# AWS App Runner

## API Reference

## API Version 2020-05-15

# AWS App Runner: API Reference

# Table of Contents


Welcome ..... 1
Actions ..... 2
AssociateCustomDomain ..... 3
Request Syntax ..... 3
Request Parameters ..... 3
Response Syntax ..... 4
Response Elements ..... 4
Errors ..... 5
Examples ..... 5
See Also ..... 6
CreateAutoScalingConfiguration ..... 7
Request Syntax ..... 7
Request Parameters ..... 7
Response Syntax ..... 8
Response Elements ..... 9
Errors ..... 9
Examples ..... 9
See Also ..... 10
CreateConnection ..... 11
Request Syntax ..... 11
Request Parameters ..... 11
Response Syntax ..... 12
Response Elements ..... 12
Errors ..... 12
Examples ..... 12
See Also ..... 13
CreateService ..... 14
Request Syntax ..... 14
Request Parameters ..... 15
Response Syntax ..... 16
Response Elements ..... 17
Errors ..... 17
Examples ..... 18
See Also ..... 21
DeleteAutoScalingConfiguration ..... 22
Request Syntax ..... 22
Request Parameters ..... 22
Response Syntax ..... 22
Response Elements ..... 22
Errors ..... 23
Examples ..... 23
See Also ..... 24
DeleteConnection ..... 26
Request Syntax ..... 26
Request Parameters ..... 26
Response Syntax ..... 26
Response Elements ..... 26
Errors ..... 27
Examples ..... 27
See Also ..... 27
DeleteService ..... 29
Request Syntax ..... 29
Request Parameters ..... 29
Response Syntax ..... 29

Response Elements ..... 30
Errors ..... 31
Examples ..... 31
See Also ..... 32
DescribeAutoScalingConfiguration ..... 33
Request Syntax ..... 33
Request Parameters ..... 33
Response Syntax ..... 33
Response Elements ..... 33
Errors ..... 34
Examples ..... 34
See Also ..... 35
DescribeCustomDomains ..... 37
Request Syntax ..... 37
Request Parameters ..... 37
Response Syntax ..... 38
Response Elements ..... 38
Errors ..... 39
Examples ..... 39
See Also ..... 40
DescribeService ..... 41
Request Syntax ..... 41
Request Parameters ..... 41
Response Syntax ..... 41
Response Elements ..... 42
Errors ..... 42
Examples ..... 43
See Also ..... 44
DisassociateCustomDomain ..... 45
Request Syntax ..... 45
Request Parameters ..... 45
Response Syntax ..... 45
Response Elements ..... 46
Errors ..... 46
Examples ..... 47
See Also ..... 47
ListAutoScalingConfigurations ..... 49
Request Syntax ..... 49
Request Parameters ..... 49
Response Syntax ..... 50
Response Elements ..... 50
Errors ..... 50
Examples ..... 51
See Also ..... 51
ListConnections ..... 53
Request Syntax ..... 53
Request Parameters ..... 53
Response Syntax ..... 54
Response Elements ..... 54
Errors ..... 54
Examples ..... 55
See Also ..... 56
ListOperations ..... 57
Request Syntax ..... 57
Request Parameters ..... 57
Response Syntax ..... 58
Response Elements ..... 58

Errors ... 58
Examples ... 59
See Also ... 59
ListServices ... 60
Request Syntax ... 60
Request Parameters ... 60
Response Syntax ... 60
Response Elements ... 61
Errors ... 61
Examples ... 61
See Also ... 62
ListTagsForResource ... 63
Request Syntax ... 63
Request Parameters ... 63
Response Syntax ... 63
Response Elements ... 63
Errors ... 64
Examples ... 64
See Also ... 65
PauseService ... 66
Request Syntax ... 66
Request Parameters ... 66
Response Syntax ... 66
Response Elements ... 67
Errors ... 68
Examples ... 68
See Also ... 69
ResumeService ... 70
Request Syntax ... 70
Request Parameters ... 70
Response Syntax ... 70
Response Elements ... 71
Errors ... 72
Examples ... 72
See Also ... 73
StartDeployment ... 74
Request Syntax ... 74
Request Parameters ... 74
Response Syntax ... 74
Response Elements ... 74
Errors ... 75
Examples ... 75
See Also ... 75
TagResource ... 77
Request Syntax ... 77
Request Parameters ... 77
Response Elements ... 77
Errors ... 77
Examples ... 78
See Also ... 78
UntagResource ... 80
Request Syntax ... 80
Request Parameters ... 80
Response Elements ... 80
Errors ... 80
Examples ... 81
See Also ... 81

UpdateService ..... 83
Request Syntax ..... 83
Request Parameters ..... 84
Response Syntax ..... 85
Response Elements ..... 86
Errors ..... 86
Examples ..... 87
See Also ..... 88
Data Types ..... 89
AuthenticationConfiguration ..... 90
Contents ..... 90
See Also ..... 90
AutoScalingConfiguration ..... 91
Contents ..... 91
See Also ..... 92
AutoScalingConfigurationSummary ..... 94
Contents ..... 94
See Also ..... 94
CertificateValidationRecord ..... 95
Contents ..... 95
See Also ..... 95
CodeConfiguration ..... 97
Contents ..... 97
See Also ..... 97
CodeConfigurationValues ..... 98
Contents ..... 98
See Also ..... 98
CodeRepository ..... 100
Contents ..... 100
See Also ..... 100
Connection ..... 101
Contents ..... 101
See Also ..... 101
ConnectionSummary ..... 103
Contents ..... 103
See Also ..... 103
CustomDomain ..... 105
Contents ..... 105
See Also ..... 105
EncryptionConfiguration ..... 106
Contents ..... 106
See Also ..... 106
HealthCheckConfiguration ..... 107
Contents ..... 107
See Also ..... 108
ImageConfiguration ..... 109
Contents ..... 109
See Also ..... 109
ImageRepository ..... 110
Contents ..... 110
See Also ..... 110
InstanceConfiguration ..... 111
Contents ..... 111
See Also ..... 111
OperationSummary ..... 112
Contents ..... 112
See Also ..... 113

Service ..... 114
Contents ..... 114
See Also ..... 116
ServiceSummary ..... 117
Contents ..... 117
See Also ..... 118
SourceCodeVersion ..... 119
Contents ..... 119
See Also ..... 119
SourceConfiguration ..... 120
Contents ..... 120
See Also ..... 120
Tag ..... 121
Contents ..... 121
See Also ..... 121
Common Parameters ..... 122
Common Errors ..... 124

# Welcome

AWS App Runner is an application service that provides a fast, simple, and cost-effective way to go directly from an existing container image or source code to a running service in the AWS Cloud in seconds. You don't need to learn new technologies, decide which compute service to use, or understand how to provision and configure AWS resources.

App Runner connects directly to your container registry or source code repository. It provides an automatic delivery pipeline with fully managed operations, high performance, scalability, and security.

For more information about App Runner, see the AWS App Runner Developer Guide. For release information, see the AWS App Runner Release Notes.

To install the Software Development Kits (SDKs), Integrated Development Environment (IDE) Toolkits, and command line tools that you can use to access the API, see Tools for Amazon Web Services.

**Endpoints**

For a list of Region-specific endpoints that App Runner supports, see AWS App Runner endpoints and quotas in the *AWS General Reference*.

This document was last published on October 6, 2021.

# Actions

The following actions are supported:


- AssociateCustomDomain (p. 3)
- CreateAutoScalingConfiguration (p. 7)
- CreateConnection (p. 11)
- CreateService (p. 14)
- DeleteAutoScalingConfiguration (p. 22)
- DeleteConnection (p. 26)
- DeleteService (p. 29)
- DescribeAutoScalingConfiguration (p. 33)
- DescribeCustomDomains (p. 37)
- DescribeService (p. 41)
- DisassociateCustomDomain (p. 45)
- ListAutoScalingConfigurations (p. 49)
- ListConnections (p. 53)
- ListOperations (p. 57)
- ListServices (p. 60)
- ListTagsForResource (p. 63)
- PauseService (p. 66)
- ResumeService (p. 70)
- StartDeployment (p. 74)
- TagResource (p. 77)
- UntagResource (p. 80)
- UpdateService (p. 83)

# AssociateCustomDomain

Associate your own domain name with the AWS App Runner subdomain URL of your App Runner service.

After you call `AssociateCustomDomain` and receive a successful response, use the information in the CustomDomain (p. 105) record that's returned to add CNAME records to your Domain Name System (DNS). For each mapped domain name, add a mapping to the target App Runner subdomain and one or more certificate validation records. App Runner then performs DNS validation to verify that you own or control the domain name that you associated. App Runner tracks domain validity in a certificate stored in AWS Certificate Manager (ACM).

## Request Syntax

```
{
   "DomainName": "string",
   "EnableWWWSubdomain": boolean,
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**DomainName (p. 3)**

A custom domain endpoint to associate. Specify a root domain (for example, `example.com`), a subdomain (for example, `login.example.com` or `admin.login.example.com`), or a wildcard (for example, `*.example.com`).

Type: String

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

Required: Yes

**EnableWWWSubdomain (p. 3)**

Set to `true` to associate the subdomain `www.`*`DomainName`* with the App Runner service in addition to the base domain.

Default: `true`

Type: Boolean

Required: No

**ServiceArn (p. 3)**

The Amazon Resource Name (ARN) of the App Runner service that you want to associate a custom domain name with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

# Response Syntax

```
{
   "CustomDomain": {
      "CertificateValidationRecords": [
         {
            "Name": "string",
            "Status": "string",
            "Type": "string",
            "Value": "string"
         }
      ],
      "DomainName": "string",
      "EnableWWWSubdomain": boolean,
      "Status": "string"
   },
   "DNSTarget": "string",
   "ServiceArn": "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.

**CustomDomain (p. 4)**

A description of the domain name that's being associated.

Type: CustomDomain (p. 105) object

**DNSTarget (p. 4)**

The App Runner subdomain of the App Runner service. The custom domain name is mapped to this target name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**ServiceArn (p. 4)**

The Amazon Resource Name (ARN) of the App Runner service with which a custom domain name is associated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

# Examples

## Associate a domain name and the www subdomain with a service

This example illustrates how to associate a custom domain name that you control with an App Runner service. The domain name is the root domain `example.com`, including the special-case subdomain `www.example.com`.

