

School of Computer Science, Engineering and Applications (SCSEA)

B. Tech TY (CCSA)

Subject: Cloud Architecture And Protocol

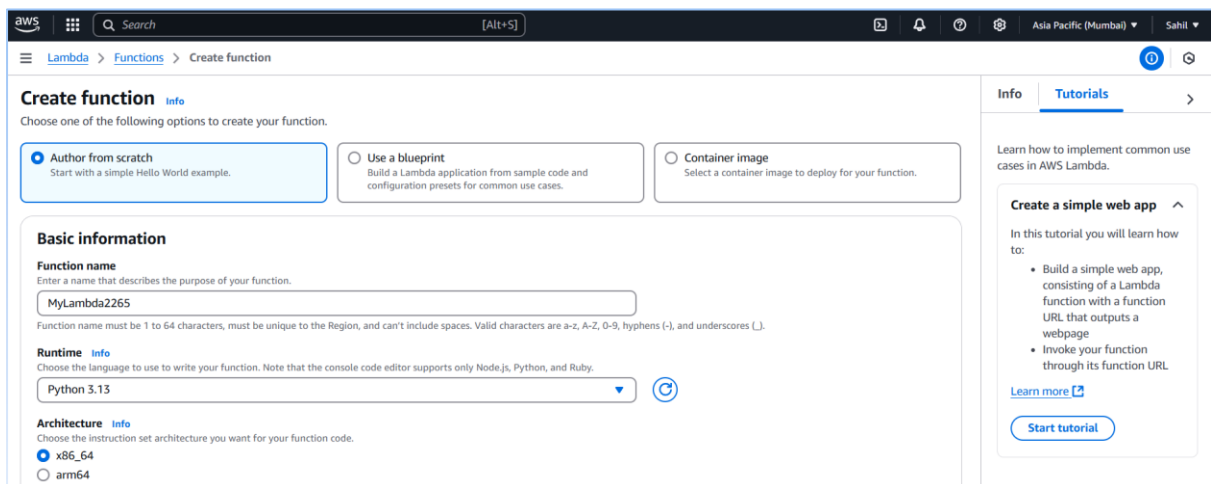
Name of the Student: Sahil S. Mandawgade

PRN: 20220802265

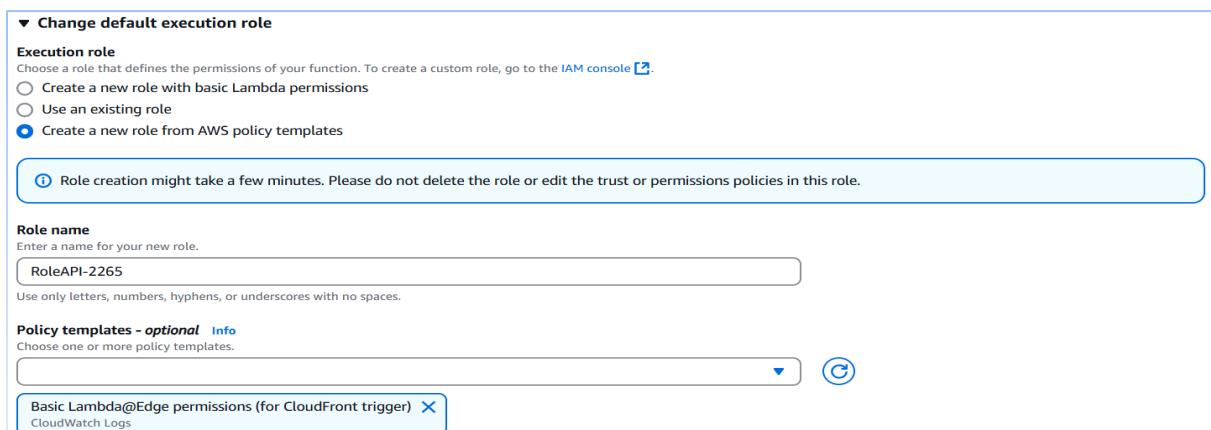
Title of Practical: 10. Build API Gateway with Lambda Integration.

Step 1: Create an AWS Lambda Function

- Sign in to AWS Console → Go to Lambda.
- Click Create function → Choose Author from scratch.
- Enter a Function Name (MyLambda2265).
- Choose Runtime (Python 3.13 or Python 3.11).



- Select an Execution Role:
 - Choose Create a new role from AWS Policy templates
 - Set name as 'RoleAPI-2265'
 - Select Policy template – Basic Lambda.



