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Welcome

AWS CodeBuild is a fully managed build service in the cloud. AWS CodeBuild compiles your source code, runs unit tests, and produces artifacts that are ready to deploy. AWS CodeBuild eliminates the need to provision, manage, and scale your own build servers. It provides prepackaged build environments for the most popular programming languages and build tools, such as Apache Maven, Gradle, and more. You can also fully customize build environments in AWS CodeBuild to use your own build tools. AWS CodeBuild scales automatically to meet peak build requests, and you pay only for the build time you consume. For more information about AWS CodeBuild, see the AWS CodeBuild User Guide.

AWS CodeBuild supports these operations:

- **BatchDeleteBuilds**: Deletes one or more builds.
- **BatchGetProjects**: Gets information about one or more build projects. A build project defines how AWS CodeBuild will run a build. This includes information such as where to get the source code to build, the build environment to use, the build commands to run, and where to store the build output. A build environment represents a combination of operating system, programming language runtime, and tools that AWS CodeBuild will use to run a build. Also, you can add tags to build projects to help manage your resources and costs.
- **CreateProject**: Creates a build project.
- **CreateWebhook**: For an existing AWS CodeBuild build project that has its source code stored in a GitHub repository, enables AWS CodeBuild to begin automatically rebuilding the source code every time a code change is pushed to the repository.
- **DeleteProject**: Deletes a build project.
- **DeleteWebhook**: For an existing AWS CodeBuild build project that has its source code stored in a GitHub repository, stops AWS CodeBuild from automatically rebuilding the source code every time a code change is pushed to the repository.
- **ListProjects**: Gets a list of build project names, with each build project name representing a single build project.
- **UpdateProject**: Changes the settings of an existing build project.
- **BatchGetBuilds**: Gets information about one or more builds.
- **ListBuilds**: Gets a list of build IDs, with each build ID representing a single build.
- **ListBuildsForProject**: Gets a list of build IDs for the specified build project, with each build ID representing a single build.
- **StartBuild**: Starts running a build.
- **StopBuild**: Attempts to stop running a build.
- **ListCuratedEnvironmentImages**: Gets information about Docker images that are managed by AWS CodeBuild.

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# Actions

The following actions are supported:

- BatchDeleteBuilds (p. 3)
- BatchGetBuilds (p. 5)
- BatchGetProjects (p. 8)
- CreateProject (p. 11)
- CreateWebhook (p. 16)
- DeleteProject (p. 18)
- DeleteWebhook (p. 20)
- InvalidateProjectCache (p. 22)
- ListBuilds (p. 24)
- ListBuildsForProject (p. 26)
- ListCuratedEnvironmentImages (p. 29)
- ListProjects (p. 31)
- StartBuild (p. 34)
- StopBuild (p. 38)
- UpdateProject (p. 41)
BatchDeleteBuilds

Deletes one or more builds.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**ids (p. 3)**

The IDs of the builds to delete.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: Yes

Response Syntax

```
{
  "buildsDeleted": [ "string" ],
  "buildsNotDeleted": [ {
    "id": "string",
    "statusCode": "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.

**buildsDeleted (p. 3)**

The IDs of the builds that were successfully deleted.

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

Length Constraints: Minimum length of 1.

buildsNotDeleted (p. 3)

Information about any builds that could not be successfully deleted.

Type: Array of $\texttt{BuildNotDeleted}$ (p. 52) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

InvalidInputException

The input value that was provided is not valid.

HTTP Status Code: 400

See Also

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

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

Gets information about builds.

**Request Syntax**

```json
{
  "ids": [ "string" ]
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**ids (p. 5)**

The IDs of the builds.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: Yes

**Response Syntax**

```json
{
  "builds": [
    {
      "arn": "string",
      "artifacts": {
        "location": "string",
        "md5sum": "string",
        "sha256sum": "string"
      },
      "buildComplete": boolean,
      "buildStatus": "string",
      "cache": {
        "location": "string",
        "type": "string"
      },
      "currentPhase": "string",
      "endTime": number,
      "environment": {
        "computeType": "string",
        "environmentVariables": [
          {
            "name": "string",
            "type": "string",
            "value": "string"
          }
        ]
      }
    }
  ]
}
```
Response Elements

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

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

**builds (p. 5)**

Information about the requested builds.
Type: Array of Build (p. 47) objects

**buildsNotFound (p. 5)**

The IDs of builds for which information could not be found.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 80)](#).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

## See Also

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

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

Gets information about build projects.

Request Syntax

```json
{
  "names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**
In the following list, the required parameters are described first.

**names (p. 8)**

The names of the build projects.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: Yes

Response Syntax

```json
{
  "projects": [ 
    {
      "arn": "string",
      "artifacts": {
        "location": "string",
        "name": "string",
        "namespaceType": "string",
        "packaging": "string",
        "path": "string",
        "type": "string"
      },
      "badge": { 
        "badgeEnabled": boolean,
        "badgeRequestUrl": "string"
      },
      "cache": { 
        "location": "string",
        "type": "string"
      },
      "created": number,
      "description": "string",
      "encryptionKey": "string",
      "..." // other fields
    }
  ]
}
```
AWS CodeBuild API Reference
Response Elements

"environment": {
  "computeType": "string",
  "environmentVariables": [
    {
      "name": "string",
      "type": "string",
      "value": "string"
    }
  ],
  "image": "string",
  "privilegedMode": boolean,
  "type": "string"
},
"lastModified": number,
"name": "string",
"serviceRole": "string",
"source": {
  "auth": {
    "resource": "string",
    "type": "string"
  },
  "buildspec": "string",
  "location": "string",
  "type": "string"
},
"tags": [
  {
    "key": "string",
    "value": "string"
  }
],
"timeoutInMinutes": number,
"vpcConfig": {
  "securityGroupIds": [ "string" ],
  "subnets": [ "string" ],
  "vpcId": "string"
},
"webhook": {
  "url": "string"
}
"
"projectsNotFound": [ "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.

projects (p. 8)

Information about the requested build projects.

Type: Array of Project (p. 62) objects

projectsNotFound (p. 8)

The names of build projects for which information could not be found.

Type: Array of strings

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

InvalidInputException

The input value that was provided is not valid.

HTTP Status Code: 400

See Also

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

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

Creates a build project.

Request Syntax

