aws

API Reference

Amazon CodeGuru Reviewer

API Version 2019-09-19

Amazon CodeGuru Reviewer: API Reference

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Welcome

This section provides documentation for the Amazon CodeGuru Reviewer API operations. CodeGuru Reviewer is a service that uses program analysis and machine learning to detect potential defects that are difficult for developers to find and recommends fixes in your Java and Python code.

By proactively detecting and providing recommendations for addressing code defects and implementing best practices, CodeGuru Reviewer improves the overall quality and maintainability of your code base during the code review stage. For more information about CodeGuru Reviewer, see the *Amazon CodeGuru Reviewer User Guide*.

To improve the security of your CodeGuru Reviewer API calls, you can establish a private connection between your VPC and CodeGuru Reviewer by creating an *interface VPC endpoint*. For more information, see CodeGuru Reviewer and interface VPC endpoints (AWS PrivateLink) in the *Amazon CodeGuru Reviewer User Guide*.

This document was last published on March 20, 2026.

Actions

The following actions are supported:

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AssociateRepository

> ℹ️ **Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see [Amazon CodeGuru Reviewer availability change](#).

Use to associate an AWS CodeCommit repository or a repository managed by AWS CodeStar Connections with Amazon CodeGuru Reviewer. When you associate a repository, CodeGuru Reviewer reviews source code changes in the repository's pull requests and provides automatic recommendations. You can view recommendations using the CodeGuru Reviewer console. For more information, see [Recommendations in Amazon CodeGuru Reviewer](#) in the *Amazon CodeGuru Reviewer User Guide.*

If you associate a CodeCommit or S3 repository, it must be in the same AWS Region and AWS account where its CodeGuru Reviewer code reviews are configured.

Bitbucket and GitHub Enterprise Server repositories are managed by AWS CodeStar Connections to connect to CodeGuru Reviewer. For more information, see [Associate a repository](#) in the *Amazon CodeGuru Reviewer User Guide.*

> ℹ️ **Note**
>
> You cannot use the CodeGuru Reviewer SDK or the AWS CLI to associate a GitHub repository with Amazon CodeGuru Reviewer. To associate a GitHub repository, use the console. For more information, see [Getting started with CodeGuru Reviewer](#) in the *CodeGuru Reviewer User Guide.*

Request Syntax

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

{
    "ClientRequestToken": "string",
```

```
        "KMSKeyDetails": {
            "EncryptionOption": "string",
            "KMSKeyId": "string"
        },
        "Repository": {
            "Bitbucket": {
                "ConnectionArn": "string",
                "Name": "string",
                "Owner": "string"
            },
            "CodeCommit": {
                "Name": "string"
            },
            "GitHub": {
                "AccessToken": "string",
                "Name": "string",
                "Owner": "string"
            },
            "GitHubEnterpriseServer": {
                "ConnectionArn": "string",
                "Name": "string",
                "Owner": "string"
            },
            "S3Bucket": {
                "BucketName": "string",
                "Name": "string"
            }
        },
        "Tags": {
            "string" : "string"
        }
    }
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientRequestToken

Amazon CodeGuru Reviewer uses this value to prevent the accidental creation of duplicate repository associations if there are failures and retries.

Type: String

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

Pattern: ^[\w-]+$

Required: No

KMSKeyDetails

A KMSKeyDetails object that contains:

- The encryption option for this repository association. It is either owned by AWS Key Management Service (KMS) (AWS_OWNED_CMK) or customer managed (CUSTOMER_MANAGED_CMK).
- The ID of the AWS KMS key that is associated with this repository association.

Type: KMSKeyDetails object

Required: No

Repository

The repository to associate.

Type: Repository object

Required: Yes

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, CostCenter, Environment, Project, or Secret). Tag keys are case sensitive.
- An optional field known as a *tag value* (for example, 111122223333, Production, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

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

{
    "RepositoryAssociation": {
        "AssociationArn": "string",
        "AssociationId": "string",
        "ConnectionArn": "string",
        "CreatedTimeStamp": number,
        "KMSKeyDetails": {
            "EncryptionOption": "string",
            "KMSKeyId": "string"
        },
        "LastUpdatedTimeStamp": number,
        "Name": "string",
        "Owner": "string",
        "ProviderType": "string",
        "S3RepositoryDetails": {
            "BucketName": "string",
            "CodeArtifacts": {
                "BuildArtifactsObjectKey": "string",
                "SourceCodeArtifactsObjectKey": "string"
            }
        },
        "State": "string",
        "StateReason": "string"
    },
    "Tags": {
        "string" : "string"
    }
```

