnvironmentId": "string",  
  "Error": {  
    "AccountId": "string",  
    "AdditionalDetails": {  
      "string": "string"    }  
  }}
```

```
    },
    "Code": "string",
    "Message": "string",
    "ResourceIdentifier": "string",
    "ResourceType": "string"
  },
  "LastUpdatedTime": number,
  "Name": "string",
  "NetworkFabricType": "string",
  "OwnerAccountId": "string",
  "State": "string",
  "Tags": {
    "string" : "string"
  },
  "TransitGatewayId": "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.

### Arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\_/_]+`

### CreatedTime

A timestamp that indicates when the environment is created.

Type: Timestamp

### Description

The description of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-_\s\.\!\*\#\@\']+$`

### **EnvironmentId**

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

### **Error**

Any error associated with the environment resource.

Type: [ErrorResponse](#) object

### **LastUpdatedTime**

A timestamp that indicates when the environment was last updated.

Type: Timestamp

### **Name**

The name of the environment.

Type: String

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

Pattern: `^(?!env-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

### **NetworkFabricType**

The network fabric type of the environment.

Type: String

Valid Values: TRANSIT\_GATEWAY | NONE

### **OwnerAccountId**

The AWS account ID of the environment owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### State

The current state of the environment.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

### Tags

The tags to assign to the environment. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

### TransitGatewayId

The ID of the AWS Transit Gateway set up by the environment, if applicable.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `^tgw-[-a-f0-9]{17}$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# GetResourcePolicy

Gets the resource-based permission policy that is set for the given environment.