### Sample Request

```
$ aws apprunner associate-custom-domain --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
  "DomainName": "example.com",
  "EnableWWWSubdomain": true
}
```

### Sample Response

```
{
    "CustomDomain": {
      "CertificateValidationRecords": [
        {
          "Name": "_70d3f50a94f7c72dc28784cf55db2f6b.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_1270c137383c6307b6832db02504c4b0.bsgbmzkfwj.acm-validations.aws."
        },
        {
          "Name": "_287870d3f50a94f7c72dc4cf55db2f6b.www.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_832db01270c137383c6307b62504c4b0.mzkbsgbfwj.acm-validations.aws."
```

```
        }
      ],
      "DomainName": "example.com",
      "EnableWWWSubdomain": true,
      "Status": "CREATING"
    },
    "DNSTarget": "psbqam834h.us-east-1.awsapprunner.com",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

# 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

# CreateAutoScalingConfiguration

Create an AWS App Runner automatic scaling configuration resource. App Runner requires this resource when you create App Runner services that require non-default auto scaling settings. You can share an auto scaling configuration across multiple services.

Create multiple revisions of a configuration by using the same `AutoScalingConfigurationName` and different `AutoScalingConfigurationRevision` values. When you create a service, you can set it to use the latest active revision of an auto scaling configuration or a specific revision.

Configure a higher `MinSize` to increase the spread of your App Runner service over more Availability Zones in the AWS Region. The tradeoff is a higher minimal cost.

Configure a lower `MaxSize` to control your cost. The tradeoff is lower responsiveness during peak demand.

## Request Syntax

```
{
   "AutoScalingConfigurationName": "string",
   "MaxConcurrency": number,
   "MaxSize": number,
   "MinSize": number,
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationName (p. 7)**

A name for the auto scaling configuration. When you use it for the first time in an AWS Region, App Runner creates revision number `1` of this name. When you use the same name in subsequent calls, App Runner creates incremental revisions of the configuration.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: Yes

**MaxConcurrency (p. 7)**

The maximum number of concurrent requests that you want an instance to process. If the number of concurrent requests exceeds this limit, App Runner scales up your service.

Default: `100`

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

**MaxSize (p. 7)**

The maximum number of instances that your service scales up to. At most `MaxSize` instances actively serve traffic for your service.

Default: `25`

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

**MinSize (p. 7)**

The minimum number of instances that App Runner provisions for your service. The service always has at least `MinSize` provisioned instances. Some of them actively serve traffic. The rest of them (provisioned and inactive instances) are a cost-effective compute capacity reserve and are ready to be quickly activated. You pay for memory usage of all the provisioned instances. You pay for CPU usage of only the active subset.

App Runner temporarily doubles the number of provisioned instances during deployments, to maintain the same capacity for both old and new code.

Default: `1`

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

**Tags (p. 7)**

A list of metadata items that you can associate with your auto scaling configuration resource. A tag is a key-value pair.

Type: Array of Tag (p. 121) objects

Required: No

# Response Syntax

```
{
   "AutoScalingConfiguration": {
      "AutoScalingConfigurationArn": "string",
      "AutoScalingConfigurationName": "string",
      "AutoScalingConfigurationRevision": number,
      "CreatedAt": number,
      "DeletedAt": number,
      "Latest": boolean,
      "MaxConcurrency": number,
      "MaxSize": number,
      "MinSize": number,
      "Status": "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.

**AutoScalingConfiguration (p. 8)**

A description of the App Runner auto scaling configuration that's created by this request.

Type: AutoScalingConfiguration (p. 91) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ServiceQuotaExceededException**

App Runner can't create this resource. You've reached your account quota for this resource type.

For App Runner per-resource quotas, see AWS App Runner endpoints and quotas in the *AWS General Reference*.

HTTP Status Code: 400

# Examples

## Create a high availability auto scaling configuration

This example illustrates how to create an auto scaling configuration optimized for high availability by setting `MinSize` to `5`. With this configuration, App Runner attempts to spread your service instances over the most Availability Zones possible, up to five, depending on the AWS Region.

The call returns an `AutoScalingConfiguration` object with the other settings set to their defaults. In the example, this is the first call to create a configuration named `high-availability`. The revision is set to `1`, and it's the latest revision.

### Sample Request

```
$ aws apprunner create-auto-scaling-configuration --cli-input-json
{
```

```
  "AutoScalingConfigurationName": "high-availability",
  "MinSize": 5
}
```

### Sample Response

```
{
  "AutoScalingConfiguration": {
    "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-
availability/1/2f50e7656d7819fead0f59672e68042e",
    "AutoScalingConfigurationName": "high-availability",
    "AutoScalingConfigurationRevision": 1,
    "CreatedAt": "2020-11-03T00:29:17Z",
    "Latest": true,
    "MaxConcurrency": 100,
    "MaxSize": 50,
    "MinSize": 5
  }
}
```

## 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

# CreateConnection

Create an AWS App Runner connection resource. App Runner requires a connection resource when you create App Runner services that access private repositories from certain third-party providers. You can share a connection across multiple services.

A connection resource is needed to access GitHub repositories. GitHub requires a user interface approval process through the App Runner console before you can use the connection.

## Request Syntax

```
{
   "ConnectionName": "string",
   "ProviderType": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ConnectionName (p. 11)**

A name for the new connection. It must be unique across all App Runner connections for the AWS account in the AWS Region.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: Yes

**ProviderType (p. 11)**

The source repository provider.

Type: String

Valid Values: `GITHUB`

Required: Yes

**Tags (p. 11)**

A list of metadata items that you can associate with your connection resource. A tag is a key-value pair.

Type: Array of Tag (p. 121) objects

Required: No

# Response Syntax

```
{
   "Connection": {
      "ConnectionArn": "string",
      "ConnectionName": "string",
      "CreatedAt": number,
      "ProviderType": "string",
      "Status": "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.

**Connection (p. 12)**

A description of the App Runner connection that's created by this request.

Type: Connection (p. 101) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ServiceQuotaExceededException**

App Runner can't create this resource. You've reached your account quota for this resource type.

For App Runner per-resource quotas, see AWS App Runner endpoints and quotas in the *AWS General Reference*.

HTTP Status Code: 400

# Examples

## Create a GitHub connection

This example illustrates how to create a connection to a private GitHub code repository. The connection status after a successful call is `PENDING_HANDSHAKE`. This is because an authentication handshake with

the provider still hasn't happened. Complete the handshake using the App Runner console. For more information, see Managing App Runner connections in the *AWS App Runner Developer Guide*.

### Sample Request

```
$ aws apprunner create-connection --cli-input-json
{
  "ConnectionName": "my-github-connection",
  "ProviderType": "GITHUB"
}
```

### Sample Response

```
{
  "Connection": {
    "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection",
    "ConnectionName": "my-github-connection",
    "Status": "PENDING_HANDSHAKE",
    "CreatedAt": "2020-11-03T00:32:51Z",
    "ProviderType": "GITHUB"
  }
}
```

## 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

# CreateService

Create an AWS App Runner service. After the service is created, the action also automatically starts a deployment.

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations call to track the operation's progress.

## Request Syntax

```
{
   "AutoScalingConfigurationArn": "string",
   "EncryptionConfiguration": {
      "KmsKey": "string"
   },
   "HealthCheckConfiguration": {
      "HealthyThreshold": number,
      "Interval": number,
      "Path": "string",
      "Protocol": "string",
      "Timeout": number,
      "UnhealthyThreshold": number
   },
   "InstanceConfiguration": {
      "Cpu": "string",
      "InstanceRoleArn": "string",
      "Memory": "string"
   },
   "ServiceName": "string",
   "SourceConfiguration": {
      "AuthenticationConfiguration": {
         "AccessRoleArn": "string",
         "ConnectionArn": "string"
      },
      "AutoDeploymentsEnabled": boolean,
      "CodeRepository": {
         "CodeConfiguration": {
            "CodeConfigurationValues": {
               "BuildCommand": "string",
               "Port": "string",
               "Runtime": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ConfigurationSource": "string"
         },
         "RepositoryUrl": "string",
         "SourceCodeVersion": {
            "Type": "string",
            "Value": "string"
         }
      },
      "ImageRepository": {
         "ImageConfiguration": {
            "Port": "string",
            "RuntimeEnvironmentVariables": {
               "string" : "string"
            },
            "StartCommand": "string"
         },
```

```
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
        }
    },
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

# Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationArn (p. 14)**

The Amazon Resource Name (ARN) of an App Runner automatic scaling configuration resource that you want to associate with your service. If not provided, App Runner associates the latest revision of a default auto scaling configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**EncryptionConfiguration (p. 14)**

An optional custom encryption key that App Runner uses to encrypt the copy of your source repository that it maintains and your service logs. By default, App Runner uses an AWS managed key.

Type: EncryptionConfiguration (p. 106) object

Required: No

**HealthCheckConfiguration (p. 14)**

The settings for the health check that AWS App Runner performs to monitor the health of your service.

Type: HealthCheckConfiguration (p. 107) object

Required: No

**InstanceConfiguration (p. 14)**

The runtime configuration of instances (scaling units) of the App Runner service.

Type: InstanceConfiguration (p. 111) object

Required: No

**ServiceName (p. 14)**

A name for the new service. It must be unique across all the running App Runner services in your AWS account in the AWS Region.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 40.

Pattern: `[A-Za-z0-9][A-Za-z0-9-_]{3,39}`

Required: Yes

**SourceConfiguration (p. 14)**

The source to deploy to the App Runner service. It can be a code or an image repository.

Type: SourceConfiguration (p. 120) object

Required: Yes

**Tags (p. 14)**

An optional list of metadata items that you can associate with your service resource. A tag is a key-value pair.