```json
{
    "artifacts": {
        "location": "string",
        "name": "string",
        "namespaceType": "string",
        "packaging": "string",
        "path": "string",
        "type": "string"
    },
    "badgeEnabled": boolean,
    "cache": {
        "location": "string",
        "type": "string"
    },
    "description": "string",
    "encryptionKey": "string",
    "environment": {
        "computeType": "string",
        "environmentVariables": [
            {
                "name": "string",
                "type": "string",
                "value": "string"
            }
        ],
        "image": "string",
        "privilegedMode": boolean,
        "type": "string"
    },
    "name": "string",
    "serviceRole": "string",
    "source": {
        "auth": {
            "resource": "string",
            "type": "string"
        },
        "buildspec": "string",
        "location": "string",
        "type": "string"
    },
    "tags": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "timeoutInMinutes": number,
    "vpcConfig": {
        "securityGroupIds": [ "string" ],
        "subnets": [ "string" ],
        "vpcId": "string"
    }
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**
In the following list, the required parameters are described first.

**artifacts** (p. 11)
Information about the build output artifacts for the build project.
Type: ProjectArtifacts (p. 65) object
Required: Yes

**environment** (p. 11)
Information about the build environment for the build project.
Type: ProjectEnvironment (p. 70) object
Required: Yes

**name** (p. 11)
The name of the build project.
Type: String
Pattern: `^[A-Za-z0-9][A-Za-z0-9\-_]{1,254}$`
Required: Yes

**source** (p. 11)
Information about the build input source code for the build project.
Type: ProjectSource (p. 72) object
Required: Yes

**badgeEnabled** (p. 11)
Set this to true to generate a publicly-accessible URL for your project's build badge.
Type: Boolean
Required: No

**cache** (p. 11)
Stores recently used information so that it can be quickly accessed at a later time.
Type: ProjectCache (p. 69) object
Required: No

**description** (p. 11)
A description that makes the build project easy to identify.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 255.
Required: No

**encryptionKey (p. 11)**

The AWS Key Management Service (AWS KMS) customer master key (CMK) to be used for encrypting the build output artifacts.

You can specify either the CMK's Amazon Resource Name (ARN) or, if available, the CMK's alias (using the format `alias/alias-name`).

Type: String
Length Constraints: Minimum length of 1.
Required: No

**serviceRole (p. 11)**

The ARN of the AWS Identity and Access Management (IAM) role that enables AWS CodeBuild to interact with dependent AWS services on behalf of the AWS account.

Type: String
Length Constraints: Minimum length of 1.
Required: No

**tags (p. 11)**

A set of tags for this build project.
These tags are available for use by AWS services that support AWS CodeBuild build project tags.

Type: Array of [Tag (p. 75)] objects
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Required: No

**timeoutInMinutes (p. 11)**

How long, in minutes, from 5 to 480 (8 hours), for AWS CodeBuild to wait until timing out any build that has not been marked as completed. The default is 60 minutes.

Type: Integer
Required: No

**vpcConfig (p. 11)**

VpcConfig enables AWS CodeBuild to access resources in an Amazon VPC.

Type: VpcConfig (p. 76) object
Required: No

---

**Response Syntax**

```
{
  "project": {
    "arn": "string",
    "artifacts": {
      ...
    }
  }
}
```


**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.

**project (p. 13)**

Information about the build project that was created.

Type: Project (p. 62) object

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**AccountLimitExceededException**

An AWS service limit was exceeded for the calling AWS account.

HTTP Status Code: 400

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceAlreadyExistsException**

The specified AWS resource cannot be created, because an AWS resource with the same settings already exists.

HTTP Status Code: 400

## See Also

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

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

For an existing AWS CodeBuild build project that has its source code stored in a GitHub repository, enables AWS CodeBuild to begin automatically rebuilding the source code every time a code change is pushed to the repository.

Important
If you enable webhooks for an AWS CodeBuild project, and the project is used as a build step in AWS CodePipeline, then two identical builds will be created for each commit. One build is triggered through webhooks, and one through AWS CodePipeline. Because billing is on a per-build basis, you will be billed for both builds. Therefore, if you are using AWS CodePipeline, we recommend that you disable webhooks in CodeBuild. In the AWS CodeBuild console, clear the Webhook box. For more information, see step 9 in Change a Build Project's Settings.

Request Syntax

```
{
  "projectName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

Note
In the following list, the required parameters are described first.

**projectName (p. 16)**

The name of the build project.

Type: String


Pattern: [A-Za-z0-9][A-Za-z0-9-\_]{1,254}

Required: Yes

Response Syntax

```
{
  "webhook": {
    "url": "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.
**webhook (p. 16)**

Information about a webhook in GitHub that connects repository events to a build project in AWS CodeBuild.

Type: Webhook (p. 77) object

---

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**OAuthProviderException**

There was a problem with the underlying OAuth provider.

HTTP Status Code: 400

**ResourceAlreadyExistsException**

The specified AWS resource cannot be created, because an AWS resource with the same settings already exists.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

---

## See Also

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

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

Deletes a build project.

Request Syntax

```json
{
   "name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**name (p. 18)**

The name of the build project.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

See Also

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

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

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

For an existing AWS CodeBuild build project that has its source code stored in a GitHub repository, stops AWS CodeBuild from automatically rebuilding the source code every time a code change is pushed to the repository.

Request Syntax

```json
{
   "projectName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**projectName (p. 20)**

The name of the build project.

Type: String


Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{1,254}`

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**OAuthProviderException**

There was a problem with the underlying OAuth provider.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.
HTTP Status Code: 400

See Also

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

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

Resets the cache for a project.

