



API Reference

# AWS CodeConnections



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# AWS CodeConnections: API Reference

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# Welcome

This AWS CodeConnections API Reference provides descriptions and usage examples of the operations and data types for the AWS CodeConnections API. You can use the connections API to work with connections and installations.

*Connections* are configurations that you use to connect AWS resources to external code repositories. Each connection is a resource that can be given to services such as CodePipeline to connect to a third-party repository such as Bitbucket. For example, you can add the connection in CodePipeline so that it triggers your pipeline when a code change is made to your third-party code repository. Each connection is named and associated with a unique ARN that is used to reference the connection.

When you create a connection, the console initiates a third-party connection handshake. *Installations* are the apps that are used to conduct this handshake. For example, the installation for the Bitbucket provider type is the Bitbucket app. When you create a connection, you can choose an existing installation or create one.

When you want to create a connection to an installed provider type such as GitHub Enterprise Server, you create a *host* for your connections.

You can work with connections by calling:

- [CreateConnection](#), which creates a uniquely named connection that can be referenced by services such as CodePipeline.
- [DeleteConnection](#), which deletes the specified connection.
- [GetConnection](#), which returns information about the connection, including the connection status.
- [ListConnections](#), which lists the connections associated with your account.

You can work with hosts by calling:

- [CreateHost](#), which creates a host that represents the infrastructure where your provider is installed.
- [DeleteHost](#), which deletes the specified host.
- [GetHost](#), which returns information about the host, including the setup status.

- [ListHosts](#), which lists the hosts associated with your account.

You can work with tags in AWS CodeConnections by calling the following:

- [ListTagsForResource](#), which gets information about AWS tags for a specified Amazon Resource Name (ARN) in AWS CodeConnections.
- [TagResource](#), which adds or updates tags for a resource in AWS CodeConnections.
- [UntagResource](#), which removes tags for a resource in AWS CodeConnections.

For information about how to use AWS CodeConnections, see the [Developer Tools User Guide](#).

This document was last published on July 1, 2024.

# Actions

The following actions are supported:

- [CreateConnection](#)
- [CreateHost](#)
- [CreateRepositoryLink](#)
- [CreateSyncConfiguration](#)
- [DeleteConnection](#)
- [DeleteHost](#)
- [DeleteRepositoryLink](#)
- [DeleteSyncConfiguration](#)
- [GetConnection](#)
- [GetHost](#)
- [GetRepositoryLink](#)
- [GetRepositorySyncStatus](#)
- [GetResourceSyncStatus](#)
- [GetSyncBlockerSummary](#)
- [GetSyncConfiguration](#)
- [ListConnections](#)
- [ListHosts](#)
- [ListRepositoryLinks](#)
- [ListRepositorySyncDefinitions](#)
- [ListSyncConfigurations](#)
- [ListTagsForResource](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateHost](#)
- [UpdateRepositoryLink](#)
- [UpdateSyncBlocker](#)
- [UpdateSyncConfiguration](#)



# CreateConnection

Creates a connection that can then be given to other AWS services like CodePipeline so that it can access third-party code repositories. The connection is in pending status until the third-party connection handshake is completed from the console.

## Request Syntax

```
{
  "ConnectionName": "string",
  "HostArn": "string",
  "ProviderType": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ConnectionName

The name of the connection to be created.

Type: String

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

Pattern: `[\s\S]*`

Required: Yes

### HostArn

The Amazon Resource Name (ARN) of the host associated with the connection to be created.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[0-9]{12}:host\./.+`

Required: No

### ProviderType

The name of the external provider where your third-party code repository is configured.

Type: String

Valid Values: `Bitbucket` | `GitHub` | `GitHubEnterpriseServer` | `GitLab` | `GitLabSelfManaged`

Required: No

### Tags

The key-value pair to use when tagging the resource.

Type: Array of [Tag](#) objects

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

Required: No

## Response Syntax

```
{
  "ConnectionArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "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.

## ConnectionArn

The Amazon Resource Name (ARN) of the connection to be created. The ARN is used as the connection reference when the connection is shared between AWS services.

### **Note**

The ARN is never reused if the connection is deleted.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:~+:~+:[0-9]{12}:.+`

## Tags

Specifies the tags applied to the resource.

Type: Array of [Tag](#) objects

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

## **Errors**

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

### **LimitExceededException**

Exceeded the maximum limit for connections.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ResourceUnavailableException**

Resource not found. Verify the ARN for the host resource and try again.



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](#)

# CreateHost

Creates a resource that represents the infrastructure where a third-party provider is installed. The host is used when you create connections to an installed third-party provider type, such as GitHub Enterprise Server. You create one host for all connections to that provider.

## Note

A host created through the CLI or the SDK is in `PENDING` status by default. You can make its status `AVAILABLE` by setting up the host in the console.

## Request Syntax

```
{
  "Name": "string",
  "ProviderEndpoint": "string",
  "ProviderType": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "VpcConfiguration": {
    "SecurityGroupIds": [ "string" ],
    "SubnetIds": [ "string" ],
    "TlsCertificate": "string",
    "VpcId": "string"
  }
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Name

The name of the host to be created.

Type: String

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

Pattern: .\*

Required: Yes

### ProviderEndpoint

The endpoint of the infrastructure to be represented by the host after it is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: .\*

Required: Yes

### ProviderType

The name of the installed provider to be associated with your connection. The host resource represents the infrastructure where your provider type is installed. The valid provider type is GitHub Enterprise Server.

Type: String

Valid Values: Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged

Required: Yes

### Tags

Tags for the host to be created.

Type: Array of [Tag](#) objects

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

Required: No

### VpcConfiguration

The VPC configuration to be provisioned for the host. A VPC must be configured and the infrastructure to be represented by the host must already be connected to the VPC.

Type: [VpcConfiguration](#) object

Required: No

## Response Syntax

```
{
  "HostArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "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.