Type: Array of Tag (p. 121) objects

Required: No

# Response Syntax

```
{
   "OperationId": "string",
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
```

```
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```


# Response Elements

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

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

**OperationId (p. 16)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

**Service (p. 16)**

A description of the App Runner service that's created by this request.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ServiceQuotaExceededException**

App Runner can't create this resource. You've reached your account quota for this resource type.

For App Runner per-resource quotas, see AWS App Runner endpoints and quotas in the *AWS General Reference*.

HTTP Status Code: 400

# Examples

## Create a source code repository service

This example illustrates how to create an App Runner service based on a Python source code repository.

### Sample Request

```
$ aws apprunner create-service --cli-input-json
{
  "ServiceName": "python-app",
  "SourceConfiguration": {
    "AuthenticationConfiguration": {
      "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
    },
    "AutoDeploymentsEnabled": true,
    "CodeRepository": {
      "RepositoryUrl": "https://github.com/my-account/python-hello",
      "SourceCodeVersion": {
        "Type": "BRANCH",
        "Value": "main"
      },
      "CodeConfiguration": {
        "ConfigurationSource": "API",
        "CodeConfigurationValues": {
          "Runtime": "PYTHON_3",
          "BuildCommand": "pip install -r requirements.txt",
          "StartCommand": "python server.py",
          "Port": "8080",
          "RuntimeEnvironmentVariables": [
            {
              "NAME": "Jane"
            }
          ]
        }
      }
    }
  },
```

```
  "InstanceConfiguration": {
    "CPU": "1 vCPU",
    "Memory": "3 GB"
  }
}
```

### Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-20T19:05:25Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "pip install -r requirements.txt",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
              }
            ],
            "StartCommand": "python server.py"
          },
          "ConfigurationSource": "Api"
        },
        "RepositoryUrl": "https://github.com/my-account/python-hello",
        "SourceCodeVersion": {
          "Type": "BRANCH",
          "Value": "main"
        }
      }
    },
    "Status": "OPERATION_IN_PROGRESS",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```

## Create a source image repository service

This example illustrates how to create an App Runner service based on an image stored in Elastic Container Registry (ECR).

### Sample Request

```
$ aws apprunner create-service --cli-input-json
```

```
{
  "ServiceName": "golang-container-app",
  "SourceConfiguration": {
    "AuthenticationConfiguration": {
      "AccessRoleArn": "arn:aws:iam::123456789012:role/my-ecr-role"
    },
    "AutoDeploymentsEnabled": true,
    "ImageRepository": {
      "ImageIdentifier": "123456789012.dkr.ecr.us-east-1.amazonaws.com/golang-app:latest",
      "ImageConfiguration": {
        "Port": "8080",
        "RuntimeEnvironmentVariables": [
          {
            "NAME": "Jane"
          }
        ]
      },
      "ImageRepositoryType": "ECR"
    }
  },
  "InstanceConfiguration": {
    "CPU": "1 vCPU",
    "Memory": "3 GB"
  }
}
```

## Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
  "Service": {
    "CreatedAt": "2020-11-06T23:15:30Z",
    "UpdatedAt": "2020-11-06T23:15:30Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/golang-container-
app/51728f8a20ce46d39b25398a6c8e9d1a",
    "ServiceId": "51728f8a20ce46d39b25398a6c8e9d1a",
    "ServiceName": "golang-container-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "AccessRoleArn": "arn:aws:iam::123456789012:role/my-ecr-role"
      },
      "AutoDeploymentsEnabled": true,
      "ImageRepository": {
        "ImageIdentifier": "123456789012.dkr.ecr.us-east-1.amazonaws.com/golang-
app:latest",
        "ImageConfiguration": {
          "Port": "8080",
          "RuntimeEnvironmentVariables": [
            {
              "NAME": "Jane"
            }
          ]
        },
        "ImageRepositoryType": "ECR"
      }
    },
    "Status": "OPERATION_IN_PROGRESS",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```

# 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

# DeleteAutoScalingConfiguration

Delete an AWS App Runner automatic scaling configuration resource. You can delete a specific revision or the latest active revision. You can't delete a configuration that's used by one or more App Runner services.

## Request Syntax

```
{
   "AutoScalingConfigurationArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationArn (p. 22)**

The Amazon Resource Name (ARN) of the App Runner auto scaling configuration that you want to delete.

The ARN can be a full auto scaling configuration ARN, or a partial ARN ending with either `.../name` or `.../name/revision` . If a revision isn't specified, the latest active revision is deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "AutoScalingConfiguration": {
      "AutoScalingConfigurationArn": "string",
      "AutoScalingConfigurationName": "string",
      "AutoScalingConfigurationRevision": number,
      "CreatedAt": number,
      "DeletedAt": number,
      "Latest": boolean,
      "MaxConcurrency": number,
      "MaxSize": number,
      "MinSize": number,
      "Status": "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.

**AutoScalingConfiguration (p. 22)**

A description of the App Runner auto scaling configuration that this request just deleted.

Type: AutoScalingConfiguration (p. 91) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Delete the latest active revision of an auto scaling configuration

This example illustrates how to delete the latest active revision of an App Runner auto scaling configuration. To delete the latest active revision, specify an Amazon Resource Name (ARN) that ends with the configuration name, without the revision component.

In the example, two revisions exist before this action. Therefore, revision `2` (the latest) is deleted. However, it now shows `"Latest": false`, because, after being deleted, it isn't the latest active revision anymore.

### Sample Request

```
$ aws apprunner delete-auto-scaling-configuration --cli-input-json
{
  "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability"
}
```

### Sample Response

```
{
  "AutoScalingConfiguration": {
    "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability/2/
e76562f50d78042e819fead0f59672e6",
```

```
    "AutoScalingConfigurationName": "high-availability",
    "AutoScalingConfigurationRevision": 2,
    "CreatedAt": "2021-02-25T17:42:59Z",
    "DeletedAt": "2021-03-02T08:07:06Z",
    "Latest": false,
    "MaxConcurrency": 30,
    "MaxSize": 90,
    "MinSize": 5
  }
}
```

## Delete a specific revision of an auto scaling configuration

This example illustrates how to delete a specific revision of an App Runner auto scaling configuration. To delete a specific revision, specify an ARN that includes the revision number.

In the example, several revisions exist before this action. The action deletes revision `1`.

### Sample Request

```
$ aws apprunner delete-auto-scaling-configuration --cli-input-json
{
  "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability/1"
}
```

### Sample Response

```
{
  "AutoScalingConfiguration": {
    "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-
availability/1/2f50e7656d7819fead0f59672e68042e",
    "AutoScalingConfigurationName": "high-availability",
    "AutoScalingConfigurationRevision": 1,
    "CreatedAt": "2021-02-25T17:42:59Z",
    "DeletedAt": "2021-03-02T08:07:06Z",
    "Latest": false,
    "MaxConcurrency": 100,
    "MaxSize": 50,
    "MinSize": 5
  }
}
```

# 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

# DeleteConnection

Delete an AWS App Runner connection. You must first ensure that there are no running App Runner services that use this connection. If there are any, the `DeleteConnection` action fails.

## Request Syntax

```
{
   "ConnectionArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ConnectionArn (p. 26)**

The Amazon Resource Name (ARN) of the App Runner connection that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "Connection": {
      "ConnectionArn": "string",
      "ConnectionName": "string",
      "CreatedAt": number,
      "ProviderType": "string",
      "Status": "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.

**Connection (p. 26)**

A description of the App Runner connection that this request just deleted.

Type: Connection (p. 101) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Delete a connection

This example illustrates deleting an App Runner connection. The connection status after a successful call is `DELETED`. This is because the connection is no longer available.

### Sample Request

```
$ aws apprunner delete-connection --cli-input-json
{
  "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection"
}
```

### Sample Response

```
{
  "Connection": {
    "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection",
    "ConnectionName": "my-github-connection",
    "Status": "DELETED",
    "CreatedAt": "2020-11-03T00:32:51Z",
    "ProviderType": "GITHUB"
  }
}
```

# 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

# DeleteService

Delete an AWS App Runner service.

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations (p. 57) call to track the operation's progress.

## Request Syntax

```
{
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ServiceArn (p. 29)**

The Amazon Resource Name (ARN) of the App Runner service that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "OperationId": "string",
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
```

```
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```


# Response Elements

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

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

**OperationId (p. 29)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations (p. 57) call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

**Service (p. 29)**

A description of the App Runner service that this request just deleted.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Delete a service

This example illustrates how to delete an App Runner service.

### Sample Request

```
$ aws apprunner delete-service --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
```

```
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-23T12:41:37Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "[pip install -r requirements.txt]",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
              }
            ],
            "StartCommand": "python server.py"
          },
          "ConfigurationSource": "Api"
        },
        "RepositoryUrl": "https://github.com/my-account/python-hello",
        "SourceCodeVersion": {
          "Type": "BRANCH",
          "Value": "main"
        }
      }
    },
    "Status": "OPERATION_IN_PROGRESS",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```


# 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

# DescribeAutoScalingConfiguration

Return a full description of an AWS App Runner automatic scaling configuration resource.

## Request Syntax

```
{
   "AutoScalingConfigurationArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationArn (p. 33)**

The Amazon Resource Name (ARN) of the App Runner auto scaling configuration that you want a description for.

The ARN can be a full auto scaling configuration ARN, or a partial ARN ending with either `.../name` or `.../name/revision` . If a revision isn't specified, the latest active revision is described.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "AutoScalingConfiguration": {
      "AutoScalingConfigurationArn": "string",
      "AutoScalingConfigurationName": "string",
      "AutoScalingConfigurationRevision": number,
      "CreatedAt": number,
      "DeletedAt": number,
      "Latest": boolean,
      "MaxConcurrency": number,
      "MaxSize": number,
      "MinSize": number,
      "Status": "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.

**AutoScalingConfiguration (p. 33)**

A full description of the App Runner auto scaling configuration that you specified in this request.

Type: AutoScalingConfiguration (p. 91) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Describe the latest active revision of an auto scaling configuration

This example illustrates how to get a description of the latest active revision of an App Runner auto scaling configuration. To describe the latest active revision, specify an ARN that ends with the configuration name, without the revision component.

In the example, two revisions exist. Therefore, revision `2` (the latest) is described. The resulting object shows `"Latest": true`.

### Sample Request

```
$ aws apprunner describe-auto-scaling-configuration --cli-input-json
{
  "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability"
}
```

### Sample Response

```
{
  "AutoScalingConfiguration": {
```

```
    "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability/2/
e76562f50d78042e819fead0f59672e6",
    "AutoScalingConfigurationName": "high-availability",
    "AutoScalingConfigurationRevision": 2,
    "CreatedAt": "2021-02-25T17:42:59Z",
    "Latest": true,
    "MaxConcurrency": 30,
    "MaxSize": 90,
    "MinSize": 5
  }
}
```

## Describe a specific revision of an auto scaling configuration

This example illustrates how to get a description of a specific revision of an App Runner auto scaling configuration. To describe a specific revision, specify an ARN that includes the revision number.

