API Reference

AWS Lambda Web

API Version 2025-03-07

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AWS Lambda Web: API Reference

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Welcome

AWS Lambda Web Functions is a capability of AWS Lambda that you can use to run web applications and API backends as serverless HTTP servers. Your code listens on a network port and handles requests directly. You can use familiar Node.js web frameworks such as Express, Hono, or React Router with no Lambda-specific adapters or wrappers. You develop and run your server locally like any other Node.js web app.

Lambda creates an HTTPS endpoint, manages the execution environments, and scales your application with traffic, including to zero when it's idle. To reduce latency for globally distributed users, you can deploy across multiple AWS Regions behind a single endpoint.

A Web Function has one or more immutable revisions (code and configuration) and one or more endpoints that expose it over HTTPS.

Use Web Functions for workloads that receive and respond to HTTP traffic directly. Common use cases include:

- Web applications – Deploy full-stack or front-end applications that serve HTML, assets, and API routes from a single deployment.
- REST and GraphQL APIs – Build API backends that serve high request volumes.
- Microservices – Run HTTP services that scale independently with traffic, including to zero when idle.
- Server-side rendering (SSR) – Serve pages that are rendered on the server at request time rather than pre-built. A Web Function runs your framework's production server directly. This suits applications that render personalized or frequently changing content on each request.
- Streaming responses – Stream output to the client as it is produced, such as responses from a large language model.

For event-driven processing, such as handling queue messages or file uploads, use Lambda Event Functions instead. For more information about Web Functions, see Lambda Web Functions in the *AWS Lambda Developer Guide*.

This document was last published on October 23, 2026.

Actions

The following actions are supported:

- CreateWebFunction
- CreateWebFunctionEndpoint
- CreateWebFunctionRevision
- DeleteResourcePolicy
- DeleteWebFunction
- DeleteWebFunctionEndpoint
- DeleteWebFunctionRevision
- GetResourcePolicy
- GetWebAccountSettings
- GetWebFunction
- GetWebFunctionEndpoint
- GetWebFunctionRevision
- ListTags
- ListWebFunctionEndpoints
- ListWebFunctionRevisions
- ListWebFunctions
- PutResourcePolicy
- TagResource
- UntagResource
- UpdateWebFunctionEndpoint

CreateWebFunction

Creates a web function with an initial revision and endpoint. To create a web function, you provide the function name, revision configuration (code and service settings), and endpoint configuration.

To use this operation, you must have the `CreateWebFunction` permission on the web function. You don't need separate permissions for the initial revision or endpoint.

Request Syntax

```
PUT /2025-03-07/web-functions HTTP/1.1
Content-type: application/json

{
   "endpointConfig": {
      "authType": "string",
      "autoDeploymentMode": "string",
      "description": "string",
      "endpointName": "string",
      "endpointType": "string",
      "regions": [ "string" ],
      "scalingConfig": {
         "maxEnvironments": number
      },
      "throttleConfig": {
         "rateLimit": number
      }
   },
   "functionName": "string",
   "revisionConfig": {
      "buildConfig": {
         "codeConfig": {
            "s3Object": {
               "bucket": "string",
               "key": "string",
               "versionId": "string"
            }
         },
         "runtimeConfig": {
            "runtime": "string"
         }
      },
      "description": "string",
```

```
        "kmsKeyArn": "string",
        "serviceConfig": {
           "egressNetworkConnectorArn": "string",
           "environmentVariables": {
              "string" : "string"
           },
           "executionRoleArn": "string",
           "maxConcurrencyPerEnvironment": number,
           "telemetryConfig": {
              "loggingConfig": {
                 "applicationLogLevel": "string",
                 "logGroup": "string",
                 "systemLogLevel": "string"
              }
           },
           "timeoutSeconds": number
        }
    },
    "tags": {
        "string" : "string"
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

endpointConfig

The configuration for the initial endpoint of the web function.

Type: EndpointConfig object

Required: No

functionName

The name of the web function. The name can contain letters, numbers, hyphens (-), and underscores (_), and can't begin or end with a hyphen or an underscore. The name is limited to 64 characters in length.

Type: String

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

Required: Yes

revisionConfig

The configuration for the initial revision of the web function, including code and service settings.

Type: RevisionConfig object

Required: No

tags

A map of tag keys and values to apply to the web function.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9 _\.:/=+\-@]+`

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

Value Pattern: `[a-zA-Z0-9 _\.:/=+\-@]*`

Required: No

Response Syntax

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

{
   "createdAt": "string",
   "endpoint": {
      "authType": "string",
      "autoDeploymentMode": "string",
      "createdAt": "string",
      "description": "string",
```

```
        "domainName": "string",
        "endpointArn": "string",
        "endpointName": "string",
        "endpointType": "string",
        "regions": [ "string" ],
        "revisionWeights": [
           {
              "revisionId": "string",
              "weight": number
           }
        ],
        "scalingConfig": {
           "maxEnvironments": number
        },
        "state": "string",
        "stateReason": "string",
        "throttleConfig": {
           "rateLimit": number
        },
        "updatedAt": "string",
        "updateStatus": "string",
        "updateStatusReason": "string"
    },
    "functionArn": "string",
    "functionName": "string",
    "revision": {
        "createdAt": "string",
        "description": "string",
        "revisionArn": "string",
        "revisionId": "string",
        "state": "string",
        "stateReason": "string"
    },
    "state": "string",
    "stateReason": "string",
    "tags": {
        "string" : "string"
    },
    "updatedAt": "string"
}
```

Response Elements

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

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

createdAt

The date and time the web function was created.

Type: Timestamp

endpoint

A summary of the initial endpoint created with the web function.

Type: FunctionEndpointSummary object

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

functionName

The name of the web function.

Type: String

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

revision

A summary of the initial revision created with the web function.

Type: FunctionRevisionSummary object

state

The current state of the web function.

Type: String

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

stateReason

The reason for the current state of the web function.

Type: String

tags

A map of tag keys and values associated with the web function.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9 _\.:/=+\-@]+`

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

Value Pattern: `[a-zA-Z0-9 _\.:/=+\-@]*`

updatedAt

The date and time the web function was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateWebFunctionEndpoint

Creates an endpoint for a web function. An endpoint exposes the web function over HTTPS and routes traffic to one or more revisions.

