AWS CodeCommit

API Reference

API Version 2015-04-13

AWS CodeCommit: API Reference

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Welcome

This is the *AWS CodeCommit API Reference*. This reference provides descriptions of the operations and data types for AWS CodeCommit API.

You can use the AWS CodeCommit API to work with the following objects:

Repositories, by calling the following:

- BatchGetRepositories (p. 4), which returns information about one or more repositories associated with your AWS account
- CreateRepository (p. 11), which creates an AWS CodeCommit repository
- DeleteRepository (p. 14), which deletes an AWS CodeCommit repository
- GetRepository (p. 22), which returns information about a specified repository
- ListRepositories (p. 31), which lists all AWS CodeCommit repositories associated with your AWS account
- UpdateRepositoryDescription (p. 45), which sets or updates the description of the repository
- UpdateRepositoryName (p. 48), which changes the name of the repository. If you change the name of a repository, no other users of that repository will be able to access it until you send them the new HTTPS or SSH URL to use.

Branches, by calling the following:

- CreateBranch (p. 8), which creates a new branch in a specified repository
- GetBranch (p. 17), which returns information about a specified branch
- ListBranches (p. 28), which lists all branches for a specified repository
- UpdateDefaultBranch (p. 42), which changes the default branch for a repository

Information about committed code in a repository, by calling the following:

- GetCommit (p. 20), which returns information about a commit, including commit messages and committer information.

Triggers, by calling the following:

- GetRepositoryTriggers (p. 25), which returns information about triggers configured for a repository
- PutRepositoryTriggers (p. 34), which replaces all triggers for a repository and can be used to create or delete triggers

- TestRepositoryTriggers (p. 38), which tests the functionality of a repository trigger by sending data to the trigger target

For information about how to use AWS CodeCommit, see the AWS CodeCommit User Guide.
This document was last published on December 9, 2016.

Actions

The following actions are supported:

BatchGetRepositories

Returns information about one or more repositories.

> **Note**
> The description field for a repository accepts all HTML characters and all valid Unicode characters. Applications that do not HTML-encode the description and display it in a web page could expose users to potentially malicious code. Make sure that you HTML-encode the description field in any application that uses this API to display the repository description on a web page.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryNames (p. 4)

The names of the repositories to get information about.

Type: array of Strings

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

Pattern: `[\w\.-]+`

Required: Yes

Response Syntax

```
{
   "repositories": [
      {
         "accountId": "string",
         "Arn": "string",
         "cloneUrlHttp": "string",
         "cloneUrlSsh": "string",
         "creationDate": number,
         "defaultBranch": "string",
         "lastModifiedDate": number,
         "repositoryDescription": "string",
         "repositoryId": "string",
         "repositoryName": "string"
      }
   ],
   "repositoriesNotFound": [ "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.

repositories (p. 4)
A list of repositories returned by the batch get repositories operation.
Type: array of RepositoryMetadata (p. 53) objects

repositoriesNotFound (p. 4)
Returns a list of repository names for which information could not be found.
Type: array of Strings
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

MaximumRepositoryNamesExceededException
The maximum number of allowed repository names was exceeded. Currently, this number is 25.
HTTP Status Code: 400

RepositoryNamesRequiredException
A repository names object is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
```

```
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 50
X-Amz-Target: CodeCommit_20150413.BatchGetRepositories
X-Amz-Date: 20151028T213222Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryNames": [
    "MyDemoRepo",
 "MyOtherDemoRepo"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 550
Date: Wed, 28 Oct 2015 21:32:24 GMT

{
    "repositories": [
        {
            "repositoryName": "MyDemoRepo",
   "defaultBranch": "master",
            "cloneUrlSsh": "ssh://git-codecommit.us-east-1.amazonaws.com/v1/
repos/MyDemoRepo",
            "lastModifiedDate": 1441725693.583,
            "repositoryDescription": "My demonstration repository",
            "cloneUrlHttp": "https://git-codecommit.us-east-1.amazonaws.com/
v1/repos/MyDemoRepo",
            "creationDate": 1441725693.583,
            "repositoryId": "f7579e13-b83e-4027-aaef-650c0EXAMPLE",
            "Arn": "arn:aws:codecommit:us-
east-1:111111111111EXAMPLE:MyDemoRepo",
            "accountId": "111111111111"
        },
        {
            "creationDate": 1431980067.669,
            "defaultBranch": "master",
            "repositoryName": "MyOtherDemoRepo",
            "cloneUrlSsh": "ssh://git-codecommit.us-east-1.amazonaws.com/v1/
repos/MyOtherDemoRepo",
            "lastModifiedDate": 1444776815.847,
            "repositoryDescription": "My other demonstration repository",
            "cloneUrlHttp": "https://git-codecommit.us-east-1.amazonaws.com/
v1/repos/MyOtherDemoRepo",
            "repositoryId": "cfc29ac4-b0cb-44dc-9990-f6f51EXAMPLE",
            "Arn": "arn:aws:codecommit:us-
east-1:111111111111EXAMPLE:MyOtherDemoRepo",
            "accountId": "111111111111"
        }
```

```
    ],
    "repositoriesNotFound": []
}
```