In the example, several revisions exist and revision `1` is queried. The resulting object shows `"Latest": false`.

### Sample Request

```
$ aws apprunner describe-auto-scaling-configuration --cli-input-json
{
  "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-availability/1"
}
```

### Sample Response

```
{
  "AutoScalingConfiguration": {
    "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-
availability/1/2f50e7656d7819fead0f59672e68042e",
    "AutoScalingConfigurationName": "high-availability",
    "AutoScalingConfigurationRevision": 1,
    "CreatedAt": "2021-02-25T17:42:59Z",
    "Latest": false,
    "MaxConcurrency": 100,
    "MaxSize": 50,
    "MinSize": 5
  }
}
```

# 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

# DescribeCustomDomains

Return a description of custom domain names that are associated with an AWS App Runner service.

## Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**MaxResults (p. 37)**

The maximum number of results that each response (result page) can include. It's used for a paginated request.

If you don't specify `MaxResults`, the request retrieves all available results in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

**NextToken (p. 37)**

A token from a previous result page. It's used for a paginated request. The request retrieves the next result page. All other parameter values must be identical to the ones that are specified in the initial request.

If you don't specify `NextToken`, the request retrieves the first result page.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**ServiceArn (p. 37)**

The Amazon Resource Name (ARN) of the App Runner service that you want associated custom domain names to be described for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

# Response Syntax

```
{
   "CustomDomains": [
      {
         "CertificateValidationRecords": [
            {
               "Name": "string",
               "Status": "string",
               "Type": "string",
               "Value": "string"
            }
         ],
         "DomainName": "string",
         "EnableWWWSubdomain": boolean,
         "Status": "string"
      }
   ],
   "DNSTarget": "string",
   "NextToken": "string",
   "ServiceArn": "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.

**CustomDomains (p. 38)**

A list of descriptions of custom domain names that are associated with the service. In a paginated request, the request returns up to `MaxResults` records per call.

Type: Array of CustomDomain (p. 105) objects

**DNSTarget (p. 38)**

The App Runner subdomain of the App Runner service. The associated custom domain names are mapped to this target name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**NextToken (p. 38)**

The token that you can pass in a subsequent request to get the next result page. It's returned in a paginated request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**ServiceArn (p. 38)**

The Amazon Resource Name (ARN) of the App Runner service whose associated custom domain names you want to describe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Get descriptions of custom domain names associated with a service

This example illustrates how to get descriptions and status of the custom domain names associated with an App Runner service.

### Sample Request

```
$ aws apprunner describe-custom-domains --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "CustomDomains": [
    {
```

```
      "CertificateValidationRecords": [
        {
          "Name": "_70d3f50a94f7c72dc28784cf55db2f6b.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_1270c137383c6307b6832db02504c4b0.bsgbmzkfwj.acm-validations.aws."
        },
        {
          "Name": "_287870d3f50a94f7c72dc4cf55db2f6b.www.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_832db01270c137383c6307b62504c4b0.mzkbsgbfwj.acm-validations.aws."
        }
      ],
      "DomainName": "example.com",
      "EnableWWWSubdomain": true,
      "Status": "PENDING_CERTIFICATE_DNS_VALIDATION"
    },
    {
      "CertificateValidationRecords": [
        {
          "Name": "_a94f784c70d3f507c72dc28f55db2f6b.deals.example.com",
          "Status": "SUCCESS",
          "Type": "CNAME",
          "Value": "_2db02504c1270c137383c6307b6834b0.bsgbmzkfwj.acm-validations.aws."
        }
      ],
      "DomainName": "deals.example.com",
      "EnableWWWSubdomain": false,
      "Status": "ACTIVE"
    }
  ],
  "DNSTarget": "psbqam834h.us-east-1.awsapprunner.com",
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```


# 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

# DescribeService

Return a full description of an AWS App Runner service.

## Request Syntax

```
{
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ServiceArn (p. 41)**

The Amazon Resource Name (ARN) of the App Runner service that you want a description for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
```

```
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```

# Response Elements

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

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

**Service (p. 41)**

A full description of the App Runner service that you specified in this request.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Describe a service

This example illustrates how to get a description of an App Runner service.

### Sample Request

```
$ aws apprunner describe-service --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-23T12:41:37Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "[pip install -r requirements.txt]",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
              }
```

```
            ],
            "StartCommand": "python server.py"
          },
          "ConfigurationSource": "Api"
        },
        "RepositoryUrl": "https://github.com/my-account/python-hello",
        "SourceCodeVersion": {
          "Type": "BRANCH",
          "Value": "main"
        }
      }
    },
    "Status": "RUNNING",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```

# 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

# DisassociateCustomDomain

Disassociate a custom domain name from an AWS App Runner service.

Certificates tracking domain validity are associated with a custom domain and are stored in AWS Certificate Manager (ACM). These certificates aren't deleted as part of this action. App Runner delays certificate deletion for 30 days after a domain is disassociated from your service.

## Request Syntax

```
{
   "DomainName": "string",
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**DomainName (p. 45)**

The domain name that you want to disassociate from the App Runner service.

Type: String

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

Required: Yes

**ServiceArn (p. 45)**

The Amazon Resource Name (ARN) of the App Runner service that you want to disassociate a custom domain name from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "CustomDomain": {
      "CertificateValidationRecords": [
         {
            "Name": "string",
            "Status": "string",
            "Type": "string",
            "Value": "string"
         }
      ],
```

```
      "DomainName": "string",
      "EnableWWWSubdomain": boolean,
      "Status": "string"
   },
   "DNSTarget": "string",
   "ServiceArn": "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.

**CustomDomain (p. 45)**

A description of the domain name that's being disassociated.

Type: CustomDomain (p. 105) object

**DNSTarget (p. 45)**

The App Runner subdomain of the App Runner service. The disassociated custom domain name was mapped to this target name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**ServiceArn (p. 45)**

The Amazon Resource Name (ARN) of the App Runner service that a custom domain name is disassociated from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Disassociate a domain name from a service

This example illustrates how to disassociate the domain `example.com` from an App Runner service. The call also disassociates the subdomain `www.example.com` that was associated together with the root domain.

### Sample Request

```
$ aws apprunner disassociate-custom-domain --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
  "DomainName": "example.com"
}
```

### Sample Response

```
{
    "CustomDomain": {
      "CertificateValidationRecords": [
        {
          "Name": "_70d3f50a94f7c72dc28784cf55db2f6b.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_1270c137383c6307b6832db02504c4b0.bsgbmzkfwj.acm-validations.aws."
        },
        {
          "Name": "_287870d3f50a94f7c72dc4cf55db2f6b.www.example.com",
          "Status": "PENDING_VALIDATION",
          "Type": "CNAME",
          "Value": "_832db01270c137383c6307b62504c4b0.mzkbsgbfwj.acm-validations.aws."
        }
      ],
      "DomainName": "example.com",
      "EnableWWWSubdomain": true,
      "Status": "DELETING"
    },
    "DNSTarget": "psbqam834h.us-east-1.awsapprunner.com",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
  }
}
```

# 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

# ListAutoScalingConfigurations

Returns a list of AWS App Runner automatic scaling configurations in your AWS account. You can query the revisions for a specific configuration name or the revisions for all configurations in your account. You can optionally query only the latest revision of each requested name.

## Request Syntax

```
{
   "AutoScalingConfigurationName": "string",
   "LatestOnly": boolean,
   "MaxResults": number,
   "NextToken": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationName (p. 49)**

The name of the App Runner auto scaling configuration that you want to list. If specified, App Runner lists revisions that share this name. If not specified, App Runner returns revisions of all configurations.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**LatestOnly (p. 49)**

Set to `true` to list only the latest revision for each requested configuration name.

Keep as `false` to list all revisions for each requested configuration name.

Default: `false`

Type: Boolean

Required: No

**MaxResults (p. 49)**

The maximum number of results to include in each response (result page). It's used for a paginated request.

If you don't specify `MaxResults`, the request retrieves all available results in a single response.

Type: Integer

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

Required: No

**NextToken (p. 49)**

A token from a previous result page. It's used for a paginated request. The request retrieves the next result page. All other parameter values must be identical to the ones that are specified in the initial request.

If you don't specify `NextToken`, the request retrieves the first result page.

Type: String

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

Pattern: `.*`

Required: No

# Response Syntax

```
{
   "AutoScalingConfigurationSummaryList": [
      {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": 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.

**AutoScalingConfigurationSummaryList (p. 50)**

A list of summary information records for auto scaling configurations. In a paginated request, the request returns up to `MaxResults` records for each call.

Type: Array of AutoScalingConfigurationSummary (p. 94) objects

**NextToken (p. 50)**

The token that you can pass in a subsequent request to get the next result page. It's returned in a paginated request.

Type: String

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

Pattern: `.*`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

# Examples

## Paginated listing of App Runner auto scaling configurations

This example illustrates how to list all App Runner auto scaling configurations in your AWS account. Up to five auto scaling configurations are listed in each response. `AutoScalingConfigurationName` and `LatestOnly` aren't specified. Their defaults cause the latest revision of all configurations to be listed.

In this example, the response includes two results and there aren't additional ones, so no `NextToken` is returned.

### Sample Request

```
$ aws apprunner list-auto-scaling-configurations --cli-input-json
{
  "MaxResults": 5
}
```

### Sample Response

```
{
  "AutoScalingConfigurationSummaryList": [
    {
      "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/high-
availability/1/2f50e7656d7819fead0f59672e68042e",
      "AutoScalingConfigurationName": "high-availability",
      "AutoScalingConfigurationRevision": 1,
    },
    {
      "AutoScalingConfigurationArn": "arn:aws:apprunner:us-
east-1:123456789012:autoscalingconfiguration/low-cost/1/50d7804e7656fead0f59672e62f2e819",
      "AutoScalingConfigurationName": "low-cost",
      "AutoScalingConfigurationRevision": 1,
    }
  ]
}
```

# 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

# ListConnections

Returns a list of AWS App Runner connections that are associated with your AWS account.

## Request Syntax

```
{
   "ConnectionName": "string",
   "MaxResults": number,
   "NextToken": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ConnectionName (p. 53)**

If specified, only this connection is returned. If not specified, the result isn't filtered by name.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**MaxResults (p. 53)**

The maximum number of results to include in each response (result page). Used for a paginated request.