### [HostArn](#)

The Amazon Resource Name (ARN) of the host to be created.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[0-9]{12}:host\./.+`

### [Tags](#)

Tags for the created host.

Type: Array of [Tag](#) objects

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

## Errors

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

### LimitExceededException

Exceeded the maximum limit for connections.

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](#)

# CreateRepositoryLink

Creates a link to a specified external Git repository. A repository link allows Git sync to monitor and sync changes to files in a specified Git repository.

## Request Syntax

```
{
  "ConnectionArn": "string",
  "EncryptionKeyArn": "string",
  "OwnerId": "string",
  "RepositoryName": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ConnectionArn

The Amazon Resource Name (ARN) of the connection to be associated with the repository link.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:.\+:.\+:[0-9]{12}:.+`

Required: Yes

### EncryptionKeyArn

The Amazon Resource Name (ARN) encryption key for the repository to be associated with the repository link.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:kms:[a-z\-\0-9]+:\d{12}:key/[a-zA-Z0-9\-\-]+`

Required: No

### OwnerId

The owner ID for the repository associated with a specific sync configuration, such as the owner ID in GitHub.

Type: String

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

Pattern: `^\.*$`

Required: Yes

### RepositoryName

The name of the repository to be associated with the repository link.

Type: String

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

Pattern: `^\.*$`

Required: Yes

### Tags

The tags for the repository to be associated with the repository link.

Type: Array of [Tag](#) objects

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

Required: No

## Response Syntax

```
{
```

```
"RepositoryLinkInfo": {
  "ConnectionArn": "string",
  "EncryptionKeyArn": "string",
  "OwnerId": "string",
  "ProviderType": "string",
  "RepositoryLinkArn": "string",
  "RepositoryLinkId": "string",
  "RepositoryName": "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.

### [RepositoryLinkInfo](#)

The returned information about the created repository link.

Type: [RepositoryLinkInfo](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.



HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **LimitExceededException**

Exceeded the maximum limit for connections.

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

Unable to create resource. Resource already exists.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)

# CreateSyncConfiguration

Creates a sync configuration which allows AWS to sync content from a Git repository to update a specified AWS resource. Parameters for the sync configuration are determined by the sync type.

## Request Syntax

```
{
  "Branch": "string",
  "ConfigFile": "string",
  "PublishDeploymentStatus": "string",
  "RepositoryLinkId": "string",
  "ResourceName": "string",
  "RoleArn": "string",
  "SyncType": "string",
  "TriggerResourceUpdateOn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Branch

The branch in the repository from which changes will be synced.

Type: String

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

Pattern: `^\.*$`

Required: Yes

### ConfigFile

The file name of the configuration file that manages syncing between the connection and the repository. This configuration file is stored in the repository.

Type: String

Required: Yes

### PublishDeploymentStatus

Whether to enable or disable publishing of deployment status to source providers.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

### RepositoryLinkId

The ID of the repository link created for the connection. A repository link allows Git sync to monitor and sync changes to files in a specified Git repository.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

### ResourceName

The name of the AWS resource (for example, a CloudFormation stack in the case of CFN\_STACK\_SYNC) that will be synchronized from the linked repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\-]*$`

Required: Yes

### RoleArn

The ARN of the IAM role that grants permission for AWS to use Git sync to update a given AWS resource on your behalf.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:iam::\d{12}:role/[a-zA-Z_0-9+=,.\@-\_/\w]+`

Required: Yes

### SyncType

The type of sync configuration.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

### TriggerResourceUpdateOn

When to trigger Git sync to begin the stack update.

Type: String

Valid Values: ANY\_CHANGE | FILE\_CHANGE

Required: No

## Response Syntax

```
{
  "SyncConfiguration": {
    "Branch": "string",
    "ConfigFile": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "PublishDeploymentStatus": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "string",
    "ResourceName": "string",
    "RoleArn": "string",
    "SyncType": "string",
    "TriggerResourceUpdateOn": "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.

## SyncConfiguration

The created sync configuration for the connection. A sync configuration allows AWS to sync content from a Git repository to update a specified AWS resource.

Type: [SyncConfiguration](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerError**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **LimitExceededException**

Exceeded the maximum limit for connections.

HTTP Status Code: 400

## ResourceAlreadyExistsException

Unable to create resource. Resource already exists.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

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](#)

# DeleteConnection

The connection to be deleted.

## Request Syntax

```
{  
  "ConnectionArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [ConnectionArn](#)

The Amazon Resource Name (ARN) of the connection to be deleted.

#### Note

The ARN is never reused if the connection is deleted.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:.:.:.[0-9]{12}:.+`

Required: Yes

## 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](#).

## ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

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](#)



# DeleteHost

The host to be deleted. Before you delete a host, all connections associated to the host must be deleted.

## Note

A host cannot be deleted if it is in the VPC\_CONFIG\_INITIALIZING or VPC\_CONFIG\_DELETING state.

## Request Syntax

```
{
  "HostArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HostArn

The Amazon Resource Name (ARN) of the host to be deleted.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[0-9]{12}:host\./.+`

Required: Yes

## 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](#).

### ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### ResourceUnavailableException

Resource not found. Verify the ARN for the host resource and try again.

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](#)

# DeleteRepositoryLink

Deletes the association between your connection and a specified external Git repository.