CreateBranch

Creates a new branch in a repository and points the branch to a commit.

> **Note**
> Calling the create branch operation does not set a repository's default branch. To do this, call the update default branch operation.

Request Syntax

```
{
   "branchName": "string",
   "commitId": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

branchName (p. 8)
The name of the new branch to create.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: Yes

commitId (p. 8)
The ID of the commit to point the new branch to.
Type: String
Required: Yes

repositoryName (p. 8)
The name of the repository in which you want to create the new branch.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
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 (p. 61).

BranchNameExistsException
The specified branch name already exists.
HTTP Status Code: 400

BranchNameRequiredException
A branch name is required but was not specified.
HTTP Status Code: 400

CommitDoesNotExistException
The specified commit does not exist or no commit was specified, and the specified repository has no default branch.
HTTP Status Code: 400

CommitIdRequiredException
A commit ID was not specified.
HTTP Status Code: 400

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidBranchNameException
The specified branch name is not valid.
HTTP Status Code: 400

InvalidCommitIdException
The specified commit ID is not valid.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
```

```
Content-Length: 113
X-Amz-Target: CodeCommit_20150413.CreateBranch
X-Amz-Date: 20151028T221237Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "commitId": "317f8570EXAMPLE",
  "repositoryName": "MyDemoRepo",
  "branchName": "MyNewBranch"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Wed, 28 Oct 2015 22:12:40 GMT
```

CreateRepository

Creates a new, empty repository.

Request Syntax

```
{
   "repositoryDescription": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryDescription (p. 11)

A comment or description about the new repository.

> **Note**
> The description field for a repository accepts all HTML characters and all valid Unicode characters. Applications that do not HTML-encode the description and display it in a web page could expose users to potentially malicious code. Make sure that you HTML-encode the description field in any application that uses this API to display the repository description on a web page.

Type: String

Length Constraints: Maximum length of 1000.

Required: No

repositoryName (p. 11)

The name of the new repository to be created.

> **Note**
> The repository name must be unique across the calling AWS account. In addition, repository names are limited to 100 alphanumeric, dash, and underscore characters, and cannot include certain characters. For a full description of the limits on repository names, see Limits in the AWS CodeCommit User Guide. The suffix ".git" is prohibited.

Type: String

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

Pattern: `[\w\.-]+`

Required: Yes

Response Syntax

```
{
   "repositoryMetadata": {
      "accountId": "string",
      "Arn": "string",
      "cloneUrlHttp": "string",
      "cloneUrlSsh": "string",
      "creationDate": number,
      "defaultBranch": "string",
```

```
      "lastModifiedDate": number,
      "repositoryDescription": "string",
      "repositoryId": "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.

repositoryMetadata (p. 11)

Information about the newly created repository.

Type: RepositoryMetadata (p. 53) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException

An encryption integrity check failed.

HTTP Status Code: 500

EncryptionKeyAccessDeniedException

An encryption key could not be accessed.

HTTP Status Code: 400

EncryptionKeyDisabledException

The encryption key is disabled.

HTTP Status Code: 400

EncryptionKeyNotFoundException

No encryption key was found.

HTTP Status Code: 400

EncryptionKeyUnavailableException

The encryption key is not available.

HTTP Status Code: 400

InvalidRepositoryDescriptionException

The specified repository description is not valid.

HTTP Status Code: 400

InvalidRepositoryNameException

At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryLimitExceededException

A repository resource limit was exceeded.

