AWS AppConfig

API Reference

API Version 2019-10-09

AWS AppConfig: API Reference

Table of Contents

Welcome

AWS AppConfig

Use AWS AppConfig, a capability of AWS Systems Manager, to create, manage, and quickly deploy application configurations. AWS AppConfig supports controlled deployments to applications of any size and includes built-in validation checks and monitoring. You can use AWS AppConfig with applications hosted on Amazon EC2 instances, Lambda, containers, mobile applications, or IoT devices.

To prevent errors when deploying application configurations, especially for production systems where a simple typo could cause an unexpected outage, AWS AppConfig includes validators. A validator provides a syntactic or semantic check to ensure that the configuration you want to deploy works as intended. To validate your application configuration data, you provide a schema or a Lambda function that runs against the configuration. The configuration deployment or update can only proceed when the configuration data is valid.

During a configuration deployment, AWS AppConfig monitors the application to ensure that the deployment is successful. If the system encounters an error, AWS AppConfig rolls back the change to minimize impact for your application users. You can configure a deployment strategy for each application or environment that includes deployment criteria, including velocity, bake time, and alarms to monitor. Similar to error monitoring, if a deployment triggers an alarm, AWS AppConfig automatically rolls back to the previous version.

AWS AppConfig supports multiple use cases. Here are some examples.

- **Application tuning**: Use AWS AppConfig to carefully introduce changes to your application that can only be tested with production traffic.
- **Feature toggle**: Use AWS AppConfig to turn on new features that require a timely deployment, such as a product launch or announcement.
- **Allow list**: Use AWS AppConfig to allow premium subscribers to access paid content.
- **Operational issues**: Use AWS AppConfig to reduce stress on your application when a dependency or other external factor impacts the system.

This reference is intended to be used with the AWS AppConfig User Guide.

This document was last published on October 6, 2021.

Actions

The following actions are supported:

CreateApplication

An application in AWS AppConfig is a logical unit of code that provides capabilities for your customers. For example, an application can be a microservice that runs on Amazon EC2 instances, a mobile application installed by your users, a serverless application using Amazon API Gateway and Lambda, or any system you run on behalf of others.

Request Syntax

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

{
   "Description": "string",
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Description (p. 3)

A description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Name (p. 3)

A name for the application.

Type: String

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

Required: Yes

Tags (p. 3)

Metadata to assign to the application. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "Description": "string",
   "Id": "string",
   "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

Description (p. 4)

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 4)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 4)

The application name.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

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

CreateConfigurationProfile

Information that enables AWS AppConfig to access the configuration source. Valid configuration sources include the AWS AppConfig hosted configuration store, Systems Manager (SSM) documents, SSM Parameter Store parameters, Amazon S3 objects, or any integration source action supported by AWS CodePipeline. A configuration profile includes the following information.

- The Uri location of the configuration data.
- The AWS Identity and Access Management (IAM) role that provides access to the configuration data.
- A validator for the configuration data. Available validators include either a JSON Schema or an Lambda function.

For more information, see Create a Configuration and a Configuration Profile in the *AWS AppConfig User Guide*.

Request Syntax

```
POST /applications/ApplicationId/configurationprofiles HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "LocationUri": "string",
   "Name": "string",
   "RetrievalRoleArn": "string",
   "Tags": {
      "string" : "string"
   },
   "Validators": [
      {
         "Content": "string",
         "Type": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 6)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 6)

A description of the configuration profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

LocationUri (p. 6)

A URI to locate the configuration. You can specify the AWS AppConfig hosted configuration store, Systems Manager (SSM) document, an SSM Parameter Store parameter, or an Amazon S3 object. For the hosted configuration store, specify `hosted`. For an SSM document, specify either the document name in the format `ssm-document://<Document_name>` or the Amazon Resource Name (ARN). For a parameter, specify either the parameter name in the format `ssm-parameter://<Parameter_name>` or the ARN. For an Amazon S3 object, specify the URI in the following format: `s3://<bucket>/<objectKey>` . Here is an example: s3://my-bucket/my-app/us-east-1/my-config.json

Type: String

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

Required: Yes

Name (p. 6)

A name for the configuration profile.

Type: String

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

Required: Yes

RetrievalRoleArn (p. 6)

The ARN of an IAM role with permission to access the configuration at the specified LocationUri.

> **Important**
> A retrieval role ARN is not required for configurations stored in the AWS AppConfig hosted configuration store. It is required for all other sources that store your configuration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

Required: No

Tags (p. 6)

Metadata to assign to the configuration profile. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Validators (p. 6)

A list of methods for validating the configuration.

Type: Array of Validator (p. 119) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "LocationUri": "string",
   "Name": "string",
   "RetrievalRoleArn": "string",
   "Validators": [
      {
         "Content": "string",
         "Type": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

ApplicationId (p. 8)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 8)

The configuration profile description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 8)

The configuration profile ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

LocationUri (p. 8)

The URI location of the configuration.

Type: String

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

Name (p. 8)

The name of the configuration profile.

Type: String

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

RetrievalRoleArn (p. 8)

The ARN of an IAM role with permission to access the configuration at the specified LocationUri.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

Validators (p. 8)

A list of methods for validating the configuration.

Type: Array of Validator (p. 119) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

CreateDeploymentStrategy

A deployment strategy defines important criteria for rolling out your configuration to the designated targets. A deployment strategy includes: the overall duration required, a percentage of targets to receive the deployment during each interval, an algorithm that defines how percentage grows, and bake time.

Request Syntax

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

{
   "DeploymentDurationInMinutes": number,
   "Description": "string",
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "Name": "string",
   "ReplicateTo": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

DeploymentDurationInMinutes (p. 11)

Total amount of time for a deployment to last.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: Yes

Description (p. 11)

A description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

FinalBakeTimeInMinutes (p. 11)

The amount of time AWS AppConfig monitors for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

GrowthFactor (p. 11)

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

Required: Yes

GrowthType (p. 11)

The algorithm used to define how percentage grows over time. AWS AppConfig supports the following growth types:

Linear: For this type, AWS AppConfig processes the deployment by dividing the total number of targets by the value specified for `Step percentage`. For example, a linear deployment that uses a `Step percentage` of 10 deploys the configuration to 10 percent of the hosts. After those deployments are complete, the system deploys the configuration to the next 10 percent. This continues until 100% of the targets have successfully received the configuration.

Exponential: For this type, AWS AppConfig processes the deployment exponentially using the following formula: `G*(2^N)`. In this formula, `G` is the growth factor specified by the user and `N` is the number of steps until the configuration is deployed to all targets. For example, if you specify a growth factor of 2, then the system rolls out the configuration as follows:

```
2*(2^0)

2*(2^1)

2*(2^2)
```

Expressed numerically, the deployment rolls out as follows: 2% of the targets, 4% of the targets, 8% of the targets, and continues until the configuration has been deployed to all targets.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Required: No

Name (p. 11)

A name for the deployment strategy.

Type: String

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

Required: Yes

ReplicateTo (p. 11)

Save the deployment strategy to a Systems Manager (SSM) document.

Type: String

Valid Values: `NONE | SSM_DOCUMENT`

Required: Yes

Tags (p. 11)

Metadata to assign to the deployment strategy. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "DeploymentDurationInMinutes": number,
   "Description": "string",
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "Id": "string",
   "Name": "string",
   "ReplicateTo": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

DeploymentDurationInMinutes (p. 13)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Description (p. 13)

The description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

FinalBakeTimeInMinutes (p. 13)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 13)

The percentage of targets that received a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 13)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Id (p. 13)

The deployment strategy ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 13)

The name of the deployment strategy.

Type: String

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

ReplicateTo (p. 13)

Save the deployment strategy to a Systems Manager (SSM) document.

Type: String

Valid Values: `NONE | SSM_DOCUMENT`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

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

CreateEnvironment

For each application, you define one or more environments. An environment is a logical deployment group of AWS AppConfig targets, such as applications in a `Beta` or `Production` environment. You can also define environments for application subcomponents such as the `Web`, `Mobile` and `Back-end` components for your application. You can configure Amazon CloudWatch alarms for each environment. The system monitors alarms during a configuration deployment. If an alarm is triggered, the system rolls back the configuration.

Request Syntax

```
POST /applications/ApplicationId/environments HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Monitors": [
      {
         "AlarmArn": "string",
         "AlarmRoleArn": "string"
      }
   ],
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 16)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 16)

A description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Monitors (p. 16)

Amazon CloudWatch alarms to monitor during the deployment process.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

Name (p. 16)

A name for the environment.

Type: String

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

Required: Yes

Tags (p. 16)

Metadata to assign to the environment. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "Monitors": [
      {
         "AlarmArn": "string",
         "AlarmRoleArn": "string"
      }
   ],
   "Name": "string",
   "State": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

ApplicationId (p. 17)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 17)

The description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 17)

The environment ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Monitors (p. 17)

Amazon CloudWatch alarms monitored during the deployment.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Name (p. 17)

The name of the environment.

Type: String

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

State (p. 17)

The state of the environment. An environment can be in one of the following states: `READY_FOR_DEPLOYMENT`, `DEPLOYING`, `ROLLING_BACK`, or `ROLLED_BACK`

Type: String

Valid Values: `READY_FOR_DEPLOYMENT | DEPLOYING | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

CreateHostedConfigurationVersion

Create a new configuration in the AWS AppConfig hosted configuration store.

Request Syntax

```
POST /applications/ApplicationId/configurationprofiles/ConfigurationProfileId/
hostedconfigurationversions HTTP/1.1
Description: Description
Content-Type: ContentType
Latest-Version-Number: LatestVersionNumber

Content
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 20)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 20)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ContentType (p. 20)

A standard MIME type describing the format of the configuration content. For more information, see Content-Type.

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

Required: Yes

Description (p. 20)

A description of the configuration.

Length Constraints: Minimum length of 0. Maximum length of 1024.

LatestVersionNumber (p. 20)

An optional locking token used to prevent race conditions from overwriting configuration updates when creating a new version. To ensure your data is not overwritten when creating multiple hosted configuration versions in rapid succession, specify the version number of the latest hosted configuration version.

Request Body

The request accepts the following binary data.

Content (p. 20)

The content of the configuration or the configuration data.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Application-Id: ApplicationId
Configuration-Profile-Id: ConfigurationProfileId
Version-Number: VersionNumber
Description: Description
Content-Type: ContentType

Content
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

ApplicationId (p. 21)

The application ID.

Pattern: `[a-z0-9]{4,7}`

ConfigurationProfileId (p. 21)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

ContentType (p. 21)

A standard MIME type describing the format of the configuration content. For more information, see Content-Type.

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

Description (p. 21)

A description of the configuration.

Length Constraints: Minimum length of 0. Maximum length of 1024.

VersionNumber (p. 21)

The configuration version.

The response returns the following as the HTTP body.

Content (p. 21)

The content of the configuration or the configuration data.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

ConflictException

The request could not be processed because of conflict in the current state of the resource.

HTTP Status Code: 409

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

PayloadTooLargeException

The configuration size is too large.

HTTP Status Code: 413

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The number of hosted configuration versions exceeds the limit for the AWS AppConfig hosted configuration store. Delete one or more versions and try again.

HTTP Status Code: 402

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

DeleteApplication

Delete an application. Deleting an application does not delete a configuration from a host.

Request Syntax

```
DELETE /applications/ApplicationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 23)

The ID of the application to delete.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

DeleteConfigurationProfile

Delete a configuration profile. Deleting a configuration profile does not delete a configuration from a host.