```
    }
```

Response Elements

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

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

RepositoryAssociation

Information about the repository association.

Type: RepositoryAssociation object

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, `CostCenter`, `Environment`, `Project`, or `Secret`). Tag keys are case sensitive.
- An optional field known as a *tag value* (for example, `111122223333`, `Production`, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

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: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

FeatureNoLongerAvailableException

HTTP Status Code: 410

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

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

CreateCodeReview

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon
> CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer,
> see [Amazon CodeGuru Reviewer availability change](#).

Use to create a code review with a [CodeReviewType](#) of `RepositoryAnalysis`. This type of code
review analyzes all code under a specified branch in an associated repository. `PullRequest` code
reviews are automatically triggered by a pull request.

Request Syntax

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

{
   "ClientRequestToken": "string",
   "Name": "string",
   "RepositoryAssociationArn": "string",
   "Type": {
      "AnalysisTypes": [ "string" ],
      "RepositoryAnalysis": {
         "RepositoryHead": {
            "BranchName": "string"
         },
         "S3BucketRepository": {
            "Details": {
               "BucketName": "string",
               "CodeArtifacts": {
                  "BuildArtifactsObjectKey": "string",
                  "SourceCodeArtifactsObjectKey": "string"
               }
            },
            "Name": "string"
         },
         "SourceCodeType": {
            "BranchDiff": {
               "DestinationBranchName": "string",
```

```
                    "SourceBranchName": "string"
                },
                "CommitDiff": {
                    "DestinationCommit": "string",
                    "MergeBaseCommit": "string",
                    "SourceCommit": "string"
                },
                "RepositoryHead": {
                    "BranchName": "string"
                },
                "RequestMetadata": {
                    "EventInfo": {
                        "Name": "string",
                        "State": "string"
                    },
                    "Requester": "string",
                    "RequestId": "string",
                    "VendorName": "string"
                },
                "S3BucketRepository": {
                    "Details": {
                        "BucketName": "string",
                        "CodeArtifacts": {
                            "BuildArtifactsObjectKey": "string",
                            "SourceCodeArtifactsObjectKey": "string"
                        }
                    },
                    "Name": "string"
                }
            }
        }
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientRequestToken

Amazon CodeGuru Reviewer uses this value to prevent the accidental creation of duplicate code reviews if there are failures and retries.

Type: String

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

Pattern: ^[\w-]+$

Required: No

Name

The name of the code review. The name of each code review in your AWS account must be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: [a-zA-Z0-9-_]*

Required: Yes

RepositoryAssociationArn

The Amazon Resource Name (ARN) of the RepositoryAssociation object. You can retrieve this ARN by calling ListRepositoryAssociations.

A code review can only be created on an associated repository. This is the ARN of the associated repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$

Required: Yes

Type

The type of code review to create. This is specified using a CodeReviewType object. You can create a code review only of type RepositoryAnalysis.

Type: CodeReviewType object

Required: Yes

Response Syntax

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

{
    "CodeReview": {
        "AnalysisTypes": [ "string" ],
        "AssociationArn": "string",
        "CodeReviewArn": "string",
        "ConfigFileState": "string",
        "CreatedTimeStamp": number,
        "LastUpdatedTimeStamp": number,
        "Metrics": {
            "FindingsCount": number,
            "MeteredLinesOfCodeCount": number,
            "SuppressedLinesOfCodeCount": number
        },
        "Name": "string",
        "Owner": "string",
        "ProviderType": "string",
        "PullRequestId": "string",
        "RepositoryName": "string",
        "SourceCodeType": {
            "BranchDiff": {
                "DestinationBranchName": "string",
                "SourceBranchName": "string"
            },
            "CommitDiff": {
                "DestinationCommit": "string",
                "MergeBaseCommit": "string",
                "SourceCommit": "string"
            },
            "RepositoryHead": {
                "BranchName": "string"
            },
            "RequestMetadata": {
                "EventInfo": {
                    "Name": "string",
```

```
                "State": "string"
            },
            "Requester": "string",
            "RequestId": "string",
            "VendorName": "string"
        },
        "S3BucketRepository": {
            "Details": {
                "BucketName": "string",
                "CodeArtifacts": {
                    "BuildArtifactsObjectKey": "string",
                    "SourceCodeArtifactsObjectKey": "string"
                }
            },
            "Name": "string"
        }
    },
    "State": "string",
    "StateReason": "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.

CodeReview

Information about a code review. A code review belongs to the associated repository that contains the reviewed code.

Type: CodeReview 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: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

CreateCodeReviewInternal

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Creates an internal code review for CodeGuru Reviewer analysis.

Request Syntax

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

{
   "ClientRequestToken": "string",
   "Name": "string",
   "RepositoryAssociationArn": "string",
   "Type": {
      "AnalysisTypes": [ "string" ],
      "RepositoryAnalysis": {
         "RepositoryHead": {
            "BranchName": "string"
         },
         "S3BucketRepository": {
            "Details": {
               "BucketName": "string",
               "CodeArtifacts": {
                  "BuildArtifactsObjectKey": "string",
                  "SourceCodeArtifactsObjectKey": "string"
               }
            },
            "Name": "string"
         },
         "SourceCodeType": {
            "BranchDiff": {
               "DestinationBranchName": "string",
               "SourceBranchName": "string"
            },
            "CommitDiff": {
```

```
                "DestinationCommit": "string",
                "MergeBaseCommit": "string",
                "SourceCommit": "string"
            },
            "RepositoryHead": {
                "BranchName": "string"
            },
            "RequestMetadata": {
                "EventInfo": {
                    "Name": "string",
                    "State": "string"
                },
                "Requester": "string",
                "RequestId": "string",
                "VendorName": "string"
            },
            "S3BucketRepository": {
                "Details": {
                    "BucketName": "string",
                    "CodeArtifacts": {
                        "BuildArtifactsObjectKey": "string",
                        "SourceCodeArtifactsObjectKey": "string"
                    }
                },
                "Name": "string"
            }
        }
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientRequestToken

Amazon CodeGuru Reviewer uses this value to prevent the accidental creation of duplicate code reviews if there are failures and retries.

Type: String

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

Pattern: ^[\w-]+$

Required: No

Name

The name of the code review. The name of each code review in your AWS account must be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: [a-zA-Z0-9-_]*

Required: Yes

RepositoryAssociationArn

The Amazon Resource Name (ARN) of the RepositoryAssociation object. You can retrieve this ARN by calling ListRepositoryAssociations.

A code review can only be created on an associated repository. This is the ARN of the associated repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$

Required: Yes

Type

The type of code review to create. This is specified using a CodeReviewType object. You can create a code review only of type RepositoryAnalysis.

Type: [CodeReviewType](#) object

Required: Yes

Response Syntax

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

{
   "CodeReview": {
      "AnalysisTypes": [ "string" ],
      "AssociationArn": "string",
      "CodeReviewArn": "string",
      "ConfigFileState": "string",
      "CreatedTimeStamp": number,
      "LastUpdatedTimeStamp": number,
      "Metrics": {
         "FindingsCount": number,
         "MeteredLinesOfCodeCount": number,
         "SuppressedLinesOfCodeCount": number
      },
      "Name": "string",
      "Owner": "string",
      "ProviderType": "string",
      "PullRequestId": "string",
      "RepositoryName": "string",
      "SourceCodeType": {
         "BranchDiff": {
            "DestinationBranchName": "string",
            "SourceBranchName": "string"
         },
         "CommitDiff": {
            "DestinationCommit": "string",
            "MergeBaseCommit": "string",
            "SourceCommit": "string"
         },
         "RepositoryHead": {
            "BranchName": "string"
         },
         "RequestMetadata": {
            "EventInfo": {
               "Name": "string",
```

```
                    "State": "string"
                },
                "Requester": "string",
                "RequestId": "string",
                "VendorName": "string"
            },
            "S3BucketRepository": {
                "Details": {
                    "BucketName": "string",
                    "CodeArtifacts": {
                        "BuildArtifactsObjectKey": "string",
                        "SourceCodeArtifactsObjectKey": "string"
                    }
                },
                "Name": "string"
            }
        },
        "State": "string",
        "StateReason": "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.

CodeReview

Information about a code review. A code review belongs to the associated repository that contains the reviewed code.

Type: CodeReview 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: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

CreateConnectionToken

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Creates a connection token for third-party repository integration with CodeGuru Reviewer.

Request Syntax

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

{
    "AuthCode": "string",
    "AuthToken": {
        "CreationTime": number,
        "Scopes": [ "string" ],
        "Token": "string",
        "User": "string"
    },
    "ProviderType": "string",
    "State": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AuthCode

The authorization code used for establishing the connection.

Type: String

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

Pattern: \S+

Required: No

AuthToken

The authentication token used for establishing the connection.

Type: AuthorizationToken object

Required: No

ProviderType

The type of third-party provider for the connection.

Type: String

Valid Values: CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket

Required: Yes

State

The state parameter used for OAuth flow security.

Type: String

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

Required: No

Response Syntax

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


{
    "ConnectionToken": "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.

ConnectionToken

The generated connection token for third-party repository access.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 2048.

Pattern: \S+

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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeCodeReview

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Returns the metadata associated with the code review along with its status.

Request Syntax

```
GET /codereviews/CodeReviewArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CodeReviewArn

The Amazon Resource Name (ARN) of the CodeReview object.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
    "CodeReview": {
        "AnalysisTypes": [ "string" ],
        "AssociationArn": "string",
        "CodeReviewArn": "string",
        "ConfigFileState": "string",
        "CreatedTimeStamp": number,
        "LastUpdatedTimeStamp": number,
        "Metrics": {
            "FindingsCount": number,
            "MeteredLinesOfCodeCount": number,
            "SuppressedLinesOfCodeCount": number
        },
        "Name": "string",
        "Owner": "string",
        "ProviderType": "string",
        "PullRequestId": "string",
        "RepositoryName": "string",
        "SourceCodeType": {
            "BranchDiff": {
                "DestinationBranchName": "string",
                "SourceBranchName": "string"
            },
            "CommitDiff": {
                "DestinationCommit": "string",
                "MergeBaseCommit": "string",
                "SourceCommit": "string"
            },
            "RepositoryHead": {
                "BranchName": "string"
            },
            "RequestMetadata": {
                "EventInfo": {
                    "Name": "string",
                    "State": "string"
                },
                "Requester": "string",
                "RequestId": "string",
                "VendorName": "string"
            },
            "S3BucketRepository": {
                "Details": {
                    "BucketName": "string",
                    "CodeArtifacts": {
                        "BuildArtifactsObjectKey": "string",
```

```
                "SourceCodeArtifactsObjectKey": "string"
            }
        },
        "Name": "string"
    }
},
"State": "string",
"StateReason": "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.

CodeReview

Information about the code review.

Type: CodeReview 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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

DescribeRecommendationFeedback

> **(i) Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see [Amazon CodeGuru Reviewer availability change](#).

