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CreateFunctionUrl Config

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Creates a Lambda function URL with the specified configuration parameters. A function URL is a dedicated HTTP(S) endpoint that you can use to invoke your function.

Request Syntax

```
POST /2021-10-31/functions/Fun
Content-type: application/json

{
    "AuthType": "string",
    "Cors": {
        "AllowCredentials": bool
        "AllowHeaders": [ "strin
        "AllowMethods": [ "strin
        "AllowOrigins": [ "strin
        "ExposeHeaders": [ "stri
        "MaxAge": number
    },
    "InvokeMode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

FunctionName

The name or ARN of the Lambda function.

Name formats

- **Function name** – `my-function`.
- **Function ARN** – `arn:aws:lambda:us-west-2:123456789012:function:my-function`.

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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 140.

Pattern: `(arn:(aws[a-zA-Z-]*)?:lambda:)?([a-z]{2}(-gov)?-[a-z]+-\d{1}:)?(\d{12}:)?(function:)?([a-zA-Z0-9-_]+)(:(\$LATEST|[a-zA-Z0-9-_]+))?`

Required: Yes

Qualifier

The alias name.

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

Pattern: `(^\$LATEST$)|((?!^[0-9]+$)([a-zA-Z0-9-_]+))`

Request Body

The request accepts the following data in JSON format.

AuthType

The type of authentication that your function URL uses. Set to `AWS_IAM` if you want to restrict access to authenticated users only. Set to `NONE` if you want to bypass IAM authentication to create a public endpoint. For more information, see Security and auth model for Lambda function URLs.

Type: String

Valid Values: `NONE` | `AWS_IAM`

Required: Yes

Cors

The cross-origin resource sharing (CORS)⬀ settings for your function URL.

Type: Cors object

Required: No

function using the `Invoke` API operation. Invocation results are available when the payload is complete. The maximum payload size is 6 MB.

- `RESPONSE_STREAM` – Your function streams payload results as they become available. Lambda invokes your function using the `InvokeWithResponseStream` API operation. The maximum response payload size is 20 MB, however, you can request a quota increase.

Type: String

Valid Values: `BUFFERED` | `RESPONSE_STREAM`

Required: No

Response Syntax

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

{
    "AuthType": "string",
    "Cors": {
        "AllowCredentials": bool
        "AllowHeaders": [ "strin
        "AllowMethods": [ "strin
        "AllowOrigins": [ "strin
        "ExposeHeaders": [ "stri
        "MaxAge": number
    },
    "CreationTime": "string",
    "FunctionArn": "string",
    "FunctionUrl": "string",
    "InvokeMode": "string"
}
```

Response Elements

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

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

AuthType

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IAM authentication to create a public endpoint. For more information, see Security and auth model for Lambda function URLs.

Type: String

Valid Values: `NONE` | `AWS_IAM`

Cors

The cross-origin resource sharing (CORS)⬈ settings for your function URL.

Type: Cors object

CreationTime

When the function URL was created, in ISO-8601 format⬈ (YYYY-MM-DDThh:mm:ss.sTZD).

Type: String

FunctionArn

The Amazon Resource Name (ARN) of your function.

Type: String

Pattern: `arn:(aws[a-zA-Z-]*)?:lambda:[a-z]{2}(-gov)?-[a-z]+-\d{1}:\d{12}:function:[a-zA-Z0-9-_]+(:(\$LATEST|[a-zA-Z0-9-_]+))?`

FunctionUrl

The HTTP URL endpoint for your function.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 100.

InvokeMode

Use one of the following options:

- `BUFFERED` – This is the default option. Lambda invokes your function using the `Invoke` API operation. Invocation results are available when the payload is complete. The maximum payload size is 6 MB.
- `RESPONSE_STREAM` – Your function streams payload results as they become available. Lambda invokes your

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quota increase.

Type: String

Valid Values: `BUFFERED` | `RESPONSE_STREAM`

Errors

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

InvalidParameterValueException

One of the parameters in the request is not valid.

HTTP Status Code: 400

ResourceConflictException

The resource already exists, or another operation is in progress.

HTTP Status Code: 409

ResourceNotFoundException

The resource specified in the request does not exist.

HTTP Status Code: 404

ServiceException

The AWS Lambda service encountered an internal error.

HTTP Status Code: 500

TooManyRequestsException

The request throughput limit was exceeded. For more information, see Lambda quotas.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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