Request Syntax

```
DELETE /applications/ApplicationId/configurationprofiles/ConfigurationProfileId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 25)

The application ID that includes the configuration profile you want to delete.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 25)

The ID of the configuration profile you want to delete.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

ConflictException

The request could not be processed because of conflict in the current state of the resource.

HTTP Status Code: 409

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

DeleteDeploymentStrategy

Delete a deployment strategy. Deleting a deployment strategy does not delete a configuration from a host.

Request Syntax

```
DELETE /deployementstrategies/DeploymentStrategyId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeploymentStrategyId (p. 27)

The ID of the deployment strategy you want to delete.

Pattern: `(^[a-z0-9]{4,7}$|^AppConfig\.[A-Za-z0-9]{9,40}$)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

DeleteEnvironment

Delete an environment. Deleting an environment does not delete a configuration from a host.

Request Syntax

```
DELETE /applications/ApplicationId/environments/EnvironmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 29)

The application ID that includes the environment you want to delete.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

EnvironmentId (p. 29)

The ID of the environment you want to delete.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

ConflictException

The request could not be processed because of conflict in the current state of the resource.

HTTP Status Code: 409

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

DeleteHostedConfigurationVersion

Delete a version of a configuration from the AWS AppConfig hosted configuration store.

Request Syntax

```
DELETE /applications/ApplicationId/configurationprofiles/ConfigurationProfileId/
hostedconfigurationversions/VersionNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 31)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 31)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

VersionNumber (p. 31)

The versions number to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetApplication

Retrieve information about an application.

Request Syntax

```
GET /applications/ApplicationId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 33)

The ID of the application you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Description": "string",
   "Id": "string",
   "Name": "string"
}
```

Response Elements

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

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

Description (p. 33)

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 33)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 33)

The application name.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetConfiguration

Receive information about a configuration.

Important
AWS AppConfig uses the value of the `ClientConfigurationVersion` parameter to identify the configuration version on your clients. If you don't send `ClientConfigurationVersion` with each call to `GetConfiguration`, your clients receive the current configuration. You are charged each time your clients receive a configuration.
To avoid excess charges, we recommend that you include the `ClientConfigurationVersion` value with every call to `GetConfiguration`. This value must be saved on your client. Subsequent calls to `GetConfiguration` must pass this value by using the `ClientConfigurationVersion` parameter.

Request Syntax

```
GET /applications/Application/environments/Environment/configurations/Configuration?
client_configuration_version=ClientConfigurationVersion&client_id=ClientId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Application (p. 35)

The application to get. Specify either the application name or the application ID.

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

Required: Yes

ClientConfigurationVersion (p. 35)

The configuration version returned in the most recent `GetConfiguration` response.

Important
AWS AppConfig uses the value of the `ClientConfigurationVersion` parameter to identify the configuration version on your clients. If you don't send `ClientConfigurationVersion` with each call to `GetConfiguration`, your clients receive the current configuration. You are charged each time your clients receive a configuration.
To avoid excess charges, we recommend that you include the `ClientConfigurationVersion` value with every call to `GetConfiguration`. This value must be saved on your client. Subsequent calls to `GetConfiguration` must pass this value by using the `ClientConfigurationVersion` parameter.

For more information about working with configurations, see Retrieving the Configuration in the *AWS AppConfig User Guide*.

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

ClientId (p. 35)

A unique ID to identify the client for the configuration. This ID enables AWS AppConfig to deploy the configuration in intervals, as defined in the deployment strategy.

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

Required: Yes

Configuration (p. 35)

The configuration to get. Specify either the configuration name or the configuration ID.

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

Required: Yes

Environment (p. 35)

The environment to get. Specify either the environment name or the environment ID.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Configuration-Version: ConfigurationVersion
Content-Type: ContentType

Content
```

Response Elements

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

The response returns the following HTTP headers.

ConfigurationVersion (p. 36)

The configuration version.

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

ContentType (p. 36)

A standard MIME type describing the format of the configuration content. For more information, see Content-Type.

The response returns the following as the HTTP body.

Content (p. 36)

The content of the configuration or the configuration data.

Important
The `Content` section only appears if the system finds new or updated configuration data. If the system doesn't find new or updated configuration data, then the `Content` section is not returned (`Null`).

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetConfigurationProfile

Retrieve information about a configuration profile.

Request Syntax

```
GET /applications/ApplicationId/configurationprofiles/ConfigurationProfileId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 38)

The ID of the application that includes the configuration profile you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 38)

The ID of the configuration profile you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "LocationUri": "string",
   "Name": "string",
   "RetrievalRoleArn": "string",
   "Validators": [
      {
         "Content": "string",
         "Type": "string"
      }
   ]
}
```

Response Elements

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

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

ApplicationId (p. 38)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 38)

The configuration profile description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 38)

The configuration profile ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

LocationUri (p. 38)

The URI location of the configuration.

Type: String

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

Name (p. 38)

The name of the configuration profile.

Type: String

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

RetrievalRoleArn (p. 38)

The ARN of an IAM role with permission to access the configuration at the specified LocationUri.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

Validators (p. 38)

A list of methods for validating the configuration.

Type: Array of Validator (p. 119) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetDeployment

Retrieve information about a configuration deployment.

