

## Task: Build a Serverless Function with Lambda and API Gateway

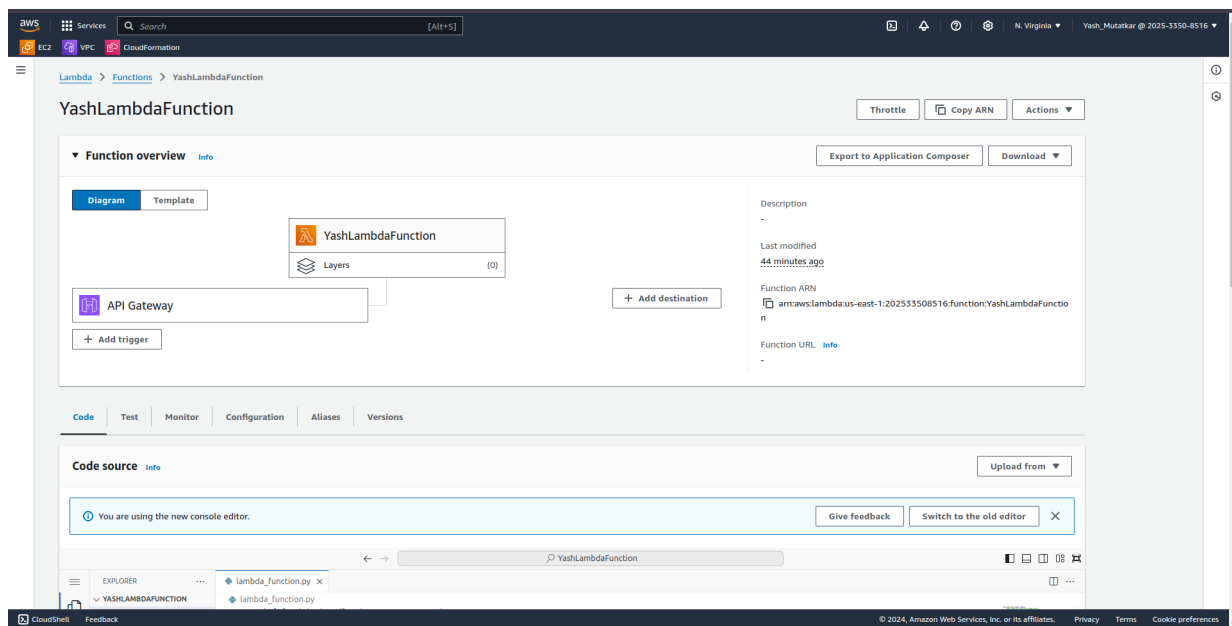
I recently took on the task of creating a serverless application using AWS, and I'm excited to share my journey!

### Step 1: Creating an AWS Account

First, I headed over to the [AWS website](#) to Login in my account.

### Step 2: Setting Up My Lambda Function

- **Navigating to Lambda:** In the AWS Management Console, I searched for "Lambda" and clicked on it. This is where the magic happens!
- **Creating the Function:** I clicked the "Create function" button and opted to "Author from scratch." I named my function **YashLambdaFunction** and selected **Python 3.9** as the runtime. I kept the default settings for everything else and clicked **"Create function."**



- **Writing the Code:** In the "Function code" section, I replaced the default code with my own:

```
def lambda_handler(event, context):  
    # HTML content with inline CSS for simple styling  
    html_content = """  
    <!DOCTYPE html>  
    <html lang="en">  
    <head>  
    <meta charset="UTF-8">  
    <title>Hello from Lambda</title>  
    <style>  
    body {  
    font-family: Arial, sans-serif;
```

```

background-color: #f0f0f5;
color: #333;
text-align: center;
padding-top: 50px;
}
.container {
display: inline-block;
padding: 20px;
border: 2px solid #4CAF50;
border-radius: 10px;
background-color: #e6ffe6;
}
h1 {
color: #4CAF50;
}
</style>
</head>
<body>
<div class="container">
<h1>Hello World,This is me Yash Mutatkar!</h1>
<p>This is my first serverless function with HTML response!</p>
</div>
</body>
</html>
"""
return {
'statusCode': 200,
'headers': {
'Content-Type': 'text/html'
},
'body': html_content
}

```

This simple code would return a friendly greeting when called.

- **Deploying the Function:** After writing the code, I hit the “Deploy” button to make my function live.