To use this operation, you must have the `CreateWebFunctionEndpoint` permission on the web function, not on the endpoint being created.

Request Syntax

```
PUT /2025-03-07/web-functions/functionName/endpoints HTTP/1.1
Content-type: application/json

{
   "authType": "string",
   "autoDeploymentMode": "string",
   "description": "string",
   "endpointName": "string",
   "endpointType": "string",
   "regions": [ "string" ],
   "revisionWeights": [
      {
         "revisionId": "string",
         "weight": number
      }
   ],
   "scalingConfig": {
      "maxEnvironments": number
   },
   "throttleConfig": {
      "rateLimit": number
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function to create the endpoint for.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

authType

The authorization type for the endpoint.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

Required: Yes

autoDeploymentMode

The auto-deployment mode for the endpoint. Controls whether the endpoint automatically serves the newest revision. If you don't specify a value, the default is `Disabled`, and this default is returned in the response.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.
- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

Required: No

description

A description of the endpoint.

Type: String

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

Required: No

endpointName

The name of the endpoint to create. The name can contain letters, numbers, hyphens (-), and underscores (_), and can't begin or end with a hyphen or an underscore. The name is limited to 64 characters in length.

Type: String

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

Required: Yes

endpointType

The type of endpoint to create. Determines how traffic is served and routed across Regions.

Valid values:

- `HomeRegion` – Serves traffic from the Region where you created the web function.
- `MultiRegion` – Replicates across the Regions that you choose and routes each request to the nearest one.
- `PerRegion` – Creates a separate endpoint in each Region that you choose.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

Required: Yes

regions

The list of Regions for the endpoint. Required when the endpoint type is `MultiRegion` or `PerRegion`: specify at least one Region other than the Region where you create the endpoint (the home Region). The home Region is added automatically if you don't include it; specifying only the home Region isn't allowed. When the endpoint type is `HomeRegion`, omit this field or specify only the home Region.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

Required: No

revisionWeights

A list of revision weights that determine how traffic is distributed across revisions. You can specify up to two revisions for canary or blue-green deployments.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

scalingConfig

The scaling configuration for the endpoint. There is no default value. If you don't specify a scaling configuration, it is absent from the response.

Type: ScalingConfig object

Required: No

throttleConfig

The throttling configuration for the endpoint. There is no default value. If you don't specify a throttling configuration, it is absent from the response.

Type: ThrottleConfig object

Required: No

Response Syntax

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

{
   "authType": "string",
   "autoDeploymentMode": "string",
   "createdAt": "string",
   "description": "string",
   "domainName": "string",
   "endpointArn": "string",
   "endpointName": "string",
   "endpointType": "string",
   "functionArn": "string",
   "regionalEndpoints": {
      "string" : {
         "authType": "string",
         "domainName": "string",
         "revisionWeights": [
            {
               "revisionId": "string",
               "weight": number
            }
         ],
         "scalingConfig": {
            "maxEnvironments": number
         },
         "state": "string",
         "stateReason": "string",
         "throttleConfig": {
            "rateLimit": number
         },
         "updateStatus": "string",
         "updateStatusReason": "string"
      }
   },
   "regions": [ "string" ],
   "revisionWeights": [
```

```
        {
            "revisionId": "string",
            "weight": number
        }
    ],
    "scalingConfig": {
        "maxEnvironments": number
    },
    "state": "string",
    "stateReason": "string",
    "throttleConfig": {
        "rateLimit": number
    },
    "updatedAt": "string",
    "updateStatus": "string",
    "updateStatusReason": "string"
}
```

Response Elements

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

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

authType

The authorization type for a web function endpoint.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

autoDeploymentMode

The auto-deployment mode for a web function endpoint.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.

- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

createdAt

The date and time the endpoint was created.

Type: Timestamp

description

The description of the endpoint.

Type: String

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

domainName

The domain name assigned to the endpoint.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 256.

Pattern: `([a-z0-9-]+\.)+[a-z]+`

endpointArn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

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

endpointName

The name of the endpoint.

Type: String

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

endpointType

The type of a web function endpoint.

Valid values:

- `HomeRegion` – Serves traffic from the Region where you created the web function.
- `MultiRegion` – Replicates across the Regions that you choose and routes each request to the nearest one.
- `PerRegion` – Creates a separate endpoint in each Region that you choose.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

regionalEndpoints

The list of regional endpoint configurations.

Type: String to RegionalEndpoint object map

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

Key Pattern: `([a-z]{2,}-){2,}[0-9]`

regions

The Regions configured for the endpoint.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

revisionWeights

The traffic distribution across revisions for the endpoint. Each entry maps a revision to a weight from 1 to 100.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

scalingConfig

The scaling configuration for a web function endpoint.

Type: ScalingConfig object

state

The current state of the endpoint.

Type: String

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

stateReason

The reason for the current state of the endpoint.

Type: String

throttleConfig

The throttling configuration for a web function endpoint.

Type: ThrottleConfig object

updatedAt

The date and time the endpoint was last updated.

Type: Timestamp

updateStatus

The status of the most recent update to an endpoint. Possible values:

- `InProgress` – The update is in progress.
- `Successful` – The update completed successfully.
- `Failed` – The update failed.

Type: String

Valid Values: `InProgress | Successful | Failed`

updateStatusReason

The reason for the endpoint's most recent update status.

Type: String

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateWebFunctionRevision

Creates an immutable revision for a web function. A revision represents a specific version of the function code and configuration.

To use this operation, you must have the `CreateWebFunctionRevision` permission on the web function, not on the revision being created.