Request Syntax

```
GET /applications/ApplicationId/environments/EnvironmentId/deployments/DeploymentNumber
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 41)

The ID of the application that includes the deployment you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

DeploymentNumber (p. 41)

The sequence number of the deployment.

Required: Yes

EnvironmentId (p. 41)

The ID of the environment that includes the deployment you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ApplicationId": "string",
   "CompletedAt": number,
   "ConfigurationLocationUri": "string",
   "ConfigurationName": "string",
   "ConfigurationProfileId": "string",
   "ConfigurationVersion": "string",
   "DeploymentDurationInMinutes": number,
   "DeploymentNumber": number,
   "DeploymentStrategyId": "string",
   "Description": "string",
   "EnvironmentId": "string",
   "EventLog": [
```

```
      {
         "Description": "string",
         "EventType": "string",
         "OccurredAt": number,
         "TriggeredBy": "string"
      }
   ],
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "PercentageComplete": number,
   "StartedAt": number,
   "State": "string"
}
```

Response Elements

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

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

ApplicationId (p. 41)

The ID of the application that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

CompletedAt (p. 41)

The time the deployment completed.

Type: Timestamp

ConfigurationLocationUri (p. 41)

Information about the source location of the configuration.

Type: String

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

ConfigurationName (p. 41)

The name of the configuration.

Type: String

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

ConfigurationProfileId (p. 41)

The ID of the configuration profile that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

ConfigurationVersion (p. 41)

The configuration version that was deployed.

Type: String

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

DeploymentDurationInMinutes (p. 41)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

DeploymentNumber (p. 41)

The sequence number of the deployment.

Type: Integer

DeploymentStrategyId (p. 41)

The ID of the deployment strategy that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 41)

The description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

EnvironmentId (p. 41)

The ID of the environment that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

EventLog (p. 41)

A list containing all events related to a deployment. The most recent events are displayed first.

Type: Array of DeploymentEvent (p. 108) objects

FinalBakeTimeInMinutes (p. 41)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 41)

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 41)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

PercentageComplete (p. 41)

The percentage of targets for which the deployment is available.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

StartedAt (p. 41)

The time the deployment started.

Type: Timestamp

State (p. 41)

The state of the deployment.

Type: String

Valid Values: `BAKING | VALIDATING | DEPLOYING | COMPLETE | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

GetDeploymentStrategy

Retrieve information about a deployment strategy. A deployment strategy defines important criteria for rolling out your configuration to the designated targets. A deployment strategy includes: the overall duration required, a percentage of targets to receive the deployment during each interval, an algorithm that defines how percentage grows, and bake time.

Request Syntax

```
GET /deploymentstrategies/DeploymentStrategyId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeploymentStrategyId (p. 46)

The ID of the deployment strategy to get.

Pattern: `(^[a-z0-9]{4,7}$|^AppConfig\.[A-Za-z0-9]{9,40}$)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "DeploymentDurationInMinutes": number,
   "Description": "string",
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "Id": "string",
   "Name": "string",
   "ReplicateTo": "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.

DeploymentDurationInMinutes (p. 46)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Description (p. 46)

The description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

FinalBakeTimeInMinutes (p. 46)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 46)

The percentage of targets that received a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 46)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Id (p. 46)

The deployment strategy ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 46)

The name of the deployment strategy.

Type: String

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

ReplicateTo (p. 46)

Save the deployment strategy to a Systems Manager (SSM) document.

Type: String

Valid Values: `NONE | SSM_DOCUMENT`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetEnvironment

Retrieve information about an environment. An environment is a logical deployment group of AWS AppConfig applications, such as applications in a `Production` environment or in an `EU_Region` environment. Each configuration deployment targets an environment. You can enable one or more Amazon CloudWatch alarms for an environment. If an alarm is triggered during a deployment, AWS AppConfig roles back the configuration.

Request Syntax

```
GET /applications/ApplicationId/environments/EnvironmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 49)

The ID of the application that includes the environment you want to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

EnvironmentId (p. 49)

The ID of the environment you wnat to get.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "Monitors": [
      {
         "AlarmArn": "string",
         "AlarmRoleArn": "string"
      }
   ],
   "Name": "string",
   "State": "string"
}
```

Response Elements

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

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

ApplicationId (p. 49)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 49)

The description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 49)

The environment ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Monitors (p. 49)

Amazon CloudWatch alarms monitored during the deployment.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Name (p. 49)

The name of the environment.

Type: String

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

State (p. 49)

The state of the environment. An environment can be in one of the following states: `READY_FOR_DEPLOYMENT`, `DEPLOYING`, `ROLLING_BACK`, or `ROLLED_BACK`

Type: String

Valid Values: `READY_FOR_DEPLOYMENT | DEPLOYING | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

GetHostedConfigurationVersion

Get information about a specific configuration version.

Request Syntax

```
GET /applications/ApplicationId/configurationprofiles/ConfigurationProfileId/
hostedconfigurationversions/VersionNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 52)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 52)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

VersionNumber (p. 52)

The version.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Application-Id: ApplicationId
Configuration-Profile-Id: ConfigurationProfileId
Version-Number: VersionNumber
Description: Description
Content-Type: ContentType

Content
```

Response Elements

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

The response returns the following HTTP headers.

ApplicationId (p. 52)

The application ID.

Pattern: `[a-z0-9]{4,7}`

ConfigurationProfileId (p. 52)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

ContentType (p. 52)

A standard MIME type describing the format of the configuration content. For more information, see Content-Type.

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

Description (p. 52)

A description of the configuration.

Length Constraints: Minimum length of 0. Maximum length of 1024.

VersionNumber (p. 52)

The configuration version.

The response returns the following as the HTTP body.

Content (p. 52)

The content of the configuration or the configuration data.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

ListApplications

List all applications in your AWS account.

Request Syntax

```
GET /applications?max_results=MaxResults&next_token=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 55)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 55)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "Description": "string",
         "Id": "string",
         "Name": "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.