## Request Syntax

```
GET /resourcepolicy/Identifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Identifier

The Amazon Resource Name (ARN) of the resource associated with the policy.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z0-9+=,.\@\_-\_/\_]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Policy": "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**

A JSON-formatted string for an AWS resource-based policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300000.

Pattern: `^\.*\S.*$`

## **Errors**

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# GetRoute

Gets an AWS Migration Hub Refactor Spaces route.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/
routes/RouteIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### RouteIdentifier

The ID of the route.

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "AppendSourcePath": boolean,
  "ApplicationId": "string",
  "Arn": "string",
  "CreatedByAccountId": "string",
  "CreatedTime": number,
  "EnvironmentId": "string",
  "Error": {
    "AccountId": "string",
    "AdditionalDetails": {
      "string" : "string"
    },
    "Code": "string",
    "Message": "string",
    "ResourceIdentifier": "string",
    "ResourceType": "string"
  },
  "IncludeChildPaths": boolean,
  "LastUpdatedTime": number,
  "Methods": [ "string" ],
  "OwnerAccountId": "string",
  "PathResourceToId": {
    "string" : "string"
  },
  "RouteId": "string",
  "RouteType": "string",
  "ServiceId": "string",
  "SourcePath": "string",
  "State": "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.

### AppendSourcePath

If set to `true`, this option appends the source path to the service URL endpoint.

Type: Boolean

### ApplicationId

The ID of the application that the route belongs to.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the route.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+$`

### CreatedByAccountId

The AWS account ID of the route creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### CreatedTime

The timestamp of when the route is created.

Type: Timestamp

### EnvironmentId

Unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

### Error

Any error associated with the route resource.

Type: [ErrorResponse](#) object

### IncludeChildPaths

Indicates whether to match all subpaths of the given source path. If this value is `false`, requests must match the source path exactly before they are forwarded to this route's service.

Type: Boolean

### LastUpdatedTime

A timestamp that indicates when the route was last updated.

Type: Timestamp

### Methods

A list of HTTP methods to match. An empty list matches all values. If a method is present, only HTTP requests using that method are forwarded to this route's service.

Type: Array of strings

Valid Values: DELETE | GET | HEAD | OPTIONS | PATCH | POST | PUT

### OwnerAccountId

The AWS account ID of the route owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### PathResourceTold

A mapping of Amazon API Gateway path resources to resource IDs.

Type: String to string map

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

Value Length Constraints: Fixed length of 10.

Value Pattern: `^[a-z0-9]{10}$`

### RouteId

The unique identifier of the route.

**DEFAULT:** All traffic that does not match another route is forwarded to the default route. Applications must have a default route before any other routes can be created.

**URI\_PATH:** A route that is based on a URI path.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

### RouteType

The type of route.

Type: String

Valid Values: DEFAULT | URI\_PATH

### ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

## SourcePath

This is the path that Refactor Spaces uses to match traffic. Paths must start with / and are relative to the base of the application. To use path parameters in the source path, add a variable in curly braces. For example, the resource path {user} represents a path parameter called 'user'.

Type: String

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

Pattern: `^(/[a-zA-Z0-9._:~]|\/\{[a-zA-Z0-9._:~]+\})+$`

## State

The current state of the route.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING | INACTIVE

## Tags

The tags assigned to the route. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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



# GetService

Gets an AWS Migration Hub Refactor Spaces service.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/services/ServiceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### ServiceIdentifier

The ID of the service.

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "ApplicationId": "string",
  "Arn": "string",
  "CreatedByAccountId": "string",
  "CreatedTime": number,
  "Description": "string",
  "EndpointType": "string",
  "EnvironmentId": "string",
  "Error": {
    "AccountId": "string",
    "AdditionalDetails": {
      "string" : "string"
    },
    "Code": "string",
    "Message": "string",
    "ResourceIdentifier": "string",
    "ResourceType": "string"
  },
  "LambdaEndpoint": {
    "Arn": "string"
  },
  "LastUpdatedTime": number,
  "Name": "string",
  "OwnerAccountId": "string",
  "ServiceId": "string",
  "State": "string",
  "Tags": {
    "string" : "string"
  },
  "UrlEndpoint": {
    "HealthUrl": "string",
    "Url": "string"
  },
  "VpcId": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}: [a-zA-Z_0-9+=,.\@-\_/\_]+$`

### CreatedByAccountId

The AWS account ID of the service creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### CreatedTime

The timestamp of when the service is created.

Type: Timestamp

## Description

The description of the service.

Type: String

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

Pattern: `^[a-zA-Z0-9-_\s\.\!*\#\@\']+$`

## EndpointType

The endpoint type of the service.

Type: String

Valid Values: LAMBDA | URL

## EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

## Error

Any error associated with the service resource.

Type: [ErrorResponse](#) object

## LambdaEndpoint

The configuration for the AWS Lambda endpoint type.

The **Arn** is the Amazon Resource Name (ARN) of the Lambda function associated with this service.

Type: [LambdaEndpointConfig](#) object

## LastUpdatedTime

A timestamp that indicates when the service was last updated.

Type: Timestamp

## Name

The name of the service.

Type: String

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

Pattern: `^(?!svc-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

## OwnerAccountId

The AWS account ID of the service owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

## ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

## State

The current state of the service.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

## Tags

The tags assigned to the service. 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: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

### UrlEndpoint

The configuration for the URL endpoint type.

The **Url** is the URL of the endpoint type.

The **HealthUrl** is the health check URL of the endpoint type.

Type: [UrlEndpointConfig](#) object

### VpcId

The ID of the virtual private cloud (VPC).

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# ListApplications

Lists all the AWS Migration Hub Refactor Spaces applications within an environment.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

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

### NextToken

The token for the next page of results.

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

Pattern: `^[a-zA-Z0-9/\+=]{0,2048}$`

## Request Body

The request does not have a request body.



## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "ApplicationSummaryList": [
    {
      "ApiGatewayProxy": {
        "ApiGatewayId": "string",
        "EndpointType": "string",
        "NlbArn": "string",
        "NlbName": "string",
        "ProxyUrl": "string",
        "StageName": "string",
        "VpcLinkId": "string"
      },
      "ApplicationId": "string",
      "Arn": "string",
      "CreatedByAccountId": "string",
      "CreatedTime": number,
      "EnvironmentId": "string",
      "Error": {
        "AccountId": "string",
        "AdditionalDetails": {
          "string" : "string"
        },
        "Code": "string",
        "Message": "string",
        "ResourceIdentifier": "string",
        "ResourceType": "string"
      },
      "LastUpdatedTime": number,
      "Name": "string",
      "OwnerAccountId": "string",
      "ProxyType": "string",
      "State": "string",
      "Tags": {
        "string" : "string"
      },
      "VpcId": "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.

### ApplicationSummaryList

The list of `ApplicationSummary` objects.

Type: Array of [ApplicationSummary](#) objects

### NextToken

The token for the next page of results.

Type: String

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# ListEnvironments

Lists AWS Migration Hub Refactor Spaces environments owned by a caller account or shared with the caller account.

## Request Syntax

```
GET /environments?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

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

### NextToken

The token for the next page of results.