**Request Syntax**

```json
{
   "projectName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**projectName (p. 22)**

The name of the build project that the cache will be reset for.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

**Response Elements**

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

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

**See Also**

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

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

Gets a list of build IDs, with each build ID representing a single build.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**nextToken (p. 24)**

During a previous call, if there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a **next token**. To get the next batch of items in the list, call this operation again, adding the next token to the call. To get all of the items in the list, keep calling this operation with each subsequent next token that is returned, until no more next tokens are returned.

Type: String

Required: No

**sortOrder (p. 24)**

The order to list build IDs. Valid values include:

- **ASCENDING**: List the build IDs in ascending order by build ID.
- **DESCENDING**: List the build IDs in descending order by build ID.

Type: String

Valid Values: ASCENDING | DESCENDING

Required: No

Response Syntax

```
{
  "ids": [ "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.

**ids (p. 24)**

A list of build IDs, with each build ID representing a single build.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

**nextToken (p. 24)**

If there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a *next token*. To get the next batch of items in the list, call this operation again, adding the next token to the call.

Type: String

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 80)](#).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

### See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)
ListBuildsForProject

Gets a list of build IDs for the specified build project, with each build ID representing a single build.

Request Syntax

```json
{
  "nextToken": "string",
  "projectName": "string",
  "sortOrder": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**
In the following list, the required parameters are described first.

**projectName (p. 26)**

The name of the build project.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

**nextToken (p. 26)**

During a previous call, if there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a *next token*. To get the next batch of items in the list, call this operation again, adding the next token to the call. To get all of the items in the list, keep calling this operation with each subsequent next token that is returned, until no more next tokens are returned.

Type: String

Required: No

**sortOrder (p. 26)**

The order to list build IDs. Valid values include:

- **ASCENDING**: List the build IDs in ascending order by build ID.
- **DESCENDING**: List the build IDs in descending order by build ID.

Type: String

Valid Values: ASCENDING | DESCENDING

Required: No

Response Syntax

```json
{
}
```
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.

**ids (p. 26)**

A list of build IDs for the specified build project, with each build ID representing a single build.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

**nextToken (p. 26)**

If there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a *next token*. To get the next batch of items in the list, call this operation again, adding the next token to the call.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

See Also

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

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

Gets information about Docker images that are managed by AWS CodeBuild.

Response Syntax

```
{
    "platforms": [
        {
            "languages": [
                {
                    "images": [
                        {
                            "description": "string",
                            "name": "string",
                            "versions": [ "string" ]
                        }
                    ],
                    "language": "string"
                }
            ],
            "platform": "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.

**platforms (p. 29)**

Information about supported platforms for Docker images that are managed by AWS CodeBuild.

Type: Array of EnvironmentPlatform (p. 57) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

See Also

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

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

Gets a list of build project names, with each build project name representing a single build project.

Request Syntax

```json
{
  "nextToken": "string",
  "sortBy": "string",
  "sortOrder": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**nextToken (p. 31)**

During a previous call, if there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a next token. To get the next batch of items in the list, call this operation again, adding the next token to the call. To get all of the items in the list, keep calling this operation with each subsequent next token that is returned, until no more next tokens are returned.

Type: String

Length Constraints: Minimum length of 1.

Required: No

**sortBy (p. 31)**

The criterion to be used to list build project names. Valid values include:

- **CREATED_TIME**: List the build project names based on when each build project was created.
- **LAST_MODIFIED_TIME**: List the build project names based on when information about each build project was last changed.
- **NAME**: List the build project names based on each build project's name.

Use `sortOrder` to specify in what order to list the build project names based on the preceding criteria.

Type: String

Valid Values: NAME | CREATED_TIME | LAST_MODIFIED_TIME

Required: No

**sortOrder (p. 31)**

The order in which to list build projects. Valid values include:

- **ASCENDING**: List the build project names in ascending order.
- **DESCENDING**: List the build project names in descending order.
Use `sortBy` to specify the criterion to be used to list build project names.

Type: String

Valid Values: ASCENDING | DESCENDING

Required: No

Response Syntax

```json
{
  "nextToken": "string",
  "projects": [ "string" ]
}
```

Response Elements

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

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

**nextToken (p. 32)**

If there are more than 100 items in the list, only the first 100 items are returned, along with a unique string called a `next token`. To get the next batch of items in the list, call this operation again, adding the next token to the call.

Type: String

**projects (p. 32)**

The list of build project names, with each build project name representing a single build project.

Type: Array of strings

- Array Members: Minimum number of 1 item. Maximum number of 100 items.
- Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
See Also

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

Starts running a build.

Request Syntax

```json
{
    "artifactsOverride": {
        "location": "string",
        "name": "string",
        "namespaceType": "string",
        "packaging": "string",
        "path": "string",
        "type": "string"
    },
    "buildspecOverride": "string",
    "environmentVariablesOverride": [
        {
            "name": "string",
            "type": "string",
            "value": "string"
        }
    ],
    "projectName": "string",
    "sourceVersion": "string",
    "timeoutInMinutesOverride": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**projectName (p. 34)**

The name of the build project to start running a build.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

**artifactsOverride (p. 34)**

Build output artifact settings that override, for this build only, the latest ones already defined in the build project.

Type: ProjectArtifacts (p. 65) object

Required: No

**buildspecOverride (p. 34)**

A build spec declaration that overrides, for this build only, the latest one already defined in the build project.
Type: String
Required: No

**environmentVariablesOverride (p. 34)**

A set of environment variables that overrides, for this build only, the latest ones already defined in the build project.

Type: Array of EnvironmentVariable (p. 58) objects

Required: No

**sourceVersion (p. 34)**

A version of the build input to be built, for this build only. If not specified, the latest version will be used. If specified, must be one of:

- For AWS CodeCommit: the commit ID to use.
- For GitHub: the commit ID, pull request ID, branch name, or tag name that corresponds to the version of the source code you want to build. If a pull request ID is specified, it must use the format `pr/pull-request-ID` (for example `pr/25`). If a branch name is specified, the branch's HEAD commit ID will be used. If not specified, the default branch's HEAD commit ID will be used.
- For Bitbucket: the commit ID, branch name, or tag name that corresponds to the version of the source code you want to build. If a branch name is specified, the branch's HEAD commit ID will be used. If not specified, the default branch's HEAD commit ID will be used.
- For Amazon Simple Storage Service (Amazon S3): the version ID of the object representing the build input ZIP file to use.