Describes the customer feedback for a CodeGuru Reviewer recommendation.

Request Syntax

```
GET /feedback/CodeReviewArn?RecommendationId=RecommendationId&UserId=UserId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CodeReviewArn

The Amazon Resource Name (ARN) of the [CodeReview](#) object.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: Yes

RecommendationId

The recommendation ID that can be used to track the provided recommendations and then to collect the feedback.

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

Required: Yes

UserId

Optional parameter to describe the feedback for a given user. If this is not supplied, it defaults to the user making the request.

The `UserId` is an IAM principal that can be specified as an AWS account ID or an Amazon Resource Name (ARN). For more information, see Specifying a Principal in the *AWS Identity and Access Management User Guide.*

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "RecommendationFeedback": {
      "CodeReviewArn": "string",
      "CreatedTimeStamp": number,
      "LastUpdatedTimeStamp": number,
      "Reactions": [ "string" ],
      "RecommendationId": "string",
      "UserId": "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.

RecommendationFeedback

The recommendation feedback given by the user.

Type: RecommendationFeedback 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

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

DescribeRepositoryAssociation

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see [Amazon CodeGuru Reviewer availability change](#).

Returns a [RepositoryAssociation](#) object that contains information about the requested repository association.

Request Syntax

```
GET /associations/AssociationArn?showDeletedRepository=ShowDeletedRepository HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AssociationArn

The Amazon Resource Name (ARN) of the [RepositoryAssociation](#) object. You can retrieve this ARN by calling [ListRepositoryAssociations](#).

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

ShowDeletedRepository

Specifies whether to include information about deleted repositories in the response.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "RepositoryAssociation": {
      "AssociationArn": "string",
      "AssociationId": "string",
      "ConnectionArn": "string",
      "CreatedTimeStamp": number,
      "KMSKeyDetails": {
         "EncryptionOption": "string",
         "KMSKeyId": "string"
      },
      "LastUpdatedTimeStamp": number,
      "Name": "string",
      "Owner": "string",
      "ProviderType": "string",
      "S3RepositoryDetails": {
         "BucketName": "string",
         "CodeArtifacts": {
            "BuildArtifactsObjectKey": "string",
            "SourceCodeArtifactsObjectKey": "string"
         }
      },
      "State": "string",
      "StateReason": "string"
   },
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

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

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

RepositoryAssociation

Information about the repository association.

Type: [RepositoryAssociation](#) object

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, `CostCenter`, `Environment`, `Project`, or `Secret`). Tag keys are case sensitive.

- An optional field known as a *tag value* (for example, `111122223333`, `Production`, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateRepository

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Removes the association between Amazon CodeGuru Reviewer and a repository.

Request Syntax

```
DELETE /associations/AssociationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AssociationArn

The Amazon Resource Name (ARN) of the RepositoryAssociation object. You can retrieve this ARN by calling ListRepositoryAssociations.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "RepositoryAssociation": {
        "AssociationArn": "string",
        "AssociationId": "string",
        "ConnectionArn": "string",
        "CreatedTimeStamp": number,
        "KMSKeyDetails": {
            "EncryptionOption": "string",
            "KMSKeyId": "string"
        },
        "LastUpdatedTimeStamp": number,
        "Name": "string",
        "Owner": "string",
        "ProviderType": "string",
        "S3RepositoryDetails": {
            "BucketName": "string",
            "CodeArtifacts": {
                "BuildArtifactsObjectKey": "string",
                "SourceCodeArtifactsObjectKey": "string"
            }
        },
        "State": "string",
        "StateReason": "string"
    },
    "Tags": {
        "string" : "string"
    }
}
```

Response Elements

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

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

RepositoryAssociation

Information about the disassociated repository.

Type: RepositoryAssociation object

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, `CostCenter`, `Environment`, `Project`, or `Secret`). Tag keys are case sensitive.

- An optional field known as a *tag value* (for example, `111122223333`, `Production`, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

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: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

HTTP Status Code: 409

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

NotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMetricsData

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Retrieves metrics data for CodeGuru Reviewer analysis, including findings and code analysis statistics.

Request Syntax

```
GET /metrics HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "FindingsMetricsData": {
      "AnalyzedLinesOfCodeCount": number,
      "FindingJobsCount": number,
      "FindingsCount": number
   }
}
```

Response Elements

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

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

FindingsMetricsData

The metrics data containing findings and analysis statistics.

Type: FindingsMetricsData 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

ListCodeReviews

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon
> CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer,
> see [Amazon CodeGuru Reviewer availability change](#).

Lists all the code reviews that the customer has created in the past 90 days.

Request Syntax

```
GET /codereviews?
MaxResults=MaxResults&NextToken=NextToken&ProviderTypes=ProviderTypes&RepositoryNames=Repositor
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results that are returned per call. The default is 100.

Valid Range: Minimum value of 1. Maximum value of 1000.

NextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique
pagination token for each page. Make the call again using the returned token to retrieve the
next page. Keep all other arguments unchanged.

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

Pattern: \S+

ProviderTypes

List of provider types for filtering that needs to be applied before displaying the result. For
example, `providerTypes=[GitHub]` lists code reviews from GitHub.

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Valid Values: `CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket`

RepositoryNames

List of repository names for filtering that needs to be applied before displaying the result.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

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

Pattern: `^\S(.*\S)?$`

States

List of states for filtering that needs to be applied before displaying the result. For example, `states=[Pending]` lists code reviews in the Pending state.

The valid code review states are:

- `Completed`: The code review is complete.
- `Pending`: The code review started and has not completed or failed.
- `Failed`: The code review failed.
- `Deleting`: The code review is being deleted.

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Valid Values: `Completed | Pending | Failed | Deleting`

Type

The type of code reviews to list in the response.

Valid Values: `PullRequest | RepositoryAnalysis`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "CodeReviewSummaries": [
        {
            "CodeReviewArn": "string",
            "CreatedTimeStamp": number,
            "LastUpdatedTimeStamp": number,
            "MetricsSummary": {
                "FindingsCount": number,
                "MeteredLinesOfCodeCount": number,
                "SuppressedLinesOfCodeCount": number
            },
            "Name": "string",
            "Owner": "string",
            "ProviderType": "string",
            "PullRequestId": "string",
            "RepositoryName": "string",
            "SourceCodeType": {
                "BranchDiff": {
                    "DestinationBranchName": "string",
                    "SourceBranchName": "string"
                },
                "CommitDiff": {
                    "DestinationCommit": "string",
                    "MergeBaseCommit": "string",
                    "SourceCommit": "string"
                },
                "RepositoryHead": {
                    "BranchName": "string"
                },
                "RequestMetadata": {
                    "EventInfo": {
                        "Name": "string",
                        "State": "string"
                    },
                    "Requester": "string",
                    "RequestId": "string",
                    "VendorName": "string"
                },
```

```
            "S3BucketRepository": {
                "Details": {
                    "BucketName": "string",
                    "CodeArtifacts": {
                        "BuildArtifactsObjectKey": "string",
                        "SourceCodeArtifactsObjectKey": "string"
                    }
                },
                "Name": "string"
            }
        },
        "State": "string",
        "Type": "string"
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

CodeReviewSummaries

A list of code reviews that meet the criteria of the request.

Type: Array of CodeReviewSummary objects

NextToken

Pagination token.

Type: String

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

Pattern: \S+

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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListRecommendationFeedback

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon
> CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer,
> see [Amazon CodeGuru Reviewer availability change](#).

Returns a list of [RecommendationFeedbackSummary](#) objects that contain customer
recommendation feedback for all CodeGuru Reviewer users.

Request Syntax

```
GET /feedback/CodeReviewArn/RecommendationFeedback?
MaxResults=MaxResults&NextToken=NextToken&RecommendationIds=RecommendationIds&UserIds=UserIds
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CodeReviewArn

  The Amazon Resource Name (ARN) of the [CodeReview](#) object.