## Request Syntax

```
{  
  "RepositoryLinkId": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### RepositoryLinkId

The ID of the repository link to be deleted.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

## **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

## **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

## **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

## **SyncConfigurationStillExistsException**

Unable to continue. The sync blocker still exists.

HTTP Status Code: 400

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

## **UnsupportedProviderTypeException**

The specified provider type is not supported for connections.

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](#)

# DeleteSyncConfiguration

Deletes the sync configuration for a specified repository and connection.

## Request Syntax

```
{
  "ResourceName": "string",
  "SyncType": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceName

The name of the AWS resource associated with the sync configuration to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### SyncType

The type of sync configuration to be deleted.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerError**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **LimitExceededException**

Exceeded the maximum limit for connections.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)



# GetConnection

Returns the connection ARN and details such as status, owner, and provider type.

## Request Syntax

```
{  
  "ConnectionArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ConnectionArn

The Amazon Resource Name (ARN) of a connection.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:~+:~+:[0-9]{12}:.+`

Required: Yes

## Response Syntax

```
{  
  "Connection": {  
    "ConnectionArn": "string",  
    "ConnectionName": "string",  
    "ConnectionStatus": "string",  
    "HostArn": "string",  
    "OwnerAccountId": "string",  
    "ProviderType": "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.

### Connection

The connection details, such as status, owner, and provider type.

Type: [Connection](#) object

## Errors

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

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ResourceUnavailableException**

Resource not found. Verify the ARN for the host resource and try again.

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](#)

# GetHost

Returns the host ARN and details such as status, provider type, endpoint, and, if applicable, the VPC configuration.

## Request Syntax

```
{
  "HostArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HostArn

The Amazon Resource Name (ARN) of the requested host.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[0-9]{12}:host\./.+`

Required: Yes

## Response Syntax

```
{
  "Name": "string",
  "ProviderEndpoint": "string",
  "ProviderType": "string",
  "Status": "string",
  "VpcConfiguration": {
    "SecurityGroupIds": [ "string" ],
    "SubnetIds": [ "string" ],
  }
}
```

```
    "TlsCertificate": "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.

### Name

The name of the requested host.

Type: String

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

Pattern: .\*

### ProviderEndpoint

The endpoint of the infrastructure represented by the requested host.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: .\*

### ProviderType

The provider type of the requested host, such as GitHub Enterprise Server.

Type: String

Valid Values: Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged

### Status

The status of the requested host.

Type: String

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

Pattern: .\*

## VpcConfiguration

The VPC configuration of the requested host.

Type: [VpcConfiguration](#) object

## Errors

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

### ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### ResourceUnavailableException

Resource not found. Verify the ARN for the host resource and try again.

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](#)

# GetRepositoryLink

Returns details about a repository link. A repository link allows Git sync to monitor and sync changes from files in a specified Git repository.

## Request Syntax

```
{
  "RepositoryLinkId": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### RepositoryLinkId

The ID of the repository link to get.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## Response Syntax

```
{
  "RepositoryLinkInfo": {
    "ConnectionArn": "string",
    "EncryptionKeyArn": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "RepositoryLinkArn": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "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.

### [RepositoryLinkInfo](#)

The information returned for a specified repository link.

Type: [RepositoryLinkInfo](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

## ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

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](#)

# GetRepositorySyncStatus

Returns details about the sync status for a repository. A repository sync uses Git sync to push and pull changes from your remote repository.

## Request Syntax

```
{
  "Branch": "string",
  "RepositoryLinkId": "string",
  "SyncType": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Branch

The branch of the repository link for the requested repository sync status.

Type: String

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

Pattern: `^.*$`

Required: Yes

### RepositoryLinkId

The repository link ID for the requested repository sync status.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## SyncType

The sync type of the requested sync status.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
  "LatestSync": {
    "Events": [
      {
        "Event": "string",
        "ExternalId": "string",
        "Time": number,
        "Type": "string"
      }
    ],
    "StartedAt": number,
    "Status": "string"
  }
}
```

## Response Elements

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

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

### LatestSync

The status of the latest sync returned for a specified repository and branch.

Type: [RepositorySyncAttempt](#) object

## Errors

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

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## InternalServerErrorException

Received an internal server exception. Try again later.

HTTP Status Code: 400

## InvalidInputException

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

## ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

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](#)

# GetResourceSyncStatus

Returns the status of the sync with the Git repository for a specific AWS resource.

## Request Syntax

```
{
  "ResourceName": "string",
  "SyncType": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceName

The name of the AWS resource for the sync status with the Git repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### SyncType

The sync type for the sync status with the Git repository.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
  "DesiredState": {
```

```
"Branch": "string",
"Directory": "string",
"OwnerId": "string",
"ProviderType": "string",
"RepositoryName": "string",
"Sha": "string"
},
"LatestSuccessfulSync": {
  "Events": [
    {
      "Event": "string",
      "ExternalId": "string",
      "Time": number,
      "Type": "string"
    }
  ],
  "InitialRevision": {
    "Branch": "string",
    "Directory": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "RepositoryName": "string",
    "Sha": "string"
  },
  "StartedAt": number,
  "Status": "string",
  "Target": "string",
  "TargetRevision": {
    "Branch": "string",
    "Directory": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "RepositoryName": "string",
    "Sha": "string"
  }
},
"LatestSync": {
  "Events": [
    {
      "Event": "string",
      "ExternalId": "string",
      "Time": number,
      "Type": "string"
    }
  ]
}
```



```
    ],
    "InitialRevision": {
      "Branch": "string",
      "Directory": "string",
      "OwnerId": "string",
      "ProviderType": "string",
      "RepositoryName": "string",
      "Sha": "string"
    },
    "StartedAt": number,
    "Status": "string",
    "Target": "string",
    "TargetRevision": {
      "Branch": "string",
      "Directory": "string",
      "OwnerId": "string",
      "ProviderType": "string",
      "RepositoryName": "string",
      "Sha": "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.

### DesiredState

The desired state of the AWS resource for the sync status with the Git repository.

Type: [Revision](#) object

### LatestSuccessfulSync

The latest successful sync for the sync status with the Git repository.

Type: [ResourceSyncAttempt](#) object

### LatestSync

The latest sync for the sync status with the Git repository, whether successful or not.

Type: [ResourceSyncAttempt](#) object

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### InternalServerErrorException

Received an internal server exception. Try again later.

HTTP Status Code: 400

### InvalidInputException

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### ThrottlingException

The request was denied due to request throttling.

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](#)

# GetSyncBlockerSummary

Returns a list of the most recent sync blockers.

## Request Syntax

