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# AWS CodeBuild

## API Reference

### API Version 2016-10-06



## **AWS CodeBuild: API Reference**

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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.
- `UpdateWebhook`: Changes the settings of an existing webhook.
- `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.

This document was last published on July 20, 2018.

# Actions

The following actions are supported:

- [BatchDeleteBuilds](#) (p. 3)
- [BatchGetBuilds](#) (p. 5)
- [BatchGetProjects](#) (p. 8)
- [CreateProject](#) (p. 11)
- [CreateWebhook](#) (p. 16)
- [DeleteProject](#) (p. 19)
- [DeleteWebhook](#) (p. 21)
- [InvalidateProjectCache](#) (p. 23)
- [ListBuilds](#) (p. 25)
- [ListBuildsForProject](#) (p. 27)
- [ListCuratedEnvironmentImages](#) (p. 30)
- [ListProjects](#) (p. 32)
- [StartBuild](#) (p. 35)
- [StopBuild](#) (p. 42)
- [UpdateProject](#) (p. 45)
- [UpdateWebhook](#) (p. 50)



# 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 \(p. 86\)](#).

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 [BuildNotDeleted](#) (p. 58) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 88).

### **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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

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

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

```

        "type": "string",
        "value": "string"
    }
],
"image": "string",
"privilegedMode": boolean,
"type": "string"
},
"id": "string",
"initiator": "string",
"logs": {
    "deepLink": "string",
    "groupName": "string",
    "streamName": "string"
},
"networkInterface": {
    "networkInterfaceId": "string",
    "subnetId": "string"
},
"phases": [
    {
        "contexts": [
            {
                "message": "string",
                "statusCode": "string"
            }
        ],
        "durationInSeconds": number,
        "endTime": number,
        "phaseStatus": "string",
        "phaseType": "string",
        "startTime": number
    }
],
"projectName": "string",
"serviceRole": "string",
"source": {
    "auth": {
        "resource": "string",
        "type": "string"
    },
    "buildspec": "string",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",
    "reportBuildStatus": boolean,
    "type": "string"
},
"sourceVersion": "string",
"startTime": number,
"timeoutInMinutes": number,
"vpcConfig": {
    "securityGroupIds": [ "string" ],
    "subnets": [ "string" ],
    "vpcId": "string"
}
}
],
"buildsNotFound": [ "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 \(p. 53\)](#) 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 \(p. 88\)](#).

**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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

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

```
{  
  "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",  
    }  
  ]  
}
```

```

"environment": {
  "certificate": "string",
  "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",
  "gitCloneDepth": number,
  "insecureSsl": boolean,
  "location": "string",
  "reportBuildStatus": boolean,
  "type": "string"
},
"tags": [
  {
    "key": "string",
    "value": "string"
  }
],
"timeoutInMinutes": number,
"vpcConfig": {
  "securityGroupIds": [ "string" ],
  "subnets": [ "string" ],
  "vpcId": "string"
},
"webhook": {
  "branchFilter": "string",
  "lastModifiedSecret": number,
  "payloadUrl": "string",
  "secret": "string",
  "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 \(p. 68\)](#) 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 \(p. 88\)](#).

### **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

```
{
  "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": {
    "certificate": "string",
    "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",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",
    "reportBuildStatus": boolean,
    "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 \(p. 86\)](#).

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 \(p. 71\)](#) object

Required: Yes

### [environment \(p. 11\)](#)

Information about the build environment for the build project.

Type: [ProjectEnvironment \(p. 76\)](#) object

Required: Yes

### [name \(p. 11\)](#)

The name of the build project.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

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

Required: Yes

### [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: Yes

### [source \(p. 11\)](#)

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

Type: [ProjectSource \(p. 78\)](#) 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 \(p. 75\)](#) 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

### 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 \(p. 82\)](#) 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

Valid Range: Minimum value of 5. Maximum value of 480.

Required: No

### vpcConfig (p. 11)

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

Type: [VpcConfig \(p. 83\)](#) object

Required: No

## Response Syntax

