

## ELEVATE-LABS-TASK-3

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Designation - Cloud Intern

Github: <https://github.com/mansur1913/elevate-labs-task-4>

Deliverables:

**Source code file (e.g., index.js or main.py)**

```
import json

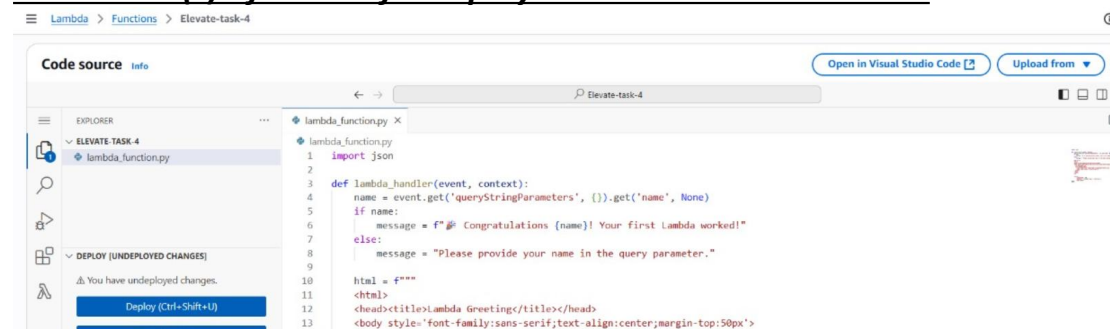
def lambda_handler(event, context):
    # Get the 'name' from the query string
    name = None
    if event.get("queryStringParameters"):
        name = event["queryStringParameters"].get("name")

    # If user entered a name, show message
    if name:
        message = f"Congratulations {name}!! Your first Lambda worked!"
    else:
        message = "Please enter your name below "

    # HTML content returned directly from lambda
    html = f"""
<html>
  <head>
    <title>My First Lambda</title>
  </head>
  <body style='font-family:Arial;text-align:center;margin-top:50px;background:#f7f9fa'>
    <h2>{message}</h2>
    <form method "GET">
      <input type="text" name="name" placeholder="Enter your name"
style="padding:8px;border-radius:5px;">
      <input type="submit" value="Submit" style="padding:8px
12px;border-radius:5px;background:#4CAF50;color:white;border:none;">
    </form>
  </body>
</html>
"""

    return {
        "statusCode": 200,
        "headers": { "Content-Type": "text/html" },
        "body": html
    }
```

## Screenshot(s) of successful deployment in the cloud console



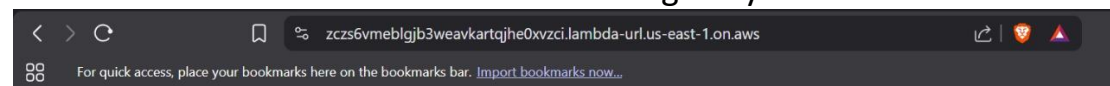
## Function endpoint URL (if applicable)

I got eg: URL - <https://4rhpketsnv46m6zs24ncj5qxwy0csceh.lambda-url.us-east-1.onaws/>

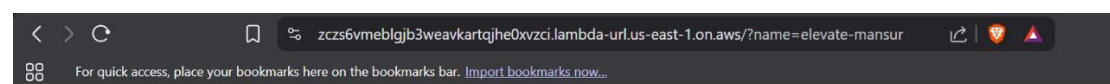
## Short note explaining how the function works

Create a serverless webserver with AWS lambda function, using python and html, which will ask to input for name and return a message,

As this is serverless we don't have to manage any servers or ec2 instance.



Please provide your name in the query parameter.

ðŸŽ‰ Congratulations elevate-mansur! Your first Lambda worked!