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "EnvironmentSummaryList": [
    {
      "Arn": "string",
```

```
"CreatedTime": number,
"Description": "string",
"EnvironmentId": "string",
"Error": {
  "AccountId": "string",
  "AdditionalDetails": {
    "string" : "string"
  },
  "Code": "string",
  "Message": "string",
  "ResourceIdentifier": "string",
  "ResourceType": "string"
},
"LastUpdatedTime": number,
"Name": "string",
"NetworkFabricType": "string",
"OwnerAccountId": "string",
"State": "string",
"Tags": {
  "string" : "string"
},
"TransitGatewayId": "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.

### EnvironmentSummaryList

The list of `EnvironmentSummary` objects.

Type: Array of [EnvironmentSummary](#) objects

### NextToken

The token for the next page of results.

Type: String

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

### ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# ListEnvironmentVpcs

Lists all AWS Migration Hub Refactor Spaces service virtual private clouds (VPCs) that are part of the environment.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/vpcs?maxResults=MaxResults&nextToken=NextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

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

### NextToken

The token for the next page of results.

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Request Body

The request does not have a request body.



## Response Syntax

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

{
  "EnvironmentVpcList": [
    {
      "AccountId": "string",
      "CidrBlocks": [ "string" ],
      "CreatedTime": number,
      "EnvironmentId": "string",
      "LastUpdatedTime": number,
      "VpcId": "string",
      "VpcName": "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.

### [EnvironmentVpcList](#)

The list of `EnvironmentVpc` objects.

Type: Array of [EnvironmentVpc](#) objects

### [NextToken](#)

The token for the next page of results.

Type: String

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

Pattern: `^[a-zA-Z0-9/\+=]{0,2048}$`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# ListRoutes

Lists all the AWS Migration Hub Refactor Spaces routes within an application.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/routes?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

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

### NextToken

The token for the next page of results.

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "NextToken": "string",
  "RouteSummaryList": [
    {
      "AppendSourcePath": boolean,
      "ApplicationId": "string",
      "Arn": "string",
      "CreatedByAccountId": "string",
      "CreatedTime": number,
      "EnvironmentId": "string",
      "Error": {
        "AccountId": "string",
        "AdditionalDetails": {
          "string" : "string"
        },
        "Code": "string",
        "Message": "string",
        "ResourceIdentifier": "string",
        "ResourceType": "string"
      },
      "IncludeChildPaths": boolean,
      "LastUpdatedTime": number,
      "Methods": [ "string" ],
      "OwnerAccountId": "string",
      "PathResourceToId": {
        "string" : "string"
      },
      "RouteId": "string",
      "RouteType": "string",
      "ServiceId": "string",
      "SourcePath": "string",
```

```
    "State": "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.

### NextToken

The token for the next page of results.

Type: String

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

### RouteSummaryList

The list of RouteSummary objects.

Type: Array of [RouteSummary](#) objects

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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



# ListServices

Lists all the AWS Migration Hub Refactor Spaces services within an application.

## Request Syntax

```
GET /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/services?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

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

### NextToken

The token for the next page of results.

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "NextToken": "string",
  "ServiceSummaryList": [
    {
      "ApplicationId": "string",
      "Arn": "string",
      "CreatedByAccountId": "string",
      "CreatedTime": number,
      "Description": "string",
      "EndpointType": "string",
      "EnvironmentId": "string",
      "Error": {
        "AccountId": "string",
        "AdditionalDetails": {
          "string": "string"
        },
        "Code": "string",
        "Message": "string",
        "ResourceIdentifier": "string",
        "ResourceType": "string"
      },
      "LambdaEndpoint": {
        "Arn": "string"
      },
      "LastUpdatedTime": number,
      "Name": "string",
      "OwnerAccountId": "string",
      "ServiceId": "string",
      "State": "string",
```

```
    "Tags": {
      "string" : "string"
    },
    "UrlEndpoint": {
      "HealthUrl": "string",
      "Url": "string"
    },
    "VpcId": "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

The token for the next page of results.

Type: String

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

Pattern: `^[a-zA-Z0-9/\+\=\]{0,2048}$`

### ServiceSummaryList

The list of `ServiceSummary` objects.

Type: Array of [ServiceSummary](#) objects

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## InternalServerErrorException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

## ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# ListTagsForResource

Lists the tags of a resource. The caller account must be the same as the resource's `OwnerAccountId`. Listing tags in other accounts is not supported.

## Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

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

The list of tags assigned to the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

## Errors

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

### **InternalServerError**

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

HTTP Status Code: 404

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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



# PutResourcePolicy

Attaches a resource-based permission policy to the AWS Migration Hub Refactor Spaces environment. The policy must contain the same actions and condition statements as the `arn:aws:ram::aws:permission/AWSRAMDefaultPermissionRefactorSpacesEnvironment` permission in AWS Resource Access Manager. The policy must not contain new lines or blank lines.

## Request Syntax