```
{
```

```

"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": {
    "certificate": "string",
    "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",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",
    "reportBuildStatus": boolean,
    "type": "string"
  },
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "timeoutInMinutes": number,
  "vpcConfig": {
    "securityGroupIds": [ "string" ],
    "subnets": [ "string" ],
    "vpcId": "string"
  },
  "webhook": {
    "branchFilter": "string",
    "lastModifiedSecret": number,
    "payloadUrl": "string",

```

```
    "secret": "string",  
    "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.

### **project (p. 13)**

Information about the build project that was created.

Type: [Project \(p. 68\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### **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 5 in [Change a Build Project's Settings](#).

## Request Syntax

```
{
  "branchFilter": "string",
  "projectName": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

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 AWS CodeBuild project.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

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

Required: Yes

### [branchFilter \(p. 16\)](#)

A regular expression used to determine which branches in a repository are built when a webhook is triggered. If the name of a branch matches the regular expression, then it is built. If it doesn't match, then it is not. If branchFilter is empty, then all branches are built.

Type: String

Required: No

## Response Syntax

```
{
```

```
"webhook": {  
  "branchFilter": "string",  
  "lastModifiedSecret": number,  
  "payloadUrl": "string",  
  "secret": "string",  
  "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. 84) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 88).

### **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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

#### name (p. 19)

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 \(p. 88\)](#).

### 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](#)

# 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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

### [projectName \(p. 21\)](#)

The name of the AWS CodeBuild project.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

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 \(p. 88\)](#).

### **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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

#### **projectName (p. 23)**

The name of the AWS CodeBuild 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 \(p. 88\)](#).

### **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](#)

# 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 \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

#### [nextToken \(p. 25\)](#)

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 \(p. 25\)](#)

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. 25)**

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. 25)**

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 \(p. 88\)](#).

**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

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

#### [projectName \(p. 27\)](#)

The name of the AWS CodeBuild project.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

#### [nextToken \(p. 27\)](#)

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 \(p. 27\)](#)

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. 27)

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. 27)

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 \(p. 88\)](#).

### **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. 30)

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

Type: Array of [EnvironmentPlatform \(p. 63\)](#) objects

### Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### 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

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

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

#### Note

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

#### [nextToken \(p. 32\)](#)

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 \(p. 32\)](#)

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 \(p. 32\)](#)

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

```
{
  "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. 33)

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. 33)

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. 88).

### **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](#)



# StartBuild

Starts running a build.

## Request Syntax

```
{
  "artifactsOverride": {
    "location": "string",
    "name": "string",
    "namespaceType": "string",
    "packaging": "string",
    "path": "string",
    "type": "string"
  },
  "buildspecOverride": "string",
  "cacheOverride": {
    "location": "string",
    "type": "string"
  },
  "certificateOverride": "string",
  "computeTypeOverride": "string",
  "environmentTypeOverride": "string",
  "environmentVariablesOverride": [
    {
      "name": "string",
      "type": "string",
      "value": "string"
    }
  ],
  "gitCloneDepthOverride": number,
  "idempotencyToken": "string",
  "imageOverride": "string",
  "insecureSslOverride": boolean,
  "privilegedModeOverride": boolean,
  "projectName": "string",
  "reportBuildStatusOverride": boolean,
  "serviceRoleOverride": "string",
  "sourceAuthOverride": {
    "resource": "string",
    "type": "string"
  },
  "sourceLocationOverride": "string",
  "sourceTypeOverride": "string",
  "sourceVersion": "string",
  "timeoutInMinutesOverride": number
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 86\)](#).

The request accepts the following data in JSON format.

### Note

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

### [projectName \(p. 35\)](#)

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

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

#### **artifactsOverride (p. 35)**

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

Type: [ProjectArtifacts \(p. 71\)](#) object

Required: No

#### **buildspecOverride (p. 35)**

A build spec declaration that overrides, for this build only, the latest one already defined in the build project.