## Elevate-labs-Task #4

Task 4: Deploy a Serverless Function to the Cloud\*

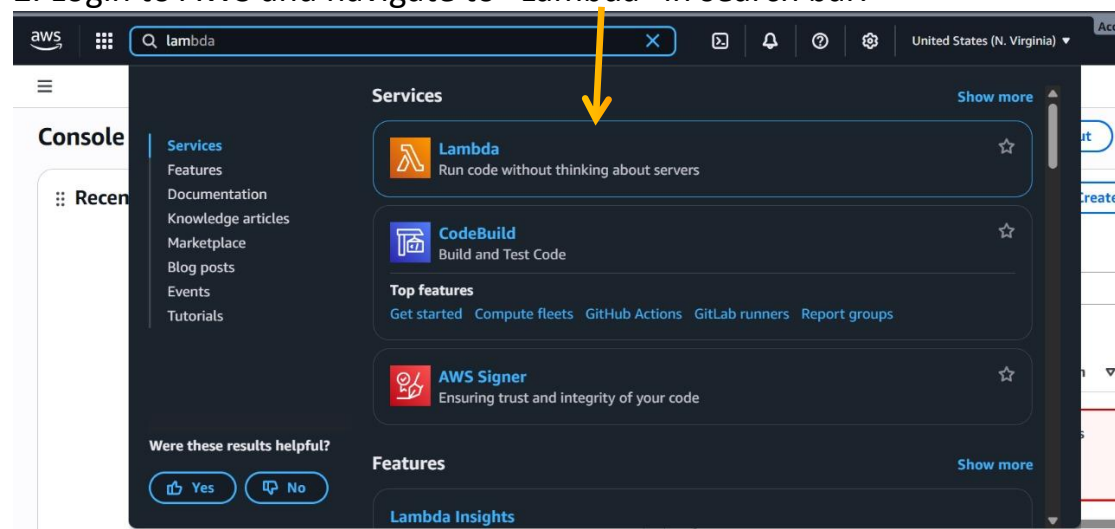
## Objective:

To understand \*serverless computing\* by creating and deploying a simple \*cloud function (FaaS)\* that executes code automatically when triggered — without managing any servers.

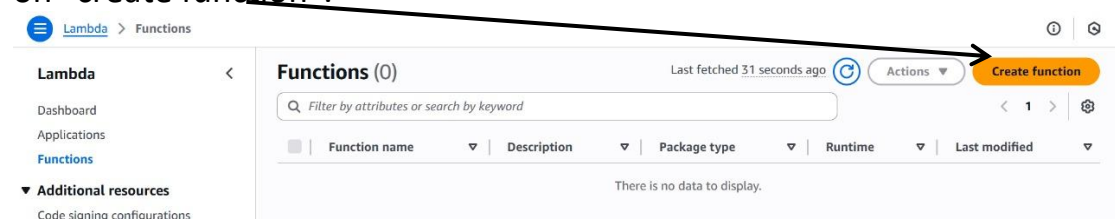
1. Lets create a serverless webserver with AWS lambda function, using python and html.

As this is serverless webserver we don't have to manage any server or ec2 instance.

2. Login to AWS and navigate to "Lambda" in search bar.



3. Click on "Functions" in your left and hand side menu.. and then click on "create function".



4. After that a configuration window will appear.. In that name your function.. As I am naming it as “Elevate-task-4”.

aws Search [Alt+S] United States (N. Virginia)

Lambda > Functions > Create function

### 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.

#### Basic information

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

Elevate-task-4

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

5. In runtime select “Python”, As we will use python code.

aws Search [Alt+S] United States (N. Virginia)

Lambda > Functions > Create function

#### Runtime [Info](#)

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

Python 3.13

Q |

- Node.js 22.x
- Python 3.13** ✓
- Ruby 3.4
- Amazon Linux 2023  
OS-only runtime for Go, Rust, C++, custom

**Other supported**

- Java 11

► **Additional configurations**  
Use additional configurations to set up networking, security, and governance for your function. These settings help secure and customize your Lambda function

6. Leave everything as default and click on “create function”

aws Search [Alt+S] United States (N. Virginia)

