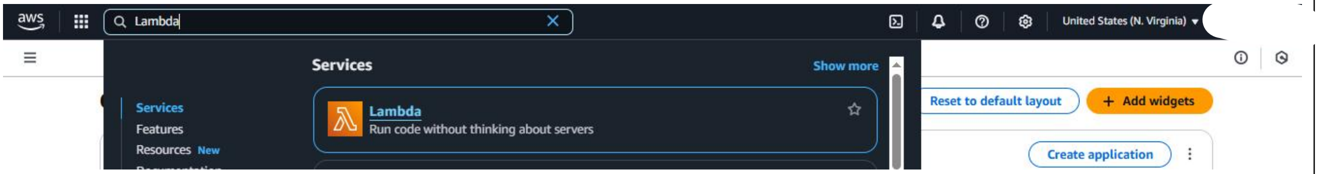
Assignment No : 15

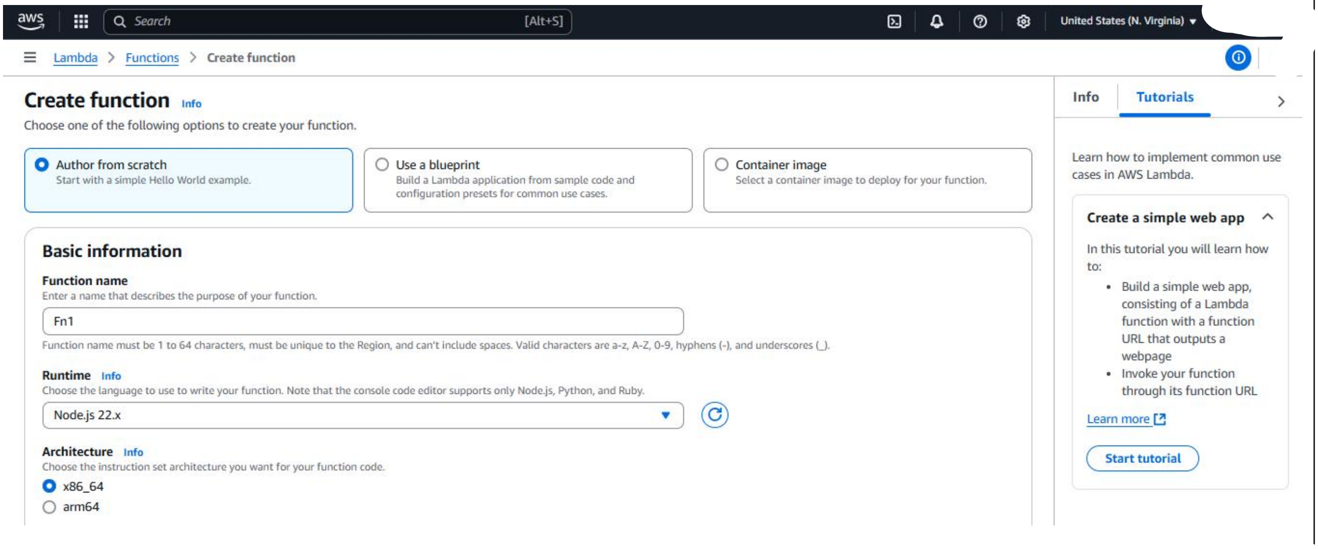
Title : Create a serverless computing service

Step 1: Search lambda in the search bar and then click on create function.



Lambda
Run code without thinking about servers

Step 2: Give function name and keep other details unchanged.



aws
Search [Alt+S]
United States (N. Virginia)
Lambda > Functions > Create function
Info
Tutorials
Learn more
Start tutorial

Create function Info

Choose one of the following options to create your function.

● Author from scratch
Start with a simple Hello World example.

○ Use a blueprint
Build a Lambda application from sample code and configuration presets for common use cases.

○ Container image
Select a container image to deploy for your function.

Basic information

Function name
Enter a name that describes the purpose of your function.

Fn1

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).