Type: String

Required: No

#### **cacheOverride (p. 35)**

A ProjectCache object specified for this build that overrides the one defined in the build project.

Type: [ProjectCache \(p. 75\)](#) object

Required: No

#### **certificateOverride (p. 35)**

The name of a certificate for this build that overrides the one specified in the build project.

Type: String

Required: No

#### **computeTypeOverride (p. 35)**

The name of a compute type for this build that overrides the one specified in the build project.

Type: String

Valid Values: BUILD\_GENERAL1\_SMALL | BUILD\_GENERAL1\_MEDIUM | BUILD\_GENERAL1\_LARGE

Required: No

#### **environmentTypeOverride (p. 35)**

A container type for this build that overrides the one specified in the build project.

Type: String

Valid Values: WINDOWS\_CONTAINER | LINUX\_CONTAINER

Required: No

#### **environmentVariablesOverride (p. 35)**

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

Type: Array of [EnvironmentVariable \(p. 64\)](#) objects

Required: No

#### **gitCloneDepthOverride (p. 35)**

The user-defined depth of history, with a minimum value of 0, that overrides, for this build only, any previous depth of history defined in the build project.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

#### **idempotencyToken (p. 35)**

A unique, case sensitive identifier you provide to ensure the idempotency of the StartBuild request. The token is included in the StartBuild request and is valid for 12 hours. If you repeat the StartBuild request with the same token, but change a parameter, AWS CodeBuild returns a parameter mismatch error.

Type: String

Required: No

#### **imageOverride (p. 35)**

The name of an image for this build that overrides the one specified in the build project.

Type: String

Length Constraints: Minimum length of 1.

Required: No

#### **insecureSslOverride (p. 35)**

Enable this flag to override the insecure SSL setting that is specified in the build project. The insecure SSL setting determines whether to ignore SSL warnings while connecting to the project source code. This override applies only if the build's source is GitHub Enterprise.

Type: Boolean

Required: No

#### **privilegedModeOverride (p. 35)**

Enable this flag to override privileged mode in the build project.

Type: Boolean

Required: No

#### **reportBuildStatusOverride (p. 35)**

Set to true to report to your source provider the status of a build's start and completion. If you use this option with a source provider other than GitHub, an `invalidInputException` is thrown.

Type: Boolean

Required: No

#### **serviceRoleOverride (p. 35)**

The name of a service role for this build that overrides the one specified in the build project.

Type: String

Length Constraints: Minimum length of 1.

Required: No

### [sourceAuthOverride \(p. 35\)](#)

An authorization type for this build that overrides the one defined in the build project. This override applies only if the build project's source is BitBucket or GitHub.

Type: [SourceAuth \(p. 81\)](#) object

Required: No

### [sourceLocationOverride \(p. 35\)](#)

A location that overrides for this build the source location for the one defined in the build project.

Type: String

Required: No

### [sourceTypeOverride \(p. 35\)](#)

A source input type for this build that overrides the source input defined in the build project

Type: String

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

Required: No

### [sourceVersion \(p. 35\)](#)

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 \(p. 35\)](#)

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

Valid Range: Minimum value of 5. Maximum value of 480.

Required: No

## 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": {
    "certificate": "string",
    "computeType": "string",
    "environmentVariables": [
      {
        "name": "string",
        "type": "string",
        "value": "string"
      }
    ],
    "image": "string",
    "privilegedMode": boolean,
    "type": "string"
  },
  "id": "string",
  "initiator": "string",
  "logs": {
    "deepLink": "string",
    "groupName": "string",
    "streamName": "string"
  },
  "networkInterface": {
    "networkInterfaceId": "string",
    "subnetId": "string"
  },
  "phases": [
    {
      "contexts": [
        {
          "message": "string",
          "statusCode": "string"
        }
      ],
      "durationInSeconds": number,
      "endTime": number,
      "phaseStatus": "string",
      "phaseType": "string",
      "startTime": number
    }
  ],
  "projectName": "string",
  "serviceRole": "string",
  "source": {
    "auth": {
      "resource": "string",
      "type": "string"
    },
    "buildspec": "string",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",

```