HTTP Status Code: 400

RepositoryNameExistsException

The specified repository name already exists.

HTTP Status Code: 400

RepositoryNameRequiredException

A repository name is required but was not specified.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 88
X-Amz-Target: CodeCommit_20150413.CreateRepository
X-Amz-Date: 20151028T223339Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "MyDemoRepo",
  "repositoryDescription": "My demonstration repository"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 483
Date: Wed, 28 Oct 2015 22:33:42 GMT

{
    "repositoryMetadata": {
        "repositoryName": "MyDemoRepo",
        "cloneUrlSsh": "ssh://git-codecommit.us-east-1.amazonaws.com/v1/
repos/MyDemoRepo",
        "lastModifiedDate": 1446071622.494,
        "repositoryDescription": "My demonstration repository",
        "cloneUrlHttp": "https://git-codecommit.us-east-1.amazonaws.com/v1/
repos/MyDemoRepo",
        "creationDate": 1446071622.494,
        "repositoryId": "f7579e13-b83e-4027-aaef-650c0EXAMPLE",
        "Arn": "arn:aws:codecommit:us-east-1:111111111111EXAMPLE:MyDemoRepo",
        "accountId": "111111111111"
    }
}
```

DeleteRepository

Deletes a repository. If a specified repository was already deleted, a null repository ID will be returned.

Important
Deleting a repository also deletes all associated objects and metadata. After a repository is deleted, all future push calls to the deleted repository will fail.

Request Syntax

```
{
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryName (p. 14)
The name of the repository to delete.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
Required: Yes

Response Syntax

```
{
   "repositoryId": "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.

repositoryId (p. 14)
The ID of the repository that was deleted.
Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.

HTTP Status Code: 400

EncryptionKeyDisabledException

The encryption key is disabled.

HTTP Status Code: 400

EncryptionKeyNotFoundException

No encryption key was found.

HTTP Status Code: 400

EncryptionKeyUnavailableException

The encryption key is not available.

HTTP Status Code: 400

InvalidRepositoryNameException

At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryNameRequiredException

A repository name is required but was not specified.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 31
X-Amz-Target: CodeCommit_20150413.DeleteRepository
X-Amz-Date: 20151028T225354Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "MyDemoRepo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 55
Date: Wed, 28 Oct 2015 22:53:56 GMT

{
  "repositoryId": "f7579e13-b83e-4027-aaef-650c0EXAMPLE"
```

```
}
```

GetBranch

Returns information about a repository branch, including its name and the last commit ID.

Request Syntax

```
{
   "branchName": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

branchName (p. 17)

The name of the branch for which you want to retrieve information.

Type: String

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

Required: No

repositoryName (p. 17)

The name of the repository that contains the branch for which you want to retrieve information.

Type: String

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

Pattern: `[\w\.-]+`

Required: No

Response Syntax

```
{
   "branch": {
      "branchName": "string",
      "commitId": "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.

branch (p. 17)

The name of the branch.

Type: BranchInfo (p. 51) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

BranchDoesNotExistException
The specified branch does not exist.
HTTP Status Code: 400

BranchNameRequiredException
A branch name is required but was not specified.
HTTP Status Code: 400

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidBranchNameException
The specified branch name is not valid.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 57
X-Amz-Target: CodeCommit_20150413.GetBranch
X-Amz-Date: 20151028T224311Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
```

```
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "MyDemoRepo",
  "branchName": "MyNewBranch"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 88
Date: Wed, 28 Oct 2015 22:43:13 GMT

{
  "branch": {
    "commitID": "317f8570EXAMPLE",
    "branchName": "MyNewBranch"
  }
}
```

GetCommit

Returns information about a commit, including commit message and committer information.

Request Syntax

```
{
   "commitId": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

commitId (p. 20)
The commit ID.
Type: String
Required: Yes

repositoryName (p. 20)
The name of the repository to which the commit was made.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
Required: Yes