Request Syntax

```
POST /2025-03-07/web-functions/functionName/revisions HTTP/1.1
Content-type: application/json

{
   "buildConfig": {
      "codeConfig": {
         "s3Object": {
            "bucket": "string",
            "key": "string",
            "versionId": "string"
         }
      },
      "runtimeConfig": {
         "runtime": "string"
      }
   },
   "description": "string",
   "kmsKeyArn": "string",
   "serviceConfig": {
      "egressNetworkConnectorArn": "string",
      "environmentVariables": {
         "string" : "string"
      },
      "executionRoleArn": "string",
      "maxConcurrencyPerEnvironment": number,
      "telemetryConfig": {
         "loggingConfig": {
            "applicationLogLevel": "string",
            "logGroup": "string",
            "systemLogLevel": "string"
         }
      },
      "timeoutSeconds": number
```

```
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

buildConfig

The build configuration for the revision, including code location and runtime settings.

Type: BuildConfig object

Required: Yes

description

A description of the revision.

Type: String

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

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service (AWS KMS) key used to encrypt the revision's code and environment variables.

Type: String

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

Pattern: `arn:(aws[a-z-]*):kms:[a-z0-9-]+:[0-9]{12}:key/[a-z0-9-]+`

Required: No

serviceConfig

The service configuration for the revision, including execution role, timeout, and concurrency settings.

Type: ServiceConfig object

Required: Yes

Response Syntax

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

{
   "buildConfig": {
      "codeConfig": {
         "s3Object": {
            "bucket": "string",
            "key": "string",
            "versionId": "string"
         }
      },
      "runtimeConfig": {
         "runtime": "string"
      }
   },
   "createdAt": "string",
   "description": "string",
```

```
   "errors": [
      {
         "attribute": "string",
         "errorCode": "string",
         "errorMessage": "string"
      }
   ],
   "functionArn": "string",
   "kmsKeyArn": "string",
   "revisionArn": "string",
   "revisionId": "string",
   "serviceConfig": {
      "egressNetworkConnectorArn": "string",
      "environmentVariables": {
         "string" : "string"
      },
      "executionRoleArn": "string",
      "maxConcurrencyPerEnvironment": number,
      "telemetryConfig": {
         "loggingConfig": {
            "applicationLogLevel": "string",
            "logGroup": "string",
            "systemLogLevel": "string"
         }
      },
      "timeoutSeconds": number
   },
   "state": "string",
   "stateReason": "string"
}
```

Response Elements

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

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

buildConfig

The build configuration for a web function revision, including code location and runtime settings.

Type: BuildConfig object

createdAt

The date and time the revision was created.

Type: Timestamp

description

The description of the revision.

Type: String

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

errors

A list of errors encountered during revision creation. This field is absent when the revision has no errors.

Type: Array of RevisionError objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt the revision's code and environment variables.

Type: String

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

Pattern: `arn:(aws[a-z-]*):kms:[a-z0-9-]+:[0-9]{12}:key/[a-z0-9-]+`

revisionArn

The Amazon Resource Name (ARN) of the revision.

Type: String

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

revisionId

The identifier of the revision.

Type: String

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

serviceConfig

The service configuration for a web function revision, including execution role, timeout, VPC network access, concurrency, and telemetry settings.

Type: ServiceConfig object

state

The current state of the revision.

Type: String

Valid Values: `Pending | Active | Failed`

stateReason

The reason for the current state of the revision.

Type: String

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteResourcePolicy

Removes the resource-based policy from a web function.

Request Syntax

```
DELETE /2025-03-07/resource-policy/resourceArn?RevisionId=revisionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

revisionId

The revision ID of the policy. Use this to prevent deleting a policy that has been updated since you last retrieved it. If you don't specify a value, the policy is deleted regardless of its current revision.

Pattern: `[0-9a-f-]{36}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteWebFunction

Deletes a web function and all of its associated revisions and endpoints.

To use this operation, you must have the `DeleteWebFunction` permission on the web function. You don't need the `DeleteWebFunctionRevision` or `DeleteWebFunctionEndpoint` permission.

Request Syntax

```
DELETE /2025-03-07/web-functions/functionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function to delete.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteWebFunctionEndpoint

Deletes a web function endpoint.

Request Syntax

```
DELETE /2025-03-07/web-functions/functionName/endpoints/endpointName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

endpointName

The endpoint to delete.

You can specify either of the following:

- The endpoint name, for example `my-endpoint`.
- The endpoint ARN.

The length constraint applies only to the full ARN. If you specify only the endpoint name, it is limited to 64 characters in length.

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

Required: Yes

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteWebFunctionRevision

Deletes a web function revision. You cannot delete a revision that is currently serving traffic on an endpoint.

Request Syntax

```
DELETE /2025-03-07/web-functions/functionName/revisions/revisionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

revisionId

The revision to delete.

You can specify either of the following:

- The revision identifier.
- The revision ARN.

The length constraint applies only to the full ARN.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetResourcePolicy

Retrieves the resource-based policy attached to a web function.

Request Syntax

```
GET /2025-03-07/resource-policy/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Policy": "string",
   "RevisionId": "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.

Policy

The JSON-formatted resource-based policy attached to the web function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

RevisionId

The revision ID of the policy.

Type: String

Pattern: `[0-9a-f-]{36}`

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetWebAccountSettings

Retrieves details about your AWS Lambda Web Functions account settings for the current AWS Region, including the quotas that apply to web functions and your current usage.

Request Syntax

```
GET /2025-03-07/web-account-settings HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "accountQuotas": {
      "maxEndpointsPerFunction": number,
      "maxRevisionsPerFunction": number,
      "maxTotalArmVCpus": number,
      "maxTotalRateLimit": number
   },
   "accountUsage": {
      "functionCount": 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.

accountQuotas

The quotas that apply to web functions in your account in the current AWS Region.

Type: AccountQuotas object

accountUsage

The current web function usage for your account in the current AWS Region.

Type: AccountUsage object

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetWebFunction

Retrieves details about a web function, including its current state and configuration.

Request Syntax

```
GET /2025-03-07/web-functions/functionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function to retrieve.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "createdAt": "string",
   "functionArn": "string",
```

```
    "functionName": "string",
    "state": "string",
    "stateReason": "string",
    "updatedAt": "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.

createdAt

The date and time the web function was created.

Type: Timestamp

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

functionName

The name of the web function.

Type: String

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

state

The current state of the web function.

Type: String

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

stateReason

The reason for the current state of the web function.

Type: String

updatedAt

The date and time the web function was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetWebFunctionEndpoint

Retrieves details about a web function endpoint, including its current state, configuration, and domain name.

Request Syntax

```
GET /2025-03-07/web-functions/functionName/endpoints/endpointName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

endpointName

The endpoint to retrieve.

You can specify either of the following:

- The endpoint name, for example `my-endpoint`.
- The endpoint ARN.