  Length Constraints: Minimum length of 1. Maximum length of 1600.

  Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:`
  `[\w-]+:[a-z-]+):[\w-]+$`

  Required: Yes

MaxResults

  The maximum number of results that are returned per call. The default is 100.

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

NextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

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

Pattern: \S+

RecommendationIds

Used to query the recommendation feedback for a given recommendation.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

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

UserIds

An AWS user's account ID or Amazon Resource Name (ARN). Use this ID to query the recommendation feedback for a code review from that user.

The `UserId` is an IAM principal that can be specified as an AWS account ID or an Amazon Resource Name (ARN). For more information, see Specifying a Principal in the *AWS Identity and Access Management User Guide*.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
```

```
      "RecommendationFeedbackSummaries": [
         {
            "Reactions": [ "string" ],
            "RecommendationId": "string",
            "UserId": "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

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

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

Pattern: \S+

RecommendationFeedbackSummaries

Recommendation feedback summaries corresponding to the code review ARN.

Type: Array of RecommendationFeedbackSummary 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListRecommendations

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see [Amazon CodeGuru Reviewer availability change](#).

Returns the list of all recommendations for a completed code review.

Request Syntax

```
GET /codereviews/CodeReviewArn/Recommendations?
MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CodeReviewArn

The Amazon Resource Name (ARN) of the [CodeReview](#) object.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: Yes

MaxResults

The maximum number of results that are returned per call. The default is 100.

Valid Range: Minimum value of 1. Maximum value of 300.

NextToken

Pagination token.

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

Pattern: \S+

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "RecommendationSummaries": [
        {
            "ConfidenceScore": number,
            "Description": "string",
            "EndLine": number,
            "FilePath": "string",
            "RecommendationCategory": "string",
            "RecommendationId": "string",
            "RecommendationType": "string",
            "RecommenderId": "string",
            "RuleMetadata": {
                "LongDescription": "string",
                "RuleId": "string",
                "RuleName": "string",
                "RuleTags": [ "string" ],
                "ShortDescription": "string"
            },
            "Severity": "string",
            "StartLine": number
        }
    ]
}
```

Response Elements

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

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

NextToken

Pagination token.

Type: String

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

Pattern: \S+

RecommendationSummaries

List of recommendations for the requested code review.

Type: Array of RecommendationSummary 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListRepositoryAssociations

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon
> CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer,
> see Amazon CodeGuru Reviewer availability change.

Returns a list of RepositoryAssociationSummary objects that contain summary information about a
repository association. You can filter the returned list by ProviderType, Name, State, and Owner.

Request Syntax

```
GET /associations?
MaxResults=MaxResults&Name=Names&NextToken=NextToken&Owner=Owners&ProviderType=ProviderTypes&St
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of repository association results returned by
ListRepositoryAssociations in paginated output. When this parameter is used,
ListRepositoryAssociations only returns maxResults results in a single page
with a nextToken response element. The remaining results of the initial request can be
seen by sending another ListRepositoryAssociations request with the returned
nextToken value. This value can be between 1 and 100. If this parameter is not used,
ListRepositoryAssociations returns up to 100 results and a nextToken value if
applicable.

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

Names

List of repository names to use as a filter.

Array Members: Minimum number of 1 item. Maximum number of 3 items.

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

Pattern: ^\S(.*\S)?$

NextToken

The `nextToken` value returned from a previous paginated `ListRepositoryAssociations` request where `maxResults` was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the `nextToken` value.

> ### ⓘ Note
>
> Treat this token as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

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

Pattern: \S+

Owners

List of owners to use as a filter. For AWS CodeCommit, it is the name of the CodeCommit account that was used to associate the repository. For other repository source providers, such as Bitbucket and GitHub Enterprise Server, this is name of the account that was used to associate the repository.

Array Members: Minimum number of 1 item. Maximum number of 3 items.

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

Pattern: ^\S(.*\S)?$

ProviderTypes

List of provider types to use as a filter.

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Valid Values: `CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket`

States

List of repository association states to use as a filter.

The valid repository association states are:

- **Associated**: The repository association is complete.

- **Associating**: CodeGuru Reviewer is:

  - Setting up pull request notifications. This is required for pull requests to trigger a CodeGuru Reviewer review.

    > **ⓘ Note**
    >
    > If your repository `ProviderType` is `GitHub`, `GitHub Enterprise Server`, or `Bitbucket`, CodeGuru Reviewer creates webhooks in your repository to trigger CodeGuru Reviewer reviews. If you delete these webhooks, reviews of code in your repository cannot be triggered.

  - Setting up source code access. This is required for CodeGuru Reviewer to securely clone code in your repository.

- **Failed**: The repository failed to associate or disassociate.

- **Disassociating**: CodeGuru Reviewer is removing the repository's pull request notifications and source code access.

- **Disassociated**: CodeGuru Reviewer successfully disassociated the repository. You can create a new association with this repository if you want to review source code in it later. You can control access to code reviews created in anassociated repository with tags after it has been disassociated. For more information, see Using tags to control access to associated repositories in the *Amazon CodeGuru Reviewer User Guide*.

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Valid Values: `Associated | Associating | Failed | Disassociating | Disassociated`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "RepositoryAssociationSummaries": [
        {
            "AssociationArn": "string",
            "AssociationId": "string",
            "ConnectionArn": "string",
            "LastUpdatedTimeStamp": number,
            "Name": "string",
            "Owner": "string",
            "ProviderType": "string",
            "State": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken

The `nextToken` value to include in a future `ListRecommendations` request. When the results of a `ListRecommendations` request exceed `maxResults`, this value can be used to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

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

Pattern: \S+

RepositoryAssociationSummaries

A list of repository associations that meet the criteria of the request.

Type: Array of [RepositoryAssociationSummary](#) objects

Errors

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

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see [Amazon CodeGuru Reviewer availability change](#).

Returns the list of tags associated with an associated repository resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn](#)

The Amazon Resource Name (ARN) of the [RepositoryAssociation](#) object. You can retrieve this ARN by calling [ListRepositoryAssociations](#).

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

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

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

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, CostCenter, Environment, Project, or Secret). Tag keys are case sensitive.
- An optional field known as a *tag value* (for example, 111122223333, Production, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Errors

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

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListThirdPartyRepositories

> **(i) Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Lists third-party repositories that are connected to CodeGuru Reviewer for code analysis.

Request Syntax

```
GET /thirdPartyRepositories?ConnectionToken=ConnectionToken&NextToken=NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectionToken

The connection token used to authenticate with the third-party repository provider.

Length Constraints: Minimum length of 8. Maximum length of 2048.

Pattern: \S+

Required: Yes

NextToken

The pagination token for retrieving the next set of results.

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

Pattern: \S+

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "ThirdPartyRepositories": [
        {
            "ConnectionToken": "string",
            "IsEnabled": boolean,
            "Name": "string",
            "Owner": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken

   The pagination token for retrieving additional results.

   Type: String

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

   Pattern: \S+

ThirdPartyRepositories

   A list of third-party repositories available for code review.

   Type: Array of ThirdPartyRepository 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: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutRecommendationFeedback

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Stores customer feedback for a CodeGuru Reviewer recommendation. When this API is called again with different reactions the previous feedback is overwritten.

Request Syntax

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

{
   "CodeReviewArn": "string",
   "Reactions": [ "string" ],
   "RecommendationId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

CodeReviewArn

The Amazon Resource Name (ARN) of the CodeReview object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$

Required: Yes

Reactions

List for storing reactions. Reactions are utf-8 text code for emojis. If you send an empty list it clears all your feedback.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Valid Values: ThumbsUp | ThumbsDown

Required: Yes

RecommendationId

The recommendation ID that can be used to track the provided recommendations and then to collect the feedback.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

> ⓘ **Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer, see Amazon CodeGuru Reviewer availability change.