Response Syntax

```
{
   "commit": {
      "additionalData": "string",
      "author": {
         "date": "string",
         "email": "string",
         "name": "string"
      },
      "committer": {
         "date": "string",
         "email": "string",
         "name": "string"
      },
      "message": "string",
      "parents": [ "string" ],
      "treeId": "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.

commit (p. 20)
Information about the specified commit.
Type: Commit (p. 52) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

CommitIdDoesNotExistException
The specified commit ID does not exist.
HTTP Status Code: 400

CommitIdRequiredException
A commit ID was not specified.
HTTP Status Code: 400

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidCommitIdException
The specified commit ID is not valid.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

GetRepository

Returns information about a repository.

> **Note**
> The description field for a repository accepts all HTML characters and all valid Unicode characters. Applications that do not HTML-encode the description and display it in a web page could expose users to potentially malicious code. Make sure that you HTML-encode the description field in any application that uses this API to display the repository description on a web page.

Request Syntax

```
{
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryName (p. 22)
The name of the repository to get information about.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
Required: Yes

Response Syntax

```
{
   "repositoryMetadata": {
      "accountId": "string",
      "Arn": "string",
      "cloneUrlHttp": "string",
      "cloneUrlSsh": "string",
      "creationDate": number,
      "defaultBranch": "string",
      "lastModifiedDate": number,
      "repositoryDescription": "string",
      "repositoryId": "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.

repositoryMetadata (p. 22)
Information about the repository.

Type: RepositoryMetadata (p. 53) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: CodeCommit_20150413.GetRepository
X-Amz-Date: 20151028T225711Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE
```

```
{
  "repositoryName": "MyDemoRepo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 516
Date: Wed, 28 Oct 2015 22:57:13 GMT

{
  "repositoryMetadata": {
        "creationDate": 1429203623.625,
        "defaultBranch": "master",
        "repositoryName": "MyDemoRepo",
        "cloneUrlSsh": "ssh://git-codecommit.us-east-1.amazonaws.com/v1/
repos//v1/repos/MyDemoRepo",
        "lastModifiedDate": 1430783812.0869999,
        "repositoryDescription": "My demonstration repository",
        "cloneUrlHttp": "https://codecommit.us-east-1.amazonaws.com/v1/repos/
MyDemoRepo",
        "repositoryId": "f7579e13-b83e-4027-aaef-650c0EXAMPLE",
        "Arn": "arn:aws:codecommit:us-east-1:111111111111EXAMPLE:MyDemoRepo
        "accountId": "111111111111"
    }
}
```

GetRepositoryTriggers

Gets information about triggers configured for a repository.

Request Syntax

```
{
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryName (p. 25)

The name of the repository for which the trigger is configured.

Type: String

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

Pattern: `[\w\.-]+`

Required: Yes

Response Syntax

```
{
   "configurationId": "string",
   "triggers": [
      {
         "branches": [ "string" ],
         "customData": "string",
         "destinationArn": "string",
         "events": [ "string" ],
         "name": "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.

configurationId (p. 25)

The system-generated unique ID for the trigger.

Type: String

triggers (p. 25)

The JSON block of configuration information for each trigger.

Type: array of RepositoryTrigger (p. 56) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: CodeCommit_20150413.GetRepositoryTriggers
X-Amz-Date: 20151028T230050Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "MyDemoRepo"
```

```
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 248
Date: Wed, 28 Oct 2015 23:00:52 GMT

{
  "configurationId":"e1599578-3a14-EXAMPLE",
  "triggers":[
    {
   "branches":[
     "master",
     "MyNewBranch"
  ],
   "customData":"",
   "destinationArn":"arn:aws:sns:us-
east-1:111111111111EXAMPLE:MyCodeCommitTopic",
   "events":[
     "all"
     ],
   "name":"MyFirstTrigger"
 }
  ]
}
```

ListBranches

Gets information about one or more branches in a repository.

Request Syntax

```
{
   "nextToken": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

nextToken (p. 28)
An enumeration token that allows the operation to batch the results.
Type: String
Required: No

repositoryName (p. 28)
The name of the repository that contains the branches.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
Required: Yes

Response Syntax

```
{
   "branches": [ "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.

branches (p. 28)
The list of branch names.
Type: array of Strings
Length Constraints: Minimum length of 1. Maximum length of 100.

nextToken (p. 28)
An enumeration token that returns the batch of the results.
Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidContinuationTokenException
The specified continuation token is not valid.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: CodeCommit_20150413.ListBranches
X-Amz-Date: 20151028T231012Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
```

```
  "repositoryName": "MyDemoRepo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 55
Date: Wed, 28 Oct 2015 23:10:15 GMT

{
  "branches":[
    "master",
 "MyNewBranch"
 ]
}
```

ListRepositories

Gets information about one or more repositories.