If you don't specify `MaxResults`, the request retrieves all available results in a single response.

Type: Integer

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

Required: No

**NextToken (p. 53)**

A token from a previous result page. Used for a paginated request. The request retrieves the next result page. All other parameter values must be identical to the ones specified in the initial request.

If you don't specify `NextToken`, the request retrieves the first result page.

Type: String

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

Pattern: `.*`

Required: No

# Response Syntax

```
{
   "ConnectionSummaryList": [
      {
         "ConnectionArn": "string",
         "ConnectionName": "string",
         "CreatedAt": number,
         "ProviderType": "string",
         "Status": "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.

**ConnectionSummaryList (p. 54)**

A list of summary information records for connections. In a paginated request, the request returns up to `MaxResults` records for each call.

Type: Array of ConnectionSummary (p. 103) objects

**NextToken (p. 54)**

The token that you can pass in a subsequent request to get the next result page. Returned in a paginated request.

Type: String

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

Pattern: `.*`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

# Examples

## List all connections

This example illustrates how to list all App Runner connections in the AWS account.

### Sample Request

```
$ aws apprunner list-connections --cli-input-json
{
}
```

### Sample Response

```
{
  "ConnectionSummaryList": [
    {
      "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection",
      "ConnectionName": "my-github-connection",
      "Status": "AVAILABLE",
      "CreatedAt": "2020-11-03T00:32:51Z",
      "ProviderType": "GITHUB"
    },
    {
      "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-org-
connection",
      "ConnectionName": "my-github-org-connection",
      "Status": "AVAILABLE",
      "CreatedAt": "2020-11-03T02:54:17Z",
      "ProviderType": "GITHUB"
    }
  ]
}
```

## List connection by name

This example illustrates how to list a connection by its name.

### Sample Request

```
$ aws apprunner list-connections --cli-input-json
{
  "ConnectionName": "my-github-org-connection"
}
```

### Sample Response

```
{
  "ConnectionSummaryList": [
    {
      "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-org-
connection",
      "ConnectionName": "my-github-org-connection",
      "Status": "AVAILABLE",
      "CreatedAt": "2020-11-03T02:54:17Z",
      "ProviderType": "GITHUB"
```

```
    }
  ]
}
```

# 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

# ListOperations

Return a list of operations that occurred on an AWS App Runner service.

The resulting list of OperationSummary (p. 112) objects is sorted in reverse chronological order. The first object on the list represents the last started operation.

## Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**MaxResults (p. 57)**

The maximum number of results to include in each response (result page). It's used for a paginated request.

If you don't specify `MaxResults`, the request retrieves all available results in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

**NextToken (p. 57)**

A token from a previous result page. It's used for a paginated request. The request retrieves the next result page. All other parameter values must be identical to the ones specified in the initial request.

If you don't specify `NextToken`, the request retrieves the first result page.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**ServiceArn (p. 57)**

The Amazon Resource Name (ARN) of the App Runner service that you want a list of operations for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

# Response Syntax

```
{
   "NextToken": "string",
   "OperationSummaryList": [
      {
         "EndedAt": number,
         "Id": "string",
         "StartedAt": number,
         "Status": "string",
         "TargetArn": "string",
         "Type": "string",
         "UpdatedAt": number
      }
   ]
}
```

# Response Elements

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

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

**NextToken (p. 58)**

The token that you can pass in a subsequent request to get the next result page. It's returned in a paginated request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**OperationSummaryList (p. 58)**

A list of operation summary information records. In a paginated request, the request returns up to `MaxResults` records for each call.

Type: Array of OperationSummary (p. 112) objects

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## List operations that occurred on a service

This example illustrates how to list all operations that occurred on an App Runner service so far. In this example, the service is new and only a single operation of type `CREATE_SERVICE` has occurred.

### Sample Request

```
$ aws apprunner list-operations --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "OperationSummaryList": [
    {
      "EndedAt": 1606156217,
      "Id": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
      "StartedAt": 1606156014,
      "Status": "SUCCEEDED",
      "TargetArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
      "Type": "CREATE_SERVICE",
      "UpdatedAt": 1606156217
    }
  ]
}
```

# 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

# ListServices

Returns a list of running AWS App Runner services in your AWS account.

## Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**MaxResults (p. 60)**

The maximum number of results to include in each response (result page). It's used for a paginated request.

If you don't specify `MaxResults`, the request retrieves all available results in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

**NextToken (p. 60)**

A token from a previous result page. Used for a paginated request. The request retrieves the next result page. All other parameter values must be identical to the ones specified in the initial request.

If you don't specify `NextToken`, the request retrieves the first result page.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "ServiceSummaryList": [
      {
         "CreatedAt": number,
         "ServiceArn": "string",
         "ServiceId": "string",
         "ServiceName": "string",
```

```
        "ServiceUrl": "string",
        "Status": "string",
        "UpdatedAt": number
      }
   ]
}
```

# Response Elements

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

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

**NextToken (p. 60)**

The token that you can pass in a subsequent request to get the next result page. It's returned in a paginated request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

**ServiceSummaryList (p. 60)**

A list of service summary information records. In a paginated request, the request returns up to `MaxResults` records for each call.

Type: Array of ServiceSummary (p. 117) objects

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

# Examples

## Paginated listing of App Runner services

This example illustrates how to list all App Runner services in the AWS account. Up to two services are listed in each response. This example shows the first request. The response includes two results and a token that can be used in the next request. When a subsequent response doesn't include a token, all services have been listed.

### Sample Request

```
$ aws apprunner list-services --cli-input-json
{
  "MaxResults": 2
}
```

### Sample Response

```
{
  "NextToken":
 "eyJDdXN0b21lckFjY291bnRJZCI6IjI3MDIwNTQwMjg0NSIsIlNlcnZpY2VTdGF0dXNDb2RlIjoiUFJPVklTU9OSU5HIiwiSGFza
  "ServiceSummaryList": [
    {
      "CreatedAt": "2020-11-20T19:05:25Z",
      "UpdatedAt": "2020-11-23T12:41:37Z",
      "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
      "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
      "ServiceName": "python-app",
      "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
      "Status": "RUNNING"
    },
    {
      "CreatedAt": "2020-11-06T23:15:30Z",
      "UpdatedAt": "2020-11-23T13:21:22Z",
      "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/golang-container-app/
ab8f94cfe29a460fb8760afd2ee87555",
      "ServiceId": "ab8f94cfe29a460fb8760afd2ee87555",
      "ServiceName": "golang-container-app",
      "ServiceUrl": "e2m8rrrx33.us-east-1.awsapprunner.com",
      "Status": "RUNNING"
    }
  ]
}
```

# 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

List tags that are associated with for an AWS App Runner resource. The response contains a list of tag key-value pairs.

## Request Syntax

```
{
   "ResourceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ResourceArn (p. 63)**

The Amazon Resource Name (ARN) of the resource that a tag list is requested for.

It must be the ARN of an App Runner resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

## Response Elements

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

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

**Tags (p. 63)**

A list of the tag key-value pairs that are associated with the resource.

Type: Array of Tag (p. 121) objects

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## List tags associated with an App Runner service

This example illustrates how to list all the tags that are associated with an App Runner service.

### Sample Request

```
$ aws apprunner list-tags-for-resource --cli-input-json
{
  "ResourceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "Tags": [
    {
      "Key": "Department",
      "Value": "Retail"
    },
    {
      "Key": "CustomerId",
      "Value": "56439872357912"
    }
  ]
```

```
}
```

# 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

# PauseService

Pause an active AWS App Runner service. App Runner reduces compute capacity for the service to zero and loses state (for example, ephemeral storage is removed).

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations (p. 57) call to track the operation's progress.

## Request Syntax

```
{
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ServiceArn (p. 66)**

The Amazon Resource Name (ARN) of the App Runner service that you want to pause.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "OperationId": "string",
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
```

```
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```

# Response Elements

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

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

**OperationId (p. 66)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations (p. 57) call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

**Service (p. 66)**

A description of the App Runner service that this request just paused.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Pause a service

This example illustrates pausing an App Runner service.

### Sample Request

```
$ aws apprunner pause-service --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
```

```
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-23T12:41:37Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "[pip install -r requirements.txt]",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
              }
            ],
            "StartCommand": "python server.py"
          },
          "ConfigurationSource": "Api"
        },
        "RepositoryUrl": "https://github.com/my-account/python-hello",
        "SourceCodeVersion": {
          "Type": "BRANCH",
          "Value": "main"
        }
      }
    },
    "Status": "OPERATION_IN_PROGRESS",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```


# 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

# ResumeService

Resume an active AWS App Runner service. App Runner provisions compute capacity for the service.

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations (p. 57) call to track the operation's progress.

## Request Syntax

```
{
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ServiceArn (p. 70)**

The Amazon Resource Name (ARN) of the App Runner service that you want to resume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "OperationId": "string",
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
```

```
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```

# Response Elements

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

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

**OperationId (p. 70)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations (p. 57) call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

**Service (p. 70)**

A description of the App Runner service that this request just resumed.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Resume a service

This example illustrates how to resume an App Runner service.

### Sample Request

```
$ aws apprunner resume-service --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
```

```
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-23T12:41:37Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "[pip install -r requirements.txt]",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
              }
            ],
            "StartCommand": "python server.py"
          },
          "ConfigurationSource": "Api"
        },
        "RepositoryUrl": "https://github.com/my-account/python-hello",
        "SourceCodeVersion": {
          "Type": "BRANCH",
          "Value": "main"
        }
      }
    },
    "Status": "OPERATION_IN_PROGRESS",
    "InstanceConfiguration": {
      "CPU": "1 vCPU",
      "Memory": "3 GB"
    }
  }
}
```


# 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

Initiate a manual deployment of the latest commit in a source code repository or the latest image in a source image repository to an AWS App Runner service.

For a source code repository, App Runner retrieves the commit and builds a Docker image. For a source image repository, App Runner retrieves the latest Docker image. In both cases, App Runner then deploys the new image to your service and starts a new container instance.

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations (p. 57) call to track the operation's progress.

## Request Syntax

```
{
   "ServiceArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ServiceArn (p. 74)**

The Amazon Resource Name (ARN) of the App Runner service that you want to manually deploy to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

## Response Syntax

```
{
   "OperationId": "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.