Adds one or more tags to an associated repository.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the RepositoryAssociation object. You can retrieve this ARN by calling ListRepositoryAssociations.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

An array of key-value pairs used to tag an associated repository. A tag is a custom attribute label with two parts:

- A *tag key* (for example, `CostCenter`, `Environment`, `Project`, or `Secret`). Tag keys are case sensitive.
- An optional field known as a *tag value* (for example, `111122223333`, `Production`, or a team name). Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

> **ⓘ Note**
>
> As of November 7, 2025, you cannot create new repository associations in Amazon
> CodeGuru Reviewer. To learn about services with capabilities similar to CodeGuru Reviewer,
> see Amazon CodeGuru Reviewer availability change.

Removes a tag from an associated repository.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the RepositoryAssociation object. You can retrieve this
ARN by calling ListRepositoryAssociations.

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]`
`{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

TagKeys

A list of the keys for each tag you want to remove from an associated repository.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InternalServerException

The server encountered an internal error and is unable to complete the request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

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 V2](#)
- [AWS SDK for .NET V4](#)

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

Data Types

The Amazon CodeGuru Reviewer 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:

- AuthorizationToken
- BranchDiffSourceCodeType
- CodeArtifacts
- CodeCommitRepository
- CodeReview
- CodeReviewSummary
- CodeReviewType
- CommitDiffSourceCodeType
- EventInfo
- FindingsMetricsData
- GitHubRepository
- KMSKeyDetails
- Metrics
- MetricsSummary
- RecommendationFeedback
- RecommendationFeedbackSummary
- RecommendationSummary
- Repository
- RepositoryAnalysis
- RepositoryAssociation

- [RepositoryAssociationSummary](#)
- [RepositoryHeadSourceCodeType](#)
- [RequestMetadata](#)
- [RuleMetadata](#)
- [S3BucketRepository](#)
- [S3Repository](#)
- [S3RepositoryDetails](#)
- [SourceCodeType](#)
- [ThirdPartyRepository](#)
- [ThirdPartySourceRepository](#)

AuthorizationToken

Contains authorization information for accessing third-party repositories.

Contents

CreationTime

The time when the authorization token was created.

Type: Timestamp

Required: Yes

Scopes

The access scopes granted by the authorization token.

Type: Array of strings

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

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

Required: Yes

Token

The authorization token value.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 2048.

Pattern: \S+

Required: Yes

User

The user associated with the authorization token.

Type: String

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

Pattern: `^\S(.*\S)?$`

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](#)

BranchDiffSourceCodeType

A type of [SourceCodeType](#) that specifies a code diff between a source and destination branch in an associated repository.

Contents

DestinationBranchName

The destination branch for a diff in an associated repository.

Type: String

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

Required: Yes

SourceBranchName

The source branch for a diff in an associated repository.

Type: String

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

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](#)

CodeArtifacts

Code artifacts are source code artifacts and build artifacts used in a repository analysis or a pull request review.

- Source code artifacts are source code files in a Git repository that are compressed into a .zip file.

- Build artifacts are .jar or .class files that are compressed in a .zip file.

Contents

SourceCodeArtifactsObjectKey

The S3 object key for a source code .zip file. This is required for all code reviews.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: Yes

BuildArtifactsObjectKey

The S3 object key for a build artifacts .zip file that contains .jar or .class files. This is required for a code review with security analysis. For more information, see [Create code reviews with GitHub Actions](#) in the *Amazon CodeGuru Reviewer User Guide*.

Type: String

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

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](#)

CodeCommitRepository

Information about an AWS CodeCommit repository. The CodeCommit repository must be in the same AWS Region and AWS account where its CodeGuru Reviewer code reviews are configured.

Contents

Name

The name of the AWS CodeCommit repository. For more information, see repositoryName in the *AWS CodeCommit API Reference*.

Type: String

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

Pattern: `^\S[\w.-]*$`

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

CodeReview

Information about a code review. A code review belongs to the associated repository that contains the reviewed code.

Contents

AnalysisTypes

The types of analysis performed during a repository analysis or a pull request review. You can specify either `Security`, `CodeQuality`, or both.

Type: Array of strings

Valid Values: `Security | CodeQuality`

Required: No

AssociationArn

The Amazon Resource Name (ARN) of the RepositoryAssociation that contains the reviewed source code. You can retrieve associated repository ARNs by calling ListRepositoryAssociations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

CodeReviewArn

The Amazon Resource Name (ARN) of the CodeReview object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: No

ConfigFileState

The state of the `aws-codeguru-reviewer.yml` configuration file that allows the configuration of the CodeGuru Reviewer analysis. The file either exists, doesn't exist, or exists with errors at the root directory of your repository.

Type: String

Valid Values: `Present | Absent | PresentWithErrors`

Required: No

CreatedTimeStamp

The time, in milliseconds since the epoch, when the code review was created.

Type: Timestamp

Required: No

LastUpdatedTimeStamp

The time, in milliseconds since the epoch, when the code review was last updated.

Type: Timestamp

Required: No

Metrics

The statistics from the code review.

Type: [Metrics](#) object

Required: No

Name

The name of the code review.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: No

Owner

The owner of the repository. For an AWS CodeCommit repository, this is the AWS account ID of the account that owns the repository. For a GitHub, GitHub Enterprise Server, or Bitbucket repository, this is the username for the account that owns the repository. For an S3 repository, it can be the username or AWS account ID.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

ProviderType

The type of repository that contains the reviewed code (for example, GitHub or Bitbucket).

Type: String

Valid Values: `CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket`

Required: No

PullRequestId

The pull request ID for the code review.

Type: String

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

Pattern: \S+

Required: No

RepositoryName

The name of the repository.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

SourceCodeType

The type of the source code for the code review.

Type: SourceCodeType object

Required: No

State

The valid code review states are:

- `Completed`: The code review is complete.
- `Pending`: The code review started and has not completed or failed.
- `Failed`: The code review failed.
- `Deleting`: The code review is being deleted.

Type: String

Valid Values: `Completed | Pending | Failed | Deleting`

Required: No

StateReason

The reason for the state of the code review.

Type: String

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

Required: No

Type

The type of code review.

Type: String

Valid Values: `PullRequest | RepositoryAnalysis`

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](#)

CodeReviewSummary

Information about the summary of the code review.

Contents

CodeReviewArn

The Amazon Resource Name (ARN) of the [CodeReview](#) object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: No

CreatedTimeStamp

The time, in milliseconds since the epoch, when the code review was created.

Type: Timestamp

Required: No

LastUpdatedTimeStamp

The time, in milliseconds since the epoch, when the code review was last updated.

Type: Timestamp

Required: No

MetricsSummary

The statistics from the code review.

Type: [MetricsSummary](#) object

Required: No

Name

The name of the code review.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

Owner

The owner of the repository. For an AWS CodeCommit repository, this is the AWS account ID of the account that owns the repository. For a GitHub, GitHub Enterprise Server, or Bitbucket repository, this is the username for the account that owns the repository. For an S3 repository, it can be the username or AWS account ID.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

ProviderType

The provider type of the repository association.

Type: String

Valid Values: CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket

Required: No

PullRequestId

The pull request ID for the code review.

Type: String

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

Pattern: \S+

Required: No

RepositoryName

The name of the repository.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

SourceCodeType

Specifies the source code that is analyzed in a code review.

Type: SourceCodeType object

Required: No

State

The state of the code review.

The valid code review states are:

- `Completed`: The code review is complete.
- `Pending`: The code review started and has not completed or failed.
- `Failed`: The code review failed.
- `Deleting`: The code review is being deleted.