Type: String
Required: No

**timeoutInMinutesOverride (p. 34)**

The number of build timeout minutes, from 5 to 480 (8 hours), that overrides, for this build only, the latest setting already defined in the build project.

Type: Integer


Required: No

**Response Syntax**

```json
{
    "build": {
        "arn": "string",
        "artifacts": {
            "location": "string",
            "md5sum": "string",
            "sha256sum": "string"
        },
        "buildComplete": boolean,
        "buildStatus": "string",
        "cache": {
            "location": "string",
            "type": "string"
        },
        "currentPhase": "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.

**build (p. 35)**

Information about the build to be run.

Type: *Build (p. 47) object*

### Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**AccountLimitExceededException**

An AWS service limit was exceeded for the calling AWS account.

HTTP Status Code: 400

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

### See Also

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

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

Attempts to stop running a build.

Request Syntax

```
{
  "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

**Note**

In the following list, the required parameters are described first.

**id (p. 38)**

The ID of the build.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Response Syntax

```
{
  "build": {
    "arn": "string",
    "artifacts": {
      "location": "string",
      "md5sum": "string",
      "sha256sum": "string"
    },
    "buildComplete": boolean,
    "buildStatus": "string",
    "cache": {
      "location": "string",
      "type": "string"
    },
    "currentPhase": "string",
    "endTime": number,
    "environment": {
      "computeType": "string",
      "environmentVariables": [
        {
          "name": "string",
          "type": "string",
          "value": "string"
        }
      ]
    }
  }
}
```
Response Elements

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

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

**build (p. 38)**

Information about the build.

Type: Build (p. 47) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 80).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

See Also

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

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

Changes the settings of a build project.

Request Syntax

```json
{
    "artifacts": {
        "location": "string",
        "name": "string",
        "namespaceType": "string",
        "packaging": "string",
        "path": "string",
        "type": "string"
    },
    "badgeEnabled": boolean,
    "cache": {
        "location": "string",
        "type": "string"
    },
    "description": "string",
    "encryptionKey": "string",
    "environment": {
        "computeType": "string",
        "environmentVariables": [
            {
                "name": "string",
                "type": "string",
                "value": "string"
            }
        ],
        "image": "string",
        "privilegedMode": boolean,
        "type": "string"
    },
    "name": "string",
    "serviceRole": "string",
    "source": {
        "auth": {
            "resource": "string",
            "type": "string"
        },
        "buildspec": "string",
        "location": "string",
        "type": "string"
    },
    "tags": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "timeoutInMinutes": number,
    "vpcConfig": {
        "securityGroupIds": [ "string" ],
        "subnets": [ "string" ],
        "vpcId": "string"
    }
}
```
Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 78).

The request accepts the following data in JSON format.

Note
In the following list, the required parameters are described first.

name (p. 41)
The name of the build project.

Note
You cannot change a build project's name.

Type: String
Length Constraints: Minimum length of 1.
Required: Yes

artifacts (p. 41)
Information to be changed about the build output artifacts for the build project.

Type: ProjectArtifacts (p. 65) object
Required: No

badgeEnabled (p. 41)
Set this to true to generate a publicly-accessible URL for your project's build badge.

Type: Boolean
Required: No

cache (p. 41)
Stores recently used information so that it can be quickly accessed at a later time.

Type: ProjectCache (p. 69) object
Required: No

description (p. 41)
A new or replacement description of the build project.

Type: String
Length Constraints: Minimum length of 0. Maximum length of 255.
Required: No

encryptionKey (p. 41)
The replacement AWS Key Management Service (AWS KMS) customer master key (CMK) to be used for encrypting the build output artifacts.

You can specify either the CMK's Amazon Resource Name (ARN) or, if available, the CMK's alias (using the format alias/alias-name).

Type: String
Length Constraints: Minimum length of 1.
**Response Syntax**

```json
{
  "project": {
    "arn": "string",
    "artifacts": {}
  }
}
```
"location": "string",
"name": "string",
"namespaceType": "string",
"packaging": "string",
"path": "string",
"type": "string"
},
"badge": {
  "badgeEnabled": boolean,
  "badgeRequestUrl": "string"
},
"cache": {
  "location": "string",
  "type": "string"
},
"created": number,
"description": "string",
"encryptionKey": "string",
"environment": {
  "computeType": "string",
  "environmentVariables": [
    {
      "name": "string",
      "type": "string",
      "value": "string"
    }
  ],
  "image": "string",
  "privilegedMode": boolean,
  "type": "string"
},
"lastModified": number,
"name": "string",
"serviceRole": "string",
"source": {
  "auth": {
    "resource": "string",
    "type": "string"
  },
  "buildspec": "string",
  "location": "string",
  "type": "string"
},
"tags": [
  {
    "key": "string",
    "value": "string"
  }
],
"timeoutInMinutes": number,
"vpcConfig": {
  "securityGroupIds": [ "string" ],
  "subnets": [ "string" ],
  "vpcId": "string"
},
"webhook": {
  "url": "string"
}
The following data is returned in JSON format by the service.

**project (p. 43)**

Information about the build project that was changed.

Type: `Project (p. 62)` object

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 80)](https://docs.aws.amazon.com/codebuild/latest/APIReference/Errors.html).

**InvalidInputException**

The input value that was provided is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified AWS resource cannot be found.

HTTP Status Code: 400

### See Also

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

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

The CodeBuild 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:

- Build (p. 47)
- BuildArtifacts (p. 51)
- BuildNotDeleted (p. 52)
- BuildPhase (p. 53)
- EnvironmentImage (p. 55)
- EnvironmentLanguage (p. 56)
- EnvironmentPlatform (p. 57)
- EnvironmentVariable (p. 58)
- LogsLocation (p. 59)
- NetworkInterface (p. 60)
- PhaseContext (p. 61)
- Project (p. 62)
- ProjectArtifacts (p. 65)
- ProjectBadge (p. 68)
- ProjectCache (p. 69)
- ProjectEnvironment (p. 70)
- ProjectSource (p. 72)
- SourceAuth (p. 74)
- Tag (p. 75)
- VpcConfig (p. 76)
- Webhook (p. 77)
Build

Information about a build.