Runtime Info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Node.js 22.x

Architecture Info
Choose the instruction set architecture you want for your function code.

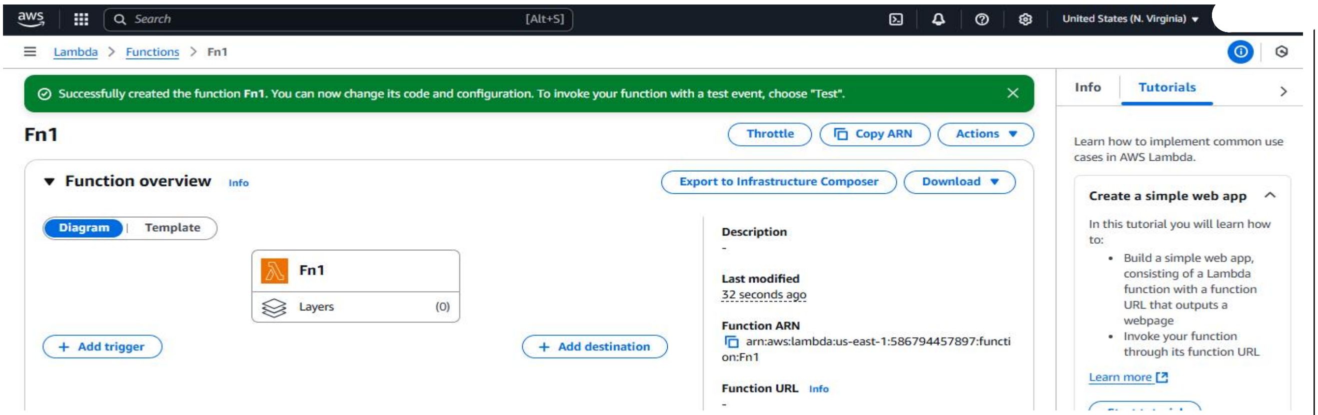
● x86_64
○ arm64

Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL



Successfully created the function **Fn1**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Fn1

Function overview Info

Description
-

Last modified
32 seconds ago

Function ARN
arn:aws:lambda:us-east-1:586794457897:function:Fn1

Function URL Info
-

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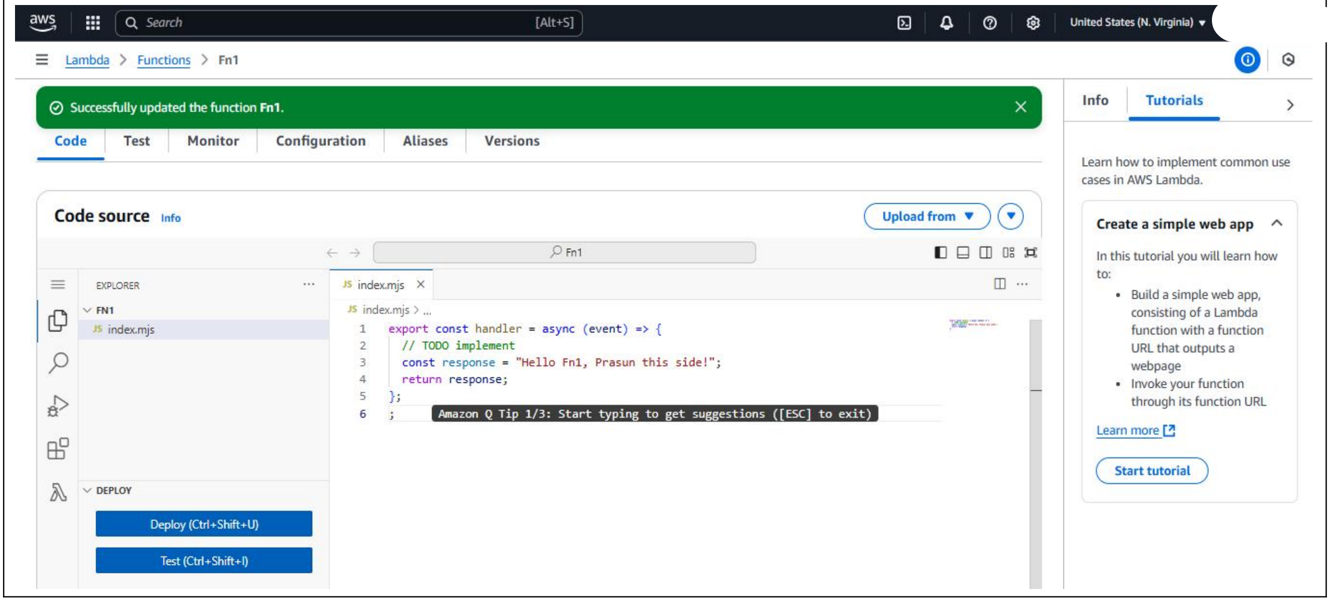
Step 3: Scroll down to the Code option to edit the code and deploy it.