Items (p. 55)

The elements from this collection.

Type: Array of Application (p. 105) objects

NextToken (p. 55)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

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

ListConfigurationProfiles

Lists the configuration profiles for an application.

Request Syntax

```
GET /applications/ApplicationId/configurationprofiles?
max_results=MaxResults&next_token=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 57)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

MaxResults (p. 57)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 57)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "ApplicationId": "string",
         "Id": "string",
         "LocationUri": "string",
         "Name": "string",
         "ValidatorTypes": [ "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.

Items (p. 57)

The elements from this collection.

Type: Array of ConfigurationProfileSummary (p. 106) objects

NextToken (p. 57)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

ListDeployments

Lists the deployments for an environment.

Request Syntax

```
GET /applications/ApplicationId/environments/EnvironmentId/deployments?
max_results=MaxResults&next_token=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 59)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

EnvironmentId (p. 59)

The environment ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

MaxResults (p. 59)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 59)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "CompletedAt": number,
         "ConfigurationName": "string",
         "ConfigurationVersion": "string",
```

```
            "DeploymentDurationInMinutes": number,
            "DeploymentNumber": number,
            "FinalBakeTimeInMinutes": number,
            "GrowthFactor": number,
            "GrowthType": "string",
            "PercentageComplete": number,
            "StartedAt": number,
            "State": "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.

Items (p. 59)

The elements from this collection.

Type: Array of DeploymentSummary (p. 112) objects

NextToken (p. 59)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

ListDeploymentStrategies

List deployment strategies.

Request Syntax

```
GET /deploymentstrategies?max_results=MaxResults&next_token=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 62)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 62)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "DeploymentDurationInMinutes": number,
         "Description": "string",
         "FinalBakeTimeInMinutes": number,
         "GrowthFactor": number,
         "GrowthType": "string",
         "Id": "string",
         "Name": "string",
         "ReplicateTo": "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.

Items (p. 62)

The elements from this collection.

Type: Array of DeploymentStrategy (p. 110) objects

NextToken (p. 62)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

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

ListEnvironments

List the environments for an application.

Request Syntax

```
GET /applications/ApplicationId/environments?max_results=MaxResults&next_token=NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 64)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

MaxResults (p. 64)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 64)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "ApplicationId": "string",
         "Description": "string",
         "Id": "string",
         "Monitors": [
            {
               "AlarmArn": "string",
               "AlarmRoleArn": "string"
            }
         ],
         "Name": "string",
         "State": "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.

Items (p. 64)

The elements from this collection.

Type: Array of Environment (p. 114) objects

NextToken (p. 64)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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 V2
- AWS SDK for JavaScript

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListHostedConfigurationVersions

View a list of configurations stored in the AWS AppConfig hosted configuration store by version.

Request Syntax

```
GET /applications/ApplicationId/configurationprofiles/ConfigurationProfileId/
hostedconfigurationversions?max_results=MaxResults&next_token=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 67)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 67)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

MaxResults (p. 67)

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken (p. 67)

A token to start the list. Use this token to get the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Items": [
      {
         "ApplicationId": "string",
         "ConfigurationProfileId": "string",
         "ContentType": "string",
```

```
            "Description": "string",
            "VersionNumber": number
        }
    ],
    "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.

Items (p. 67)

The elements from this collection.

Type: Array of HostedConfigurationVersionSummary (p. 116) objects

NextToken (p. 67)

The token for the next set of items to return. Use this token to get the next set of results.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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 V2

- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Retrieves the list of key-value tags assigned to the resource.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn (p. 70)

The resource ARN.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws[a-zA-Z-]*)?:[a-z]+:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:[a-zA-Z0-9-_/:.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

Tags (p. 70)

Metadata to assign to AWS AppConfig resources. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

StartDeployment

Starts a deployment.

Request Syntax

```
POST /applications/ApplicationId/environments/EnvironmentId/deployments HTTP/1.1
Content-type: application/json

{
   "ConfigurationProfileId": "string",
   "ConfigurationVersion": "string",
   "DeploymentStrategyId": "string",
   "Description": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 72)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

EnvironmentId (p. 72)

The environment ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

ConfigurationProfileId (p. 72)

The configuration profile ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationVersion (p. 72)

The configuration version to deploy.

Type: String

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

Required: Yes

DeploymentStrategyId (p. 72)

The deployment strategy ID.

Type: String

Pattern: `(^[a-z0-9]{4,7}$|^AppConfig\.[A-Za-z0-9]{9,40}$)`

Required: Yes

Description (p. 72)

A description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Tags (p. 72)

Metadata to assign to the deployment. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "ApplicationId": "string",
   "CompletedAt": number,
   "ConfigurationLocationUri": "string",
   "ConfigurationName": "string",
   "ConfigurationProfileId": "string",
   "ConfigurationVersion": "string",
   "DeploymentDurationInMinutes": number,
   "DeploymentNumber": number,
   "DeploymentStrategyId": "string",
   "Description": "string",
   "EnvironmentId": "string",
   "EventLog": [
      {
         "Description": "string",
         "EventType": "string",
         "OccurredAt": number,
         "TriggeredBy": "string"
      }
```

```
    ],
    "FinalBakeTimeInMinutes": number,
    "GrowthFactor": number,
    "GrowthType": "string",
    "PercentageComplete": number,
    "StartedAt": number,
    "State": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

ApplicationId (p. 73)

The ID of the application that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

CompletedAt (p. 73)

The time the deployment completed.