Type: String

Valid Values: `Completed | Pending | Failed | Deleting`

Required: No

Type

The type of the code review.

Type: String

Valid Values: `PullRequest | RepositoryAnalysis`

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](#)

CodeReviewType

The type of a code review. There are two code review types:

- `PullRequest` - A code review that is automatically triggered by a pull request on an associated repository.

- `RepositoryAnalysis` - A code review that analyzes all code under a specified branch in an associated repository. The associated repository is specified using its ARN in CreateCodeReview.

Contents

RepositoryAnalysis

A code review that analyzes all code under a specified branch in an associated repository. The associated repository is specified using its ARN in CreateCodeReview.

Type: RepositoryAnalysis object

Required: Yes

AnalysisTypes

They types of analysis performed during a repository analysis or a pull request review. You can specify either `Security`, `CodeQuality`, or both.

Type: Array of strings

Valid Values: `Security | CodeQuality`

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

CommitDiffSourceCodeType

A type of [SourceCodeType](#) that specifies the commit diff for a pull request on an associated repository. The `SourceCommit` and `DestinationCommit` fields are required to do a pull request code review.

Contents

DestinationCommit

The SHA of the destination commit used to generate a commit diff. This field is required for a pull request code review.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 64.

Pattern: \S+

Required: Yes

SourceCommit

The SHA of the source commit used to generate a commit diff. This field is required for a pull request code review.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 64.

Pattern: \S+

Required: Yes

MergeBaseCommit

The SHA of the merge base of a commit.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 64.

Pattern: \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](#)

EventInfo

Information about an event. The event might be a push, pull request, scheduled request, or another type of event.

Contents

Name

The name of the event. The possible names are `pull_request`, `workflow_dispatch`, `schedule`, and `push`

Type: String

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

Pattern: `^[ \-A-Z_a-z]+$`

Required: No

State

The state of an event. The state might be open, closed, or another state.

Type: String

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

Pattern: `^[ \-A-Z_a-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](#)

FindingsMetricsData

Contains metrics data about code analysis findings and statistics.

Contents

AnalyzedLinesOfCodeCount

The total number of lines of code that were analyzed.

Type: Long

Required: No

FindingJobsCount

The number of analysis jobs that generated findings.

Type: Long

Required: No

FindingsCount

The total number of findings identified in the analysis.

Type: Long

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](#)

GitHubRepository

Information about a GitHub repository for code analysis.

Contents

AccessToken

The access token for authenticating with the GitHub repository.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 2048.

Pattern: \S+

Required: Yes

Name

The name of the GitHub repository.

Type: String

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

Pattern: ^\S[\w.-]*$

Required: Yes

Owner

The owner of the GitHub repository.

Type: String

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

Pattern: ^\S(.*\S)?$

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](#)

KMSKeyDetails

An object that contains:

- The encryption option for a repository association. It is either owned by AWS Key Management Service (KMS) (AWS_OWNED_CMK) or customer managed (CUSTOMER_MANAGED_CMK).

- The ID of the AWS KMS key that is associated with a repository association.

Contents

EncryptionOption

The encryption option for a repository association. It is either owned by AWS Key Management Service (KMS) (AWS_OWNED_CMK) or customer managed (CUSTOMER_MANAGED_CMK).

Type: String

Valid Values: AWS_OWNED_CMK | CUSTOMER_MANAGED_CMK

Required: No

KMSKeyId

The ID of the AWS KMS key that is associated with a repository association.

Type: String

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

Pattern: [a-zA-Z0-9-]+

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

Metrics

Information about the statistics from the code review.

Contents

FindingsCount

Total number of recommendations found in the code review.

Type: Long

Required: No

MeteredLinesOfCodeCount

`MeteredLinesOfCodeCount` is the number of lines of code in the repository where the code review happened. This does not include non-code lines such as comments and blank lines.

Type: Long

Required: No

SuppressedLinesOfCodeCount

`SuppressedLinesOfCodeCount` is the number of lines of code in the repository where the code review happened that CodeGuru Reviewer did not analyze. The lines suppressed in the analysis is based on the `excludeFiles` variable in the `aws-codeguru-reviewer.yml` file. This number does not include non-code lines such as comments and blank lines.

Type: Long

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](#)

MetricsSummary

Information about metrics summaries.

Contents

FindingsCount

Total number of recommendations found in the code review.

Type: Long

Required: No

MeteredLinesOfCodeCount

Lines of code metered in the code review. For the initial code review pull request and all subsequent revisions, this includes all lines of code in the files added to the pull request. In subsequent revisions, for files that already existed in the pull request, this includes only the changed lines of code. In both cases, this does not include non-code lines such as comments and import statements. For example, if you submit a pull request containing 5 files, each with 500 lines of code, and in a subsequent revision you added a new file with 200 lines of code, and also modified a total of 25 lines across the initial 5 files, `MeteredLinesOfCodeCount` includes the first 5 files (5 * 500 = 2,500 lines), the new file (200 lines) and the 25 changed lines of code for a total of 2,725 lines of code.

Type: Long

Required: No

SuppressedLinesOfCodeCount

Lines of code suppressed in the code review based on the `excludeFiles` element in the `aws-codeguru-reviewer.yml` file. For full repository analyses, this number includes all lines of code in the files that are suppressed. For pull requests, this number only includes the *changed* lines of code that are suppressed. In both cases, this number does not include non-code lines such as comments and import statements. For example, if you initiate a full repository analysis on a repository containing 5 files, each file with 100 lines of code, and 2 files are listed as excluded in the `aws-codeguru-reviewer.yml` file, then `SuppressedLinesOfCodeCount` returns 200 (2 * 100) as the total number of lines of code suppressed. However, if you submit a pull request for the same repository, then `SuppressedLinesOfCodeCount` only includes

the lines in the 2 files that changed. If only 1 of the 2 files changed in the pull request, then `SuppressedLinesOfCodeCount` returns 100 (1 * 100) as the total number of lines of code suppressed.

Type: Long

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](#)

RecommendationFeedback

Information about the recommendation feedback.

Contents

CodeReviewArn

The Amazon Resource Name (ARN) of the [CodeReview](#) object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:([a-z-]+|[a-z-]+:[\w-]+:[a-z-]+):[\w-]+$`

Required: No

CreatedTimeStamp

The time at which the feedback was created.

Type: Timestamp

Required: No

LastUpdatedTimeStamp

The time at which the feedback was last updated.

Type: Timestamp

Required: No

Reactions

List for storing reactions. Reactions are utf-8 text code for emojis. You can send an empty list to clear off all your feedback.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Valid Values: `ThumbsUp | ThumbsDown`

Required: No

RecommendationId

The recommendation ID that can be used to track the provided recommendations. Later on it can be used to collect the feedback.

Type: String

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

Required: No

UserId

The ID of the user that made the API call.

The `UserId` is an IAM principal that can be specified as an AWS account ID or an Amazon Resource Name (ARN). For more information, see Specifying a Principal in the *AWS Identity and Access Management User Guide*.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RecommendationFeedbackSummary

Information about recommendation feedback summaries.

Contents

Reactions

List for storing reactions. Reactions are utf-8 text code for emojis.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Valid Values: `ThumbsUp` | `ThumbsDown`

Required: No

RecommendationId

The recommendation ID that can be used to track the provided recommendations. Later on it can be used to collect the feedback.

Type: String

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

Required: No

UserId

The ID of the user that gave the feedback.

The `UserId` is an IAM principal that can be specified as an AWS account ID or an Amazon Resource Name (ARN). For more information, see Specifying a Principal in the *AWS Identity and Access Management User Guide*.

Type: String

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

Required: No

See Also

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

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

RecommendationSummary

Information about recommendations.

Contents

ConfidenceScore

The confidence score for this recommendation, indicating the likelihood that the recommendation is accurate.