Successfully updated the function **Fn1**.

```
export const handler = async (event) => {
  // TODO implement
  const response = "Hello Fn1, Prasun this side!";
  return response;
};
;  Amazon Q Tip 1/3: Start typing to get suggestions ([ESC] to exit)
```

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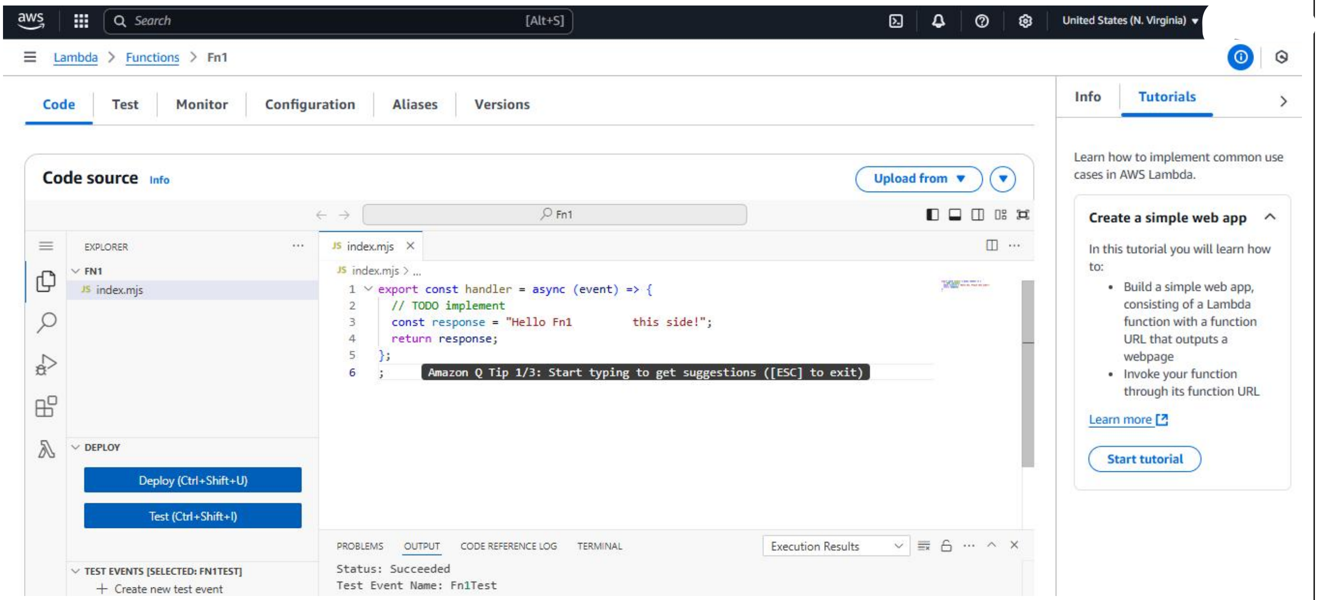
Step 4: Click the Test under Deploy > Create new test event > name the event and save it. Go to Test option

