

console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups deploy @ fem-dryrun N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch

Start with a simple "hello world" example.

Blueprints

Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository

Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch Info

Name

Runtime

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

Existing role

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Screenshot of the AWS Lambda function creation interface.

Name: RedirectRequest

Runtime: Node.js 6.10

Role:

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

Create new role from template(s)

Lambda will automatically create a role with permissions from the selected policy templates. Note that basic Lambda permissions (logging to CloudWatch) will automatically be added. If your function accesses a VPC, the required permissions will also be added.

Role name:

Enter a name for your new role.

RedirectLambda

Policy templates:

Choose one or more policy templates. A role will be generated for you before your function is created. [Learn more](#) about the permissions that each policy template will add to your role.

Basic Lambda@Edge permissions (for CloudFront trigger) X

console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRequest

Services Resource Groups

ARN - arn:aws:lambda:us-east-1:613943640677:function:RedirectRequest

RedirectRequest

Throttle Qualifiers Actions Select a test event.. Test Save

Congratulations! Your Lambda function "RedirectRequest" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

API Gateway AWS IoT Alexa Skills Kit Alexa Smart Home CloudFront

RedirectRequest

Add triggers from the list on the left

Amazon CloudWatch Logs

Resources the function's role has access to will be shown here

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The screenshot shows the AWS Lambda console interface for a function named "RedirectRequest".

At the top, there are tabs for "Throttle", "Qualifiers", "Actions", "Select a test event..", "Test", and a prominent orange "Save" button.

The "Code entry type" is set to "Edit code inline". The "Runtime" is "Node.js 6.10" and the "Handler" is "index.handler".

The code editor displays the "index.js" file:

```
'use strict';

exports.handler = (event, context, callback) => {
  const request = event.Records[0].cf.request;
  console.log('Before', request.uri);

  if (/notes\/\d(\/edit)?/.test(request.uri)) {
    request.uri = '/index.html'
  }

  if ('/prince-1.jpg'.test(request.uri)) {
    request.uri = '/prince-2.jpg';
  }

  console.log('After', request.uri);
  callback(null, request);
};|
```

Screenshot of the AWS Lambda console showing the code editor for a function named "RedirectRequest".

The "Actions" dropdown menu is open, with a red arrow pointing to the "Publish new version" option.

The code editor shows the following JavaScript function:

```
'use strict';

exports.handler = (event, context, callback) => {
  const request = event.Records[0].cf.request;
  console.log('Before', request.uri);

  if (/notes\/\w+\/edit$/.test(request.uri)) {
    request.uri = '/index.html'
  }

  if ('/prince-1.jpg'.test(request.uri)) {
    request.uri = '/prince-2.jpg';
  }

  console.log('After', request.uri);
  callback(null, request);
};
```

console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRe

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RedirectRe

Code entry type: Edit code inline

File Edit View Insert Tools Help

Environment

Publish new version from \$LATEST

Publishing a new version will save a "snapshot" of the code and configuration of the \$LATEST version. You will be unable to edit the new version's code. Please click to confirm.

Version description: Initial Version

Cancel Publish

```
6  console.log('Before', request.uri);
7
8  if (/notes\/\d{4}(\d{2})$/i.test(request.uri)) {
9    request.uri = '/index.html'
10 }
11
12  if ('/prince-1.jpg'.test(request.uri)) {
13    request.uri = '/prince-2.jpg';
14 }
15
16  console.log('After', request.uri);
17
18  callback(null, request);
19 }
```

Test Save

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Screenshot of the AWS Lambda function configuration page for "RedirectRequest:1".

The top navigation bar shows the AWS logo, Services dropdown, Resource Groups dropdown, a bell icon, deploy @ fem-dryrun, N. Virginia, and Support.

The URL in the address bar is `console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRequest:1`.

The ARN is listed as `arn:aws:lambda:us-east-1:613943640677:function:RedirectRequest:1`.

The function name is **RedirectRequest:1**. The version dropdown shows "Version: 1". Other buttons include "Actions", "Select a test event..", "Test", and "Save".

A success message box displays: "Successfully created version 1 for function RedirectRequest." with a close button "X".

The main area has tabs for "Configuration" (selected) and "Monitoring".