```
PUT /resourcepolicy HTTP/1.1
Content-type: application/json

{
  "Policy": "string",
  "ResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Policy

A JSON-formatted string for an AWS resource-based policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300000.

Pattern: `^\.*\S.*$`

Required: Yes

### ResourceArn

The Amazon Resource Name (ARN) of the resource to which the policy is being attached.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@-\_/\_]+`

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

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### InvalidResourcePolicyException

The resource policy is not valid.

HTTP Status Code: 400

### ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied because the request was throttled.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

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

# TagResource

Removes the tags of a given resource. Tags are metadata which can be used to manage a resource. To tag a resource, the caller account must be the same as the resource's `OwnerAccountId`. Tagging resources in other accounts is not supported.

## Note

AWS Migration Hub Refactor Spaces does not propagate tags to orchestrated resources, such as an environment's transit gateway.

## 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

The Amazon Resource Name (ARN) of the resource.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Tags

The new or modified tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

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](#).

### InternalServerErrorException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

### ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# UntagResource

Adds to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource. To untag a resource, the caller account must be the same as the resource's `OwnerAccountId`. Untagging resources across accounts is not supported.

## Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

Required: Yes

### TagKeys

The list of keys of the tags to be removed from the resource.

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](#).

## InternalServerErrorException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

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



# UpdateRoute

Updates an AWS Migration Hub Refactor Spaces route.