The length constraint applies only to the full ARN. If you specify only the endpoint name, it is limited to 64 characters in length.

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

Required: Yes

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "authType": "string",
   "autoDeploymentMode": "string",
   "createdAt": "string",
   "description": "string",
   "domainName": "string",
   "endpointArn": "string",
   "endpointName": "string",
   "endpointType": "string",
   "functionArn": "string",
   "regionalEndpoints": {
      "string" : {
         "authType": "string",
         "domainName": "string",
         "revisionWeights": [
            {
               "revisionId": "string",
               "weight": number
            }
         ],
         "scalingConfig": {
            "maxEnvironments": number
         },
         "state": "string",
         "stateReason": "string",
         "throttleConfig": {
            "rateLimit": number
         },
         "updateStatus": "string",
         "updateStatusReason": "string"
      }
```

```
    },
    "regions": [ "string" ],
    "revisionWeights": [
       {
          "revisionId": "string",
          "weight": number
       }
    ],
    "scalingConfig": {
       "maxEnvironments": number
    },
    "state": "string",
    "stateReason": "string",
    "throttleConfig": {
       "rateLimit": number
    },
    "updatedAt": "string",
    "updateStatus": "string",
    "updateStatusReason": "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.

authType

The authorization type for a web function endpoint.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

autoDeploymentMode

The auto-deployment mode for a web function endpoint.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.
- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

createdAt

The date and time the endpoint was created.

Type: Timestamp

description

The description of the endpoint.

Type: String

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

domainName

The domain name assigned to the endpoint.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 256.

Pattern: `([a-z0-9-]+\.)+[a-z]+`

endpointArn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

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

endpointName

The name of the endpoint.

Type: String

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

endpointType

The type of a web function endpoint.

Valid values:

- `HomeRegion` – Serves traffic from the Region where you created the web function.
- `MultiRegion` – Replicates across the Regions that you choose and routes each request to the nearest one.
- `PerRegion` – Creates a separate endpoint in each Region that you choose.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

regionalEndpoints

The list of regional endpoint configurations.

Type: String to RegionalEndpoint object map

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

Key Pattern: `([a-z]{2,}-){2,}[0-9]`

regions

The Regions configured for the endpoint.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

revisionWeights

The traffic distribution across revisions for the endpoint. Each entry maps a revision to a weight from 1 to 100.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

scalingConfig

The scaling configuration for a web function endpoint.

Type: ScalingConfig object

state

The current state of the endpoint.

Type: String

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

stateReason

The reason for the current state of the endpoint.

Type: String

throttleConfig

The throttling configuration for a web function endpoint.

Type: ThrottleConfig object

updatedAt

The date and time the endpoint was last updated.

Type: Timestamp

updateStatus

The status of the most recent update to an endpoint. Possible values:

- `InProgress` – The update is in progress.
- `Successful` – The update completed successfully.

- `Failed` – The update failed.

Type: String

Valid Values: `InProgress | Successful | Failed`

updateStatusReason

The reason for the endpoint's most recent update status.

Type: String

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetWebFunctionRevision

Retrieves details about a web function revision, including its state and configuration.

Request Syntax

```
GET /2025-03-07/web-functions/functionName/revisions/revisionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

revisionId

The revision to retrieve.

You can specify either of the following:

- The revision identifier.
- The revision ARN.

The length constraint applies only to the full ARN.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "buildConfig": {
      "codeConfig": {
         "s3Object": {
            "bucket": "string",
            "key": "string",
            "versionId": "string"
         }
      },
      "runtimeConfig": {
         "runtime": "string"
      }
   },
   "createdAt": "string",
   "description": "string",
   "errors": [
      {
         "attribute": "string",
         "errorCode": "string",
         "errorMessage": "string"
      }
   ],
   "functionArn": "string",
   "kmsKeyArn": "string",
   "revisionArn": "string",
   "revisionId": "string",
   "serviceConfig": {
      "egressNetworkConnectorArn": "string",
      "environmentVariables": {
         "string" : "string"
      },
      "executionRoleArn": "string",
      "maxConcurrencyPerEnvironment": number,
      "telemetryConfig": {
```

```
            "loggingConfig": {
               "applicationLogLevel": "string",
               "logGroup": "string",
               "systemLogLevel": "string"
            }
         },
         "timeoutSeconds": number
      },
      "state": "string",
      "stateReason": "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.

buildConfig

The build configuration for a web function revision, including code location and runtime settings.

Type: BuildConfig object

createdAt

The date and time the revision was created.

Type: Timestamp

description

The description of the revision.

Type: String

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

errors

A list of errors encountered during revision creation. This field is absent when the revision has no errors.

Type: Array of RevisionError objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt the revision's code and environment variables.

Type: String

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

Pattern: `arn:(aws[a-z-]*):kms:[a-z0-9-]+:[0-9]{12}:key/[a-z0-9-]+`

revisionArn

The Amazon Resource Name (ARN) of the revision.

Type: String

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

revisionId

The identifier of the revision.

Type: String

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

serviceConfig

The service configuration for a web function revision, including execution role, timeout, VPC network access, concurrency, and telemetry settings.

Type: ServiceConfig object

state

The current state of the revision.

Type: String

Valid Values: `Pending | Active | Failed`

stateReason

The reason for the current state of the revision.

Type: String

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTags

Returns a list of tags applied to a web function.

Request Syntax

```
GET /2025-03-07/tags/resource HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resource

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

Tags

A map of tag keys and values associated with the web function.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9 _\.:/=+\-@]+`

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

Value Pattern: `[a-zA-Z0-9 _\.:/=+\-@]*`

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListWebFunctionEndpoints

Lists endpoints for a web function. Use pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
POST /2025-03-07/web-functions/functionName/list-endpoints HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of filters to apply to the results. Supported filter names: `authType`, `autoDeploymentMode`, `endpointType`, `state`, and `updateStatus`. If you don't specify a filter, the operation returns all endpoints for the web function.

Type: Array of Filter objects

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

Required: No

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 50. Default is 50.