The "Designer" section is expanded, showing:

- Add triggers:** A key icon with the text "Click on a trigger from the list below to add it to your function." A red arrow points from the "Add triggers" section towards the "CloudFront" option in the list.
- API Gateway:** A small icon.
- AWS IoT:** A small icon.
- Alexa Skills Kit:** A small icon.
- Alexa Smart Home:** A small icon.
- CloudFront:** A small icon.

The "Add triggers from the list on the left" box contains a dashed line icon.

RedirectRequest:1 is shown in a box with an orange cube icon.

Amazon CloudWatch Logs is shown in a box with a green icon.

A note states: "Resources the function's role has access to will be shown here".

At the bottom, there are links for Feedback, English (US), Copyright notice (2008-2018), Privacy Policy, and Terms of Use.

console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRequest:1

Services Resource Groups

ARN - arn:aws:lambda:us-east-1:613943640677:function:RedirectRequest:1

RedirectRequest:1

Version: 1 Actions Select a test event.. Test Save

Successfully created version 1 for function RedirectRequest.

Configuration Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront

CloudFront Configuration required

RedirectRequest:1

Amazon CloudWatch Logs

Add triggers from the list on the left

Resources the function's role has access to will be shown here

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console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRequest:1

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RedirectRequest:1

Version: 1 Actions Select a test event.. Test Save

Configure triggers

The following restrictions and limits apply to Lambda@Edge functions: Runtimes are limited to Node.js 6.10 and Node.js 8.10; Environment variables, the Dead Letter Queue (DLQ), and Amazon VPCs cannot be used. [Learn more about Lambda@Edge](#).

Distribution
The CloudFront distribution that will send events to your Lambda function.

E1TQOFM4QT5LYF

Cache behavior
Choose the cache behavior you would like this Lambda Function to be associated with.

*

CloudFront event
Choose one CloudFront event to listen for.

Origin request

Lambda associates this version of the function with the specified CloudFront trigger and replicates the function globally.

Enable trigger and replicate

Lambda will add the necessary permissions for Amazon CloudFront to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

console.aws.amazon.com/lambda/home?region=us-east-1#/functions/RedirectRequest:1

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RedirectRequest:1

Version: 1 Actions Select a test event.. Test Save

Configure triggers

The following restrictions and limits apply to Lambda@Edge functions: Runtimes are limited to Node.js 6.10 and Node.js 8.10; Environment variables, the Dead Letter Queue (DLQ), and Amazon VPCs cannot be used. [Learn more about Lambda@Edge](#).

Distribution
The CloudFront distribution that will send events to your Lambda function.

E1TQOFM4QT5LYF Enter value

Cache behavior
Choose the cache behavior you would like this Lambda Function to be associated with.

*

CloudFront event
Choose one CloudFront event to listen for.

Origin request

Origin request (highlighted)

Origin response

Viewer request

Viewer response

Lambda will add the necessary permissions for Amazon CloudFront to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Cancel Add



Invokes the function globally.

Screenshot of the AWS Lambda@Edge function configuration interface.

The function name is **RedirectRequest:1**.

Configuration tabs: **Version: 1**, **Actions**, **Select a test event..**, **Test**, **Save**.

Configure triggers

Restrictions: Runtimes are limited to Node.js 6.10 and Node.js 8.10; Environment variables, the Dead Letter Queue (DLQ), and Amazon VPCs cannot be used. [Learn more about Lambda@Edge](#).

Distribution: E1TQOFM4QT5LYF

Cache behavior: Choose the cache behavior you would like this Lambda Function to be associated with. *

CloudFront event: Choose one CloudFront event to listen for. Viewer request

Enable trigger and replicate: (highlighted with a red arrow)

Note: Lambda will add the necessary permissions for Amazon CloudFront to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Buttons: **Cancel**, **Add**.

Screenshot of the AWS Lambda function configuration interface.

The function name is **RedirectRequest:1**.

Function settings:

- Version: 1
- Actions: Select a test event..
- Test
- Save (highlighted with a red arrow)

Add triggers:

Click on a trigger from the list below to add it to your function.

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront

CloudFront trigger details:

CloudFront (highlighted with a red box)
X (Delete button)
Unsaved changes

Add triggers from the list on the left

Resources the function's role has access to will be shown here