```
    "reportBuildStatus": boolean,
    "type": "string"
  },
  "sourceVersion": "string",
  "startTime": number,
  "timeoutInMinutes": number,
  "vpcConfig": {
    "securityGroupIds": [ "string" ],
    "subnets": [ "string" ],
    "vpcId": "string"
  }
}
```

## Response Elements

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

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

### **build (p. 38)**

Information about the build to be run.

Type: [Build \(p. 53\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### **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. 86).

The request accepts the following data in JSON format.

### Note

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

### id (p. 42)

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": {  
      "certificate": "string",  
      "computeType": "string",  
      "environmentVariables": [  
        {  
          "name": "string",  
          "type": "string",  
          "value": "string"  
        }  
      ],  
    },  
  },  
}
```



```

        "image": "string",
        "privilegedMode": boolean,
        "type": "string"
    },
    "id": "string",
    "initiator": "string",
    "logs": {
        "deepLink": "string",
        "groupName": "string",
        "streamName": "string"
    },
    "networkInterface": {
        "networkInterfaceId": "string",
        "subnetId": "string"
    },
    "phases": [
        {
            "contexts": [
                {
                    "message": "string",
                    "statusCode": "string"
                }
            ],
            "durationInSeconds": number,
            "endTime": number,
            "phaseStatus": "string",
            "phaseType": "string",
            "startTime": number
        }
    ],
    "projectName": "string",
    "serviceRole": "string",
    "source": {
        "auth": {
            "resource": "string",
            "type": "string"
        },
        "buildspec": "string",
        "gitCloneDepth": number,
        "insecureSsl": boolean,
        "location": "string",
        "reportBuildStatus": boolean,
        "type": "string"
    },
    "sourceVersion": "string",
    "startTime": number,
    "timeoutInMinutes": number,
    "vpcConfig": {
        "securityGroupIds": [ "string" ],
        "subnets": [ "string" ],
        "vpcId": "string"
    }
}
}

```

## Response Elements

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

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

### [build \(p. 42\)](#)

Information about the build.

Type: [Build \(p. 53\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### **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

```
{
  "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": {
    "certificate": "string",
    "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",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",
    "reportBuildStatus": boolean,
    "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 \(p. 86\)](#).

The request accepts the following data in JSON format.

**Note**

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

**name (p. 45)**

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. 45)**

Information to be changed about the build output artifacts for the build project.

Type: [ProjectArtifacts \(p. 71\)](#) object

Required: No

**badgeEnabled (p. 45)**

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

Type: Boolean

Required: No

**cache (p. 45)**

Stores recently used information so that it can be quickly accessed at a later time.

Type: [ProjectCache \(p. 75\)](#) object

Required: No

**description (p. 45)**

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. 45)**

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.

Required: No

**environment (p. 45)**

Information to be changed about the build environment for the build project.

Type: [ProjectEnvironment \(p. 76\)](#) object

Required: No

**serviceRole (p. 45)**

The replacement 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 (p. 45)**

Information to be changed about the build input source code for the build project.

Type: [ProjectSource \(p. 78\)](#) object

Required: No

**tags (p. 45)**

The replacement 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 \(p. 82\)](#) objects

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

Required: No

**timeoutInMinutes (p. 45)**

The replacement value 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.

Type: Integer

Valid Range: Minimum value of 5. Maximum value of 480.

Required: No

**vpcConfig (p. 45)**

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

Type: [VpcConfig \(p. 83\)](#) object

Required: No

## Response Syntax

```
{
```

```
"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": {
    "certificate": "string",
    "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",
    "gitCloneDepth": number,
    "insecureSsl": boolean,
    "location": "string",
    "reportBuildStatus": boolean,
    "type": "string"
  },
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "timeoutInMinutes": number,
  "vpcConfig": {
    "securityGroupIds": [ "string" ],
    "subnets": [ "string" ],
    "vpcId": "string"
  },
  "webhook": {
    "branchFilter": "string",
    "lastModifiedSecret": number,
    "payloadUrl": "string",

```

```
    "secret": "string",  
    "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.