Lambda > Functions > Create function

#### Permissions [Info](#)

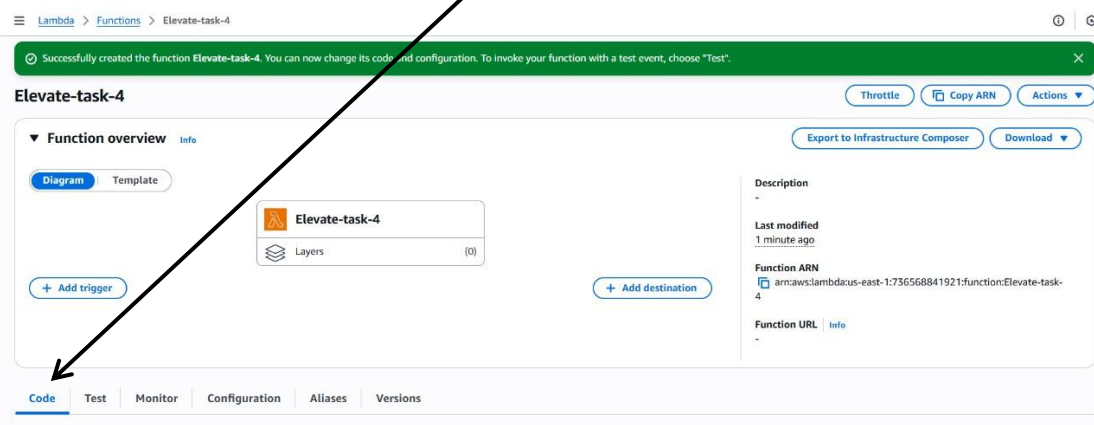
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

► **Change default execution role**

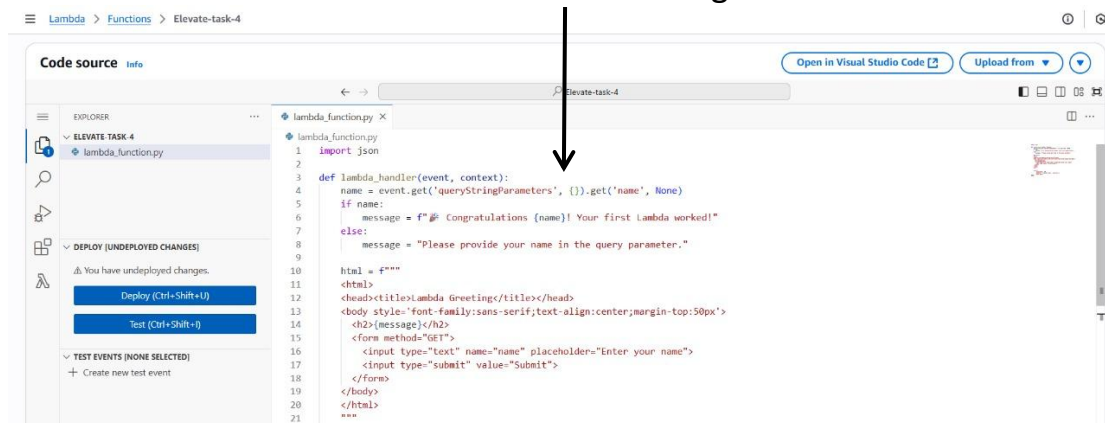
► **Additional configurations**  
Use additional configurations to set up networking, security, and governance for your function. These settings help secure and customize your Lambda function deployment.