**OperationId (p. 74)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations (p. 57) call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Initiate a manual deployment

This example illustrates how to perform a manual deployment to an App Runner service.

### Sample Request

```
$ aws apprunner start-deployment --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa"
}
```

### Sample Response

```
{
  "OperationId": "853a7d5b-fc9f-4730-831b-fd8037ab832a"
}
```

# 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

Add tags to, or update the tag values of, an App Runner resource. A tag is a key-value pair.

## Request Syntax

```
{
   "ResourceArn": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ResourceArn (p. 77)**

The Amazon Resource Name (ARN) of the resource that you want to update tags for.

It must be the ARN of an App Runner resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

**Tags (p. 77)**

A list of tag key-value pairs to add or update. If a key is new to the resource, the tag is added with the provided value. If a key is already associated with the resource, the value of the tag is updated.

Type: Array of Tag (p. 121) objects

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Add tags to an App Runner service

This example illustrates how to add two tags to an App Runner service.

### Sample Request

```
$ aws apprunner tag-resource --cli-input-json
{
  "ResourceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
  "Tags": [
    {
      "Key": "Department",
      "Value": "Retail"
    },
    {
      "Key": "CustomerId",
      "Value": "56439872357912"
    }
  ]
}
```

### Sample Response

```
{
}
```

# 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

Remove tags from an App Runner resource.

## Request Syntax

```
{
   "ResourceArn": "string",
   "TagKeys": [ "string" ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

**ResourceArn (p. 80)**

The Amazon Resource Name (ARN) of the resource that you want to remove tags from.

It must be the ARN of an App Runner resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

**TagKeys (p. 80)**

A list of tag keys that you want to remove.

Type: Array of strings

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

Pattern: `^(?!aws:).+`

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Remove tags from an App Runner service

This example illustrates how to remove two tags from an App Runner service.

### Sample Request

```
$ aws apprunner untag-resource --cli-input-json
{
  "ResourceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
  "TagKeys": [
    "Department",
    "CustomerId"
  ]
}
```

### Sample Response

```
{
}
```

# 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

# UpdateService

Update an AWS App Runner service. You can update the source configuration and instance configuration of the service. You can also update the ARN of the auto scaling configuration resource that's associated with the service. However, you can't change the name or the encryption configuration of the service. These can be set only when you create the service.

To update the tags applied to your service, use the separate actions TagResource (p. 77) and UntagResource (p. 80).

This is an asynchronous operation. On a successful call, you can use the returned `OperationId` and the ListOperations (p. 57) call to track the operation's progress.

## Request Syntax

```
{
   "AutoScalingConfigurationArn": "string",
   "HealthCheckConfiguration": {
      "HealthyThreshold": number,
      "Interval": number,
      "Path": "string",
      "Protocol": "string",
      "Timeout": number,
      "UnhealthyThreshold": number
   },
   "InstanceConfiguration": {
      "Cpu": "string",
      "InstanceRoleArn": "string",
      "Memory": "string"
   },
   "ServiceArn": "string",
   "SourceConfiguration": {
      "AuthenticationConfiguration": {
         "AccessRoleArn": "string",
         "ConnectionArn": "string"
      },
      "AutoDeploymentsEnabled": boolean,
      "CodeRepository": {
         "CodeConfiguration": {
            "CodeConfigurationValues": {
               "BuildCommand": "string",
               "Port": "string",
               "Runtime": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ConfigurationSource": "string"
         },
         "RepositoryUrl": "string",
         "SourceCodeVersion": {
            "Type": "string",
            "Value": "string"
         }
      },
      "ImageRepository": {
         "ImageConfiguration": {
            "Port": "string",
            "RuntimeEnvironmentVariables": {
               "string" : "string"
            },
```

```
            "StartCommand": "string"
         },
         "ImageIdentifier": "string",
         "ImageRepositoryType": "string"
      }
   }
}
```

# Request Parameters

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

The request accepts the following data in JSON format.

**AutoScalingConfigurationArn (p. 83)**

The Amazon Resource Name (ARN) of an App Runner automatic scaling configuration resource that you want to associate with your service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**HealthCheckConfiguration (p. 83)**

The settings for the health check that AWS App Runner performs to monitor the health of your service.

Type: HealthCheckConfiguration (p. 107) object

Required: No

**InstanceConfiguration (p. 83)**

The runtime configuration to apply to instances (scaling units) of the App Runner service.

Type: InstanceConfiguration (p. 111) object

Required: No

**ServiceArn (p. 83)**

The Amazon Resource Name (ARN) of the App Runner service that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

**SourceConfiguration (p. 83)**

The source configuration to apply to the App Runner service.

You can change the configuration of the code or image repository that the service uses. However, you can't switch from code to image or the other way around. This means that you must provide the

same structure member of `SourceConfiguration` that you originally included when you created the service. Specifically, you can include either `CodeRepository` or `ImageRepository`. To update the source configuration, set the values to members of the structure that you include.

Type: SourceConfiguration (p. 120) object

Required: No

# Response Syntax

```
{
   "OperationId": "string",
   "Service": {
      "AutoScalingConfigurationSummary": {
         "AutoScalingConfigurationArn": "string",
         "AutoScalingConfigurationName": "string",
         "AutoScalingConfigurationRevision": number
      },
      "CreatedAt": number,
      "DeletedAt": number,
      "EncryptionConfiguration": {
         "KmsKey": "string"
      },
      "HealthCheckConfiguration": {
         "HealthyThreshold": number,
         "Interval": number,
         "Path": "string",
         "Protocol": "string",
         "Timeout": number,
         "UnhealthyThreshold": number
      },
      "InstanceConfiguration": {
         "Cpu": "string",
         "InstanceRoleArn": "string",
         "Memory": "string"
      },
      "ServiceArn": "string",
      "ServiceId": "string",
      "ServiceName": "string",
      "ServiceUrl": "string",
      "SourceConfiguration": {
         "AuthenticationConfiguration": {
            "AccessRoleArn": "string",
            "ConnectionArn": "string"
         },
         "AutoDeploymentsEnabled": boolean,
         "CodeRepository": {
            "CodeConfiguration": {
               "CodeConfigurationValues": {
                  "BuildCommand": "string",
                  "Port": "string",
                  "Runtime": "string",
                  "RuntimeEnvironmentVariables": {
                     "string" : "string"
                  },
                  "StartCommand": "string"
               },
               "ConfigurationSource": "string"
            },
            "RepositoryUrl": "string",
            "SourceCodeVersion": {
               "Type": "string",
               "Value": "string"
```

```
            }
         },
         "ImageRepository": {
            "ImageConfiguration": {
               "Port": "string",
               "RuntimeEnvironmentVariables": {
                  "string" : "string"
               },
               "StartCommand": "string"
            },
            "ImageIdentifier": "string",
            "ImageRepositoryType": "string"
         }
      },
      "Status": "string",
      "UpdatedAt": number
   }
}
```

# Response Elements

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

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

**OperationId (p. 85)**

The unique ID of the asynchronous operation that this request started. You can use it combined with the ListOperations (p. 57) call to track the operation's progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

**Service (p. 85)**

A description of the App Runner service updated by this request. All configuration values in the returned `Service` structure reflect configuration changes that are being applied by this request.

Type: Service (p. 114) object

# Errors

For information about the errors that are common to all actions, see Common Errors (p. 124).

**InternalServiceErrorException**

An unexpected service exception occurred.

HTTP Status Code: 500

**InvalidRequestException**

One or more input parameters aren't valid. Refer to the API action's document page, correct the input parameters, and try the action again.

HTTP Status Code: 400

**InvalidStateException**

You can't perform this action when the resource is in its current state.

HTTP Status Code: 400

**ResourceNotFoundException**

A resource doesn't exist for the specified Amazon Resource Name (ARN) in your AWS account.

HTTP Status Code: 400

# Examples

## Update memory size

This example illustrates how to update the memory size of instances (scaling units) of an App Runner service to 2048 MiB.

When the call succeeds, App Runner starts an asynchronous update process. The `Service` structure that's returned by the call reflects the new memory value that's being applied by this call.

### Sample Request

```
$ aws apprunner update-service --cli-input-json
{
  "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
  "InstanceConfiguration": {
    "Memory": "4 GB"
  }
}
```

### Sample Response

```
{
  "OperationId": "17fe9f55-7e91-4097-b243-fcabbb69a4cf",
  "Service": {
    "CreatedAt": "2020-11-20T19:05:25Z",
    "UpdatedAt": "2020-11-23T12:41:37Z",
    "ServiceArn": "arn:aws:apprunner:us-east-1:123456789012:service/python-
app/8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceId": "8fe1e10304f84fd2b0df550fe98a71fa",
    "ServiceName": "python-app",
    "ServiceUrl": "psbqam834h.us-east-1.awsapprunner.com",
    "SourceConfiguration": {
      "AuthenticationConfiguration": {
        "ConnectionArn": "arn:aws:apprunner:us-east-1:123456789012:connection/my-github-
connection/e7656250f67242d7819feade6800f59e"
      },
      "AutoDeploymentsEnabled": true,
      "CodeRepository": {
        "CodeConfiguration": {
          "CodeConfigurationValues": {
            "BuildCommand": "[pip install -r requirements.txt]",
            "Port": "8080",
            "Runtime": "PYTHON_3",
            "RuntimeEnvironmentVariables": [
              {
                "NAME": "Jane"
```

```
            }
          ],
          "StartCommand": "python server.py"
        },
        "ConfigurationSource": "Api"
      },
      "RepositoryUrl": "https://github.com/my-account/python-hello",
      "SourceCodeVersion": {
        "Type": "BRANCH",
        "Value": "main"
      }
    }
  },
  "Status": "OPERATION_IN_PROGRESS",
  "InstanceConfiguration": {
    "CPU": "1 vCPU",
    "Memory": "4 GB"
  }
 }
}
```

# 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 App Runner 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:


- AuthenticationConfiguration (p. 90)
- AutoScalingConfiguration (p. 91)
- AutoScalingConfigurationSummary (p. 94)
- CertificateValidationRecord (p. 95)
- CodeConfiguration (p. 97)
- CodeConfigurationValues (p. 98)
- CodeRepository (p. 100)
- Connection (p. 101)
- ConnectionSummary (p. 103)
- CustomDomain (p. 105)
- EncryptionConfiguration (p. 106)
- HealthCheckConfiguration (p. 107)
- ImageConfiguration (p. 109)
- ImageRepository (p. 110)
- InstanceConfiguration (p. 111)
- OperationSummary (p. 112)
- Service (p. 114)
- ServiceSummary (p. 117)
- SourceCodeVersion (p. 119)
- SourceConfiguration (p. 120)
- Tag (p. 121)

# AuthenticationConfiguration

Describes resources needed to authenticate access to some source repositories. The specific resource depends on the repository provider.