- Click Create function.

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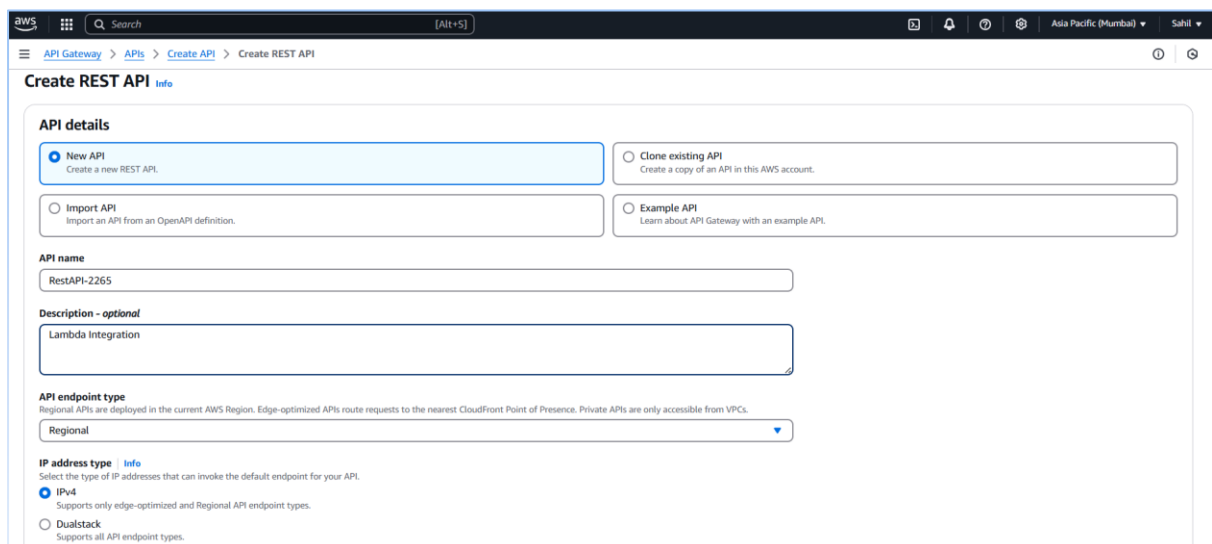
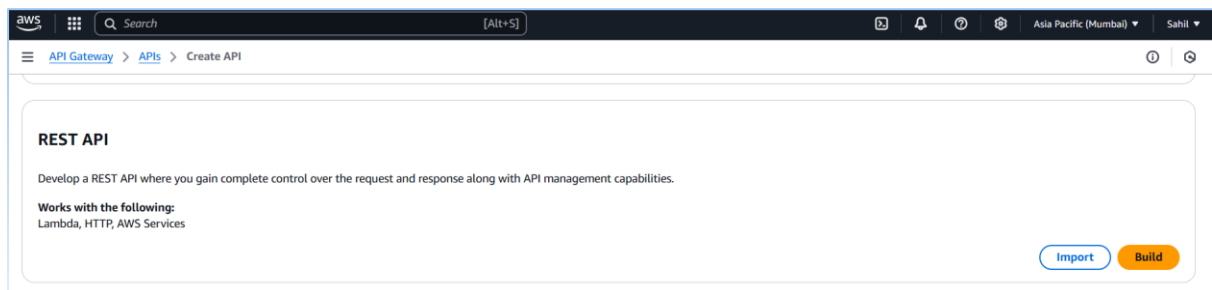
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Step 2: Create an API Gateway

- Go to API Gateway → Click Create API.
- Select REST API.
- Click Build.



- Create a Resource and Deploy API
 - In API Gateway, under your newly created API:

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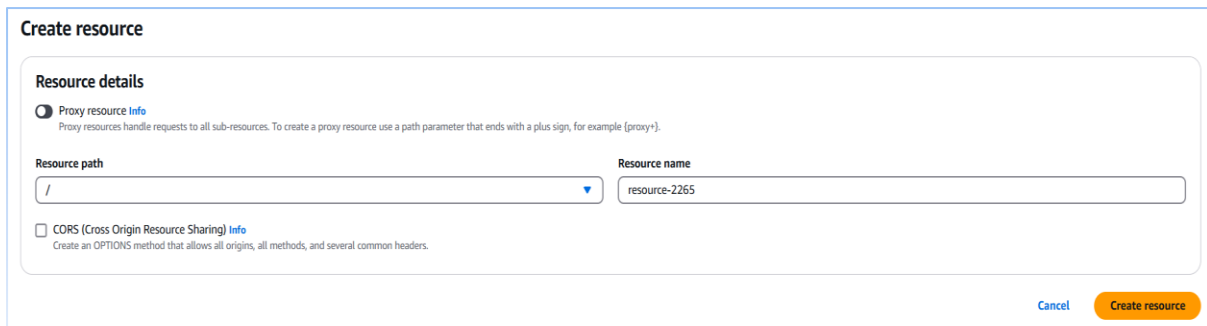
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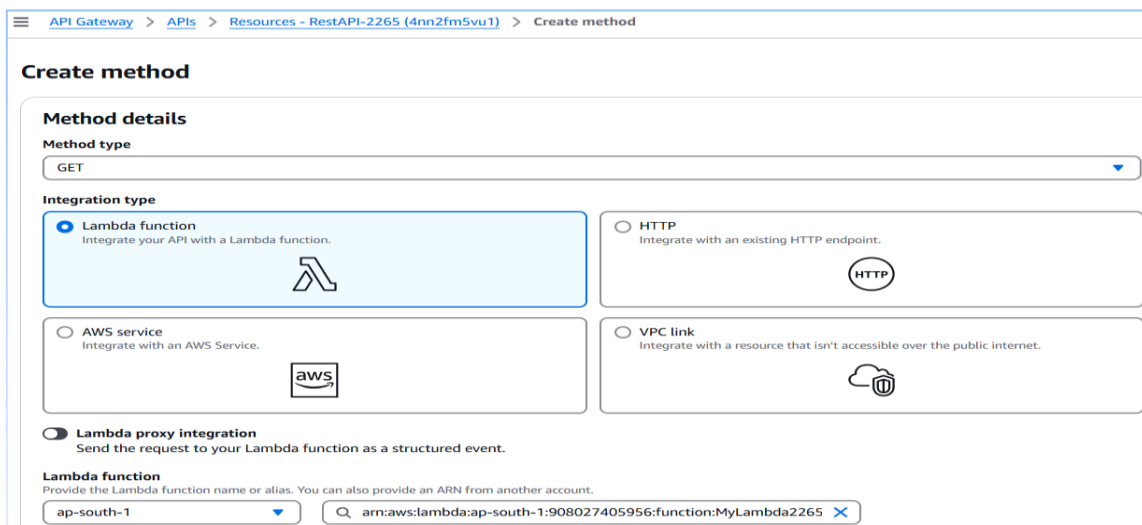
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1. Click Resources → Create Resource.
2. Enter Resource Name (resource-2265).
3. Click Create Resource.



- Click Actions → Create Method.
- Select GET.
- Set Integration Type to Lambda Function.
- Select Lambda Function – MyLambda2265.
- Set Integration Timeout to 29 seconds (default).
- Click on 'Create method'.



- Click Deploy API:
 - Create a new stage → Enter Stage Name (Stage2265).

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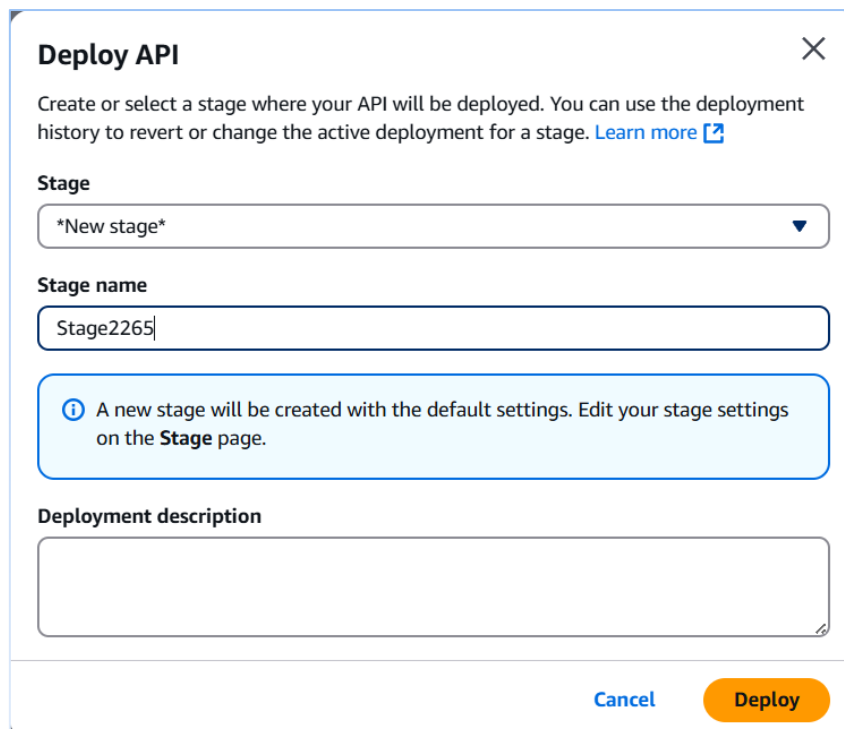
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- Click Deploy.