```
{  
  "ResourceName": "string",  
  "SyncType": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceName

The name of the AWS resource currently blocked from automatically being synced from a Git repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### SyncType

The sync type for the sync blocker summary.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
```

```
"SyncBlockerSummary": {
  "LatestBlockers": [
    {
      "Contexts": [
        {
          "Key": "string",
          "Value": "string"
        }
      ],
      "CreatedAt": number,
      "CreatedReason": "string",
      "Id": "string",
      "ResolvedAt": number,
      "ResolvedReason": "string",
      "Status": "string",
      "Type": "string"
    }
  ],
  "ParentResourceName": "string",
  "ResourceName": "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.

### SyncBlockerSummary

The list of sync blockers for a specified resource.

Type: [SyncBlockerSummary](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)

# GetSyncConfiguration

Returns details about a sync configuration, including the sync type and resource name. A sync configuration allows the configuration to sync (push and pull) changes from the remote repository for a specified branch in a Git repository.

## Request Syntax

```
{  
  "ResourceName": "string",  
  "SyncType": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceName

The name of the AWS resource for the sync configuration for which you want to retrieve information.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### SyncType

The sync type for the sync configuration for which you want to retrieve information.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
  "SyncConfiguration": {
    "Branch": "string",
    "ConfigFile": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "PublishDeploymentStatus": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "string",
    "ResourceName": "string",
    "RoleArn": "string",
    "SyncType": "string",
    "TriggerResourceUpdateOn": "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.

### SyncConfiguration

The details about the sync configuration for which you want to retrieve information.

Type: [SyncConfiguration](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.



HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)

# ListConnections

Lists the connections associated with your account.

## Request Syntax

```
{  
  "HostArnFilter": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "ProviderTypeFilter": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HostArnFilter

Filters the list of connections to those associated with a specified host.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[\0-9]{12}:host\./.+`

Required: No

### MaxResults

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

## NextToken

The token that was returned from the previous `ListConnections` call, which can be used to return the next set of connections in the list.

Type: String

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

Pattern: `^\.*$`

Required: No

## ProviderTypeFilter

Filters the list of connections to those associated with a specified provider, such as Bitbucket.

Type: String

Valid Values: `Bitbucket` | `GitHub` | `GitHubEnterpriseServer` | `GitLab` | `GitLabSelfManaged`

Required: No

## Response Syntax

```
{
  "Connections": [
    {
      "ConnectionArn": "string",
      "ConnectionName": "string",
      "ConnectionStatus": "string",
      "HostArn": "string",
      "OwnerAccountId": "string",
      "ProviderType": "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.

## Connections

A list of connections and the details for each connection, such as status, owner, and provider type.

Type: Array of [Connection](#) objects

## NextToken

A token that can be used in the next `ListConnections` call. To view all items in the list, continue to call this operation with each subsequent token until no more `nextToken` values are returned.

Type: String

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

Pattern: `^\.*$`

## Errors

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

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

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](#)

# ListHosts

Lists the hosts associated with your account.

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### MaxResults

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

### NextToken

The token that was returned from the previous ListHosts call, which can be used to return the next set of hosts in the list.

Type: String

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

Pattern: ^.\*\$

Required: No

## Response Syntax

```
{
  "Hosts": [
    {
      "HostArn": "string",
      "Name": "string",
      "ProviderEndpoint": "string",
      "ProviderType": "string",
      "Status": "string",
      "StatusMessage": "string",
      "VpcConfiguration": {
        "SecurityGroupIds": [ "string" ],
        "SubnetIds": [ "string" ],
        "TlsCertificate": "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.

### Hosts

A list of hosts and the details for each host, such as status, endpoint, and provider type.

Type: Array of [Host](#) objects

### NextToken

A token that can be used in the next `ListHosts` call. To view all items in the list, continue to call this operation with each subsequent token until no more `nextToken` values are returned.

Type: String

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

Pattern: `^.*$`

## Errors

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

## See Also

For more information about using this API in one of the language-specific 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](#)



# ListRepositoryLinks

Lists the repository links created for connections in your account.

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### MaxResults

A non-zero, non-negative integer used to limit the number of returned results.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

### NextToken

An enumeration token that, when provided in a request, returns the next batch of the results.

Type: String

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

Pattern: `^.*$`

Required: No

## Response Syntax

```
{
```

```
"NextToken": "string",
"RepositoryLinks": [
  {
    "ConnectionArn": "string",
    "EncryptionKeyArn": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "RepositoryLinkArn": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "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

An enumeration token that allows the operation to batch the results of the operation.

Type: String

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

Pattern: ^.\*\$

### RepositoryLinks

Lists the repository links called by the list repository links operation.

Type: Array of [RepositoryLinkInfo](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)

# ListRepositorySyncDefinitions

Lists the repository sync definitions for repository links in your account.

## Request Syntax

```
{  
  "RepositoryLinkId": "string",  
  "SyncType": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### RepositoryLinkId

The ID of the repository link for the sync definition for which you want to retrieve information.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

### SyncType

The sync type of the repository link for the the sync definition for which you want to retrieve information.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
```

```
"NextToken": "string",
"RepositorySyncDefinitions": [
  {
    "Branch": "string",
    "Directory": "string",
    "Parent": "string",
    "Target": "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

An enumeration token that, when provided in a request, returns the next batch of the results.