Type: Timestamp

ConfigurationLocationUri (p. 73)

Information about the source location of the configuration.

Type: String

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

ConfigurationName (p. 73)

The name of the configuration.

Type: String

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

ConfigurationProfileId (p. 73)

The ID of the configuration profile that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

ConfigurationVersion (p. 73)

The configuration version that was deployed.

Type: String

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

DeploymentDurationInMinutes (p. 73)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

DeploymentNumber (p. 73)

The sequence number of the deployment.

Type: Integer

DeploymentStrategyId (p. 73)

The ID of the deployment strategy that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 73)

The description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

EnvironmentId (p. 73)

The ID of the environment that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

EventLog (p. 73)

A list containing all events related to a deployment. The most recent events are displayed first.

Type: Array of DeploymentEvent (p. 108) objects

FinalBakeTimeInMinutes (p. 73)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 73)

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 73)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

PercentageComplete (p. 73)

The percentage of targets for which the deployment is available.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

StartedAt (p. 73)

The time the deployment started.

Type: Timestamp

State (p. 73)

The state of the deployment.

Type: String

Valid Values: `BAKING | VALIDATING | DEPLOYING | COMPLETE | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

ConflictException

The request could not be processed because of conflict in the current state of the resource.

HTTP Status Code: 409

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

StopDeployment

Stops a deployment. This API action works only on deployments that have a status of `DEPLOYING`. This action moves the deployment to a status of `ROLLED_BACK`.

Request Syntax

```
DELETE /applications/ApplicationId/environments/EnvironmentId/deployments/DeploymentNumber
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 78)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

DeploymentNumber (p. 78)

The sequence number of the deployment.

Required: Yes

EnvironmentId (p. 78)

The environment ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
   "ApplicationId": "string",
   "CompletedAt": number,
   "ConfigurationLocationUri": "string",
   "ConfigurationName": "string",
   "ConfigurationProfileId": "string",
   "ConfigurationVersion": "string",
   "DeploymentDurationInMinutes": number,
   "DeploymentNumber": number,
   "DeploymentStrategyId": "string",
   "Description": "string",
   "EnvironmentId": "string",
```

```
   "EventLog": [
      {
         "Description": "string",
         "EventType": "string",
         "OccurredAt": number,
         "TriggeredBy": "string"
      }
   ],
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "PercentageComplete": number,
   "StartedAt": number,
   "State": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

ApplicationId (p. 78)

The ID of the application that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

CompletedAt (p. 78)

The time the deployment completed.

Type: Timestamp

ConfigurationLocationUri (p. 78)

Information about the source location of the configuration.

Type: String

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

ConfigurationName (p. 78)

The name of the configuration.

Type: String

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

ConfigurationProfileId (p. 78)

The ID of the configuration profile that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

ConfigurationVersion (p. 78)

The configuration version that was deployed.

Type: String

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

DeploymentDurationInMinutes (p. 78)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

DeploymentNumber (p. 78)

The sequence number of the deployment.

Type: Integer

DeploymentStrategyId (p. 78)

The ID of the deployment strategy that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 78)

The description of the deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

EnvironmentId (p. 78)

The ID of the environment that was deployed.

Type: String

Pattern: `[a-z0-9]{4,7}`

EventLog (p. 78)

A list containing all events related to a deployment. The most recent events are displayed first.

Type: Array of DeploymentEvent (p. 108) objects

FinalBakeTimeInMinutes (p. 78)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 78)

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 78)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

PercentageComplete (p. 78)

The percentage of targets for which the deployment is available.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

StartedAt (p. 78)

The time the deployment started.

Type: Timestamp

State (p. 78)

The state of the deployment.

Type: String

Valid Values: `BAKING | VALIDATING | DEPLOYING | COMPLETE | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

TagResource

Metadata to assign to an AWS AppConfig resource. Tags help organize and categorize your AWS AppConfig resources. Each tag consists of a key and an optional value, both of which you define. You can specify a maximum of 50 tags for a resource.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

ResourceArn (p. 83)

The ARN of the resource for which to retrieve tags.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws[a-zA-Z-]*)?:[a-z]+:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:[a-zA-Z0-9-_/:.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags (p. 83)

The key-value string map. The valid character set is [a-zA-Z+-=._:/]. The tag key can be up to 128 characters and must not start with `aws:`. The tag value can be up to 256 characters.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Value Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

UntagResource

Deletes a tag key and value from an AWS AppConfig resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

ResourceArn (p. 85)

The ARN of the resource for which to remove tags.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws[a-zA-Z-]*)?:[a-z]+:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:[a-zA-Z0-9-_/:.]+`

Required: Yes

TagKeys (p. 85)

The tag keys to delete.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

UpdateApplication

Updates an application.

Request Syntax

```
PATCH /applications/ApplicationId HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 87)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 87)

A description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Name (p. 87)

The name of the application.

Type: String

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

Required: No

Response Syntax

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

```
{
   "Description": "string",
   "Id": "string",
   "Name": "string"
}
```

Response Elements

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

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

Description (p. 87)

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 87)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 87)

The application name.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

UpdateConfigurationProfile

Updates a configuration profile.