Type: Integer

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

Required: No

nextToken

The pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

Required: No

Response Syntax

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

```
{
   "endpoints": [
      {
         "authType": "string",
         "autoDeploymentMode": "string",
         "createdAt": "string",
         "description": "string",
         "domainName": "string",
         "endpointArn": "string",
         "endpointName": "string",
         "endpointType": "string",
         "regions": [ "string" ],
         "revisionWeights": [
            {
               "revisionId": "string",
               "weight": number
            }
         ],
         "scalingConfig": {
            "maxEnvironments": number
         },
         "state": "string",
         "stateReason": "string",
         "throttleConfig": {
            "rateLimit": number
         },
         "updatedAt": "string",
         "updateStatus": "string",
         "updateStatusReason": "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.

endpoints

A list of endpoint summaries for the web function.

Type: Array of FunctionEndpointSummary objects

nextToken

The pagination token that's included if more results are available. Use this value as the `nextToken` request parameter in a subsequent call to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListWebFunctionRevisions

Lists revisions for a web function. Use pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
POST /2025-03-07/web-functions/functionName/list-revisions HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of filters to apply to the results. The only supported filter name is `state`. If you don't specify a filter, the operation returns all revisions for the web function.

Type: Array of Filter objects

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

Required: No

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 50. Default is 50.

Type: Integer

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

Required: No

nextToken

The pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

Required: No

Response Syntax

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

{
```

```
    "nextToken": "string",
    "revisions": [
       {
          "createdAt": "string",
          "description": "string",
          "revisionArn": "string",
          "revisionId": "string",
          "state": "string",
          "stateReason": "string"
       }
    ]
}
```

Response Elements

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

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

nextToken

The pagination token that's included if more results are available. Use this value as the `nextToken` request parameter in a subsequent call to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

revisions

A list of revision summaries for the web function.

Type: Array of FunctionRevisionSummary objects

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListWebFunctions

Lists web functions in your account. Use pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
POST /2025-03-07/web-functions HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

A list of filters to apply to the results. The only supported filter name is `state`. If you don't specify a filter, the operation returns all web functions.

Type: Array of Filter objects

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

Required: No

maxResults

The maximum number of results to return in a single call. Minimum value of 1, maximum value of 50. Default is 50.

Type: Integer

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

Required: No

nextToken

The pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

Required: No

Response Syntax

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

{
   "functions": [
      {
         "createdAt": "string",
         "functionArn": "string",
         "functionName": "string",
         "state": "string",
         "stateReason": "string",
         "updatedAt": "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.

functions

A list of web function summaries.

Type: Array of FunctionSummary objects

nextToken

The pagination token that's included if more results are available. Use this value as the `nextToken` request parameter in a subsequent call to retrieve the next page of results.

Type: String

Pattern: `[a-f0-9-]{36}`

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PutResourcePolicy

Adds or updates a resource-based policy on a web function. A resource-based policy grants permissions to other AWS accounts or services to perform actions on the web function.

Request Syntax

```
PUT /2025-03-07/resource-policy/resourceArn HTTP/1.1
Content-type: application/json

{
   "Policy": "string",
   "RevisionId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Policy

The JSON-formatted resource-based policy to attach to the web function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Required: Yes

RevisionId

The revision ID of the existing policy. Use this to prevent conflicts when updating a policy concurrently. If you don't specify a value, the update proceeds without checking the current revision.

Type: String

Pattern: `[0-9a-f-]{36}`

Required: No

Response Syntax

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

{
   "Policy": "string",
   "RevisionId": "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.

Policy

The JSON-formatted resource-based policy attached to the web function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

RevisionId

The revision ID of the policy. Use this value in subsequent `PutResourcePolicy` or `DeleteResourcePolicy` requests to prevent conflicts.

Type: String

Pattern: `[0-9a-f-]{36}`

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

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

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

TagResource

Adds tags to a web function. If a tag key already exists, the existing value is overwritten with the new value.

Request Syntax

```
POST /2025-03-07/tags/resource HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

resource

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

A map of tag keys and values to add to the web function.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `[a-zA-Z0-9 _\.:/=+\-@]+`

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

Value Pattern: `[a-zA-Z0-9 _\.:/=+\-@]*`

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UntagResource

Removes tags from a web function.

Request Syntax

```
DELETE /2025-03-07/tags/resource?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resource

The Amazon Resource Name (ARN) of the web function.

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

Pattern: `arn:[^:]+:lambda:[^:]+:\d{12}:web-function/[^/]+`

Required: Yes

tagKeys

A list of tag keys to remove from the web function.

Array Members: Minimum number of 1 item. Maximum number of 200 items.

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

Pattern: `[a-zA-Z0-9 _\.:/=+\-@]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

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

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateWebFunctionEndpoint

Updates the configuration of a web function endpoint. You can modify the authorization type, auto-deployment mode, revision weights, scaling, and throttling settings.

Request Syntax

```
PATCH /2025-03-07/web-functions/functionName/endpoints/endpointName HTTP/1.1
Content-type: application/json

{
   "authType": "string",
   "autoDeploymentMode": "string",
   "description": "string",
   "revisionWeights": [
      {
         "revisionId": "string",
         "weight": number
      }
   ],
   "scalingConfig": {
      "maxEnvironments": number
   },
   "throttleConfig": {
      "rateLimit": number
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

endpointName

The endpoint to update.

You can specify either of the following:

- The endpoint name, for example `my-endpoint`.
- The endpoint ARN.

The length constraint applies only to the full ARN. If you specify only the endpoint name, it is limited to 64 characters in length.

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

Required: Yes

functionName

The web function.

You can specify either of the following:

- The function name, for example `my-function`.
- The function ARN.

The length constraint applies only to the full ARN. If you specify only the function name, it is limited to 64 characters in length.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

authType

The authorization type for the endpoint. Omit this field to keep the current authorization type.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

Required: No

autoDeploymentMode

The auto-deployment mode for the endpoint. Omit this field to keep the current auto-deployment mode.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.
- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

Required: No

description

A description of the endpoint. Omit this field to keep the current description.

Type: String

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

Required: No

revisionWeights

A list of revision weights that determine how traffic is distributed across revisions.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

scalingConfig

The scaling configuration for the endpoint. Omit this field to keep the current scaling configuration. To clear a previously set `maxEnvironments` value, specify an empty object.

Type: ScalingConfig object

Required: No

throttleConfig

The throttling configuration for the endpoint. Omit this field to keep the current throttling configuration. To clear a previously set `rateLimit` value, specify an empty object.