Type: String

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

Pattern: `^\.*$`

### RepositorySyncDefinitions

The list of repository sync definitions returned by the request. A

`RepositorySyncDefinition` is a mapping from a repository branch to all the AWS resources that are being synced from that branch.

Type: Array of [RepositorySyncDefinition](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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](#)

# ListSyncConfigurations

Returns a list of sync configurations for a specified repository.

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "RepositoryLinkId": "string",  
  "SyncType": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### MaxResults

A non-zero, non-negative integer used to limit the number of returned results.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

### NextToken

An enumeration token that allows the operation to batch the results of the operation.

Type: String

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

Pattern: `^.*$`

Required: No

### RepositoryLinkId

The ID of the repository link for the requested list of sync configurations.



Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

### SyncType

The sync type for the requested list of sync configurations.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
  "NextToken": "string",
  "SyncConfigurations": [
    {
      "Branch": "string",
      "ConfigFile": "string",
      "OwnerId": "string",
      "ProviderType": "string",
      "PublishDeploymentStatus": "string",
      "RepositoryLinkId": "string",
      "RepositoryName": "string",
      "ResourceName": "string",
      "RoleArn": "string",
      "SyncType": "string",
      "TriggerResourceUpdateOn": "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

An enumeration token that allows the operation to batch the next results of the operation.

Type: String

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

Pattern: `^\.*$`

## SyncConfigurations

The list of repository sync definitions returned by the request.

Type: Array of [SyncConfiguration](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

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

Gets the set of key-value pairs (metadata) that are used to manage the resource.

## Request Syntax

```
{
  "ResourceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceArn

The Amazon Resource Name (ARN) of the resource for which you want to get information about tags, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:~+:~+:[0-9]{12}:.+`

Required: Yes

## Response Syntax

```
{
  "Tags": [
    {
      "Key": "string",
      "Value": "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

A list of tag key and value pairs associated with the specified resource.

Type: Array of [Tag](#) objects

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

## Errors

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

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

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

Adds to or modifies the tags of the given resource. Tags are metadata that can be used to manage a resource.

## Request Syntax

```
{
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceArn

The Amazon Resource Name (ARN) of the resource to which you want to add or update tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:.+:.+:[0-9]{12}:.+`

Required: Yes

### Tags

The tags you want to modify or add to the resource.

Type: Array of [Tag](#) objects

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

Required: Yes

## 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](#).

### LimitExceededException

Exceeded the maximum limit for connections.

HTTP Status Code: 400

### ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

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

Removes tags from an AWS resource.

## Request Syntax

```
{  
  "ResourceArn": "string",  
  "TagKeys": [ "string" ]  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceArn

The Amazon Resource Name (ARN) of the resource to remove tags from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:~+:~+:[0-9]{12}:.+`

Required: Yes

### TagKeys

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

Type: Array of strings

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

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

Pattern: `.*`

Required: Yes

## 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](#).

### ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

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](#)

# UpdateHost

Updates a specified host with the provided configurations.

## Request Syntax

```
{
  "HostArn": "string",
  "ProviderEndpoint": "string",
  "VpcConfiguration": {
    "SecurityGroupIds": [ "string" ],
    "SubnetIds": [ "string" ],
    "TlsCertificate": "string",
    "VpcId": "string"
  }
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HostArn

The Amazon Resource Name (ARN) of the host to be updated.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[\0-9]{12}:host\./.+`

Required: Yes

### ProviderEndpoint

The URL or endpoint of the host to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: .\*

Required: No

### VpcConfiguration

The VPC configuration of the host to be updated. A VPC must be configured and the infrastructure to be represented by the host must already be connected to the VPC.

Type: [VpcConfiguration](#) object

Required: No

## 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](#).

### **ConflictException**

Two conflicting operations have been made on the same resource.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ResourceUnavailableException**

Resource not found. Verify the ARN for the host resource and try again.

HTTP Status Code: 400

### **UnsupportedOperationException**

The operation is not supported. Check the connection status and try again.

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](#)

# UpdateRepositoryLink

Updates the association between your connection and a specified external Git repository. A repository link allows Git sync to monitor and sync changes to files in a specified Git repository.

## Request Syntax

```
{
  "ConnectionArn": "string",
  "EncryptionKeyArn": "string",
  "RepositoryLinkId": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ConnectionArn

The Amazon Resource Name (ARN) of the connection for the repository link to be updated. The updated connection ARN must have the same providerType (such as GitHub) as the original connection ARN for the repo link.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:.\+:\.+:[0-9]{12}:.+`

Required: No

### EncryptionKeyArn

The Amazon Resource Name (ARN) of the encryption key for the repository link to be updated.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:kms:[a-z\-\0-9]+\:\d{12}:key/[a-zA-Z0-9\-\-]+`

Required: No

### RepositoryLinkId

The ID of the repository link to be updated.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## Response Syntax

```
{
  "RepositoryLinkInfo": {
    "ConnectionArn": "string",
    "EncryptionKeyArn": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "RepositoryLinkArn": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "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.

### RepositoryLinkInfo

Information about the repository link to be updated.

Type: [RepositoryLinkInfo](#) object

## Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **ConditionalCheckFailedException**

The conditional check failed. Try again later.

HTTP Status Code: 400

## **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

## **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

## **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

## **UpdateOutOfSyncException**

The update is out of sync. Try syncing again.

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](#)

# UpdateSyncBlocker

Allows you to update the status of a sync blocker, resolving the blocker and allowing syncing to continue.

## Request Syntax

```
{
  "Id": "string",
  "ResolvedReason": "string",
  "ResourceName": "string",
  "SyncType": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Id

The ID of the sync blocker to be updated.