Contents

Note
In the following list, the required parameters are described first.

arn
The Amazon Resource Name (ARN) of the build.
Type: String
Length Constraints: Minimum length of 1.
Required: No

artifacts
Information about the output artifacts for the build.
Type: BuildArtifacts (p. 51) object
Required: No

buildComplete
Whether the build has finished. True if completed; otherwise, false.
Type: Boolean
Required: No

buildStatus
The current status of the build. Valid values include:
• FAILED: The build failed.
• FAULT: The build faulted.
• IN_PROGRESS: The build is still in progress.
• STOPPED: The build stopped.
• SUCCEEDED: The build succeeded.
• TIMED_OUT: The build timed out.
Type: String
Valid Values: SUCCEEDED | FAILED | FAULT | TIMED_OUT | IN_PROGRESS | STOPPED
Required: No

cache
Information about the cache for the build.
Type: ProjectCache (p. 69) object
Required: No

currentPhase
The current build phase.
**endTime**

When the build process ended, expressed in Unix time format.

Type: Timestamp

**environment**

Information about the build environment for this build.

Type: `ProjectEnvironment (p. 70)` object

**id**

The unique ID for the build.

Type: String

Length Constraints: Minimum length of 1.

**initiator**

The entity that started the build. Valid values include:
- If AWS CodePipeline started the build, the pipeline's name (for example, `codepipeline/my-demo-pipeline`).
- If an AWS Identity and Access Management (IAM) user started the build, the user's name (for example `MyUserName`).
- If the Jenkins plugin for AWS CodeBuild started the build, the string `CodeBuild-Jenkins-Plugin`.

Type: String

**logs**

Information about the build's logs in Amazon CloudWatch Logs.

Type: `LogsLocation (p. 59)` object

**networkInterface**

Describes a network interface.

Type: `NetworkInterface (p. 60)` object

**phases**

Information about all previous build phases that are completed and information about any current build phase that is not yet complete.

Type: Array of `BuildPhase (p. 53)` objects
Required: No

**projectName**

The name of the build project.

Type: String

Length Constraints: Minimum length of 1.

Required: No

**source**

Information about the source code to be built.

Type: ProjectSource (p. 72) object

Required: No

**sourceVersion**

Any version identifier for the version of the source code to be built.

Type: String

Length Constraints: Minimum length of 1.

Required: No

**startTime**

When the build process started, expressed in Unix time format.

Type: Timestamp

Required: No

**timeoutInMinutes**

How long, in minutes, for AWS CodeBuild to wait before timing out this build if it does not get marked as completed.

Type: Integer

Required: No

**vpcConfig**

If your AWS CodeBuild project accesses resources in an Amazon VPC, you provide this parameter that identifies the VPC ID and the list of security group IDs and subnet IDs. The security groups and subnets must belong to the same VPC. You must provide at least one security group and one subnet ID.

Type: VpcConfig (p. 76) 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 Go
See Also

- AWS SDK for Java
- AWS SDK for Ruby V2
BuildArtifacts

Information about build output artifacts.

Contents

Note
In the following list, the required parameters are described first.

location

Information about the location of the build artifacts.

Type: String
Required: No

md5sum

The MD5 hash of the build artifact.

You can use this hash along with a checksum tool to confirm both file integrity and authenticity.

Note
This value is available only if the build project's packaging value is set to ZIP.

Type: String
Required: No

sha256sum

The SHA-256 hash of the build artifact.

You can use this hash along with a checksum tool to confirm both file integrity and authenticity.

Note
This value is available only if the build project's packaging value is set to ZIP.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
BuildNotDeleted

Information about a build that could not be successfully deleted.

## Contents

### Note

In the following list, the required parameters are described first.

### id

The ID of the build that could not be successfully deleted.

Type: String

Length Constraints: Minimum length of 1.

Required: No

### statusCode

Additional information about the build that could not be successfully deleted.

Type: String

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
BuildPhase

Information about a stage for a build.

Contents

Note
In the following list, the required parameters are described first.

contexts
Additional information about a build phase, especially to help troubleshoot a failed build.

Type: Array of PhaseContext (p. 61) objects

Required: No
durationInSeconds
How long, in seconds, between the starting and ending times of the build's phase.

Type: Long

Required: No
dendTime
When the build phase ended, expressed in Unix time format.

Type: Timestamp

Required: No
phaseStatus
The current status of the build phase. Valid values include:
- FAILED: The build phase failed.
- FAULT: The build phase faulted.
- IN_PROGRESS: The build phase is still in progress.
- STOPPED: The build phase stopped.
- SUCCEEDED: The build phase succeeded.
- TIMED_OUT: The build phase timed out.

Type: String

Valid Values: SUCCEEDED | FAILED | FAULT | TIMED_OUT | IN_PROGRESS | STOPPED

Required: No

phaseType
The name of the build phase. Valid values include:
- BUILD: Core build activities typically occur in this build phase.
- COMPLETED: The build has been completed.
- DOWNLOAD_SOURCE: Source code is being downloaded in this build phase.
- FINALIZING: The build process is completing in this build phase.
- INSTALL: Installation activities typically occur in this build phase.
- POST_BUILD: Post-build activities typically occur in this build phase.
• PRE_BUILD: Pre-build activities typically occur in this build phase.
• PROVISIONING: The build environment is being set up.
• SUBMITTED: The build has been submitted.
• UPLOAD_ARTIFACTS: Build output artifacts are being uploaded to the output location.

Type: String

Valid Values: SUBMITTED | PROVISIONING | DOWNLOAD_SOURCE | INSTALL | PRE_BUILD | BUILD | POST_BUILD | UPLOAD_ARTIFACTS | FINALIZING | COMPLETED

Required: No

startTime

When the build phase started, expressed in Unix time format.