Type: Double

Valid Range: Minimum value of 0.

Required: No

Description

A description of the recommendation generated by CodeGuru Reviewer for the lines of code between the start line and the end line.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 5000.

Required: No

EndLine

Last line where the recommendation is applicable in the source commit or source branch. For a single line comment the start line and end line values are the same.

Type: Integer

Required: No

FilePath

Name of the file on which a recommendation is provided.

Type: String

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

Required: No

RecommendationCategory

The type of a recommendation.

Type: String

Valid Values: `AWSBestPractices` | `AWSCloudFormationIssues` | `DuplicateCode` | `CodeMaintenanceIssues` | `ConcurrencyIssues` | `InputValidations` | `PythonBestPractices` | `JavaBestPractices` | `ResourceLeaks` | `SecurityIssues` | `CodeInconsistencies`

Required: No

RecommendationId

The recommendation ID that can be used to track the provided recommendations. Later on it can be used to collect the feedback.

Type: String

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

Required: No

RecommendationType

The type of recommendation provided by CodeGuru Reviewer.

Type: String

Valid Values: `Negative` | `Positive`

Required: No

RecommenderId

The unique identifier of the recommender that generated this recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

RuleMetadata

Metadata about a rule. Rule metadata includes an ID, a name, a list of tags, and a short and long description. CodeGuru Reviewer uses rules to analyze code. A rule's recommendation is included in analysis results if code is detected that violates the rule.

Type: RuleMetadata object

Required: No

Severity

The severity of the issue in the code that generated this recommendation.

Type: String

Valid Values: `Info | Low | Medium | High | Critical`

Required: No

StartLine

Start line from where the recommendation is applicable in the source commit or source branch.

Type: Integer

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 C++)
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Repository

Information about an associated AWS CodeCommit repository or an associated repository that is managed by AWS CodeStar Connections (for example, Bitbucket). This `Repository` object is not used if your source code is in an associated GitHub repository.

Contents

Bitbucket

Information about a Bitbucket repository.

Type: ThirdPartySourceRepository object

Required: No

CodeCommit

Information about an AWS CodeCommit repository.

Type: CodeCommitRepository object

Required: No

GitHub

Information about a GitHub repository associated with CodeGuru Reviewer.

Type: GitHubRepository object

Required: No

GitHubEnterpriseServer

Information about a GitHub Enterprise Server repository.

Type: ThirdPartySourceRepository object

Required: No

S3Bucket

Information about a repository in an S3 bucket.

Type: S3Repository 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](#)

RepositoryAnalysis

A code review type that analyzes all code under a specified branch in an associated repository. The associated repository is specified using its ARN when you call CreateCodeReview.

Contents

RepositoryHead

A SourceCodeType that specifies the tip of a branch in an associated repository.

Type: RepositoryHeadSourceCodeType object

Required: No

S3BucketRepository

Information about an associated repository in an S3 bucket. The associated repository contains a source code .zip file and a build artifacts .zip file that contains .jar or .class files.

Type: S3BucketRepository object

Required: No

SourceCodeType

Specifies the source code that is analyzed in a code review.

Type: SourceCodeType 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

RepositoryAssociation

Information about a repository association. The [DescribeRepositoryAssociation](#) operation returns a `RepositoryAssociation` object.

Contents

AssociationArn

The Amazon Resource Name (ARN) identifying the repository association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

AssociationId

The ID of the repository association.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

ConnectionArn

The Amazon Resource Name (ARN) of an AWS CodeStar Connections connection. Its format is `arn:aws:codestar-connections:region-id:aws-account_id:connection/connection-id`. For more information, see [Connection](#) in the *AWS CodeStar Connections API Reference*.

Type: String

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

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

Required: No

CreatedTimeStamp

The time, in milliseconds since the epoch, when the repository association was created.

Type: Timestamp

Required: No

KMSKeyDetails

A `KMSKeyDetails` object that contains:

- The encryption option for this repository association. It is either owned by AWS Key Management Service (KMS) (`AWS_OWNED_CMK`) or customer managed (`CUSTOMER_MANAGED_CMK`).

- The ID of the AWS KMS key that is associated with this repository association.

Type: [KMSKeyDetails](#) object

Required: No

LastUpdatedTimeStamp

The time, in milliseconds since the epoch, when the repository association was last updated.

Type: Timestamp

Required: No

Name

The name of the repository.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: No

Owner

> The owner of the repository. For an AWS CodeCommit repository, this is the AWS account ID of the account that owns the repository. For a GitHub, GitHub Enterprise Server, or Bitbucket repository, this is the username for the account that owns the repository. For an S3 repository, it can be the username or AWS account ID.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: ^\S(.*\S)?$
>
> Required: No

ProviderType

> The provider type of the repository association.
>
> Type: String
>
> Valid Values: `CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket`
>
> Required: No

S3RepositoryDetails

> Specifies the name of an S3 bucket and a `CodeArtifacts` object that contains the S3 object keys for a source code .zip file and for a build artifacts .zip file that contains .jar or .class files.
>
> Type: S3RepositoryDetails object
>
> Required: No

State

> The state of the repository association.
>
> The valid repository association states are:
>
> - **Associated**: The repository association is complete.
> - **Associating**: CodeGuru Reviewer is:
>   - Setting up pull request notifications. This is required for pull requests to trigger a CodeGuru Reviewer review.

> **ⓘ Note**
>
> If your repository `ProviderType` is `GitHub`, `GitHub Enterprise Server`, or `Bitbucket`, CodeGuru Reviewer creates webhooks in your repository to trigger CodeGuru Reviewer reviews. If you delete these webhooks, reviews of code in your repository cannot be triggered.

- Setting up source code access. This is required for CodeGuru Reviewer to securely clone code in your repository.
- **Failed**: The repository failed to associate or disassociate.
- **Disassociating**: CodeGuru Reviewer is removing the repository's pull request notifications and source code access.
- **Disassociated**: CodeGuru Reviewer successfully disassociated the repository. You can create a new association with this repository if you want to review source code in it later. You can control access to code reviews created in anassociated repository with tags after it has been disassociated. For more information, see Using tags to control access to associated repositories in the *Amazon CodeGuru Reviewer User Guide*.

Type: String

Valid Values: `Associated | Associating | Failed | Disassociating | Disassociated`

Required: No

StateReason

A description of why the repository association is in the current state.

Type: String

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

Required: No

See Also

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

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

RepositoryAssociationSummary

Summary information about a repository association. The [ListRepositoryAssociations](#) operation returns a list of RepositoryAssociationSummary objects.

Contents

AssociationArn

The Amazon Resource Name (ARN) of the [RepositoryAssociation](#) object. You can retrieve this ARN by calling [ListRepositoryAssociations](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws:codeguru-reviewer:[^:\s]+:[\d]{12}:association:[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

AssociationId

The repository association ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

ConnectionArn

The Amazon Resource Name (ARN) of an AWS CodeStar Connections connection. Its format is `arn:aws:codestar-connections:region-id:aws-account_id:connection/connection-id`. For more information, see [Connection](#) in the *AWS CodeStar Connections API Reference*.

Type: String

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

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

Required: No

LastUpdatedTimeStamp

The time, in milliseconds since the epoch, since the repository association was last updated.

Type: Timestamp

Required: No

Name

The name of the repository association.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: No

Owner

The owner of the repository. For an AWS CodeCommit repository, this is the AWS account ID of the account that owns the repository. For a GitHub, GitHub Enterprise Server, or Bitbucket repository, this is the username for the account that owns the repository. For an S3 repository, it can be the username or AWS account ID.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: No

ProviderType

The provider type of the repository association.

Type: String

Valid Values: `CodeCommit | GitHub | Bitbucket | GitHubEnterpriseServer | S3Bucket`

Required: No

State

The state of the repository association.