Request Syntax

```
{
   "nextToken": "string",
   "order": "string",
   "sortBy": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

nextToken (p. 31)
An enumeration token that allows the operation to batch the results of the operation. Batch sizes are 1,000 for list repository operations. When the client sends the token back to AWS CodeCommit, another page of 1,000 records is retrieved.

Type: String

Required: No

order (p. 31)
The order in which to sort the results of a list repositories operation.

Type: String

Valid Values: `ascending | descending`

Required: No

sortBy (p. 31)
The criteria used to sort the results of a list repositories operation.

Type: String

Valid Values: `repositoryName | lastModifiedDate`

Required: No

Response Syntax

```
{
   "nextToken": "string",
   "repositories": [
      {
         "repositoryId": "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 (p. 31)
An enumeration token that allows the operation to batch the results of the operation. Batch sizes are 1,000 for list repository operations. When the client sends the token back to AWS CodeCommit, another page of 1,000 records is retrieved.

Type: String

repositories (p. 31)
Lists the repositories called by the list repositories operation.

Type: array of RepositoryNameIdPair (p. 55) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

InvalidContinuationTokenException
The specified continuation token is not valid.

HTTP Status Code: 400

InvalidOrderException
The specified sort order is not valid.

HTTP Status Code: 400

InvalidSortByException
The specified sort by value is not valid.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: CodeCommit_20150413.ListRepositories
X-Amz-Date: 20151028T212036Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 721
Date: Wed, 28 Oct 2015 21:20:37 GMT

{
  "repositories":[
```

```
    {
   "repositoryId": "f7579e13-b83e-4027-aaef-650c0EXAMPLE",
      "repositoryName": "MyDemoRepo"
    },
    {
      "repositoryId": "cfc29ac4-b0cb-44dc-9990-f6f51EXAMPLE"
   "repositoryName": "MyOtherDemoRepo"
    }
  ]
}
```

PutRepositoryTriggers

Replaces all triggers for a repository. This can be used to create or delete triggers.

Request Syntax

```
{
   "repositoryName": "string",
   "triggers": [
      {
         "branches": [ "string" ],
         "customData": "string",
         "destinationArn": "string",
         "events": [ "string" ],
         "name": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryName (p. 34)

The name of the repository where you want to create or update the trigger.

Type: String

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

Pattern: `[\w\.-]+`

Required: Yes

triggers (p. 34)

The JSON block of configuration information for each trigger.

Type: array of RepositoryTrigger (p. 56) objects

Required: Yes

Response Syntax

```
{
   "configurationId": "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.

configurationId (p. 34)

The system-generated unique ID for the create or update operation.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

InvalidRepositoryTriggerBranchNameException
One or more branch names specified for the trigger is not valid.
HTTP Status Code: 400

InvalidRepositoryTriggerCustomDataException
The custom data provided for the trigger is not valid.
HTTP Status Code: 400

InvalidRepositoryTriggerDestinationArnException
The Amazon Resource Name (ARN) for the trigger is not valid for the specified destination. The most common reason for this error is that the ARN does not meet the requirements for the service type.
HTTP Status Code: 400

InvalidRepositoryTriggerEventsException
One or more events specified for the trigger is not valid. Check to make sure that all events specified match the requirements for allowed events.
HTTP Status Code: 400

InvalidRepositoryTriggerNameException
The name of the trigger is not valid.
HTTP Status Code: 400

InvalidRepositoryTriggerRegionException
The region for the trigger target does not match the region for the repository. Triggers must be created in the same region as the target for the trigger.
HTTP Status Code: 400

MaximumBranchesExceededException
The number of branches for the trigger was exceeded.
HTTP Status Code: 400

MaximumRepositoryTriggersExceededException
The number of triggers allowed for the repository was exceeded.
HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerBranchNameListRequiredException
At least one branch name is required but was not specified in the trigger configuration.
HTTP Status Code: 400

RepositoryTriggerDestinationArnRequiredException
A destination ARN for the target service for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerEventsListRequiredException
At least one event for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerNameRequiredException
A name for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggersListRequiredException
The list of triggers for the repository is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 468
X-Amz-Target: CodeCommit_20150413.PutRepositoryTriggers
X-Amz-Date: 20151028T232919Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "ThisisaDemo",
  "triggers": [
    {
   "destinationArn": "arn:aws:sns:us-
east-1:111111111111EXAMPLE:MyCodeCommitTopic",
   "branches": [
     "mainline",
     "anotherbranch"
     ],
```

```
   "events": ["all"],
   "name": "MyFirstTrigger",
   "customerMetadata": ""
 },
 {
   "destinationArn": "arn:aws:sns:us-
east-1:111111111111EXAMPLE:MyOtherCodeCommitTopic",
   "branches": [],
   "events": ["all"],
   "name": "MySecondTrigger",
   "customerMetadata": "Use the example-example IRC channel to discuss
 development on this repo"
 }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 58
Date: Wed, 28 Oct 2015 23:29:21 GMT

{
  "configurationId":"6fa51cd8-35c1-EXAMPLE"
}
```