Type: Timestamp

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 Go
• AWS SDK for Java
• AWS SDK for Ruby V2
EnvironmentImage

Information about a Docker image that is managed by AWS CodeBuild.

Contents

Note
In the following list, the required parameters are described first.

description
The description of the Docker image.
Type: String
Required: No

name
The name of the Docker image.
Type: String
Required: No

versions
A list of environment image versions.
Type: Array of strings
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
EnvironmentLanguage

A set of Docker images that are related by programming language and are managed by AWS CodeBuild.

Contents

**Note**
In the following list, the required parameters are described first.

**images**
The list of Docker images that are related by the specified programming language.

Type: Array of EnvironmentImage (p. 55) objects

Required: No

**language**
The programming language for the Docker images.

Type: String

Valid Values: JAVA | PYTHON | NODE_JS | RUBY | GOLANG | DOCKER | ANDROID | DOTNET | BASE

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
**EnvironmentPlatform**

A set of Docker images that are related by platform and are managed by AWS CodeBuild.

**Contents**

**Note**
In the following list, the required parameters are described first.

**languages**

The list of programming languages that are available for the specified platform.

Type: Array of *EnvironmentLanguage (p. 56)* objects

Required: No

**platform**

The platform's name.

Type: String

Valid Values: DEBIAN | AMAZON_LINUX | UBUNTU

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
EnvironmentVariable

Information about an environment variable for a build project or a build.

Contents

Note
In the following list, the required parameters are described first.

name
The name or key of the environment variable.
Type: String
Length Constraints: Minimum length of 1.
Required: Yes

value
The value of the environment variable.
Important
We strongly discourage using environment variables to store sensitive values, especially
AWS secret key IDs and secret access keys. Environment variables can be displayed in plain
text using tools such as the AWS CodeBuild console and the AWS Command Line Interface
(AWS CLI).
Type: String
Required: Yes

type
The type of environment variable. Valid values include:
• PARAMETER_STORE: An environment variable stored in Amazon EC2 Systems Manager Parameter
  Store.
• PLAINTEXT: An environment variable in plaintext format.
Type: String
Valid Values: PLAINTEXT | PARAMETER_STORE
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 Go
• AWS SDK for Java
• AWS SDK for Ruby V2
LogsLocation

Information about build logs in Amazon CloudWatch Logs.

Contents

Note
In the following list, the required parameters are described first.

deeplink

The URL to an individual build log in Amazon CloudWatch Logs.

Type: String

Required: No

groupName

The name of the Amazon CloudWatch Logs group for the build logs.

Type: String

Required: No

streamName

The name of the Amazon CloudWatch Logs stream for the build logs.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
NetworkInterface

Describes a network interface.

Contents

Note
In the following list, the required parameters are described first.

networkInterfaceId

The ID of the network interface.

Type: String

Length Constraints: Minimum length of 1.

Required: No

subnetId

The ID of the subnet.

Type: String

Length Constraints: Minimum length of 1.

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
PhaseContext

Additional information about a build phase that has an error. You can use this information to help troubleshoot a failed build.

Contents

Note
In the following list, the required parameters are described first.

message

An explanation of the build phase's context. This explanation might include a command ID and an exit code.

Type: String
Required: No

statusCode

The status code for the context of the build phase.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Project

Information about a build project.

Contents

Note
In the following list, the required parameters are described first.

arn
The Amazon Resource Name (ARN) of the build project.
Type: String
Required: No

artifacts
Information about the build output artifacts for the build project.
Type: ProjectArtifacts (p. 65) object
Required: No

badge
Information about the build badge for the build project.
Type: ProjectBadge (p. 68) object
Required: No

cache
Information about the cache for the build project.
Type: ProjectCache (p. 69) object
Required: No

created
When the build project was created, expressed in Unix time format.
Type: Timestamp
Required: No

description
A description that makes the build project easy to identify.
Type: String
Length Constraints: Minimum length of 0. Maximum length of 255.
Required: No

encryptionKey
The AWS Key Management Service (AWS KMS) customer master key (CMK) to be used for encrypting
the build output artifacts.
This is expressed either as the CMK's Amazon Resource Name (ARN) or, if specified, the CMK's alias (using the format alias/alias-name).

Type: String
Length Constraints: Minimum length of 1.
Required: No

**environment**

Information about the build environment for this build project.

Type: ProjectEnvironment (p. 70) object
Required: No

**lastModified**

When the build project's settings were last modified, expressed in Unix time format.

Type: Timestamp
Required: No

**name**

The name of the build project.

Type: String
Pattern: [A-Za-z0-9][A-Za-z0-9\-_]{1,254}
Required: No

**serviceRole**

The ARN of the AWS Identity and Access Management (IAM) role that enables AWS CodeBuild to interact with dependent AWS services on behalf of the AWS account.

Type: String
Length Constraints: Minimum length of 1.
Required: No

**source**

Information about the build input source code for this build project.

Type: ProjectSource (p. 72) object
Required: No

**tags**

The tags for this build project.
These tags are available for use by AWS services that support AWS CodeBuild build project tags.

Type: Array of Tag (p. 75) objects
Array Members: Minimum number of 0 items. Maximum number of 50 items.
Required: No
timeoutInMinutes

How long, in minutes, from 5 to 480 (8 hours), for AWS CodeBuild to wait before timing out any related build that did not get marked as completed. The default is 60 minutes.

Type: Integer


Required: No

vpcConfig

Information about the VPC configuration that AWS CodeBuild will access.

Type: VpcConfig (p. 76) object

Required: No

webhook

Information about a webhook in GitHub that connects repository events to a build project in AWS CodeBuild.

Type: Webhook (p. 77) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
**ProjectArtifacts**

Information about the build output artifacts for the build project.

**Contents**

**Note**
In the following list, the required parameters are described first.

**type**

The type of build output artifact. Valid values include:
- **CODEPIPELINE**: The build project will have build output generated through AWS CodePipeline.
- **NO_ARTIFACTS**: The build project will not produce any build output.
- **S3**: The build project will store build output in Amazon Simple Storage Service (Amazon S3).