## Contents

**AccessRoleArn**

The Amazon Resource Name (ARN) of the IAM role that grants the App Runner service access to a source repository. It's required for ECR image repositories (but not for ECR Public repositories).

Type: String

Length Constraints: Minimum length of 29. Maximum length of 1024.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):iam::[0-9]{12}:(role|role\/service-role)\/[\w+=,.@\-/]{1,1000}`

Required: No

**ConnectionArn**

The Amazon Resource Name (ARN) of the App Runner connection that enables the App Runner service to connect to a source repository. It's required for GitHub code repositories.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

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

# AutoScalingConfiguration

Describes an AWS App Runner automatic scaling configuration resource. Multiple revisions of a configuration have the same `AutoScalingConfigurationName` and different `AutoScalingConfigurationRevision` values.

A higher `MinSize` increases the spread of your App Runner service over more Availability Zones in the AWS Region. The tradeoff is a higher minimal cost.

A lower `MaxSize` controls your cost. The tradeoff is lower responsiveness during peak demand.

## Contents

**AutoScalingConfigurationArn**

The Amazon Resource Name (ARN) of this auto scaling configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**AutoScalingConfigurationName**

The customer-provided auto scaling configuration name. It can be used in multiple revisions of a configuration.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**AutoScalingConfigurationRevision**

The revision of this auto scaling configuration. It's unique among all the active configurations (`"Status": "ACTIVE"`) that share the same `AutoScalingConfigurationName`.

Type: Integer

Required: No

**CreatedAt**

The time when the auto scaling configuration was created. It's in Unix time stamp format.

Type: Timestamp

Required: No

**DeletedAt**

The time when the auto scaling configuration was deleted. It's in Unix time stamp format.

Type: Timestamp

Required: No

**Latest**

It's set to `true` for the configuration with the highest `Revision` among all configurations that share the same `Name`. It's set to `false` otherwise.

Type: Boolean

Required: No

**MaxConcurrency**

The maximum number of concurrent requests that an instance processes. If the number of concurrent requests exceeds this limit, App Runner scales the service up.

Type: Integer

Required: No

**MaxSize**

The maximum number of instances that a service scales up to. At most `MaxSize` instances actively serve traffic for your service.

Type: Integer

Required: No

**MinSize**

The minimum number of instances that App Runner provisions for a service. The service always has at least `MinSize` provisioned instances. Some of them actively serve traffic. The rest of them (provisioned and inactive instances) are a cost-effective compute capacity reserve and are ready to be quickly activated. You pay for memory usage of all the provisioned instances. You pay for CPU usage of only the active subset.

App Runner temporarily doubles the number of provisioned instances during deployments, to maintain the same capacity for both old and new code.

Type: Integer

Required: No

**Status**

The current state of the auto scaling configuration. If the status of a configuration revision is `INACTIVE`, it was deleted and can't be used. Inactive configuration revisions are permanently removed some time after they are deleted.

Type: String

Valid Values: `ACTIVE | INACTIVE`

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

# AutoScalingConfigurationSummary

Provides summary information about an AWS App Runner automatic scaling configuration resource.

This type contains limited information about an auto scaling configuration. It includes only identification information, without configuration details. It's returned by the ListAutoScalingConfigurations (p. 49) action. Complete configuration information is returned by the CreateAutoScalingConfiguration (p. 7), DescribeAutoScalingConfiguration (p. 33), and DeleteAutoScalingConfiguration (p. 22) actions using the AutoScalingConfiguration (p. 91) type.

## Contents

**AutoScalingConfigurationArn**

The Amazon Resource Name (ARN) of this auto scaling configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**AutoScalingConfigurationName**

The customer-provided auto scaling configuration name. It can be used in multiple revisions of a configuration.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**AutoScalingConfigurationRevision**

The revision of this auto scaling configuration. It's unique among all the active configurations (`"Status": "ACTIVE"`) with the same `AutoScalingConfigurationName`.

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

# CertificateValidationRecord

Describes a certificate CNAME record to add to your DNS. For more information, see AssociateCustomDomain.

## Contents

**Name**

The certificate CNAME record name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**Status**

The current state of the certificate CNAME record validation. It should change to `SUCCESS` after App Runner completes validation with your DNS.

Type: String

Valid Values: `PENDING_VALIDATION | SUCCESS | FAILED`

Required: No

**Type**

The record type, always `CNAME`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**Value**

The certificate CNAME record value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

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

# CodeConfiguration

Describes the configuration that AWS App Runner uses to build and run an App Runner service from a source code repository.

## Contents

**CodeConfigurationValues**

The basic configuration for building and running the App Runner service. Use it to quickly launch an App Runner service without providing a `apprunner.yaml` file in the source code repository (or ignoring the file if it exists).

Type: CodeConfigurationValues (p. 98) object

Required: No

**ConfigurationSource**

The source of the App Runner configuration. Values are interpreted as follows:

- `REPOSITORY` – App Runner reads configuration values from the `apprunner.yaml` file in the source code repository and ignores `CodeConfigurationValues`.
- `API` – App Runner uses configuration values provided in `CodeConfigurationValues` and ignores the `apprunner.yaml` file in the source code repository.

Type: String

Valid Values: `REPOSITORY | API`

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

# CodeConfigurationValues

Describes the basic configuration needed for building and running an AWS App Runner service. This type doesn't support the full set of possible configuration options. Fur full configuration capabilities, use a `apprunner.yaml` file in the source code repository.

## Contents

**BuildCommand**

The command App Runner runs to build your application.

Type: String

Required: No

**Port**

The port that your application listens to in the container.

Default: `8080`

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**Runtime**

A runtime environment type for building and running an App Runner service. It represents a programming language runtime.

Type: String

Valid Values: `PYTHON_3 | NODEJS_12`

Required: Yes

**RuntimeEnvironmentVariables**

The environment variables that are available to your running App Runner service. An array of key-value pairs. Keys with a prefix of `AWSAPPRUNNER` are reserved for system use and aren't valid.

Type: String to string map

Required: No

**StartCommand**

The command App Runner runs to start your application.

Type: String

Required: No

## See Also

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

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

# CodeRepository

Describes a source code repository.

## Contents

**CodeConfiguration**

Configuration for building and running the service from a source code repository.

Type: CodeConfiguration (p. 97) object

Required: No

**RepositoryUrl**

The location of the repository that contains the source code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: Yes

**SourceCodeVersion**

The version that should be used within the source code repository.

Type: SourceCodeVersion (p. 119) object

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

# Connection

Describes an AWS App Runner connection resource.

## Contents

**ConnectionArn**

The Amazon Resource Name (ARN) of this connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**ConnectionName**

The customer-provided connection name.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**CreatedAt**

The App Runner connection creation time, expressed as a Unix time stamp.

Type: Timestamp

Required: No

**ProviderType**

The source repository provider.

Type: String

Valid Values: `GITHUB`

Required: No

**Status**

The current state of the App Runner connection. When the state is `AVAILABLE`, you can use the connection to create an App Runner service.

Type: String

Valid Values: `PENDING_HANDSHAKE | AVAILABLE | ERROR | DELETED`

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

# ConnectionSummary

Provides summary information about an AWS App Runner connection resource.

## Contents

**ConnectionArn**

The Amazon Resource Name (ARN) of this connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**ConnectionName**

The customer-provided connection name.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 32.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-_]{3,31}`

Required: No

**CreatedAt**

The App Runner connection creation time, expressed as a Unix time stamp.

Type: Timestamp

Required: No

**ProviderType**

The source repository provider.

Type: String

Valid Values: `GITHUB`

Required: No

**Status**

The current state of the App Runner connection. When the state is `AVAILABLE`, you can use the connection to create an App Runner service.

Type: String

Valid Values: `PENDING_HANDSHAKE | AVAILABLE | ERROR | DELETED`

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

# CustomDomain

Describes a custom domain that's associated with an AWS App Runner service.

## Contents

**CertificateValidationRecords**

A list of certificate CNAME records that's used for this domain name.

Type: Array of CertificateValidationRecord (p. 95) objects

Required: No

**DomainName**

An associated custom domain endpoint. It can be a root domain (for example, `example.com`), a subdomain (for example, `login.example.com` or `admin.login.example.com`), or a wildcard (for example, `*.example.com`).

Type: String

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

Required: Yes

**EnableWWWSubdomain**

When `true`, the subdomain `www.`*`DomainName`* is associated with the App Runner service in addition to the base domain.

Type: Boolean

Required: Yes

**Status**

The current state of the domain name association.

Type: String

Valid Values: `CREATING | CREATE_FAILED | ACTIVE | DELETING | DELETE_FAILED | PENDING_CERTIFICATE_DNS_VALIDATION | BINDING_CERTIFICATE`

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

# EncryptionConfiguration

Describes a custom encryption key that AWS App Runner uses to encrypt copies of the source repository and service logs.

## Contents

**KmsKey**

The ARN of the KMS key that's used for encryption.

Type: String

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

Pattern: `arn:aws(-[\w]+)*:kms:[a-z\-]+-[0-9]{1}:[0-9]{12}:key\/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

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

# HealthCheckConfiguration

Describes the settings for the health check that AWS App Runner performs to monitor the health of a service.

## Contents

**HealthyThreshold**

The number of consecutive checks that must succeed before App Runner decides that the service is healthy.

Default: `1`

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

**Interval**

The time interval, in seconds, between health checks.

Default: `5`

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

**Path**

The URL that health check requests are sent to.

`Path` is only applicable when you set `Protocol` to `HTTP`.

Default: `"/"`

Type: String

Length Constraints: Minimum length of 1.

Required: No

**Protocol**

The IP protocol that App Runner uses to perform health checks for your service.

If you set `Protocol` to `HTTP`, App Runner sends health check requests to the HTTP path specified by `Path`.

Default: `TCP`

Type: String

Valid Values: `TCP | HTTP`

Required: No

**Timeout**

The time, in seconds, to wait for a health check response before deciding it failed.