### **project (p. 47)**

Information about the build project that was changed.

Type: [Project \(p. 68\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### **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](#)

# UpdateWebhook

Updates the webhook associated with an AWS CodeBuild build project.

## Request Syntax

```
{
  "branchFilter": "string",
  "projectName": "string",
  "rotateSecret": boolean
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 86).

The request accepts the following data in JSON format.

### Note

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

#### [projectName](#) (p. 50)

The name of the AWS CodeBuild project.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

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

Required: Yes

#### [branchFilter](#) (p. 50)

A regular expression used to determine which branches in a repository are built when a webhook is triggered. If the name of a branch matches the regular expression, then it is built. If it doesn't match, then it is not. If `branchFilter` is empty, then all branches are built.

Type: String

Required: No

#### [rotateSecret](#) (p. 50)

A boolean value that specifies whether the associated repository's secret token should be updated.

Type: Boolean

Required: No

## Response Syntax

```
{
  "webhook": {
    "branchFilter": "string",
  }
}
```



```
    "lastModifiedSecret": number,  
    "payloadUrl": "string",  
    "secret": "string",  
    "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. 50)**

Information about a repository's webhook that is associated with a project in AWS CodeBuild.

Type: [Webhook \(p. 84\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 88\)](#).

### **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](#)

# 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. 53)
- [BuildArtifacts](#) (p. 57)
- [BuildNotDeleted](#) (p. 58)
- [BuildPhase](#) (p. 59)
- [EnvironmentImage](#) (p. 61)
- [EnvironmentLanguage](#) (p. 62)
- [EnvironmentPlatform](#) (p. 63)
- [EnvironmentVariable](#) (p. 64)
- [LogsLocation](#) (p. 65)
- [NetworkInterface](#) (p. 66)
- [PhaseContext](#) (p. 67)
- [Project](#) (p. 68)
- [ProjectArtifacts](#) (p. 71)
- [ProjectBadge](#) (p. 74)
- [ProjectCache](#) (p. 75)
- [ProjectEnvironment](#) (p. 76)
- [ProjectSource](#) (p. 78)
- [SourceAuth](#) (p. 81)
- [Tag](#) (p. 82)
- [VpcConfig](#) (p. 83)
- [Webhook](#) (p. 84)

# 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 \(p. 57\)](#) 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 \(p. 75\)](#) object

Required: No

### currentPhase

The current build phase.

Type: String

Required: No

#### **endTime**

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

Type: Timestamp

Required: No

#### **environment**

Information about the build environment for this build.

Type: [ProjectEnvironment \(p. 76\)](#) object

Required: No

#### **id**

The unique ID for the build.

Type: String

Length Constraints: Minimum length of 1.

Required: No

#### **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

Required: No

#### **logs**

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

Type: [LogsLocation \(p. 65\)](#) object

Required: No

#### **networkInterface**

Describes a network interface.

Type: [NetworkInterface \(p. 66\)](#) object

Required: No

#### **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 \(p. 59\)](#) objects

Required: No

**projectName**

The name of the AWS CodeBuild project.

Type: String

Length Constraints: Minimum length of 1.

Required: No

**serviceRole**

The name of a service role used for this build.

Type: String

Length Constraints: Minimum length of 1.

Required: No

**source**

Information about the source code to be built.