Type: String

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

Required: Yes

### ResolvedReason

The reason for resolving the sync blocker.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 250.

Required: Yes

### ResourceName

The name of the resource for the sync blocker to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### SyncType

The sync type of the sync blocker to be updated.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## Response Syntax

```
{
  "ParentResourceName": "string",
  "ResourceName": "string",
  "SyncBlocker": {
    "Contexts": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "CreatedAt": number,
    "CreatedReason": "string",
    "Id": "string",
    "ResolvedAt": number,
    "ResolvedReason": "string",
    "Status": "string",
    "Type": "string"
  }
}
```

## Response Elements

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

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

### ParentResourceName

The parent resource name for the sync blocker.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

### ResourceName

The resource name for the sync blocker.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

### SyncBlocker

Information about the sync blocker to be updated.

Type: [SyncBlocker](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

## InvalidInputException

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

## ResourceNotFoundException

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

## RetryLatestCommitFailedException

Retrying the latest commit failed. Try again later.

HTTP Status Code: 400

## SyncBlockerDoesNotExistException

Unable to continue. The sync blocker does not exist.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

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](#)

# UpdateSyncConfiguration

Updates the sync configuration for your connection and a specified external Git repository.

## Request Syntax

```
{
  "Branch": "string",
  "ConfigFile": "string",
  "PublishDeploymentStatus": "string",
  "RepositoryLinkId": "string",
  "ResourceName": "string",
  "RoleArn": "string",
  "SyncType": "string",
  "TriggerResourceUpdateOn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Branch

The branch for the sync configuration to be updated.

Type: String

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

Pattern:  $^{\wedge} \cdot * \$$

Required: No

### ConfigFile

The configuration file for the sync configuration to be updated.

Type: String

Required: No

## PublishDeploymentStatus

Whether to enable or disable publishing of deployment status to source providers.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## RepositoryLinkId

The ID of the repository link for the sync configuration to be updated.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: No

## ResourceName

The name of the AWS resource for the sync configuration to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

## RoleArn

The ARN of the IAM role for the sync configuration to be updated.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:iam::\d{12}:role/[a-zA-Z_0-9+=,.\@-\_/\w]+`

Required: No



## SyncType

The sync type for the sync configuration to be updated.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## TriggerResourceUpdateOn

When to trigger Git sync to begin the stack update.

Type: String

Valid Values: ANY\_CHANGE | FILE\_CHANGE

Required: No

## Response Syntax

```
{
  "SyncConfiguration": {
    "Branch": "string",
    "ConfigFile": "string",
    "OwnerId": "string",
    "ProviderType": "string",
    "PublishDeploymentStatus": "string",
    "RepositoryLinkId": "string",
    "RepositoryName": "string",
    "ResourceName": "string",
    "RoleArn": "string",
    "SyncType": "string",
    "TriggerResourceUpdateOn": "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.

## SyncConfiguration

The information returned for the sync configuration to be updated.

Type: [SyncConfiguration](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **ConcurrentModificationException**

Exception thrown as a result of concurrent modification to an application. For example, two individuals attempting to edit the same application at the same time.

HTTP Status Code: 400

### **InternalServerErrorException**

Received an internal server exception. Try again later.

HTTP Status Code: 400

### **InvalidInputException**

The input is not valid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **ResourceNotFoundException**

Resource not found. Verify the connection resource ARN and try again.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

## UpdateOutOfSyncException

The update is out of sync. Try syncing again.

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 CodeConnections 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:

- [Connection](#)
- [Host](#)
- [RepositoryLinkInfo](#)
- [RepositorySyncAttempt](#)
- [RepositorySyncDefinition](#)
- [RepositorySyncEvent](#)
- [ResourceSyncAttempt](#)
- [ResourceSyncEvent](#)
- [Revision](#)
- [SyncBlocker](#)
- [SyncBlockerContext](#)
- [SyncBlockerSummary](#)
- [SyncConfiguration](#)
- [Tag](#)
- [VpcConfiguration](#)

# Connection


A resource that is used to connect third-party source providers with services like CodePipeline.

Note: A connection created through AWS CloudFormation, the CLI, or the SDK is in `PENDING` status by default. You can make its status `AVAILABLE` by updating the connection in the console.

## Contents

### ConnectionArn

The Amazon Resource Name (ARN) of the connection. The ARN is used as the connection reference when the connection is shared between AWS services.

 **Note**

The ARN is never reused if the connection is deleted.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:.+:.+:[0-9]{12}:.+`

Required: No

### ConnectionName

The name of the connection. Connection names must be unique in an AWS account.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### ConnectionStatus

The current status of the connection.

Type: String

Valid Values: PENDING | AVAILABLE | ERROR

Required: No

### HostArn

The Amazon Resource Name (ARN) of the host associated with the connection.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[\0-9]{12}:host\./.+`

Required: No

### OwnerAccountId

The identifier of the external provider where your third-party code repository is configured. For Bitbucket, this is the account ID of the owner of the Bitbucket repository.

Type: String

Length Constraints: Fixed length of 12.

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

Required: No

### ProviderType

The name of the external provider where your third-party code repository is configured.

Type: String

Valid Values: Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged

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](#)

# Host

A resource that represents the infrastructure where a third-party provider is installed. The host is used when you create connections to an installed third-party provider type, such as GitHub Enterprise Server. You create one host for all connections to that provider.

## Note

A host created through the CLI or the SDK is in `PENDING` status by default. You can make its status `AVAILABLE` by setting up the host in the console.