Default: 2

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

**UnhealthyThreshold**

The number of consecutive checks that must fail before App Runner decides that the service is unhealthy.

Default: 5

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

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

# ImageConfiguration

Describes the configuration that AWS App Runner uses to run an App Runner service using an image pulled from a source image repository.

## Contents

**Port**

The port that your application listens to in the container.

Default: `8080`

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**RuntimeEnvironmentVariables**

Environment variables that are available to your running App Runner service. An array of key-value pairs. Keys with a prefix of `AWSAPPRUNNER` are reserved for system use and aren't valid.

Type: String to string map

Required: No

**StartCommand**

An optional command that App Runner runs to start the application in the source image. If specified, this command overrides the Docker image's default start command.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

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

# ImageRepository

Describes a source image repository.

## Contents

**ImageConfiguration**

Configuration for running the identified image.

Type: ImageConfiguration (p. 109) object

Required: No

**ImageIdentifier**

The identifier of an image.

For an image in Amazon Elastic Container Registry (Amazon ECR), this is an image name. For the image name format, see Pulling an image in the *Amazon ECR User Guide*.

Type: String

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

Pattern: `([0-9]{12}.dkr.ecr.[a-z\-]+-[0-9]{1}.amazonaws.com\/((?:[a-z0-9]+(?:[._-][a-z0-9]+)*\/)*[a-z0-9]+(?:[._-][a-z0-9]+)*)(:([\w\d+\-=._:\/@])+|@([\w\d\:]+))?)|(^public\.ecr\.aws\/.+\/((?:[a-z0-9]+(?:[._-][a-z0-9]+)*\/)*[a-z0-9]+(?:[._-][a-z0-9]+)*)(:([\w\d+\-=._:\/@])+|@([\w\d\:]+))?)`

Required: Yes

**ImageRepositoryType**

The type of the image repository. This reflects the repository provider and whether the repository is private or public.

Type: String

Valid Values: `ECR | ECR_PUBLIC`

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

# InstanceConfiguration

Describes the runtime configuration of an AWS App Runner service instance (scaling unit).

## Contents

**Cpu**

The number of CPU units reserved for each instance of your App Runner service.

Default: `1 vCPU`

Type: String

Length Constraints: Minimum length of 4. Maximum length of 6.

Pattern: `1024|2048|(1|2) vCPU`

Required: No

**InstanceRoleArn**

The Amazon Resource Name (ARN) of an IAM role that provides permissions to your App Runner service. These are permissions that your code needs when it calls any AWS APIs.

Type: String

Length Constraints: Minimum length of 29. Maximum length of 1024.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):iam::[0-9]{12}:(role|role\/service-role)\/[\w+=,.@\-/]{1,1000}`

Required: No

**Memory**

The amount of memory, in MB or GB, reserved for each instance of your App Runner service.

Default: `2 GB`

Type: String

Length Constraints: Fixed length of 4.

Pattern: `2048|3072|4096|(2|3|4) GB`

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

# OperationSummary

Provides summary information for an operation that occurred on an AWS App Runner service.

## Contents

**EndedAt**

The time when the operation ended. It's in the Unix time stamp format.

Type: Timestamp

Required: No

**Id**

A unique ID of this operation. It's unique in the scope of the App Runner service.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

Required: No

**StartedAt**

The time when the operation started. It's in the Unix time stamp format.

Type: Timestamp

Required: No

**Status**

The current state of the operation.

Type: String

Valid Values: `PENDING | IN_PROGRESS | FAILED | SUCCEEDED | ROLLBACK_IN_PROGRESS | ROLLBACK_FAILED | ROLLBACK_SUCCEEDED`

Required: No

**TargetArn**

The Amazon Resource Name (ARN) of the resource that the operation acted on (for example, an App Runner service).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**Type**

The type of operation. It indicates a specific action that occured.

Type: String

Valid Values: `START_DEPLOYMENT | CREATE_SERVICE | PAUSE_SERVICE | RESUME_SERVICE | DELETE_SERVICE`

Required: No

**UpdatedAt**

The time when the operation was last updated. It's in the Unix time stamp format.

Type: Timestamp

Required: No

# See Also

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

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

# Service

Describes an AWS App Runner service. It can describe a service in any state, including deleted services.

This type contains the full information about a service, including configuration details. It's returned by the CreateService, DescribeService, and DeleteService actions. A subset of this information is returned by the ListServices action using the ServiceSummary type.

## Contents

**AutoScalingConfigurationSummary**

Summary information for the App Runner automatic scaling configuration resource that's associated with this service.

Type: AutoScalingConfigurationSummary (p. 94) object

Required: Yes

**CreatedAt**

The time when the App Runner service was created. It's in the Unix time stamp format.

Type: Timestamp

Required: Yes

**DeletedAt**

The time when the App Runner service was deleted. It's in the Unix time stamp format.

Type: Timestamp

Required: No

**EncryptionConfiguration**

The encryption key that App Runner uses to encrypt the service logs and the copy of the source repository that App Runner maintains for the service. It can be either a customer-provided encryption key or an AWS managed key.

Type: EncryptionConfiguration (p. 106) object

Required: No

**HealthCheckConfiguration**

The settings for the health check that App Runner performs to monitor the health of this service.

Type: HealthCheckConfiguration (p. 107) object

Required: No

**InstanceConfiguration**

The runtime configuration of instances (scaling units) of this service.

Type: InstanceConfiguration (p. 111) object

Required: Yes

**ServiceArn**

The Amazon Resource Name (ARN) of this service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: Yes

**ServiceId**

An ID that App Runner generated for this service. It's unique within the AWS Region.

Type: String

Length Constraints: Fixed length of 32.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

Required: Yes

**ServiceName**

The customer-provided service name.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 40.

Pattern: `[A-Za-z0-9][A-Za-z0-9-_]{3,39}`

Required: Yes

**ServiceUrl**

A subdomain URL that App Runner generated for this service. You can use this URL to access your service web application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: Yes

**SourceConfiguration**

The source deployed to the App Runner service. It can be a code or an image repository.

Type: SourceConfiguration (p. 120) object

Required: Yes

**Status**

The current state of the App Runner service. These particular values mean the following.

- `CREATE_FAILED` – The service failed to create. To troubleshoot this failure, read the failure events and logs, change any parameters that need to be fixed, and retry the call to create the service.

  The failed service isn't usable, and still counts towards your service quota. When you're done analyzing the failure, delete the service.
- `DELETE_FAILED` – The service failed to delete and can't be successfully recovered. Retry the service deletion call to ensure that all related resources are removed.

Type: String

Valid Values: `CREATE_FAILED | RUNNING | DELETED | DELETE_FAILED | PAUSED | OPERATION_IN_PROGRESS`

Required: Yes

**UpdatedAt**

The time when the App Runner service was last updated at. It's in the Unix time stamp format.

Type: Timestamp

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

# ServiceSummary

Provides summary information for an AWS App Runner service.

This type contains limited information about a service. It doesn't include configuration details. It's returned by the ListServices action. Complete service information is returned by the CreateService, DescribeService, and DeleteService actions using the Service type.

## Contents

**CreatedAt**

The time when the App Runner service was created. It's in the Unix time stamp format.

Type: Timestamp

Required: No

**ServiceArn**

The Amazon Resource Name (ARN) of this service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:aws(-[\w]+)*:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:[0-9]{12}:(\w|\/|-){1,1011}`

Required: No

**ServiceId**

An ID that App Runner generated for this service. It's unique within the AWS Region.

Type: String

Length Constraints: Fixed length of 32.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}`

Required: No

**ServiceName**

The customer-provided service name.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 40.

Pattern: `[A-Za-z0-9][A-Za-z0-9-_]{3,39}`

Required: No

**ServiceUrl**

A subdomain URL that App Runner generated for this service. You can use this URL to access your service web application.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

Required: No

**Status**

The current state of the App Runner service. These particular values mean the following.

- `CREATE_FAILED` – The service failed to create. Read the failure events and logs, change any parameters that need to be fixed, and retry the call to create the service.

  The failed service isn't usable, and still counts towards your service quota. When you're done analyzing the failure, delete the service.
- `DELETE_FAILED` – The service failed to delete and can't be successfully recovered. Retry the service deletion call to ensure that all related resources are removed.

Type: String

Valid Values: `CREATE_FAILED | RUNNING | DELETED | DELETE_FAILED | PAUSED | OPERATION_IN_PROGRESS`

Required: No

**UpdatedAt**

The time when the App Runner service was last updated. It's in theUnix time stamp format.

Type: Timestamp

Required: No

# See Also

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

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

# SourceCodeVersion

Identifies a version of code that AWS App Runner refers to within a source code repository.

## Contents

**Type**

The type of version identifier.

For a git-based repository, branches represent versions.

Type: String

Valid Values: `BRANCH`

Required: Yes

**Value**

A source code version.

For a git-based repository, a branch name maps to a specific version. App Runner uses the most recent commit to the branch.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: `.*`

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

# SourceConfiguration

Describes the source deployed to an AWS App Runner service. It can be a code or an image repository.

## Contents

**AuthenticationConfiguration**

Describes the resources that are needed to authenticate access to some source repositories.

Type: AuthenticationConfiguration (p. 90) object

Required: No

**AutoDeploymentsEnabled**

If `true`, continuous integration from the source repository is enabled for the App Runner service. Each repository change (including any source code commit or new image version) starts a deployment.

Default: App Runner sets to `false` for a source image that uses an ECR Public repository or an ECR repository that's in an AWS account other than the one that the service is in. App Runner sets to `true` in all other cases (which currently include a source code repository or a source image using a same-account ECR repository).

Type: Boolean

Required: No

**CodeRepository**

The description of a source code repository.

You must provide either this member or `ImageRepository` (but not both).

Type: CodeRepository (p. 100) object

Required: No

**ImageRepository**

The description of a source image repository.

You must provide either this member or `CodeRepository` (but not both).

Type: ImageRepository (p. 110) object

Required: No

## See Also

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

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

# Tag

Describes a tag that is applied to an AWS App Runner resource. A tag is a metadata item consisting of a key-value pair.

## Contents

**Key**

The key of the tag.

Type: String

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

Pattern: `^(?!aws:).+`

Required: No

**Value**

The value of the tag.

Type: String

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

Pattern: `.*`

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

# 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