### Step 3: Setting Up API Gateway

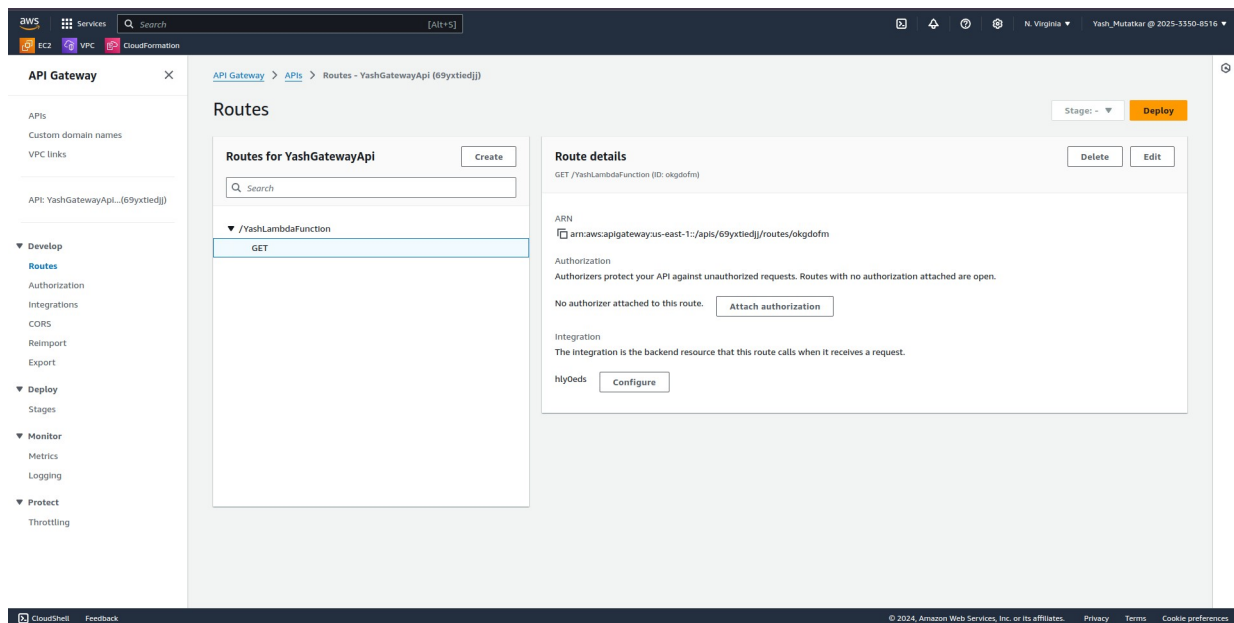
Next, I needed a way to trigger my Lambda function via an HTTP request, so I set up API Gateway:

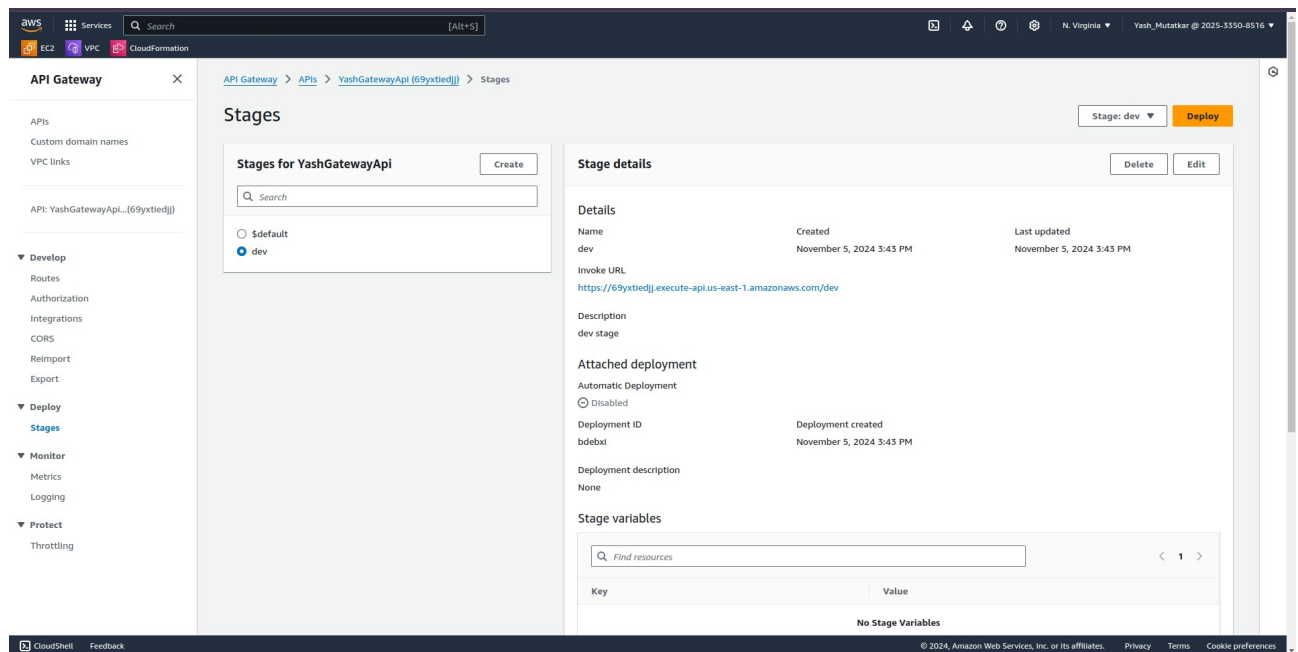
- **Navigating to API Gateway:** I searched for “API Gateway” in the console and clicked on it.
- **Creating a New API:** I clicked “Create API” and selected “HTTP API” for a simple setup. After clicking “Build,” I was ready to configure my API.
- **Configuring the API:** In the configuration section, I added an integration for my Lambda function. I chose “Lambda” and selected my **YashLambdaFunction**. Once done, I clicked “Create” to finalize the integration.

- **Defining a Route:** I set up a route for my API by specifying:
  - **Method:** GET
  - **Resource path:** /hello

After that, I clicked “Create” to add the route.

- **Reviewing and Creating the API:** I clicked through the options until I reached the final step, where I named my API `YashGatewayApi` and clicked “Create.”
- **Deploying the API:** Finally, I clicked on “Deployments” in the left menu, and there it was—the endpoint URL I needed to test my Lambda function!





## Step 4: Testing the Endpoint

To ensure everything was working, I decided to test my new API endpoint:

1. **Using Postman:** I opened Postman, created a new GET request, and entered the endpoint URL I copied from API Gateway <https://69yxtiedjj.execute-api.us-east-1.amazonaws.com/dev/YashLambdaFunction>. After clicking “Send,” I was thrilled to see the response with my message!
2. **Using a Web Browser:** I also tried pasting the endpoint URL directly into my web browser. When I hit Enter, the same friendly greeting appeared on my screen.