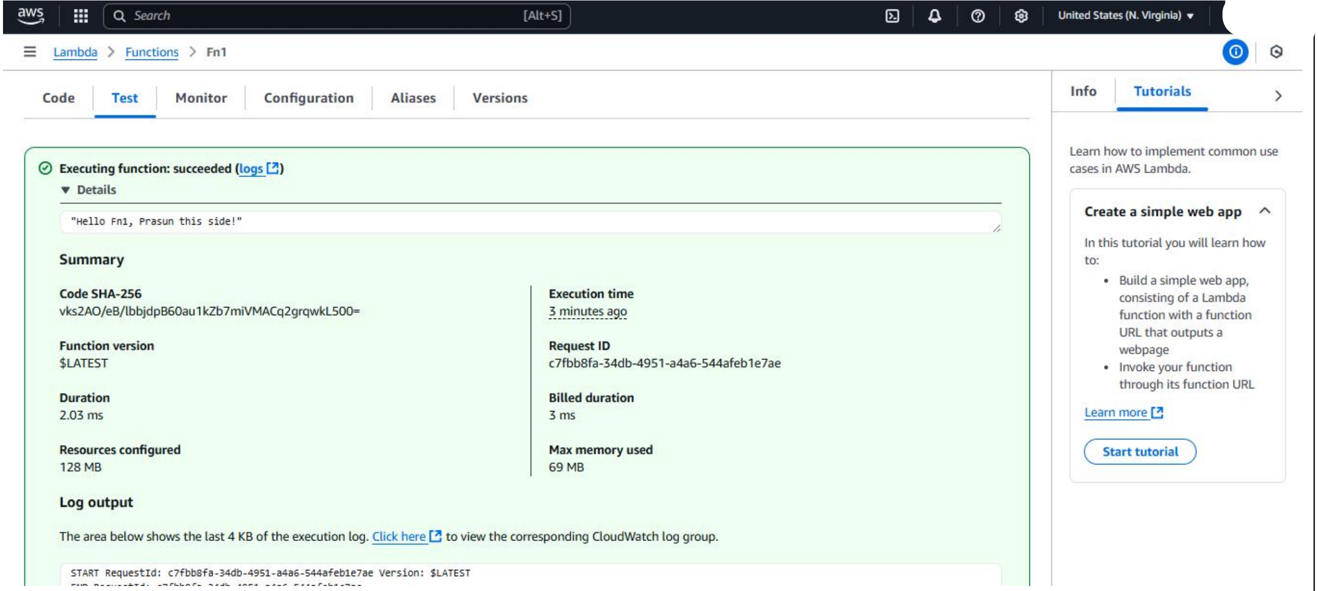


index.mjs > ...

```
export const handler = async (event) => {
  // TODO implement
  const response = "Hello Fn1        this side!";
  return response;
};
;    Amazon Q Tip 1/3: Start typing to get suggestions ([ESC] to exit)
```

```
Status: Succeeded
Test Event Name: Fn1Test
```

Step 5: After testing, a successful notification will pop up in the Test option.


aws
Search [Alt+S]
United States (N. Virginia) ▾
Lambda > Functions > Fn1
Code
Test
Monitor
Configuration
Aliases
Versions
Info
Tutorials
Learn how to implement common use cases in AWS Lambda.
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Executing function: succeeded (logs)