Type: ThrottleConfig object

Required: No

Response Syntax

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

{
   "authType": "string",
   "autoDeploymentMode": "string",
   "createdAt": "string",
   "description": "string",
   "domainName": "string",
   "endpointArn": "string",
   "endpointName": "string",
   "endpointType": "string",
   "functionArn": "string",
   "regionalEndpoints": {
      "string" : {
         "authType": "string",
         "domainName": "string",
         "revisionWeights": [
            {
               "revisionId": "string",
               "weight": number
            }
         ],
         "scalingConfig": {
            "maxEnvironments": number
         },
         "state": "string",
         "stateReason": "string",
         "throttleConfig": {
            "rateLimit": number
         },
```

```
            "updateStatus": "string",
            "updateStatusReason": "string"
        }
    },
    "regions": [ "string" ],
    "revisionWeights": [
        {
            "revisionId": "string",
            "weight": number
        }
    ],
    "scalingConfig": {
        "maxEnvironments": number
    },
    "state": "string",
    "stateReason": "string",
    "throttleConfig": {
        "rateLimit": number
    },
    "updatedAt": "string",
    "updateStatus": "string",
    "updateStatusReason": "string"
}
```

Response Elements

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

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

authType

The authorization type for a web function endpoint.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

autoDeploymentMode

The auto-deployment mode for a web function endpoint.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.
- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

createdAt

The date and time the endpoint was created.

Type: Timestamp

description

The description of the endpoint.

Type: String

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

domainName

The domain name assigned to the endpoint.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 256.

Pattern: `([a-z0-9-]+\.)+[a-z]+`

endpointArn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

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

endpointName

The name of the endpoint.

Type: String

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

endpointType

The type of a web function endpoint.

Valid values:

- `HomeRegion` – Serves traffic from the Region where you created the web function.
- `MultiRegion` – Replicates across the Regions that you choose and routes each request to the nearest one.
- `PerRegion` – Creates a separate endpoint in each Region that you choose.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

regionalEndpoints

The list of regional endpoint configurations.

Type: String to RegionalEndpoint object map

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

Key Pattern: `([a-z]{2,}-){2,}[0-9]`

regions

The Regions configured for the endpoint.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

revisionWeights

The traffic distribution across revisions for the endpoint. Each entry maps a revision to a weight from 1 to 100.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

scalingConfig

The scaling configuration for a web function endpoint.

Type: ScalingConfig object

state

The current state of the endpoint.

Type: String

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

stateReason

The reason for the current state of the endpoint.

Type: String

throttleConfig

The throttling configuration for a web function endpoint.

Type: ThrottleConfig object

updatedAt

The date and time the endpoint was last updated.

Type: Timestamp

updateStatus

The status of the most recent update to an endpoint. Possible values:

- `InProgress` – The update is in progress.
- `Successful` – The update completed successfully.

- `Failed` – The update failed.

Type: String

Valid Values: `InProgress | Successful | Failed`

updateStatusReason

The reason for the endpoint's most recent update status.

Type: String

Errors

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

AccessDeniedException

You don't have permission to perform this operation. Check the IAM policies for your identity and any resource-based policy on the web function.

message

A message describing the access denied error.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource is being modified by another request, you tried to delete a revision that is serving traffic on an endpoint, or the policy revision ID that you specified doesn't match the current policy. Resolve the conflict and try again.

message

A message describing the conflict.

resourceId

The identifier of the resource in conflict.

resourceType

The type of the resource in conflict.

HTTP Status Code: 409

InternalServerException

The request failed because of an internal error in the service. Retry the request. If the error persists, open a support case.

message

A message describing the internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified web function, revision, endpoint, or resource-based policy doesn't exist. Verify the resource identifier and try again.

message

A message describing the resource not found error.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota, such as the maximum number of web functions in your account or the maximum number of revisions or endpoints per web function. Request a quota increase or reduce usage and try again.

message

A message describing the quota that was exceeded.

quotaCode

The quota code of the exceeded quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of resource that exceeded the quota.

serviceCode

The service code of the service that owns the quota.

HTTP Status Code: 402

ThrottlingException

The request was denied because it exceeded the request rate that Lambda allows for your account. Reduce the frequency of requests and retry with exponential backoff.

message

A message describing the throttling error.

quotaCode

The quota code that was exceeded, if applicable.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service.

HTTP Status Code: 429

ValidationException

The request failed validation because a parameter was missing, malformed, or outside the allowed range. Check the request parameters and try again.

message

A message describing the validation error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

Data Types

The Lambda Web 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:

- AccountQuotas
- AccountUsage
- BuildConfig
- CodeConfig
- EndpointConfig
- Filter
- FunctionEndpointSummary
- FunctionRevisionSummary
- FunctionSummary
- LoggingConfig
- RegionalEndpoint
- RevisionConfig
- RevisionError
- RevisionWeight
- RuntimeConfig
- S3Object
- ScalingConfig
- ServiceConfig
- TelemetryConfig
- ThrottleConfig

AccountQuotas

The quotas that apply to web functions in your account in the current AWS Region.

Contents

maxEndpointsPerFunction

The maximum number of endpoints that a single web function can have.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

maxRevisionsPerFunction

The maximum number of revisions that a single web function can have.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

maxTotalArmVCpus

The maximum total number of Arm vCPUs that you can allocate across all of your web functions in the current AWS Region.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

maxTotalRateLimit

The maximum number of requests per second allowed across all of your web function endpoints in your account in the current AWS Region.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

See Also

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

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

AccountUsage

Contains your current web function usage for the current AWS Region.

Contents

functionCount

The number of web functions in your account in the current AWS Region. This count includes web functions in all states, not only functions in the `Active` state.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

See Also

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

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

BuildConfig

The build configuration for a web function revision, including code location and runtime settings.

Contents

codeConfig

The code configuration specifying where the deployment artifact is stored.

Type: CodeConfig object

Required: Yes

runtimeConfig

The runtime configuration for the revision.

Type: RuntimeConfig 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 Java V2
- AWS SDK for Ruby V3

CodeConfig

The code configuration specifying the location of the deployment artifact.

Contents