Request Syntax

```
PATCH /applications/ApplicationId/configurationprofiles/ConfigurationProfileId HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Name": "string",
   "RetrievalRoleArn": "string",
   "Validators": [
      {
         "Content": "string",
         "Type": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 90)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 90)

The ID of the configuration profile.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 90)

A description of the configuration profile.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Name (p. 90)

The name of the configuration profile.

Type: String

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

Required: No

RetrievalRoleArn (p. 90)

The ARN of an IAM role with permission to access the configuration at the specified LocationUri.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

Required: No

Validators (p. 90)

A list of methods for validating the configuration.

Type: Array of Validator (p. 119) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

Response Syntax

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

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "LocationUri": "string",
   "Name": "string",
   "RetrievalRoleArn": "string",
   "Validators": [
      {
         "Content": "string",
         "Type": "string"
      }
   ]
}
```

Response Elements

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

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

ApplicationId (p. 91)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 91)

The configuration profile description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 91)

The configuration profile ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

LocationUri (p. 91)

The URI location of the configuration.

Type: String

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

Name (p. 91)

The name of the configuration profile.

Type: String

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

RetrievalRoleArn (p. 91)

The ARN of an IAM role with permission to access the configuration at the specified LocationUri.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

Validators (p. 91)

A list of methods for validating the configuration.

Type: Array of Validator (p. 119) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

UpdateDeploymentStrategy

Updates a deployment strategy.

Request Syntax

```
PATCH /deploymentstrategies/DeploymentStrategyId HTTP/1.1
Content-type: application/json

{
   "DeploymentDurationInMinutes": number,
   "Description": "string",
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

DeploymentStrategyId (p. 94)

The deployment strategy ID.

Pattern: `(^[a-z0-9]{4,7}$|^AppConfig\.[A-Za-z0-9]{9,40}$)`

Required: Yes

Request Body

The request accepts the following data in JSON format.

DeploymentDurationInMinutes (p. 94)

Total amount of time for a deployment to last.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

Description (p. 94)

A description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

FinalBakeTimeInMinutes (p. 94)

The amount of time AWS AppConfig monitors for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

GrowthFactor (p. 94)

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

Required: No

GrowthType (p. 94)

The algorithm used to define how percentage grows over time. AWS AppConfig supports the following growth types:

Linear: For this type, AWS AppConfig processes the deployment by increments of the growth factor evenly distributed over the deployment time. For example, a linear deployment that uses a growth factor of 20 initially makes the configuration available to 20 percent of the targets. After 1/5th of the deployment time has passed, the system updates the percentage to 40 percent. This continues until 100% of the targets are set to receive the deployed configuration.

Exponential: For this type, AWS AppConfig processes the deployment exponentially using the following formula: `G*(2^N)`. In this formula, `G` is the growth factor specified by the user and `N` is the number of steps until the configuration is deployed to all targets. For example, if you specify a growth factor of 2, then the system rolls out the configuration as follows:

```
2*(2^0)

2*(2^1)

2*(2^2)
```

Expressed numerically, the deployment rolls out as follows: 2% of the targets, 4% of the targets, 8% of the targets, and continues until the configuration has been deployed to all targets.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Required: No

Response Syntax

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

{
   "DeploymentDurationInMinutes": number,
   "Description": "string",
   "FinalBakeTimeInMinutes": number,
   "GrowthFactor": number,
   "GrowthType": "string",
   "Id": "string",
   "Name": "string",
   "ReplicateTo": "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.

DeploymentDurationInMinutes (p. 95)

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Description (p. 95)

The description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

FinalBakeTimeInMinutes (p. 95)

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

GrowthFactor (p. 95)

The percentage of targets that received a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

GrowthType (p. 95)

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Id (p. 95)

The deployment strategy ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Name (p. 95)

The name of the deployment strategy.

Type: String

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

ReplicateTo (p. 95)

Save the deployment strategy to a Systems Manager (SSM) document.

Type: String

Valid Values: `NONE | SSM_DOCUMENT`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

UpdateEnvironment

Updates an environment.

Request Syntax

```
PATCH /applications/ApplicationId/environments/EnvironmentId HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Monitors": [
      {
         "AlarmArn": "string",
         "AlarmRoleArn": "string"
      }
   ],
   "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 98)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

EnvironmentId (p. 98)

The environment ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 98)

A description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Monitors (p. 98)

Amazon CloudWatch alarms to monitor during the deployment process.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

Name (p. 98)

The name of the environment.

Type: String

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

Required: No

Response Syntax

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

{
   "ApplicationId": "string",
   "Description": "string",
   "Id": "string",
   "Monitors": [
      {
         "AlarmArn": "string",
         "AlarmRoleArn": "string"
      }
   ],
   "Name": "string",
   "State": "string"
}
```

Response Elements

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

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

ApplicationId (p. 99)

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Description (p. 99)

The description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Id (p. 99)

The environment ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Monitors (p. 99)

Amazon CloudWatch alarms monitored during the deployment.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Name (p. 99)

The name of the environment.

Type: String

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

State (p. 99)

The state of the environment. An environment can be in one of the following states: `READY_FOR_DEPLOYMENT`, `DEPLOYING`, `ROLLING_BACK`, or `ROLLED_BACK`

Type: String

Valid Values: `READY_FOR_DEPLOYMENT | DEPLOYING | ROLLING_BACK | ROLLED_BACK`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

ValidateConfiguration

Uses the validators in a configuration profile to validate a configuration.

Request Syntax

```
POST /applications/ApplicationId/configurationprofiles/ConfigurationProfileId/validators?
configuration_version=ConfigurationVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationId (p. 102)

The application ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationProfileId (p. 102)

The configuration profile ID.

Pattern: `[a-z0-9]{4,7}`

Required: Yes

ConfigurationVersion (p. 102)

The version of the configuration to validate.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 122).

BadRequestException

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

HTTP Status Code: 400

InternalServerException

There was an internal failure in the AWS AppConfig service.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource could not be found.

HTTP Status Code: 404

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

Data Types

The AWS AppConfig 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:

Application

Contents

Description

The description of the application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Id

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

Name

The application name.