TestRepositoryTriggers

Tests the functionality of repository triggers by sending information to the trigger target. If real data is available in the repository, the test will send data from the last commit. If no data is available, sample data will be generated.

Request Syntax

```
{
   "repositoryName": "string",
   "triggers": [
      {
         "branches": [ "string" ],
         "customData": "string",
         "destinationArn": "string",
         "events": [ "string" ],
         "name": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryName (p. 38)

The name of the repository in which to test the triggers.

Type: String

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

Pattern: `[\w\.-]+`

Required: Yes

triggers (p. 38)

The list of triggers to test.

Type: array of RepositoryTrigger (p. 56) objects

Required: Yes

Response Syntax

```
{
   "failedExecutions": [
      {
         "failureMessage": "string",
         "trigger": "string"
      }
   ],
   "successfulExecutions": [ "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.

failedExecutions (p. 38)
The list of triggers that were not able to be tested. This list provides the names of the triggers that could not be tested, separated by commas.

Type: array of RepositoryTriggerExecutionFailure (p. 57) objects

successfulExecutions (p. 38)
The list of triggers that were successfully tested. This list provides the names of the triggers that were successfully tested, separated by commas.

Type: array of Strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.

HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.

HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.

HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.

HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.

HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

InvalidRepositoryTriggerBranchNameException
One or more branch names specified for the trigger is not valid.

HTTP Status Code: 400

InvalidRepositoryTriggerCustomDataException
The custom data provided for the trigger is not valid.

HTTP Status Code: 400

InvalidRepositoryTriggerDestinationArnException
The Amazon Resource Name (ARN) for the trigger is not valid for the specified destination. The most common reason for this error is that the ARN does not meet the requirements for the service type.

HTTP Status Code: 400

InvalidRepositoryTriggerEventsException
One or more events specified for the trigger is not valid. Check to make sure that all events specified match the requirements for allowed events.
HTTP Status Code: 400

InvalidRepositoryTriggerNameException
The name of the trigger is not valid.
HTTP Status Code: 400

InvalidRepositoryTriggerRegionException
The region for the trigger target does not match the region for the repository. Triggers must be created in the same region as the target for the trigger.
HTTP Status Code: 400

MaximumBranchesExceededException
The number of branches for the trigger was exceeded.
HTTP Status Code: 400

MaximumRepositoryTriggersExceededException
The number of triggers allowed for the repository was exceeded.
HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerBranchNameListRequiredException
At least one branch name is required but was not specified in the trigger configuration.
HTTP Status Code: 400

RepositoryTriggerDestinationArnRequiredException
A destination ARN for the target service for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerEventsListRequiredException
At least one event for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggerNameRequiredException
A name for the trigger is required but was not specified.
HTTP Status Code: 400

RepositoryTriggersListRequiredException
The list of triggers for the repository is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: CodeCommit_20150413.TestRepositoryTriggers
X-Amz-Date: 20151028T230050Z
```

```
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151028/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
      "repositoryName": "MyDemoRepo",
      "triggers": [
        {
          "name": "MyFirstTrigger",
          "destinationArn": "arn:aws:sns:us-
east-1:111111111111:MyCodeCommitTopic",
          "branches": [
            "mainline",
            "preprod"
          ],
          "events": [
            "all"
          ]
        }
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 107
Date: Wed, 28 Oct 2015 23:00:52 GMT

{
      "successfulExecutions": [
        "MyFirstTrigger"
      ],
      "failedExecutions": []
}
```

UpdateDefaultBranch

Sets or changes the default branch name for the specified repository.

Note
If you use this operation to change the default branch name to the current default branch name, a success message is returned even though the default branch did not change.

Request Syntax

```
{
   "defaultBranchName": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

defaultBranchName (p. 42)
The name of the branch to set as the default.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: Yes

repositoryName (p. 42)
The name of the repository to set or change the default branch for.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
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 (p. 61).