Cancel **Create function**

7. Once created a page will open like below, Where we can deploy our “code”, Scroll down and select “code”.



8. You can write the code in the given editor.



Python Code Below:

```
import json

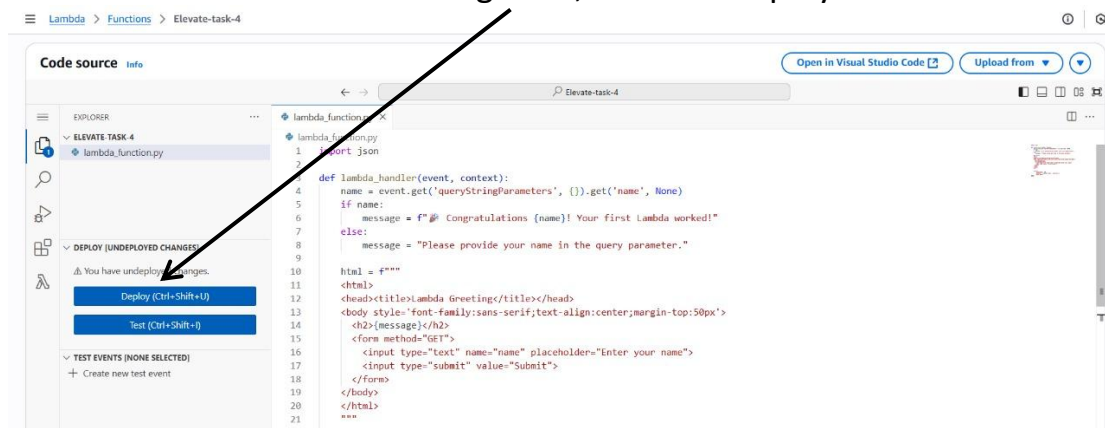
def lambda_handler(event, context):
    # Get the 'name' from the query string
    name = None
    if event.get("queryStringParameters"):
        name = event["queryStringParameters"].get("name")

    # If user entered a name, show message
    if name:
        message = f"Congratulations {name}! Your first Lambda worked!"
    else:
        message = "Please enter your name below "

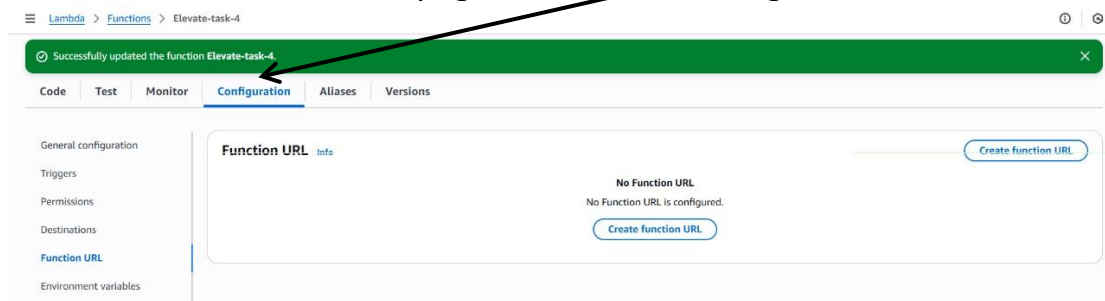
    # HTML content returned directly from lambda
    html = f"""
    <html>
    <head>
    <title>My First Lambda</title>
    </head>
    <body style='font-family:Arial;text-align:center;margin-top:50px;background:#f1f1f1'>
    <h2>{message}</h2>
    <form method="GET">
    <input type="text" name="name" placeholder="Enter your name"
    style="padding:8px;border-radius:5px;">
    <input type="submit" value="Submit" style="padding:8px
    12px;border-radius:5px;background:#4CAF50;color:white;border:none;">
    </form>
    </body>
    </html>
    """

    return {
        "statusCode": 200,
        "headers": {"Content-Type": "text/html"},
        "body": html
    }
```

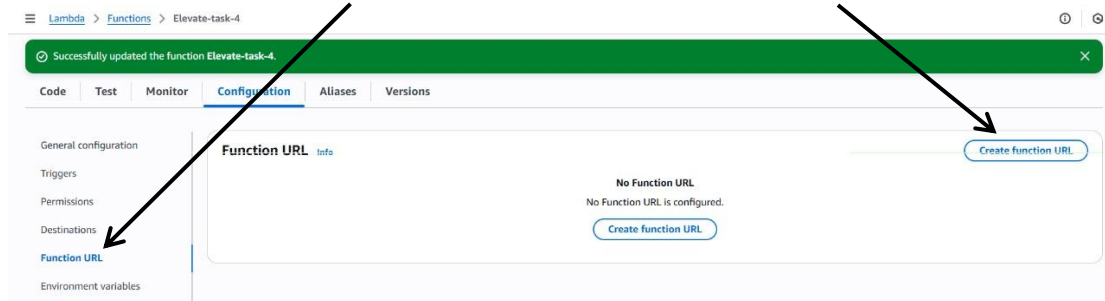
9. After writing code, click on “deploy”.