## Request Syntax

```
PATCH /environments/EnvironmentIdentifier/applications/ApplicationIdentifier/
routes/RouteIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "ActivationState": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### ApplicationIdentifier

The ID of the application within which the route is being updated.

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: Yes

### EnvironmentIdentifier

The ID of the environment in which the route is being updated.

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: Yes

### RouteIdentifier

The unique identifier of the route to update.

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ActivationState

If set to ACTIVE, traffic is forwarded to this route's service after the route is updated.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: Yes

## Response Syntax

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

{
  "ApplicationId": "string",
  "Arn": "string",
  "LastUpdatedTime": number,
  "RouteId": "string",
  "ServiceId": "string",
  "State": "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.

### ApplicationId

The ID of the application in which the route is being updated.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

### Arn

The Amazon Resource Name (ARN) of the route. The format for this ARN is `arn:aws:refactor-spaces:region:account-id:resource-type/resource-id` . For more information about ARNs, see [Amazon Resource Names \(ARNs\)](#) in the *AWS General Reference*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}: [a-zA-Z_0-9+=, .@\-\_/\ ]+$`

### LastUpdatedTime

A timestamp that indicates when the route was last updated.

Type: Timestamp

### RouteId

The unique identifier of the route.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

### ServiceId

The ID of service in which the route was created. Traffic that matches this route is forwarded to this service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

### State

The current state of the route.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING | INACTIVE

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied because the request was throttled.

HTTP Status Code: 429

### ValidationException

The input does not satisfy the constraints specified by an AWS service.

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

# Data Types

The AWS Migration Hub Refactor Spaces 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:

- [ApiGatewayProxyConfig](#)
- [ApiGatewayProxyInput](#)
- [ApiGatewayProxySummary](#)
- [ApplicationSummary](#)
- [DefaultRouteInput](#)
- [EnvironmentSummary](#)
- [EnvironmentVpc](#)
- [ErrorResponse](#)
- [LambdaEndpointConfig](#)
- [LambdaEndpointInput](#)
- [LambdaEndpointSummary](#)
- [RouteSummary](#)
- [ServiceSummary](#)
- [UriPathRouteInput](#)
- [UrlEndpointConfig](#)
- [UrlEndpointInput](#)
- [UrlEndpointSummary](#)

# ApiGatewayProxyConfig

A wrapper object holding the Amazon API Gateway proxy configuration.

## Contents

### ApiGatewayId

The resource ID of the API Gateway for the proxy.

Type: String

Length Constraints: Fixed length of 10.

Pattern: `^[a-z0-9]{10}$`

Required: No

### EndpointType

The type of API Gateway endpoint created.

Type: String

Valid Values: REGIONAL | PRIVATE

Required: No

### NlbArn

The Amazon Resource Name (ARN) of the Network Load Balancer configured by the API Gateway proxy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:elasticloadbalancing:[a-zA-Z0-9\-\-]+\:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\-]+\$`

Required: No

### NlbName

The name of the Network Load Balancer that is configured by the API Gateway proxy.

Type: String

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

Pattern: `^(?!internal-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+.*[^-]$`

Required: No

## ProxyUrl

The endpoint URL of the API Gateway proxy.

Type: String

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

Pattern: `^https?://[-a-zA-Z0-9+\x38@#/%?=\~_|!:,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|]$`

Required: No

## StageName

The name of the API Gateway stage. The name defaults to prod.

Type: String

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

Pattern: `^[-a-zA-Z0-9_]*$`

Required: No

## VpcLinkId

The VpcLink ID of the API Gateway proxy.

Type: String

Length Constraints: Fixed length of 10.

Pattern: `^[a-z0-9]{10}$`

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](#)

# ApiGatewayProxyInput

A wrapper object holding the Amazon API Gateway endpoint input.

## Contents

### EndpointType

The type of endpoint to use for the API Gateway proxy. If no value is specified in the request, the value is set to REGIONAL by default.

If the value is set to PRIVATE in the request, this creates a private API endpoint that is isolated from the public internet. The private endpoint can only be accessed by using Amazon Virtual Private Cloud (Amazon VPC) interface endpoints for the Amazon API Gateway that has been granted access. For more information about creating a private connection with Refactor Spaces and interface endpoint (AWS PrivateLink) availability, see [Access Refactor Spaces using an interface endpoint \(AWS PrivateLink\)](#).

Type: String

Valid Values: REGIONAL | PRIVATE

Required: No

### StageName

The name of the API Gateway stage. The name defaults to prod.

Type: String

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

Pattern: ^[-a-zA-Z0-9\_]\*\$

Required: No

## See Also

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

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

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

# ApiGatewayProxySummary

A wrapper object holding the Amazon API Gateway proxy summary.

## Contents

### ApiGatewayId

The resource ID of the API Gateway for the proxy.

Type: String

Length Constraints: Fixed length of 10.

Pattern: `^[a-z0-9]{10}$`

Required: No

### EndpointType

The type of API Gateway endpoint created.

Type: String

Valid Values: REGIONAL | PRIVATE

Required: No