BranchDoesNotExistException
The specified branch does not exist.
HTTP Status Code: 400

BranchNameRequiredException
A branch name is required but was not specified.
HTTP Status Code: 400

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.

HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.
HTTP Status Code: 400

EncryptionKeyNotFoundException
No encryption key was found.
HTTP Status Code: 400

EncryptionKeyUnavailableException
The encryption key is not available.
HTTP Status Code: 400

InvalidBranchNameException
The specified branch name is not valid.
HTTP Status Code: 400

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 71
X-Amz-Target: CodeCommit_20150413.UpdateDefaultBranch
X-Amz-Date: 20151029T151143Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151029/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "defaultBranchName": "MyNewBranch",
  "repositoryName": "MyDemoRepo"
}
```

Sample Response

```
HTTP/1.1 200 OK
```

```
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 29 Oct 2015 15:11:44 GMT
```

UpdateRepositoryDescription

Sets or changes the comment or description for a repository.

Note
The description field for a repository accepts all HTML characters and all valid Unicode characters. Applications that do not HTML-encode the description and display it in a web page could expose users to potentially malicious code. Make sure that you HTML-encode the description field in any application that uses this API to display the repository description on a web page.

Request Syntax

```
{
   "repositoryDescription": "string",
   "repositoryName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

repositoryDescription (p. 45)
The new comment or description for the specified repository. Repository descriptions are limited to 1,000 characters.
Type: String
Length Constraints: Maximum length of 1000.
Required: No

repositoryName (p. 45)
The name of the repository to set or change the comment or description for.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
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 (p. 61).

EncryptionIntegrityChecksFailedException
An encryption integrity check failed.
HTTP Status Code: 500

EncryptionKeyAccessDeniedException
An encryption key could not be accessed.
HTTP Status Code: 400

EncryptionKeyDisabledException
The encryption key is disabled.

HTTP Status Code: 400

EncryptionKeyNotFoundException

No encryption key was found.

HTTP Status Code: 400

EncryptionKeyUnavailableException

The encryption key is not available.

HTTP Status Code: 400

InvalidRepositoryDescriptionException

The specified repository description is not valid.

HTTP Status Code: 400

InvalidRepositoryNameException

At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException

The specified repository does not exist.

HTTP Status Code: 400

RepositoryNameRequiredException

A repository name is required but was not specified.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 90
X-Amz-Target: CodeCommit_20150413.UpdateRepositoryDescription
X-Amz-Date: 20151029T153247Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151029/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "repositoryName": "MyDemoRepo",
  "repositoryDescription": "This description was changed"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
```

```
Date: Thu, 29 Oct 2015 15:32:49 GMT
```

UpdateRepositoryName

Renames a repository. The repository name must be unique across the calling AWS account. In addition, repository names are limited to 100 alphanumeric, dash, and underscore characters, and cannot include certain characters. The suffix ".git" is prohibited. For a full description of the limits on repository names, see Limits in the AWS CodeCommit User Guide.

Request Syntax

```
{
   "newName": "string",
   "oldName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 59).

The request accepts the following data in JSON format.

newName (p. 48)
The new name for the repository.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
Required: Yes

oldName (p. 48)
The existing name of the repository.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`
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 (p. 61).

InvalidRepositoryNameException
At least one specified repository name is not valid.

> **Note**
> This exception only occurs when a specified repository name is not valid. Other exceptions occur when a required repository parameter is missing, or when a specified repository does not exist.