Type: [ProjectSource \(p. 78\)](#) 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 \(p. 83\)](#) 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](#)

# 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. 67) objects

Required: No

### durationInSeconds

How long, in seconds, between the starting and ending times of the build's phase.

Type: Long

Required: No

### endTime

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 \(p. 61\)](#) 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. 62) objects

Required: No

### platform

The platform's name.

Type: String

Valid Values: `DEBIAN` | `AMAZON_LINUX` | `UBUNTU` | `WINDOWS_SERVER`

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 \(p. 71\)](#) object

Required: No

### badge

Information about the build badge for the build project.

Type: [ProjectBadge \(p. 74\)](#) object

Required: No

### cache

Information about the cache for the build project.

Type: [ProjectCache \(p. 75\)](#) 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 \(p. 76\)](#) 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

Length Constraints: Minimum length of 2. Maximum length of 255.

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 \(p. 78\)](#) 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 \(p. 82\)](#) 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

Valid Range: Minimum value of 5. Maximum value of 480.

Required: No

### **vpcConfig**

Information about the VPC configuration that AWS CodeBuild will access.

Type: [VpcConfig \(p. 83\)](#) object

Required: No

### **webhook**

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

Type: [Webhook \(p. 84\)](#) 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. If you set the name to be a forward slash ("/"), then the artifact is stored in the root of the output bucket.

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`.
- If `path` is empty, `namespaceType` is set to `NONE`, and `name` is set to `/`, then the output artifact would be stored in the root of the output bucket.
- If `path` is set to `MyArtifacts`, `namespaceType` is set to `BUILD_ID`, and `name` is set to `/`, then the output artifact would be stored in `MyArtifacts/build-ID`.

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: `WINDOWS_CONTAINER` | `LINUX_CONTAINER`

Required: Yes

### certificate

The certificate to use with this build project.

Type: String

Required: No

### environmentVariables

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

Type: Array of [EnvironmentVariable \(p. 64\)](#) objects

Required: No

### privilegedMode

Enables running the Docker daemon inside a Docker container. Set to true only if the build project is be used to build Docker images, and the specified build environment image is not 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 builds can interact with it. One way to do this is to initialize the Docker daemon during 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.)

If the operating system's base image is Ubuntu Linux:

```
- nohup /usr/local/bin/dockerd --host=unix:///var/run/docker.sock --  
host=tcp://0.0.0.0:2375 --storage-driver=overlay& - timeout 15 sh -c "until  
docker info; do echo .; sleep 1; done"
```

If the operating system's base image is Alpine Linux, add the `-t` argument to `timeout`:

```
- nohup /usr/local/bin/dockerd --host=unix:///var/run/docker.sock --  
host=tcp://0.0.0.0:2375 --storage-driver=overlay& - timeout 15 -t 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` | `GITHUB_ENTERPRISE`

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 \(p. 81\)](#) 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

### gitCloneDepth

Information about the git clone depth for the build project.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### insecureSsl

Enable this flag to ignore SSL warnings while connecting to the project source code.

Type: Boolean

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

### reportBuildStatus

Set to true to report the status of a build's start and finish to your source provider. This option is only valid when your source provider is GitHub. If this is set and you use a different source provider, an `invalidInputException` is thrown.

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](#)



# 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

Length Constraints: Minimum length of 1. Maximum length of 127.

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

### vpclId

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.

### branchFilter

A regular expression used to determine which branches in a repository are built when a webhook is triggered. If the name of a branch matches the regular expression, then it is built. If it doesn't match, then it is not. If branchFilter is empty, then all branches are built.

Type: String

Required: No

### lastModifiedSecret

A timestamp indicating the last time a repository's secret token was modified.

Type: Timestamp

Required: No

### payloadUrl

The CodeBuild endpoint where webhook events are sent.

Type: String

Length Constraints: Minimum length of 1.

Required: No

### secret

The secret token of the associated repository.

Type: String

Length Constraints: Minimum length of 1.

Required: No

### 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'THHMMSS'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