Deploy API [X]

Create or select a stage where your API will be deployed. You can use the deployment history to revert or change the active deployment for a stage. [Learn more](#)

Stage

New stage

Stage name

Stage2265

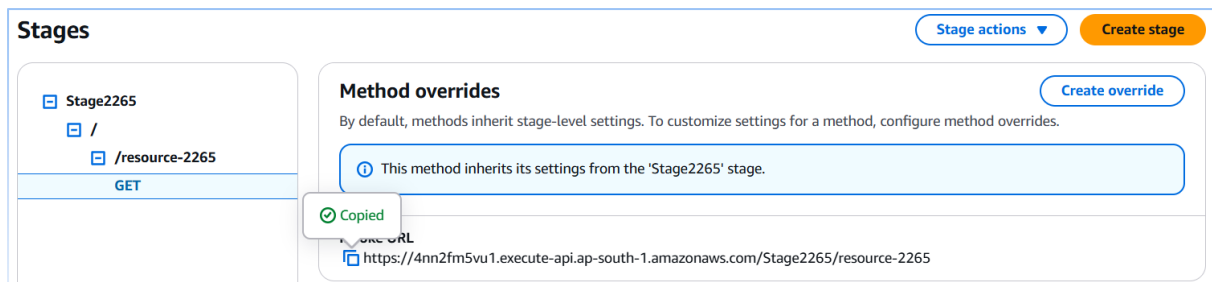
Deployment description

[Empty text area]

[Cancel](#) [Deploy](#)

ⓘ A new stage will be created with the default settings. Edit your stage settings on the **Stage** page.

- Get the Invoke URL
- Go to Stages → Select your Stage .
- Click on your Resource → GET.
- Copy the Invoke URL



Stages [Stage actions] [Create stage]

☒ Stage2265

☒ /

☒ /resource-2265

GET

Method overrides [Create override]

By default, methods inherit stage-level settings. To customize settings for a method, configure method overrides.

ⓘ This method inherits its settings from the 'Stage2265' stage.

Invoke URL

<https://4nn2fm5vu1.execute-api-south-1.amazonaws.com/Stage2265/resource-2265>

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- Paste it in a new tab.



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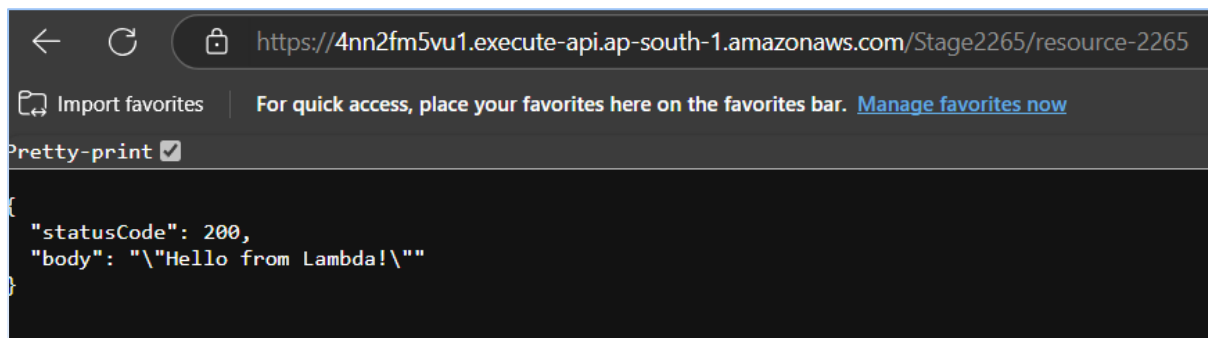
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API Gateway has been built successfully.

- **Start the deletion process:**
 - Delete method, resource, API.
 - Delete Lambda Function.