The valid repository association states are:

- **Associated**: The repository association is complete.
- **Associating**: CodeGuru Reviewer is:
  - Setting up pull request notifications. This is required for pull requests to trigger a CodeGuru Reviewer review.

    > **ⓘ Note**
    >
    > If your repository `ProviderType` is `GitHub`, `GitHub Enterprise Server`, or `Bitbucket`, CodeGuru Reviewer creates webhooks in your repository to trigger CodeGuru Reviewer reviews. If you delete these webhooks, reviews of code in your repository cannot be triggered.

  - Setting up source code access. This is required for CodeGuru Reviewer to securely clone code in your repository.
- **Failed**: The repository failed to associate or disassociate.
- **Disassociating**: CodeGuru Reviewer is removing the repository's pull request notifications and source code access.
- **Disassociated**: CodeGuru Reviewer successfully disassociated the repository. You can create a new association with this repository if you want to review source code in it later. You can control access to code reviews created in anassociated repository with tags after it has been disassociated. For more information, see [Using tags to control access to associated repositories](#) in the *Amazon CodeGuru Reviewer User Guide*.

Type: String

Valid Values: `Associated | Associating | Failed | Disassociating | Disassociated`

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](#)

RepositoryHeadSourceCodeType

A [SourceCodeType](#) that specifies the tip of a branch in an associated repository.

Contents

BranchName

The name of the branch in an associated repository. The `RepositoryHeadSourceCodeType` specifies the tip of this branch.

Type: String

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

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](#)

RequestMetadata

Metadata that is associated with a code review. This applies to both pull request and repository analysis code reviews.

Contents

EventInfo

Information about the event associated with a code review.

Type: EventInfo object

Required: No

Requester

An identifier, such as a name or account ID, that is associated with the requester. The Requester is used to capture the author/actor name of the event request.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

RequestId

The ID of the request. This is required for a pull request code review.

Type: String

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

Pattern: \S+

Required: No

VendorName

The name of the repository vendor used to upload code to an S3 bucket for a CI/CD code review. For example, if code and artifacts are uploaded to an S3 bucket for a CI/CD code review

by GitHub scripts from a GitHub repository, then the repository association's `ProviderType` is S3Bucket and the CI/CD repository vendor name is GitHub. For more information, see the definition for `ProviderType` in [RepositoryAssociation](#).

Type: String

Valid Values: `GitHub | GitLab | NativeS3`

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](#)

RuleMetadata

Metadata about a rule. Rule metadata includes an ID, a name, a list of tags, and a short and long description. CodeGuru Reviewer uses rules to analyze code. A rule's recommendation is included in analysis results if code is detected that violates the rule.

Contents

LongDescription

A long description of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: ^\S(.*\S)?$

Required: No

RuleId

The ID of the rule.

Type: String

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

Pattern: ^\S+\/[a-zA-Z0-9-]+@v\d+\.\d+$

Required: No

RuleName

The name of the rule.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: No

RuleTags

Tags that are associated with the rule.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

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

Pattern: ^\S(.*\S)?$

Required: No

ShortDescription

A short description of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

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](#)

S3BucketRepository

Information about an associated repository in an S3 bucket. The associated repository contains a source code .zip file and a build artifacts .zip file that contains .jar or .class files.

Contents

Name

The name of the repository when the `ProviderType` is S3Bucket.

Type: String

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

Pattern: `^\S[\w.-]*$`

Required: Yes

Details

An S3RepositoryDetails object that specifies the name of an S3 bucket and a `CodeArtifacts` object. The `CodeArtifacts` object includes the S3 object keys for a source code .zip file and for a build artifacts .zip file.

Type: [S3RepositoryDetails](#) 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](#)

S3Repository

Information about a repository in an S3 bucket.

Contents

BucketName

The name of the S3 bucket used for associating a new S3 repository. It must begin with `codeguru-reviewer-`.

Type: String

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

Pattern: `(?=^.{3,63}$)(?!^(\\d+\\.)+\\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\
\-]*[a-z0-9])\\.)*([a-z0-9]|[a-z0-9][a-z0-9\\-]*[a-z0-9])$)`

Required: Yes

Name

The name of the repository in the S3 bucket.

Type: String

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

Pattern: `^\S[\w.-]*$`

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](#)

S3RepositoryDetails

Specifies the name of an S3 bucket and a `CodeArtifacts` object that contains the S3 object keys for a source code .zip file and for a build artifacts .zip file that contains .jar or .class files.

Contents

BucketName

The name of the S3 bucket used for associating a new S3 repository. It must begin with `codeguru-reviewer-`.

Type: String

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

Pattern: `(?=^.{3,63}$)(?!^(\\d+\\.)+\\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\`
`\-]*[a-z0-9])\\.)*([a-z0-9]|[a-z0-9][a-z0-9\\-]*[a-z0-9])$)`

Required: No

CodeArtifacts

A `CodeArtifacts` object. The `CodeArtifacts` object includes the S3 object key for a source code .zip file and for a build artifacts .zip file that contains .jar or .class files.

Type: [CodeArtifacts](#) 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](#)

SourceCodeType

Specifies the source code that is analyzed in a code review.

Contents

BranchDiff

A type of [SourceCodeType](#) that specifies a source branch name and a destination branch name in an associated repository.

Type: [BranchDiffSourceCodeType](#) object

Required: No

CommitDiff

A [SourceCodeType](#) that specifies a commit diff created by a pull request on an associated repository.

Type: [CommitDiffSourceCodeType](#) object

Required: No

RepositoryHead

A [SourceCodeType](#) that specifies the tip of a branch in an associated repository.

Type: [RepositoryHeadSourceCodeType](#) object

Required: No

RequestMetadata

Metadata that is associated with a code review. This applies to any type of code review supported by CodeGuru Reviewer. The `RequestMetadaa` field captures any event metadata. For example, it might capture metadata associated with an event trigger, such as a push or a pull request.

Type: [RequestMetadata](#) object

Required: No

S3BucketRepository

Information about an associated repository in an S3 bucket that includes its name and an `S3RepositoryDetails` object. The `S3RepositoryDetails` object includes the name of an S3 bucket, an S3 key for a source code .zip file, and an S3 key for a build artifacts .zip file. `S3BucketRepository` is required in [SourceCodeType](#) for S3BucketRepository based code reviews.

Type: [S3BucketRepository](#) 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](#)

ThirdPartyRepository

Information about a third-party repository that can be connected to CodeGuru Reviewer.

Contents

ConnectionToken

The connection token used to access the third-party repository.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 2048.

Pattern: \S+

Required: Yes

Name

The name of the third-party repository.

Type: String

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

Pattern: ^\S[\w.-]*$

Required: Yes

Owner

The owner of the third-party repository.

Type: String

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

Pattern: ^\S(.*\S)?$

Required: Yes

IsEnabled

Indicates whether the third-party repository is enabled for code analysis.

Type: Boolean

Required: No

See Also

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

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

ThirdPartySourceRepository

Information about a third-party source repository connected to CodeGuru Reviewer.

Contents

ConnectionArn

The Amazon Resource Name (ARN) of an AWS CodeStar Connections connection. Its format is `arn:aws:codestar-connections:region-id:aws-account_id:connection/connection-id`. For more information, see [Connection](#) in the *AWS CodeStar Connections API Reference*.

Type: String

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

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

Required: Yes

Name

The name of the third party source repository.

Type: String

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

Pattern: `^\S(.*\S)?$`

Required: Yes

Owner

The owner of the repository. For a GitHub, GitHub Enterprise, or Bitbucket repository, this is the username for the account that owns the repository. For an S3 repository, this can be the username or AWS account ID

Type: String

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

Pattern: `^\S(.*\S)?$`

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](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400