s3Object

The Amazon S3 location of the deployment artifact.

Type: S3Object 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 Java V2
- AWS SDK for Ruby V3

EndpointConfig

The configuration for a web function endpoint.

Contents

authType

The authorization type for the endpoint.

Valid values:

- `ApplicationManaged` – Your application handles authorization.
- `IamAuth` – Lambda uses IAM to authorize requests, which must be signed with Signature Version 4 (SigV4).

Type: String

Valid Values: `ApplicationManaged | IamAuth`

Required: Yes

endpointName

The name of the endpoint. The name can contain letters, numbers, hyphens (-), and underscores (_), and can't begin or end with a hyphen or an underscore. The name is limited to 64 characters in length.

Type: String

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

Required: Yes

endpointType

The type of endpoint. Determines how traffic is served and routed across Regions.

Valid values:

- `HomeRegion` – Serves traffic from the Region where you created the web function.
- `MultiRegion` – Replicates across the Regions that you choose and routes each request to the nearest one.

- `PerRegion` – Creates a separate endpoint in each Region that you choose.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

Required: Yes

autoDeploymentMode

The auto-deployment mode for the endpoint. If you don't specify a value, the default is `Disabled`, and this default is returned in the response.

Valid values:

- `LatestRevision` – The endpoint automatically serves the newest revision.
- `Disabled` – Revision routing stays fixed until you change it.

Type: String

Valid Values: `LatestRevision | Disabled`

Required: No

description

A description of the endpoint.

Type: String

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

Required: No

regions

The list of Regions for the endpoint. Required when the endpoint type is `MultiRegion` or `PerRegion`: specify at least one Region other than the Region where you create the endpoint (the home Region). The home Region is added automatically if you don't include it; specifying only the home Region isn't allowed. When the endpoint type is `HomeRegion`, omit this field or specify only the home Region.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

Required: No

scalingConfig

The scaling configuration for the endpoint.

Type: ScalingConfig object

Required: No

throttleConfig

The throttling configuration for the endpoint.

Type: ThrottleConfig object

Required: No

See Also

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

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

Filter

A filter to apply when listing resources.

Contents

name

The name of the filter field.

Type: String

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

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

Required: Yes

values

The values to match for the filter.

Type: Array of strings

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

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

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

Required: Yes

See Also

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

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

FunctionEndpointSummary

A summary of a web function endpoint.

Contents

authType

The authorization type for the endpoint.

Type: String

Valid Values: `ApplicationManaged | IamAuth`

Required: Yes

autoDeploymentMode

The auto-deployment mode for the endpoint.

Type: String

Valid Values: `LatestRevision | Disabled`

Required: Yes

createdAt

The date and time the endpoint was created.

Type: Timestamp

Required: Yes

domainName

The domain name of the endpoint.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 256.

Pattern: `([a-z0-9-]+\.)+[a-z]+`

Required: Yes

endpointArn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

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

Required: Yes

endpointName

The name of the endpoint.

Type: String

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

Required: Yes

endpointType

The type of the endpoint.

Type: String

Valid Values: `HomeRegion | MultiRegion | PerRegion`

Required: Yes

regions

The list of Regions for the endpoint.

Type: Array of strings

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

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

Pattern: `([a-z]{2,}-){2,}[0-9]`

Required: Yes

revisionWeights

The revision weights for the endpoint.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

state

The current state of the endpoint.

Type: String

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

Required: Yes

stateReason

The reason for the current state of the endpoint.

Type: String

Required: Yes

updatedAt

The date and time the endpoint was last updated.

Type: Timestamp

Required: Yes

description

A description of the endpoint.

Type: String

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

Required: No

scalingConfig

The scaling configuration for the endpoint. This field is absent if the endpoint has no scaling configuration.

Type: ScalingConfig object

Required: No

throttleConfig

The throttling configuration for the endpoint. This field is absent if the endpoint has no throttling configuration.

Type: ThrottleConfig object

Required: No

updateStatus

The status of the most recent update to the endpoint.

Type: String

Valid Values: `InProgress | Successful | Failed`

Required: No

updateStatusReason

The reason for the current update status of the endpoint.

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 Java V2
- AWS SDK for Ruby V3

FunctionRevisionSummary

A summary of a web function revision.

Contents

createdAt

The date and time the revision was created.

Type: Timestamp

Required: Yes

revisionArn

The Amazon Resource Name (ARN) of the revision.

Type: String

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

Required: Yes

revisionId

The identifier of the revision.

Type: String

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

Required: Yes

state

The current state of the revision.

Type: String

Valid Values: `Pending | Active | Failed`

Required: Yes

stateReason

The reason for the current state of the revision.

Type: String

Required: Yes

description

A description of the revision.

Type: String

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

Required: No

See Also

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

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

FunctionSummary

A summary of a web function.

Contents

createdAt

The date and time the web function was created.

Type: Timestamp

Required: Yes

functionArn

The Amazon Resource Name (ARN) of the web function.

Type: String

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

Required: Yes

functionName

The name of the web function.

Type: String

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

Required: Yes

state

The current state of the web function.

Type: String

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

Required: Yes

stateReason

The reason for the current state of the web function.

Type: String

Required: Yes

updatedAt

The date and time the web function was last updated.

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 Java V2
- AWS SDK for Ruby V3

LoggingConfig

The logging configuration for a web function revision.

Contents

applicationLogLevel

The log level for application logs emitted by the web function. If you don't specify a value, the default is `INFO`, and this default is returned in the response.

Type: String

Valid Values: `TRACE | DEBUG | INFO | WARN | ERROR | FATAL`

Required: No

logGroup

The name of the Amazon CloudWatch Logs log group the web function sends logs to. If you don't specify a value, the default is `/aws/lambda/web/{functionName}`, and this default is returned in the response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Pattern: `[a-zA-Z0-9\.\-_/#]+`

Required: No

systemLogLevel

The log level for system logs emitted by the Lambda runtime. If you don't specify a value, the default is `INFO`, and this default is returned in the response.

Type: String

Valid Values: `DEBUG | INFO | WARN`

Required: No

See Also

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

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

RegionalEndpoint

Represents the endpoint configuration and state in a specific Region.

Contents

authType

The authorization type for the regional endpoint.

Type: String

Valid Values: `ApplicationManaged | IamAuth`

Required: Yes

revisionWeights

The revision weights for the regional endpoint.

Type: Array of RevisionWeight objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