## Contents

### HostArn

The Amazon Resource Name (ARN) of the host.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:(codestar-connections|codeconnections):.+:[0-9]{12}:host\./.+`

Required: No

### Name

The name of the host.

Type: String

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

Pattern: `.*`

Required: No

### ProviderEndpoint

The endpoint of the infrastructure where your provider type is installed.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: .\*

Required: No

### **ProviderType**

The name of the installed provider to be associated with your connection. The host resource represents the infrastructure where your provider type is installed. The valid provider type is GitHub Enterprise Server.

Type: String

Valid Values: Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged

Required: No

### **Status**

The status of the host, such as PENDING, AVAILABLE, VPC\_CONFIG\_DELETING, VPC\_CONFIG\_INITIALIZING, and VPC\_CONFIG\_FAILED\_INITIALIZATION.

Type: String

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

Pattern: .\*

Required: No

### **StatusMessage**

The status description for the host.

Type: String

Required: No

### **VpcConfiguration**

The VPC configuration provisioned for the host.

Type: [VpcConfiguration](#) object

Required: No

## See Also

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

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

# RepositoryLinkInfo

Information about the repository link resource, such as the repository link ARN, the associated connection ARN, encryption key ARN, and owner ID.

## Contents

### ConnectionArn

The Amazon Resource Name (ARN) of the connection associated with the repository link.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:~+:~+:[0-9]{12}:.+`

Required: Yes

### OwnerId

The owner ID for the repository associated with the repository link, such as the owner ID in GitHub.

Type: String

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

Pattern: `^\.*$`

Required: Yes

### ProviderType

The provider type for the connection, such as GitHub, associated with the repository link.

Type: String

Valid Values: `Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged`

Required: Yes

## RepositoryLinkArn

The Amazon Resource Name (ARN) of the repository link.

Type: String

Pattern: `^arn:aws(?:-[a-z]+)*:(codestar-connections|codeconnections):[a-z\-\0-9]+\:\d{12}:repository-link\/[a-zA-Z0-9\-\:\/]+`

Required: Yes

## RepositoryLinkId

The ID of the repository link.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## RepositoryName

The name of the repository associated with the repository link.

Type: String

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

Pattern: `^\.*$`

Required: Yes

## EncryptionKeyArn

The Amazon Resource Name (ARN) of the encryption key for the repository associated with the repository link.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:kms:[a-z\-\0-9]+\:\d{12}:key/[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](#)

# RepositorySyncAttempt

Information about a repository sync attempt for a repository with a sync configuration.

## Contents

### Events

The events associated with a specific sync attempt.

Type: Array of [RepositorySyncEvent](#) objects

Required: Yes

### StartedAt

The start time of a specific sync attempt.

Type: Timestamp

Required: Yes

### Status

The status of a specific sync attempt. The following are valid statuses:

- INITIATED - A repository sync attempt has been created and will begin soon.
- IN\_PROGRESS - A repository sync attempt has started and work is being done to reconcile the branch.
- SUCCEEDED - The repository sync attempt has completed successfully.
- FAILED - The repository sync attempt has failed.
- QUEUED - The repository sync attempt didn't execute and was queued.

Type: String

Valid Values: FAILED | INITIATED | IN\_PROGRESS | SUCCEEDED | QUEUED

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](#)

# RepositorySyncDefinition

The definition for a repository with a sync configuration.

## Contents

### Branch

The branch specified for a repository sync definition.

Type: String

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

Pattern: `^.*$`

Required: Yes

### Directory

The configuration file for a repository sync definition. This value comes from creating or updating the `config-file` field of a `sync-configuration`.

Type: String

Required: Yes

### Parent

The parent resource specified for a repository sync definition.

Type: String

Required: Yes

### Target

The target resource specified for a repository sync definition. In some cases, such as `CFN_STACK_SYNC`, the parent and target resource are the same.

Type: String

Required: Yes



## See Also

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

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

# RepositorySyncEvent

Information about a repository sync event.

## Contents

### Event

A description of a repository sync event.

Type: String

Required: Yes

### Time

The time that a repository sync event occurred.

Type: Timestamp

Required: Yes

### Type

The event type for a repository sync event.

Type: String

Required: Yes

### ExternalId

The ID for a repository sync event.

Type: String

Required: No

## See Also

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

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

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

# ResourceSyncAttempt

Information about a resource sync attempt.

## Contents

### Events

The events related to a resource sync attempt.

Type: Array of [ResourceSyncEvent](#) objects

Required: Yes

### InitialRevision

The current state of the resource as defined in the resource's config-file in the linked repository.

Type: [Revision](#) object

Required: Yes

### StartedAt

The start time for a resource sync attempt.

Type: Timestamp

Required: Yes

### Status

The status for a resource sync attempt. The follow are valid statuses:

- SYNC-INITIATED - A resource sync attempt has been created and will begin soon.
- SYNCING - Syncing has started and work is being done to reconcile state.
- SYNCED - Syncing has completed successfully.
- SYNC\_FAILED - A resource sync attempt has failed.

Type: String

Valid Values: FAILED | INITIATED | IN\_PROGRESS | SUCCEEDED

Required: Yes

## Target

The name of the AWS resource that is attempted to be synchronized.

Type: String

Required: Yes

## TargetRevision

The desired state of the resource as defined in the resource's `config-file` in the linked repository. Git sync attempts to update the resource to this state.

Type: [Revision](#) object

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](#)

# ResourceSyncEvent

Information about a resource sync event for the resource associated with a sync configuration.

## Contents

### Event

The event for a resource sync event.

Type: String

Required: Yes

### Time

The time that a resource sync event occurred.

Type: Timestamp

Required: Yes

### Type

The type of resource sync event.