Type: String

Valid Values: CODEPIPELINE | S3 | NO_ARTIFACTS

Required: Yes

**location**

Information about the build output artifact location, as follows:
- If **type** is set to CODEPIPELINE, then AWS CodePipeline will ignore this value if specified. This is because AWS CodePipeline manages its build output locations instead of AWS CodeBuild.
- If **type** is set to NO_ARTIFACTS, then this value will be ignored if specified, because no build output will be produced.
- If **type** is set to S3, this is the name of the output bucket.

Type: String

Required: No

**name**

Along with **path** and **namespaceType**, the pattern that AWS CodeBuild will use to name and store the output artifact, as follows:
- If **type** is set to CODEPIPELINE, then AWS CodePipeline will ignore this value if specified. This is because AWS CodePipeline manages its build output names instead of AWS CodeBuild.
- If **type** is set to NO_ARTIFACTS, then this value will be ignored if specified, because no build output will be produced.
- If **type** is set to S3, this is the name of the output artifact object.

For example, if **path** is set to MyArtifacts, **namespaceType** is set to BUILD_ID, and **name** is set to MyArtifact.zip, then the output artifact would be stored in MyArtifacts/build-ID/MyArtifact.zip.

Type: String

Required: No

**namespaceType**

Along with **path** and **name**, the pattern that AWS CodeBuild will use to determine the name and location to store the output artifact, as follows:
- If **type** is set to CODEPIPELINE, then AWS CodePipeline will ignore this value if specified. This is because AWS CodePipeline manages its build output names instead of AWS CodeBuild.
• If `type` is set to `NO_ARTIFACTS`, then this value will be ignored if specified, because no build output will be produced.
• If `type` is set to `S3`, then valid values include:
  • `BUILD_ID`: Include the build ID in the location of the build output artifact.
  • `NONE`: Do not include the build ID. This is the default if `namespaceType` is not specified.

For example, if `path` is set to `MyArtifacts`, `namespaceType` is set to `BUILD_ID`, and `name` is set to `MyArtifact.zip`, then the output artifact would be stored in `MyArtifacts/build-ID/MyArtifact.zip`.

Type: String
Valid Values: `NONE` | `BUILD_ID`
Required: No

packaging

The type of build output artifact to create, as follows:
• If `type` is set to `CODEPIPELINE`, then AWS CodePipeline will ignore this value if specified. This is because AWS CodePipeline manages its build output artifacts instead of AWS CodeBuild.
• If `type` is set to `NO_ARTIFACTS`, then this value will be ignored if specified, because no build output will be produced.
• If `type` is set to `S3`, valid values include:
  • `NONE`: AWS CodeBuild will create in the output bucket a folder containing the build output. This is the default if `packaging` is not specified.
  • `ZIP`: AWS CodeBuild will create in the output bucket a ZIP file containing the build output.

Type: String
Valid Values: `NONE` | `ZIP`
Required: No

path

Along with `namespaceType` and `name`, the pattern that AWS CodeBuild will use to name and store the output artifact, as follows:
• If `type` is set to `CODEPIPELINE`, then AWS CodePipeline will ignore this value if specified. This is because AWS CodePipeline manages its build output names instead of AWS CodeBuild.
• If `type` is set to `NO_ARTIFACTS`, then this value will be ignored if specified, because no build output will be produced.
• If `type` is set to `S3`, this is the path to the output artifact. If `path` is not specified, then `path` will not be used.

For example, if `path` is set to `MyArtifacts`, `namespaceType` is set to `NONE`, and `name` is set to `MyArtifact.zip`, then the output artifact would be stored in the output bucket at `MyArtifacts/MyArtifact.zip`.

Type: String
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ProjectBadge

Information about the build badge for the build project.

Contents

**Note**
In the following list, the required parameters are described first.

**badgeEnabled**
Set this to true to generate a publicly-accessible URL for your project's build badge.

Type: Boolean
Required: No

**badgeRequestUrl**
The publicly-accessible URL through which you can access the build badge for your project.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ProjectCache

Information about the cache for the build project.

Contents

Note
In the following list, the required parameters are described first.

type
The type of cache used by the build project. Valid values include:
• NO_CACHE: The build project will not use any cache.
• S3: The build project will read and write from/to S3.

Type: String
Valid Values: NO_CACHE | S3
Required: Yes

location
Information about the cache location, as follows:
• NO_CACHE: This value will be ignored.
• S3: This is the S3 bucket name/prefix.

Type: String
Required: No

See Also

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

• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
ProjectEnvironment

Information about the build environment of the build project.

Contents

**Note**

In the following list, the required parameters are described first.

**computeType**

Information about the compute resources the build project will use. Available values include:

- **BUILD_GENERAL1_SMALL**: Use up to 3 GB memory and 2 vCPUs for builds.
- **BUILD_GENERAL1_MEDIUM**: Use up to 7 GB memory and 4 vCPUs for builds.
- **BUILD_GENERAL1_LARGE**: Use up to 15 GB memory and 8 vCPUs for builds.

Type: String

Valid Values: BUILD_GENERAL1_SMALL | BUILD_GENERAL1_MEDIUM | BUILD_GENERAL1_LARGE

Required: Yes

**image**

The ID of the Docker image to use for this build project.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

**type**

The type of build environment to use for related builds.

Type: String

Valid Values: LINUX_CONTAINER

Required: Yes

**environmentVariables**

A set of environment variables to make available to builds for this build project.

Type: Array of EnvironmentVariable (p. 58) objects

Required: No

**privilegedMode**

If set to true, enables running the Docker daemon inside a Docker container; otherwise, false or not specified (the default). This value must be set to true only if this build project will be used to build Docker images, and the specified build environment image is not one provided by AWS CodeBuild with Docker support. Otherwise, all associated builds that attempt to interact with the Docker daemon will fail. Note that you must also start the Docker daemon so that your builds can interact with it as needed. One way to do this is to initialize the Docker daemon in the install phase of your build spec by running the following build commands. (Do not run the following build commands if the specified build environment image is provided by AWS CodeBuild with Docker support.)
- nohup /usr/local/bin/dockerd --host=unix:///var/run/docker.sock --host=tcp://0.0.0.0:2375 --storage-driver=overlay& - timeout -t 15 sh -c "until docker info; do echo .; sleep 1; done"

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ProjectSource

Information about the build input source code for the build project.