▼ Details

```
"Hello Fn1, Prasun this side!"
```

Summary

Code SHA-256
vks2AO/eB/lbbjdpB60au1kZb7miVMACq2grqwkL500=

Execution time
3 minutes ago

Function version
$LATEST

Request ID
c7fbb8fa-34db-4951-a4a6-544afeb1e7ae

Duration
2.03 ms

Billed duration
3 ms

Resources configured
128 MB

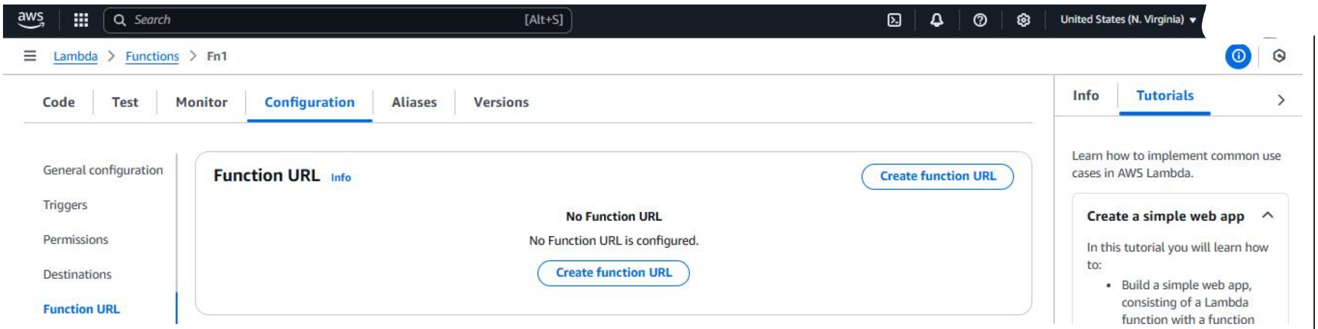
Max memory used
69 MB

Log output

The area below shows the last 4 KB of the execution log. Click here to view the corresponding CloudWatch log group.

```
START RequestId: c7fbb8fa-34db-4951-a4a6-544afeb1e7ae Version: $LATEST
```

Step 6: Go to configuration > Function URL and click on Create URL.



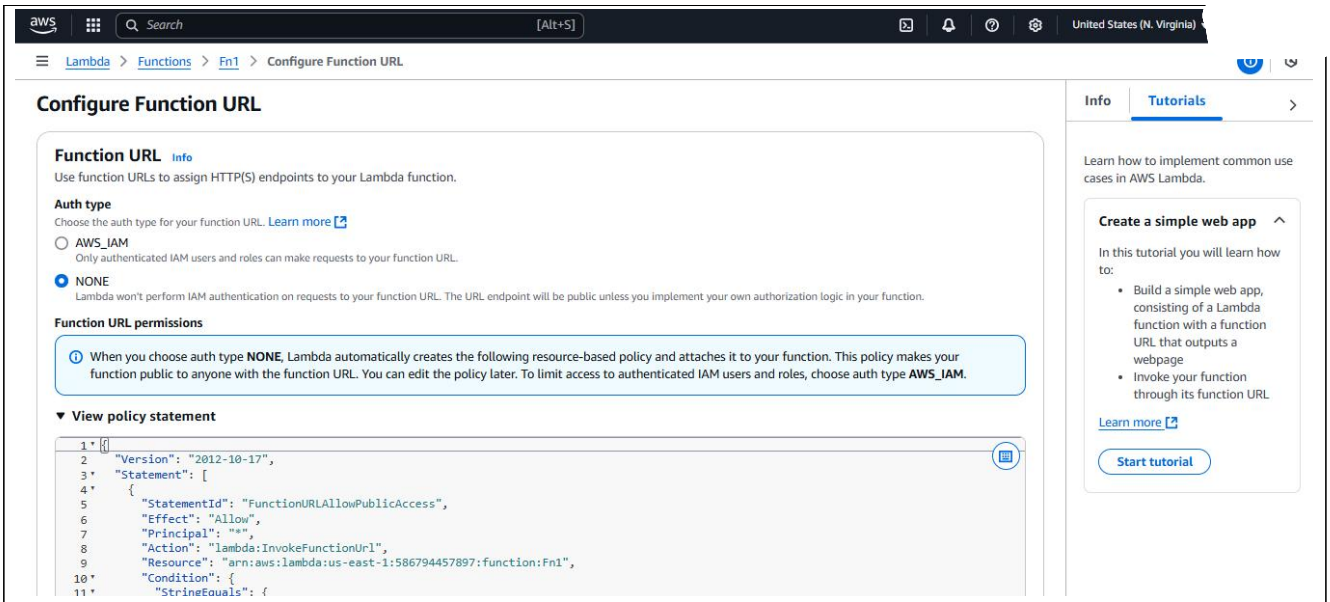
Function URL Info

No Function URL

No Function URL is configured.