Type: String

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

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 V2
- AWS SDK for Ruby V3

ConfigurationProfileSummary

A summary of a configuration profile.

Contents

ApplicationId

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

Id

The ID of the configuration profile.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

LocationUri

The URI location of the configuration.

Type: String

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

Required: No

Name

The name of the configuration profile.

Type: String

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

Required: No

ValidatorTypes

The types of validators in the configuration profile.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: `JSON_SCHEMA | LAMBDA`

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 V2
- AWS SDK for Ruby V3

DeploymentEvent

An object that describes a deployment event.

Contents

Description

A description of the deployment event. Descriptions include, but are not limited to, the user account or the CloudWatch alarm ARN that initiated a rollback, the percentage of hosts that received the deployment, or in the case of an internal error, a recommendation to attempt a new deployment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

EventType

The type of deployment event. Deployment event types include the start, stop, or completion of a deployment; a percentage update; the start or stop of a bake period; the start or completion of a rollback.

Type: String

Valid Values: `PERCENTAGE_UPDATED | ROLLBACK_STARTED | ROLLBACK_COMPLETED | BAKE_TIME_STARTED | DEPLOYMENT_STARTED | DEPLOYMENT_COMPLETED`

Required: No

OccurredAt

The date and time the event occurred.

Type: Timestamp

Required: No

TriggeredBy

The entity that triggered the deployment event. Events can be triggered by a user, AWS AppConfig, an Amazon CloudWatch alarm, or an internal error.

Type: String

Valid Values: `USER | APPCONFIG | CLOUDWATCH_ALARM | INTERNAL_ERROR`

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 V2
- AWS SDK for Ruby V3

DeploymentStrategy

Contents

DeploymentDurationInMinutes

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

Description

The description of the deployment strategy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

FinalBakeTimeInMinutes

The amount of time AWS AppConfig monitored for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

GrowthFactor

The percentage of targets that received a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

Required: No

GrowthType

The algorithm used to define how percentage grew over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Required: No

Id

The deployment strategy ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

Name

The name of the deployment strategy.

Type: String

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

Required: No

ReplicateTo

Save the deployment strategy to a Systems Manager (SSM) document.

Type: String

Valid Values: `NONE | SSM_DOCUMENT`

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 V2
- AWS SDK for Ruby V3

DeploymentSummary

Information about the deployment.

Contents

CompletedAt

Time the deployment completed.

Type: Timestamp

Required: No

ConfigurationName

The name of the configuration.

Type: String

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

Required: No

ConfigurationVersion

The version of the configuration.

Type: String

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

Required: No

DeploymentDurationInMinutes

Total amount of time the deployment lasted.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

DeploymentNumber

The sequence number of the deployment.

Type: Integer

Required: No

FinalBakeTimeInMinutes

The amount of time AWS AppConfig monitors for alarms before considering the deployment to be complete and no longer eligible for automatic roll back.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1440.

Required: No

GrowthFactor

The percentage of targets to receive a deployed configuration during each interval.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

Required: No

GrowthType

The algorithm used to define how percentage grows over time.

Type: String

Valid Values: `LINEAR | EXPONENTIAL`

Required: No

PercentageComplete

The percentage of targets for which the deployment is available.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 100.0.

Required: No

StartedAt

Time the deployment started.

Type: Timestamp

Required: No

State

The state of the deployment.

Type: String

Valid Values: `BAKING | VALIDATING | DEPLOYING | COMPLETE | ROLLING_BACK | ROLLED_BACK`

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 V2
- AWS SDK for Ruby V3

Environment

Contents

ApplicationId

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

Description

The description of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Id

The environment ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

Monitors

Amazon CloudWatch alarms monitored during the deployment.

Type: Array of Monitor (p. 118) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

Name

The name of the environment.

Type: String

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

Required: No

State

The state of the environment. An environment can be in one of the following states: `READY_FOR_DEPLOYMENT`, `DEPLOYING`, `ROLLING_BACK`, or `ROLLED_BACK`

Type: String

Valid Values: `READY_FOR_DEPLOYMENT | DEPLOYING | ROLLING_BACK | ROLLED_BACK`

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 V2
- AWS SDK for Ruby V3

HostedConfigurationVersionSummary

Information about the configuration.

Contents

ApplicationId

The application ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

ConfigurationProfileId

The configuration profile ID.

Type: String

Pattern: `[a-z0-9]{4,7}`

Required: No

ContentType

A standard MIME type describing the format of the configuration content. For more information, see Content-Type.

Type: String

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

Required: No

Description

A description of the configuration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

VersionNumber

The configuration version.

Type: Integer

Required: No

See Also

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

- AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Monitor

Amazon CloudWatch alarms to monitor during the deployment process.

Contents

AlarmArn

ARN of the Amazon CloudWatch alarm.

Type: String

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

Required: Yes

AlarmRoleArn

ARN of an IAM role for AWS AppConfig to monitor `AlarmArn`.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^((arn):(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):(iam)::\d{12}:role[/].*)$`

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 V2
- AWS SDK for Ruby V3

Validator

A validator provides a syntactic or semantic check to ensure the configuration you want to deploy functions as intended. To validate your application configuration data, you provide a schema or a Lambda function that runs against the configuration. The configuration deployment or update can only proceed when the configuration data is valid.

Contents

Content

Either the JSON Schema content or the Amazon Resource Name (ARN) of an Lambda function.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32768.

Required: Yes

Type

AWS AppConfig supports validators of type `JSON_SCHEMA` and `LAMBDA`

Type: String

Valid Values: `JSON_SCHEMA | LAMBDA`

Required: Yes

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400