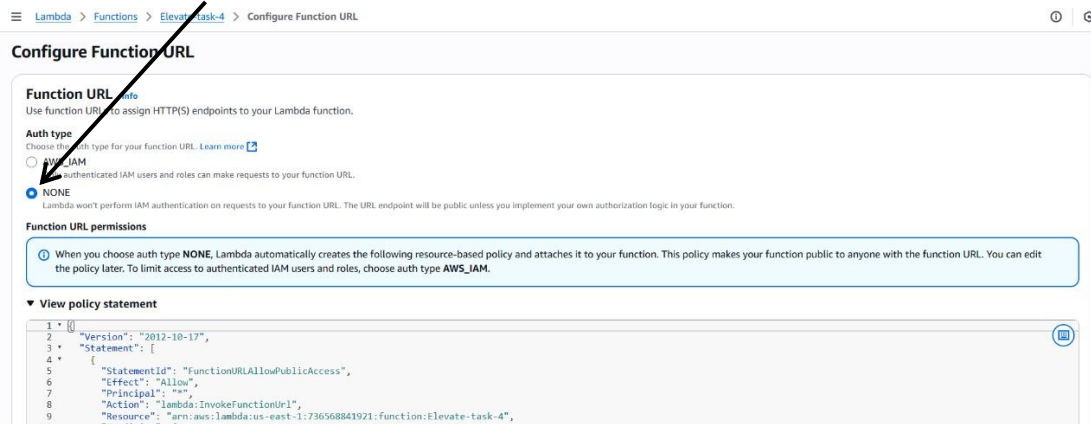
10. Now we have successfully deployed the function, but we need URL to access the webpage, So click on “configuration” tab.



11. Then click on “Function URL” and click on “create function URL”

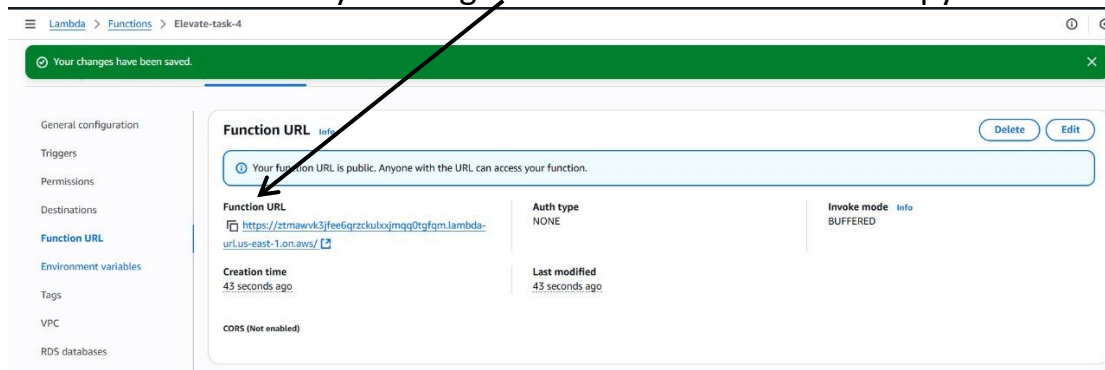


12. Select “NONE” then scroll down and click on ‘save’.

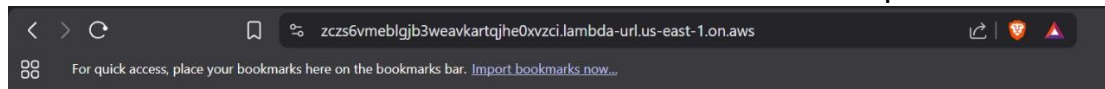




13. After this you will get “Function URL” for now copy it.



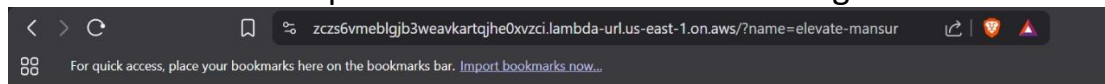
14. Paste the URL in the browser and it will ask for input name.



Please provide your name in the query parameter.

15. Once we input the name it will return message as below:



δŸŽ% Congratulations elevate-mansur! Your first Lambda worked!

End of task