

# Assignment 15

## Create Serverless Computing Service using AWS Lambda

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### Objective

To create and deploy a simple AWS Lambda function that prints a custom welcome message — demonstrating serverless computing on AWS.

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### Part 1: Creating the Lambda Function

#### ✓ Step 1: Open Lambda Service

1. Log in to your AWS Console: <https://aws.amazon.com/console/>
2. In the **Search bar**, type **Lambda** and click on it.

#### **Explanation:**

AWS Lambda lets you run code without managing servers. You only focus on writing the function logic.

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#### ✓ Step 2: Create the Function

1. Click on the “**Create function**” button.
  2. Select “**Author from scratch.**”
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#### ✓ Step 3: Set Function Details

- **Function name:** e.g., func\_x1
- **Runtime:** Choose **Python 3.9** or any preferred runtime (Node.js, etc.)

**Tip:** The runtime determines what programming language your Lambda function will use.

3. Scroll down and leave all other settings as **default**.
  4. Click **Create function**.
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#### ✓ Step 4: Modify the Code

1. Wait for the function page to load. You’ll be taken to the function dashboard.
2. Under the **Code** tab, locate and open the index.mjs or main file (for Python, it might be lambda\_function.py).

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3. Replace any occurrence of the word “**lambda**” with “**sneha**” in the sample code.

### 🔗 Example (Node.js):

```
export const handler = async (event) => {  
  const response = {  
    statusCode: 200,  
    body: JSON.stringify('Welcome from Sneha!'),  
  };  
  return response;  
};
```

4. Click **File > Save** to save the code.

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### □ Part 2: Test the Lambda Function

#### ✓ Step 5: Create and Run a Test Event

1. Click on the **Test** button (top-right).
2. Select “**Create new test event.**”
3. Give it an **Event name**, e.g., `evel`.
4. Leave the default JSON data as is (you don’t need to change anything).
5. Click **Save**.
6. Now click **Test** to execute the Lambda function.

□ **Note:** If you don’t see your message change (e.g., “sneha”), it means you haven’t deployed the latest code yet.

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#### ✓ Step 6: Deploy and Re-Test

1. Click the **Deploy** button to apply your code changes.
2. Click **Test** again to see the updated result.

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### 🌐 Part 3: Expose Your Lambda Function via URL

#### ✓ Step 7: Create Function URL

1. Go to the **Configuration** tab.
  2. Under the left-side menu, click **Function URL**.
  3. Click **Create function URL**.
  4. For **Auth type**, choose **None**.
  5. Click **Save**.
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## ✔ Step 8: Test the URL

1. Once the Function URL is created, click on it.
2. A new browser tab opens, showing your Lambda function output (e.g., "Welcome from Sneha!").

⚠ If you see an error, ensure your function code returns a valid HTTP response.

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## □ Part 4: Clean Up Resources

To avoid unnecessary AWS charges:

## ✔ Step 9: Delete Resources

1. Go back to **Configuration > Function URL** and **delete the URL**.
2. Then return to the **Lambda dashboard**, select your function, and click **Delete**.

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## 🔗 Expected Output

- After deployment and testing, your function should return:

"Welcome from Sneha!"

- You should be able to view this output via the Test button and directly from the Function URL.