Contents

Note
In the following list, the required parameters are described first.

type

The type of repository that contains the source code to be built. Valid values include:

- BITBUCKET: The source code is in a Bitbucket repository.
- CODECOMMIT: The source code is in an AWS CodeCommit repository.
- CODEPIPELINE: The source code settings are specified in the source action of a pipeline in AWS CodePipeline.
- GITHUB: The source code is in a GitHub repository.
- S3: The source code is in an Amazon Simple Storage Service (Amazon S3) input bucket.

Type: String

Valid Values: CODECOMMIT | CODEPIPELINE | GITHUB | S3 | BITBUCKET

Required: Yes

auth

Information about the authorization settings for AWS CodeBuild to access the source code to be built.

This information is for the AWS CodeBuild console's use only. Your code should not get or set this information directly (unless the build project's source type value is BITBUCKET or GITHUB).

Type: SourceAuth (p. 74) object

Required: No

buildspec

The build spec declaration to use for the builds in this build project.

If this value is not specified, a build spec must be included along with the source code to be built.

Type: String

Required: No

location

Information about the location of the source code to be built. Valid values include:

- For source code settings that are specified in the source action of a pipeline in AWS CodePipeline, location should not be specified. If it is specified, AWS CodePipeline will ignore it. This is because AWS CodePipeline uses the settings in a pipeline's source action instead of this value.
- For source code in an AWS CodeCommit repository, the HTTPS clone URL to the repository that contains the source code and the build spec (for example, https://git-codecommit.region-ID.amazonaws.com/v1/repos/repo-name).
- For source code in an Amazon Simple Storage Service (Amazon S3) input bucket, the path to the ZIP file that contains the source code (for example, bucket-name/path/to/object-name.zip)
• For source code in a GitHub repository, the HTTPS clone URL to the repository that contains the source and the build spec. Also, you must connect your AWS account to your GitHub account. To do this, use the AWS CodeBuild console to begin creating a build project. When you use the console to connect (or reconnect) with GitHub, on the GitHub Authorize application page that displays, for Organization access, choose Request access next to each repository you want to allow AWS CodeBuild to have access to. Then choose Authorize application. (After you have connected to your GitHub account, you do not need to finish creating the build project, and you may then leave the AWS CodeBuild console.) To instruct AWS CodeBuild to then use this connection, in the source object, set the auth object's type value to OAUTH.

• For source code in a Bitbucket repository, the HTTPS clone URL to the repository that contains the source and the build spec. Also, you must connect your AWS account to your Bitbucket account. To do this, use the AWS CodeBuild console to begin creating a build project. When you use the console to connect (or reconnect) with Bitbucket, on the Bitbucket Confirm access to your account page that displays, choose Grant access. (After you have connected to your Bitbucket account, you do not need to finish creating the build project, and you may then leave the AWS CodeBuild console.) To instruct AWS CodeBuild to then use this connection, in the source object, set the auth object's type value to OAUTH.

Type: String
Required: No

See Also

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

• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
SourceAuth

Information about the authorization settings for AWS CodeBuild to access the source code to be built.

This information is for the AWS CodeBuild console's use only. Your code should not get or set this information directly (unless the build project's source type value is BITBUCKET or GITHUB).

Contents

Note

In the following list, the required parameters are described first.

type

The authorization type to use. The only valid value is OAUTH, which represents the OAuth authorization type.

Type: String

Valid Values: OAUTH

Required: Yes

resource

The resource value that applies to the specified authorization type.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Tag

A tag, consisting of a key and a value.

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

Contents

**Note**
In the following list, the required parameters are described first.

**key**
The tag’s key.
Type: String
Pattern: ^((\p{L}\p{Z}\p{N}_.:/=@+\-]*)$ Required: No

**value**
The tag’s value.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Pattern: ^((\p{L}\p{Z}\p{N}_.:/=@+\-]*)$ 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
VpcConfig

Information about the VPC configuration that AWS CodeBuild will access.

Contents

**Note**
In the following list, the required parameters are described first.

**securityGroupIds**
A list of one or more security groups IDs in your Amazon VPC.

Type: Array of strings
Array Members: Maximum number of 5 items.
Length Constraints: Minimum length of 1.
Required: No

**subnets**
A list of one or more subnet IDs in your Amazon VPC.

Type: Array of strings
Array Members: Maximum number of 16 items.
Length Constraints: Minimum length of 1.
Required: No

**vpcId**
The ID of the Amazon VPC.

Type: String
Length Constraints: Minimum length of 1.
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Webhook

Information about a webhook in GitHub that connects repository events to a build project in AWS CodeBuild.

Contents

Note
In the following list, the required parameters are described first.

url
The URL to the webhook.
Type: String
Length Constraints: Minimum length of 1.
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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 Signature Version 4 Signing Process in the Amazon Web Services General Reference.

Action
The action to be performed.
Type: string
Required: Yes

Version
The API version that the request is written for, expressed in the format YYYY-MM-DD.
Type: string
Required: Yes

X-Amz-Algorithm
The hash algorithm that you used to create the request signature.
Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.
Type: string
Valid Values: AWS4-HMAC-SHA256
Required: Conditional

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

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.
Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.
Type: string
Required: Conditional

X-Amz-Date
The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.
Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

**X-Amz-Security-Token**

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

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

Type: string
Required: Conditional

**X-Amz-Signature**

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

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

Type: string
Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

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

Type: string
Required: Conditional
Common Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

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

HTTP Status Code: 500

**InvalidAction**

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

HTTP Status Code: 400

**InvalidClientTokenId**

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

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

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

HTTP Status Code: 400

**InvalidQueryParameter**

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

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400