Create function URL

Step 7: Click on none and save the URL. Now copy the function URL and paste it in a new tab.


aws
Search [Alt+S]
United States (N. Virginia)
Lambda > Functions > Fn1 > Configure Function URL
Info
Tutorials

Configure Function URL

Function URL Info

Use function URLs to assign HTTP(S) endpoints to your Lambda function.

Auth type

Choose the auth type for your function URL. Learn more

○ AWS_IAM
Only authenticated IAM users and roles can make requests to your function URL.

● NONE
Lambda won't perform IAM authentication on requests to your function URL. The URL endpoint will be public unless you implement your own authorization logic in your function.

Function URL permissions

When you choose auth type **NONE**, Lambda automatically creates the following resource-based policy and attaches it to your function. This policy makes your function public to anyone with the function URL. You can edit the policy later. To limit access to authenticated IAM users and roles, choose auth type **AWS_IAM**.

▼ **View policy statement**

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "StatementId": "FunctionURLAllowPublicAccess",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "lambda:InvokeFunctionUrl",
      "Resource": "arn:aws:lambda:us-east-1:586794457897:function:Fn1",
      "Condition": {
        "StringEquals": {
```

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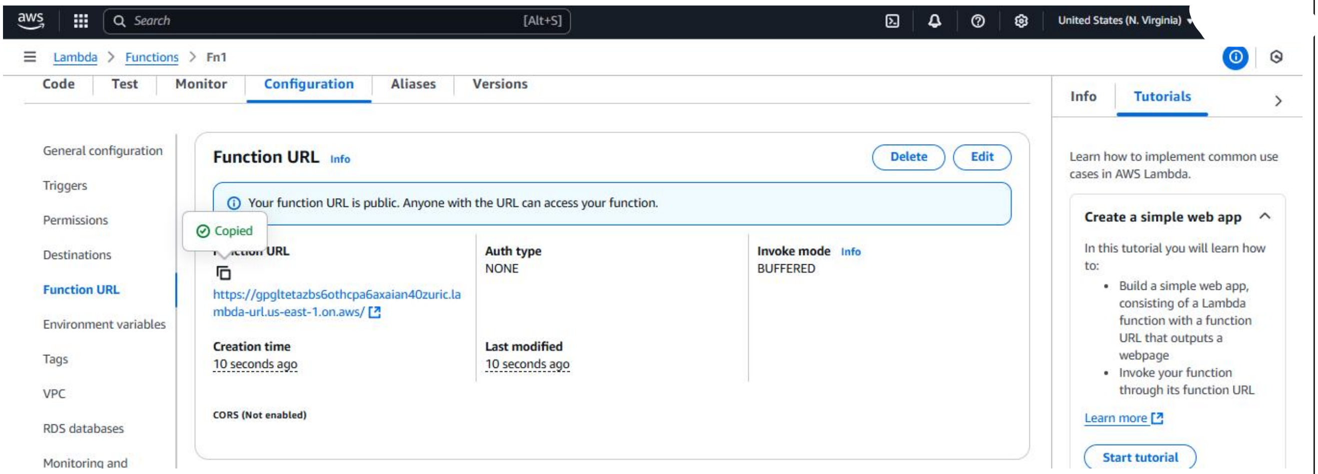

Function URL Info

Your function URL is public. Anyone with the URL can access your function.

Function URL	Auth type	Invoke mode Info
https://gpgltetazbs6othcpa6axaian40zuric.lambda-url.us-east-1.on.aws/	NONE	BUFFERED
Creation time 10 seconds ago	Last modified 10 seconds ago	

CORS (Not enabled)

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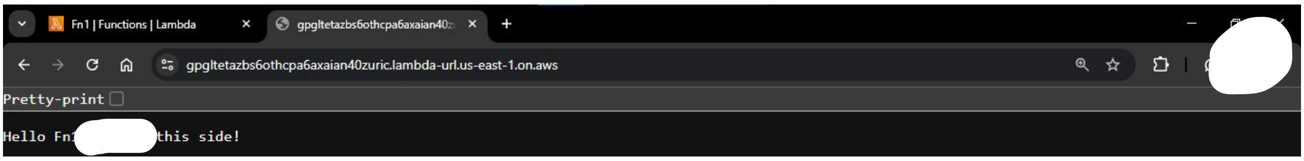
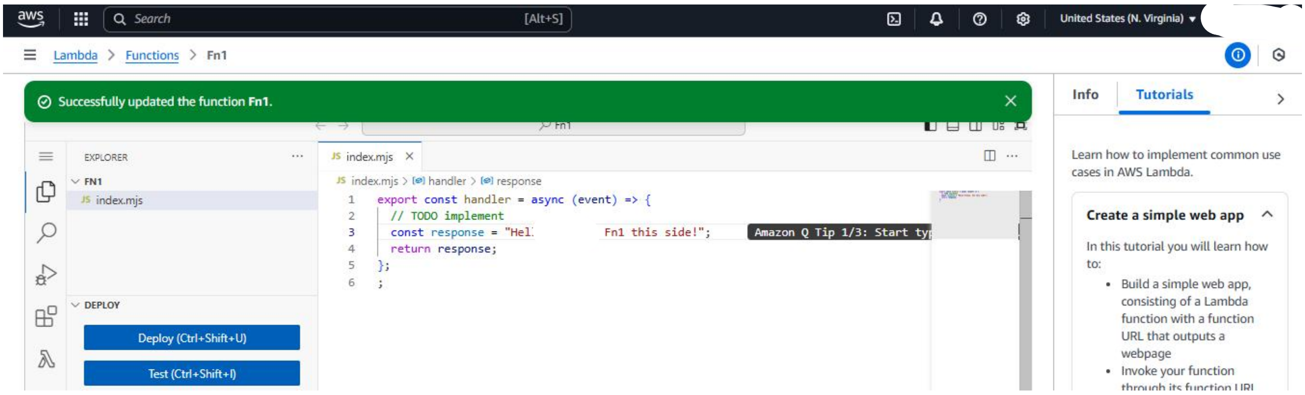

Fn1 | Functions | Lambda
gpgltetazbs6othcpa6axaian40z
gpgltetazbs6othcpa6axaian40zuric.lambda-url.us-east-1.on.aws
Pretty-print □