HTTP Status Code: 400

RepositoryDoesNotExistException
The specified repository does not exist.
HTTP Status Code: 400

RepositoryNameExistsException
The specified repository name already exists.
HTTP Status Code: 400

RepositoryNameRequiredException
A repository name is required but was not specified.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codecommit.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 62
X-Amz-Target: CodeCommit_20150413.UpdateRepositoryName
X-Amz-Date: 20151029T153512Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151029/us-
east-1/codecommit/aws4_request, SignedHeaders=content-type;host;user-agent;x-
amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "newName": "MyRenamedDemoRepo",
  "oldName": "MyDemoRepo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0728aaa8-EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 29 Oct 2015 15:35:13 GMT
```

Data Types

The AWS CodeCommit 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:

BranchInfo

Returns information about a branch.

Contents

branchName
The name of the branch.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

commitId
The ID of the last commit made to the branch.
Type: String
Required: No

Commit

Returns information about a specific commit.

Contents

additionalData
Any additional data associated with the specified commit.
Type: String
Required: No

author
Information about the author of the specified commit.
Type: UserInfo (p. 58) object
Required: No

committer
Information about the person who committed the specified commit, also known as the committer. For more information about the difference between an author and a committer in Git, see Viewing the Commit History in Pro Git by Scott Chacon and Ben Straub.
Type: UserInfo (p. 58) object
Required: No

message
The message associated with the specified commit.
Type: String
Required: No

parents
The parent list for the specified commit.
Type: array of Strings
Required: No

treeId
Tree information for the specified commit.
Type: String
Required: No

RepositoryMetadata

Information about a repository.

Contents

accountId
The ID of the AWS account associated with the repository.
Type: String
Required: No

Arn
The Amazon Resource Name (ARN) of the repository.
Type: String
Required: No

cloneUrlHttp
The URL to use for cloning the repository over HTTPS.
Type: String
Required: No

cloneUrlSsh
The URL to use for cloning the repository over SSH.
Type: String
Required: No

creationDate
The date and time the repository was created, in timestamp format.
Type: Timestamp
Required: No

defaultBranch
The repository's default branch name.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Required: No

lastModifiedDate
The date and time the repository was last modified, in timestamp format.
Type: Timestamp
Required: No

repositoryDescription
A comment or description about the repository.
Type: String
Length Constraints: Maximum length of 1000.
Required: No

repositoryId
The ID of the repository.
Type: String
Required: No

repositoryName
The repository's name.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: `[\w\.-]+`

Required: No

RepositoryNameIdPair

Information about a repository name and ID.

Contents

repositoryId

The ID associated with the repository.

Type: String

Required: No

repositoryName

The name associated with the repository.

Type: String

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

Pattern: `[\w\.-]+`

Required: No

RepositoryTrigger

Information about a trigger for a repository.

Contents

branches

The branches that will be included in the trigger configuration. If no branches are specified, the trigger will apply to all branches.

Type: array of Strings

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

Required: No

customData

Any custom data associated with the trigger that will be included in the information sent to the target of the trigger.

Type: String

Required: No

destinationArn

The ARN of the resource that is the target for a trigger. For example, the ARN of a topic in Amazon Simple Notification Service (SNS).

Type: String

Required: Yes

events

The repository events that will cause the trigger to run actions in another service, such as sending a notification through Amazon Simple Notification Service (SNS).

> **Note**
> The valid value "all" cannot be used with any other values.

Type: array of Strings

Valid Values: `all | updateReference | createReference | deleteReference`

Required: Yes

name

The name of the trigger.

Type: String

Required: Yes

RepositoryTriggerExecutionFailure

A trigger failed to run.

Contents

failureMessage

Additional message information about the trigger that did not run.

Type: String

Required: No

trigger

The name of the trigger that did not run.

Type: String

Required: No

UserInfo

Information about the user who made a specified commit.

Contents

date
The date when the specified commit was pushed to the repository.
Type: String
Required: No

email
The email address associated with the user who made the commit, if any.
Type: String
Required: No

name
The name of the user who made the specified commit.
Type: String
Required: No

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see Examples of Signed Signature Version 4 Requests or Signature Version 4 Test Suite in the *Amazon Web Services General Reference*.

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 Task 2: Create a String to Sign for Signature Version 4 in the *Amazon Web Services General Reference*.

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 Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to Using Temporary Security Credentials to Access AWS in *Using Temporary Security Credentials*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the *Amazon Web Services General Reference*.

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 common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

InvalidParameterCombination
Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue
An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter
The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString
The query string contains a syntax error.

HTTP Status Code: 404

MissingAction
The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken
The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter
A required parameter for the specified action is not supplied.

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

Throttling
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