### NlbArn

The Amazon Resource Name (ARN) of the Network Load Balancer configured by the API Gateway proxy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:elasticloadbalancing:[a-zA-Z0-9\-\-]+\:\w{12}: [a-zA-Z_0-9+=,.\@\-\_/\-]+`

Required: No

### NlbName

The name of the Network Load Balancer that is configured by the API Gateway proxy.

Type: String

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

Pattern: `^(?!internal-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+.*[^-]$`

Required: No

## ProxyUrl

The endpoint URL of the API Gateway proxy.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_!|:,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|$`

Required: No

## StageName

The name of the API Gateway stage. The name defaults to prod.

Type: String

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

Pattern: `^[-a-zA-Z0-9_]*$`

Required: No

## VpcLinkId

The VpcLink ID of the API Gateway proxy.

Type: String

Length Constraints: Fixed length of 10.

Pattern: `^[a-z0-9]{10}$`

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](#)

# ApplicationSummary

The list of ApplicationSummary objects.

## Contents

### ApiGatewayProxy

The endpoint URL of the Amazon API Gateway proxy.

Type: [ApiGatewayProxySummary](#) object

Required: No

### ApplicationId

The unique identifier of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: No

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+$`

Required: No

### CreatedByAccountId

The AWS account ID of the application creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### **CreatedTime**

A timestamp that indicates when the application is created.

Type: Timestamp

Required: No

### **EnvironmentId**

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: No

### **Error**

Any error associated with the application resource.

Type: [ErrorResponse](#) object

Required: No

### **LastUpdatedTime**

A timestamp that indicates when the application was last updated.

Type: Timestamp

Required: No

### **Name**

The name of the application.

Type: String



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

Pattern: `^(?!app-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: No

### **OwnerAccountId**

The AWS account ID of the application owner (which is always the same as the environment owner account ID).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### **ProxyType**

The proxy type of the proxy created within the application.

Type: String

Valid Values: API\_GATEWAY

Required: No

### **State**

The current state of the application.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING

Required: No

### **Tags**

The tags assigned to the application.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

## VpcId

The ID of the virtual private cloud (VPC).

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{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](#)

# DefaultRouteInput

The configuration for the default route type.

## Contents

### ActivationState

If set to `ACTIVE`, traffic is forwarded to this route's service after the route is created.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

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](#)

# EnvironmentSummary

The summary information for environments as a response to `ListEnvironments`.

## Contents

### Arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\_/_]+`

Required: No

### CreatedTime

A timestamp that indicates when the environment is created.

Type: Timestamp

Required: No

### Description

A description of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-\_ \s\.\!*\#\@\' ]+`

Required: No

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: No

## Error

Any error associated with the environment resource.

Type: [ErrorResponse](#) object

Required: No

## LastUpdatedTime

A timestamp that indicates when the environment was last updated.

Type: Timestamp

Required: No

## Name

The name of the environment.

Type: String

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

Pattern: `^(?!env-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: No

## NetworkFabricType

The network fabric type of the environment.

Type: String

Valid Values: TRANSIT\_GATEWAY | NONE

Required: No

## OwnerAccountId

The AWS account ID of the environment owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

## State

The current state of the environment.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

Required: No

## Tags

The tags assigned to the environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

## TransitGatewayId

The ID of the AWS Transit Gateway set up by the environment.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `^tgw-[-a-f0-9]{17}$`

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](#)

# EnvironmentVpc

Provides summary information for the `EnvironmentVpc` resource as a response to `ListEnvironmentVpc`.

## Contents

### AccountId

The AWS account ID of the virtual private cloud (VPC) owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### CidrBlocks

The list of Amazon Virtual Private Cloud (Amazon VPC) CIDR blocks.

Type: Array of strings

Array Members: Minimum number of 1 item.

Required: No

### CreatedTime

A timestamp that indicates when the VPC is first added to the environment.

Type: Timestamp

Required: No

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.



Pattern: `^env-[0-9A-Za-z]{10}$`

Required: No

### **LastUpdatedTime**

A timestamp that indicates when the VPC was last updated by the environment.

Type: Timestamp

Required: No

### **VpcId**

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{9})?$`

Required: No

### **VpcName**

The name of the VPC at the time it is added to the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^.*$`

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](#)



# ErrorResponse

Error associated with a resource returned for a Get or List resource response.

## Contents

### AccountId

The AWS account ID of the resource owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### AdditionalDetails