Type: String

Required: Yes

### ExternalId

The ID for a resource sync event.

Type: String

Required: No

## See Also

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

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

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

# Revision

Information about the revision for a specific sync event, such as the branch, owner ID, and name of the repository.

## Contents

### Branch

The branch name for a specific revision.

Type: String

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

Pattern: `^.*$`

Required: Yes

### Directory

The directory, if any, for a specific revision.

Type: String

Required: Yes

### OwnerId

The owner ID for a specific revision, such as the GitHub owner ID for a GitHub repository.

Type: String

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

Pattern: `^.*$`

Required: Yes

### ProviderType

The provider type for a revision, such as GitHub.

Type: String



Valid Values: Bitbucket | GitHub | GitHubEnterpriseServer | GitLab | GitLabSelfManaged

Required: Yes

### RepositoryName

The repository name for a specific revision.

Type: String

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

Pattern: ^.\*\$

Required: Yes

### Sha

The SHA, such as the commit ID, for a specific revision.

Type: String

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

Required: Yes

## See Also

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

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

# SyncBlocker

Information about a blocker for a sync event.

## Contents

### CreatedAt

The creation time for a specific sync blocker.

Type: Timestamp

Required: Yes

### CreatedReason

The provided reason for a specific sync blocker.

Type: String

Required: Yes

### Id

The ID for a specific sync blocker.

Type: String

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

Required: Yes

### Status

The status for a specific sync blocker.

Type: String

Valid Values: ACTIVE | RESOLVED

Required: Yes

### Type

The sync blocker type.

Type: String

Valid Values: AUTOMATED

Required: Yes

### Contexts

The contexts for a specific sync blocker.

Type: Array of [SyncBlockerContext](#) objects

Required: No

### ResolvedAt

The time that a specific sync blocker was resolved.

Type: Timestamp

Required: No

### ResolvedReason

The resolved reason for a specific sync blocker.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 250.

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](#)

# SyncBlockerContext

The context for a specific sync blocker.

## Contents

### Key

The key provided for a context key-value pair for a specific sync blocker.

Type: String

Required: Yes

### Value

The value provided for a context key-value pair for a specific sync blocker.

Type: String

Required: Yes

## See Also

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

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

# SyncBlockerSummary

A summary for sync blockers.

## Contents

### ResourceName

The resource name for sync blocker summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

Required: Yes

### LatestBlockers

The latest events for a sync blocker summary.

Type: Array of [SyncBlocker](#) objects

Required: No

### ParentResourceName

The parent resource name for a sync blocker summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\\-]*$`

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](#)

# SyncConfiguration

Information, such as repository, branch, provider, and resource names for a specific sync configuration.

## Contents

### Branch

The branch associated with a specific sync configuration.

Type: String

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

Pattern: `^.*$`

Required: Yes

### OwnerId

The owner ID for the repository associated with a specific sync configuration, such as the owner ID in GitHub.

Type: String

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

Pattern: `^.*$`

Required: Yes

### ProviderType

The connection provider type associated with a specific sync configuration, such as GitHub.

Type: String

Valid Values: `Bitbucket` | `GitHub` | `GitHubEnterpriseServer` | `GitLab` | `GitLabSelfManaged`

Required: Yes

## RepositoryLinkId

The ID of the repository link associated with a specific sync configuration.

Type: String

Pattern: `^[0-9a-fA-F]{8}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{4}\b-[0-9a-fA-F]{12}$`

Required: Yes

## RepositoryName

The name of the repository associated with a specific sync configuration.

Type: String

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

Pattern: `^.*$`

Required: Yes

## ResourceName

The name of the connection resource associated with a specific sync configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[0-9A-Za-z]+[0-9A-Za-z_\-]*$`

Required: Yes

## RoleArn

The Amazon Resource Name (ARN) of the IAM role associated with a specific sync configuration.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:iam:.*:\d{12}:role/[a-zA-Z_0-9+=,.\@-\_/\w]+`

Required: Yes



## SyncType

The type of sync for a specific sync configuration.

Type: String

Valid Values: CFN\_STACK\_SYNC

Required: Yes

## ConfigFile

The file path to the configuration file associated with a specific sync configuration. The path should point to an actual file in the sync configurations linked repository.

Type: String

Required: No

## PublishDeploymentStatus

Whether to enable or disable publishing of deployment status to source providers.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## TriggerResourceUpdateOn

When to trigger Git sync to begin the stack update.

Type: String

Valid Values: ANY\_CHANGE | FILE\_CHANGE

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](#)

# Tag

A tag is a key-value pair that is used to manage the resource.

This tag is available for use by AWS services that support tags.

## Contents

### Key

The tag's key.

Type: String

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

Pattern: .\*

Required: Yes

### Value

The tag's value.

Type: String

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

Pattern: .\*

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](#)

# VpcConfiguration

The VPC configuration provisioned for the host.

## Contents

### SecurityGroupIds

The ID of the security group or security groups associated with the Amazon VPC connected to the infrastructure where your provider type is installed.

Type: Array of strings

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

Length Constraints: Minimum length of 11. Maximum length of 20.

Pattern: `sg-\w{8}(\w{9})?`

Required: Yes

### SubnetIds

The ID of the subnet or subnets associated with the Amazon VPC connected to the infrastructure where your provider type is installed.

Type: Array of strings

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

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `subnet-\w{8}(\w{9})?`

Required: Yes

### VpcId

The ID of the Amazon VPC connected to the infrastructure where your provider type is installed.

Type: String

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

Pattern: `vpc-\w{8}(\w{9})?`

Required: Yes

### **TlsCertificate**

The value of the Transport Layer Security (TLS) certificate associated with the infrastructure where your provider type is installed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Pattern: `[\s\S]*`

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