```
Hello Fn1[redacted]this side!
```

Step 8: Again go to code and edit the it and deploy it afterwards.



Successfully updated the function **Fn1**.

```
export const handler = async (event) => {
  // TODO implement
  const response = "Hel[redacted] Fn1 this side!";
  return response;
};
;
```

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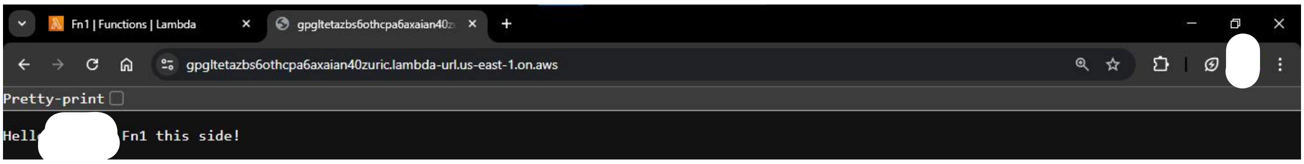
Step 9: Now refresh the URL.


Fn1 | Functions | Lambda
gpgltetazbs6othcpa6axaian40z
gpgltetazbs6othcpa6axaian40zuric.lambda-url.us-east-1.on.aws
Pretty-print □

```
Hell[redacted]Fn1 this side!
```