Additional details about the error.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 50.

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

Required: No

### Code

The error code associated with the error.

Type: String

Valid Values: `INVALID_RESOURCE_STATE | RESOURCE_LIMIT_EXCEEDED | RESOURCE_CREATION_FAILURE | RESOURCE_UPDATE_FAILURE | SERVICE_ENDPOINT_HEALTH_CHECK_FAILURE | RESOURCE_DELETION_FAILURE | RESOURCE_RETRIEVAL_FAILURE | RESOURCE_IN_USE | RESOURCE_NOT_FOUND | STATE_TRANSITION_FAILURE | REQUEST_LIMIT_EXCEEDED | NOT_AUTHORIZED`

Required: No

## Message

The message associated with the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^\p{Alnum}\p{Punct}\p{Blank}*$`

Required: No

## ResourceIdentifier

The ID of the resource.

Type: String

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

Pattern: `(^(env|svc|pxy|rte|app)-([0-9A-Za-z]{10}$))`

Required: No

## ResourceType

The type of resource.

Type: String

Valid Values: ENVIRONMENT | APPLICATION | ROUTE | SERVICE | TRANSIT\_GATEWAY | TRANSIT\_GATEWAY\_ATTACHMENT | API\_GATEWAY | NLB | TARGET\_GROUP | LOAD\_BALANCER\_LISTENER | VPC\_LINK | LAMBDA | VPC | SUBNET | ROUTE\_TABLE | SECURITY\_GROUP | VPC\_ENDPOINT\_SERVICE\_CONFIGURATION | RESOURCE\_SHARE | IAM\_ROLE

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](#)

# LambdaEndpointConfig

The configuration for the AWS Lambda endpoint type.

## Contents

### Arn

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

Type: String

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

Pattern: `^arn:(aws[a-zA-Z-]*)?:lambda:[a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+\d{1}:\d{12}:function:[a-zA-Z0-9-_\+](:(\$\{LATEST|[a-zA-Z0-9-_\+])?)?$`

Required: No

## See Also

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

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

# LambdaEndpointInput

The input for the AWS Lambda endpoint type.

## Contents

### Arn

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

Type: String

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

Pattern: `^arn:(aws[a-zA-Z-]*)?:lambda:[a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+\d{1}:\d{12}:function:[a-zA-Z0-9-_\+](:(\$\{LATEST|[a-zA-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](#)

# LambdaEndpointSummary

The summary for the AWS Lambda endpoint type.

## Contents

### Arn

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

Type: String

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

Pattern: `^arn:(aws[a-zA-Z-]*)?:lambda:[a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+\d{1}:\d{12}:function:[a-zA-Z0-9-_\+](:(\$\{LATEST|[a-zA-Z0-9-_\+])?)?$`

Required: No

## See Also

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

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



# RouteSummary

The summary information for the routes as a response to `ListRoutes`.

## Contents

### AppendSourcePath

If set to `true`, this option appends the source path to the service URL endpoint.

Type: Boolean

Required: No

### ApplicationId

The unique identifier of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: No

### Arn

The Amazon Resource Name (ARN) of the route.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\-\_/\_]+/$`

Required: No

### CreatedByAccountId

The AWS account ID of the route creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### **CreatedTime**

A timestamp that indicates when the route is created.

Type: Timestamp

Required: No

### **EnvironmentId**

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: No

### **Error**

Any error associated with the route resource.

Type: [ErrorResponse](#) object

Required: No

### **IncludeChildPaths**

Indicates whether to match all subpaths of the given source path. If this value is `false`, requests must match the source path exactly before they are forwarded to this route's service.

Type: Boolean

Required: No

### **LastUpdatedTime**

A timestamp that indicates when the route was last updated.

Type: Timestamp

Required: No

### Methods

A list of HTTP methods to match. An empty list matches all values. If a method is present, only HTTP requests using that method are forwarded to this route's service.

Type: Array of strings

Valid Values: DELETE | GET | HEAD | OPTIONS | PATCH | POST | PUT

Required: No

### OwnerId

The AWS account ID of the route owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### PathResourceTold

A mapping of Amazon API Gateway path resources to resource IDs.

Type: String to string map

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

Value Length Constraints: Fixed length of 10.

Value Pattern: `^[a-z0-9]{10}$`

Required: No

### RouteId

The unique identifier of the route.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^rte-[0-9A-Za-z]{10}$`

Required: No

### RouteType

The route type of the route.

Type: String

Valid Values: DEFAULT | URI\_PATH

Required: No

### ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^svc-[0-9A-Za-z]{10}$`

Required: No

### SourcePath

This is the path that Refactor Spaces uses to match traffic. Paths must start with / and are relative to the base of the application. To use path parameters in the source path, add a variable in curly braces. For example, the resource path {user} represents a path parameter called 'user'.

Type: String

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

Pattern: `^(/([a-zA-Z0-9._:~]|\\{[a-zA-Z0-9._:~]+\\}))+$`

Required: No

### State

The current state of the route.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED | UPDATING | INACTIVE

Required: No

## Tags

The tags assigned to the route.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

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](#)

# ServiceSummary

A summary for the service as a response to `ListServices`.

## Contents

### ApplicationId

The unique identifier of the application.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^app-[0-9A-Za-z]{10}$`

Required: No

### Arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws:refactor-spaces:[a-zA-Z0-9\-\_]+:\w{12}:[a-zA-Z_0-9+=,.\@\_/-_]+/$`

Required: No

### CreatedByAccountId

The AWS account ID of the service creator.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### CreatedTime

A timestamp that indicates when the service is created.

Type: Timestamp

Required: No

### Description

A description of the service.

Type: String

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

Pattern: `^[a-zA-Z0-9-_\s\.\!\*\#\@\']+$`

Required: No

### EndpointType

The endpoint type of the service.

Type: String

Valid Values: LAMBDA | URL

Required: No

### EnvironmentId

The unique identifier of the environment.

Type: String

Length Constraints: Fixed length of 14.

Pattern: `^env-[0-9A-Za-z]{10}$`

Required: No

### Error

Any error associated with the service resource.

Type: [ErrorResponse](#) object

Required: No

## LambdaEndpoint

A summary of the configuration for the AWS Lambda endpoint type.

Type: [LambdaEndpointSummary](#) object

Required: No

## LastUpdatedTime

A timestamp that indicates when the service was last updated.

Type: Timestamp

Required: No

## Name

The name of the service.

Type: String

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

Pattern: `^(?!svc-)[a-zA-Z0-9]+[a-zA-Z0-9-_ ]+$`

Required: No

## OwnerAccountId

The AWS account ID of the service owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

## ServiceId

The unique identifier of the service.

Type: String

Length Constraints: Fixed length of 14.



Pattern: `^svc-[0-9A-Za-z]{10}$`

Required: No

### State

The current state of the service.

Type: String

Valid Values: CREATING | ACTIVE | DELETING | FAILED

Required: No

### Tags

The tags assigned to the service.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `^(?!aws:).+`

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

Required: No

### UrlEndpoint

The summary of the configuration for the URL endpoint type.

Type: [UrlEndpointSummary](#) object

Required: No

### VpcId

The ID of the virtual private cloud (VPC).

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^vpc-[-a-f0-9]{8}([-a-f0-9]{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](#)

# UriPathRouteInput

The configuration for the URI path route type.

## Contents

### ActivationState

If set to `ACTIVE`, traffic is forwarded to this route's service after the route is created.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

Required: Yes

### SourcePath

This is the path that Refactor Spaces uses to match traffic. Paths must start with `/` and are relative to the base of the application. To use path parameters in the source path, add a variable in curly braces. For example, the resource path `{user}` represents a path parameter called 'user'.

Type: String

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

Pattern: `^(/([a-zA-Z0-9._:-]+|\{[a-zA-Z0-9._:-]+\}))+$`

Required: Yes

### AppendSourcePath

If set to `true`, this option appends the source path to the service URL endpoint.

Type: Boolean

Required: No

### IncludeChildPaths

Indicates whether to match all subpaths of the given source path. If this value is `false`, requests must match the source path exactly before they are forwarded to this route's service.

Type: Boolean

Required: No

## Methods

A list of HTTP methods to match. An empty list matches all values. If a method is present, only HTTP requests using that method are forwarded to this route's service.

Type: Array of strings

Valid Values: DELETE | GET | HEAD | OPTIONS | PATCH | POST | PUT

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](#)

# UrlEndpointConfig

The configuration for the URL endpoint type.

## Contents

### HealthUrl

The health check URL of the URL endpoint type.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_|\!:\,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|\!:\,.;]*$`

Required: No

### Url

The HTTP URL endpoint.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_|\!:\,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|\!:\,.;]*$`

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](#)

# UrlEndpointInput

The configuration for the URL endpoint type.

## Contents

### Url

The URL to route traffic to. The URL must be an [rfc3986-formatted URL](#). If the host is a domain name, the name must be resolvable over the public internet. If the scheme is `https`, the top level domain of the host must be listed in the [IANA root zone database](#).

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_|\!:\,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|\!:\,.;]*$`

Required: Yes

### HealthUrl

The health check URL of the URL endpoint type. If the URL is a public endpoint, the `HealthUrl` must also be a public endpoint. If the URL is a private endpoint inside a virtual private cloud (VPC), the health URL must also be a private endpoint, and the host must be the same as the URL.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_|\!:\,.;]*[-a-zA-Z0-9+\x38@#/%=\~_|\!:\,.;]*$`

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](#)

# UrlEndpointSummary

The summary of the configuration for the URL endpoint type.

## Contents

### HealthUrl

The health check URL of the URL endpoint type. If the URL is a public endpoint, the `HealthUrl` must also be a public endpoint. If the URL is a private endpoint inside a virtual private cloud (VPC), the health URL must also be a private endpoint, and the host must be the same as the URL.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_!|:,.;]*[-a-zA-Z0-9+\x38@#/%=\~_||]$`

Required: No

### Url

The URL to route traffic to. The URL must be an [rfc3986-formatted URL](#). If the host is a domain name, the name must be resolvable over the public internet. If the scheme is `https`, the top level domain of the host must be listed in the [IANA root zone database](#).

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+\x38@#/%?=\~_!|:,.;]*[-a-zA-Z0-9+\x38@#/%=\~_||]$`

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: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400