state

The current state of the regional endpoint.

Type: String

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

Required: Yes

stateReason

The reason for the current state of the regional endpoint.

Type: String

Required: Yes

domainName

The domain name of the regional endpoint.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 256.

Pattern: `([a-z0-9-]+\.)+[a-z]+`

Required: No

scalingConfig

The scaling configuration for the regional endpoint. This field is absent if the endpoint has no scaling configuration.

Type: ScalingConfig object

Required: No

throttleConfig

The throttling configuration for the regional endpoint. This field is absent if the endpoint has no throttling configuration.

Type: ThrottleConfig object

Required: No

updateStatus

The status of the most recent update to the regional endpoint.

Type: String

Valid Values: `InProgress | Successful | Failed`

Required: No

updateStatusReason

The reason for the current update status of the regional endpoint.

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 Java V2
- AWS SDK for Ruby V3

RevisionConfig

The configuration for a web function revision, including code build settings and service configuration.

Contents

buildConfig

The build configuration for the revision.

Type: BuildConfig object

Required: Yes

serviceConfig

The service configuration for the revision.

Type: ServiceConfig object

Required: Yes

description

A description of the revision.

Type: String

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

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service (AWS KMS) key used to encrypt the revision's code and environment variables.

Type: String

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

Pattern: `arn:(aws[a-z-]*):kms:[a-z0-9-]+:[0-9]{12}:key/[a-z0-9-]+`

Required: No

See Also

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

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

RevisionError

A single error encountered while creating or reading a web function revision. The error describes the affected attribute, an error code, and a human-readable message. This structure is present only when the revision has errors.

Contents

attribute

The name of the revision attribute that the error applies to.

Type: String

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

Required: Yes

errorCode

A short, machine-readable code that identifies the error.

Type: String

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

Required: Yes

errorMessage

A human-readable message describing the error.

Type: String

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

Required: Yes

See Also

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

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

RevisionWeight

Specifies a revision and its traffic weight for an endpoint. You can assign weights to up to two revisions to split traffic for canary or blue-green deployments.

Contents

revisionId

The identifier of the revision.

Type: String

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

Required: Yes

weight

The percentage of traffic to route to this revision. Minimum value of 1, maximum value of 100.

Type: Integer

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

Required: Yes

See Also

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

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

RuntimeConfig

The runtime configuration for a web function revision.

Contents

runtime

The runtime identifier for the web function (for example, a Node.js runtime identifier).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30.

Pattern: `[a-z][a-z0-9]*(\.[a-z0-9]+)*`

Required: Yes

See Also

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

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

S3Object

The Amazon S3 location of a deployment artifact.

Contents

bucket

The name of the Amazon S3 bucket.

Type: String

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

Pattern: `([a-z0-9][a-z0-9\.\-]{1,61}[a-z0-9])`

Required: Yes

key

The Amazon S3 object key.

Type: String

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

Required: Yes

versionId

The version ID of the Amazon S3 object.

Type: String

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

Required: No

See Also

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

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

ScalingConfig

The scaling configuration for a web function endpoint.

Contents

maxEnvironments

The maximum number of concurrent execution environments for the endpoint. Minimum value of 2, maximum value of 10000. There is no default value. If you don't specify a value, the scaling configuration is absent from the response. On an update, omit `scalingConfig` to keep the current value, or specify an empty object to clear a previously set value.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 10000.

Required: No

See Also

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

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

ServiceConfig

The service configuration for a web function revision, including execution role, timeout, VPC network access, concurrency, and telemetry settings.

Contents

executionRoleArn

The ARN of the IAM role that the web function assumes when it runs. This role provides permissions to access AWS services and resources.

Type: String

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

Pattern: `arn:(aws[a-z-]*):iam::[0-9]{12}:role/[a-zA-Z0-9+=,.@_/-]+`

Required: Yes

egressNetworkConnectorArn

The Amazon Resource Name (ARN) of the Lambda network connector that gives the web function access to resources in your VPC. You must specify the fully qualified ARN, including the connector version, which pins the revision to that version. If the network connector is deleted, invocations of revisions that reference it fail. Revisions that specify a network connector support only `HomeRegion` endpoints, not `MultiRegion` or `PerRegion`.

Type: String

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

Pattern: `arn:(aws[a-z-]*):lambda:[a-z0-9-]+:[0-9]{12}:network-connector:[a-zA-Z0-9_-]+:[0-9]+`

Required: No

environmentVariables

A map of environment variable key-value pairs available to the web function at runtime. Environment variable values are sensitive.

Type: String to string map

Key Length Constraints: Minimum length of 1.

Key Pattern: `[a-zA-Z]([a-zA-Z0-9_])*`

Value Length Constraints: Minimum length of 1.

Required: No

maxConcurrencyPerEnvironment

The maximum number of concurrent requests handled per execution environment. Minimum value of 1, maximum value of 128. If you don't specify a value, the default is 64, and this default is returned in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 128.

Required: No

telemetryConfig

The telemetry configuration for the web function, including logging settings.

Type: TelemetryConfig object

Required: No

timeoutSeconds

The amount of time (in seconds) that Lambda allows the web function to run before stopping it. Minimum value of 3, maximum value of 900. If you don't specify a value, the default is 30, and this default is returned in the response.

Type: Integer

Valid Range: Minimum value of 3. Maximum value of 900.

Required: No

See Also

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

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

TelemetryConfig

The telemetry configuration for a web function revision.

Contents

loggingConfig

The logging configuration for the web function.

Type: LoggingConfig object

Required: No

See Also

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

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

ThrottleConfig

The throttling configuration for a web function endpoint.

Contents

rateLimit

The maximum request rate per second for the endpoint. The value must be one of the following supported values: `0`, `100`, `200`, `300`, `400`, `500`, `600`, `700`, `800`, `900`, `1000`, `2000`, `3000`, `4000`, `5000`, `6000`, `7000`, `8000`, `9000`, or `10000`. The maximum effective value is also bounded by your account-level maximum total rate limit. There is no default value. If you don't specify a value, the throttling configuration is absent from the response. On an update, omit `throttleConfig` to keep the current value, or specify an empty object to clear a previously set value.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

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

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

Common Parameters

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

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400