

ADVANCE DEVOPS EXP 11

Name: Ronit Santwani

Class: D15A

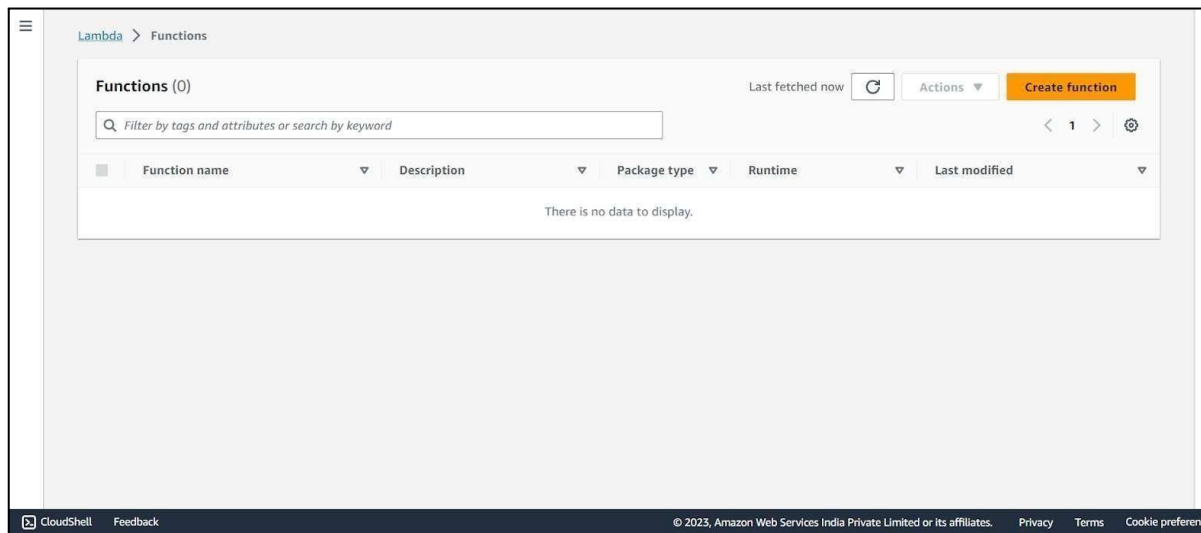
Roll No: 49

AIM: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

Steps to create an AWS Lambda function

Step 1: Open up the Lambda Console and click on the Create button.

Be mindful of where you create your functions since Lambda is region-dependent.



2. Choose to create a function from scratch or use a blueprint, i.e templates defined by AWS for you with all configuration presets required for the most common use cases.

Then, choose a runtime env for your function, under the dropdown, you can see all the options AWS supports, Python, Nodejs, .NET and Java being the most popular ones. After that, choose to create a new role with basic Lambda permissions if you don't have an existing one.

[Lambda](#) > [Functions](#) > Create function

Create function Info

AWS Serverless Application Repository applications have moved to [Create application](#).

☒ **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.

Use only letters, numbers, hyphens, or underscores with no spaces.

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 18.x

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

☒ x86_64

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Python 3.11

Architecture Info
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☒ x86_64
☐ arm64

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.

<https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/applications>

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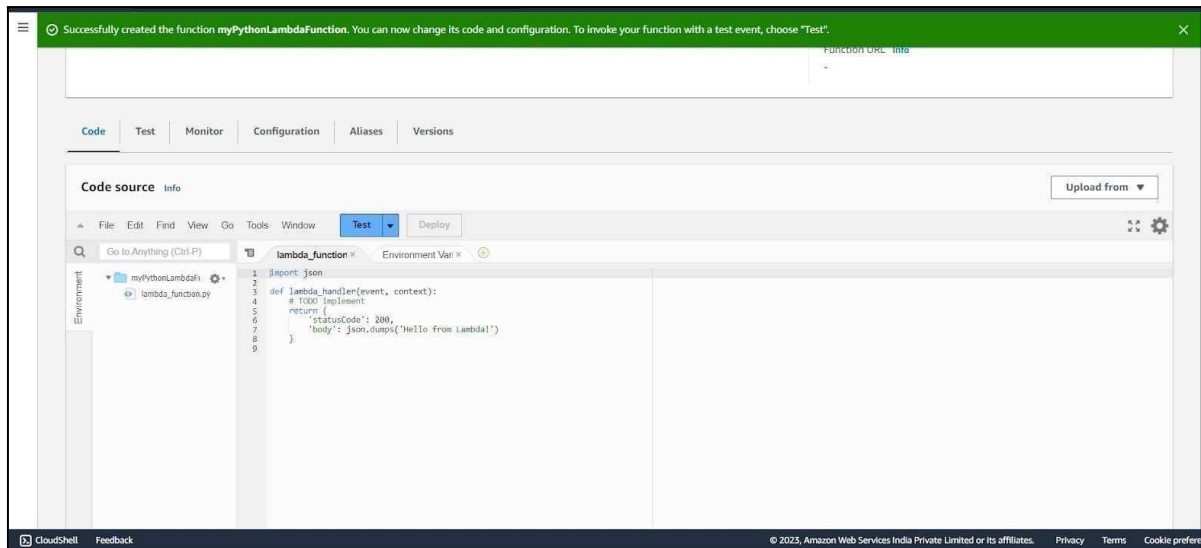
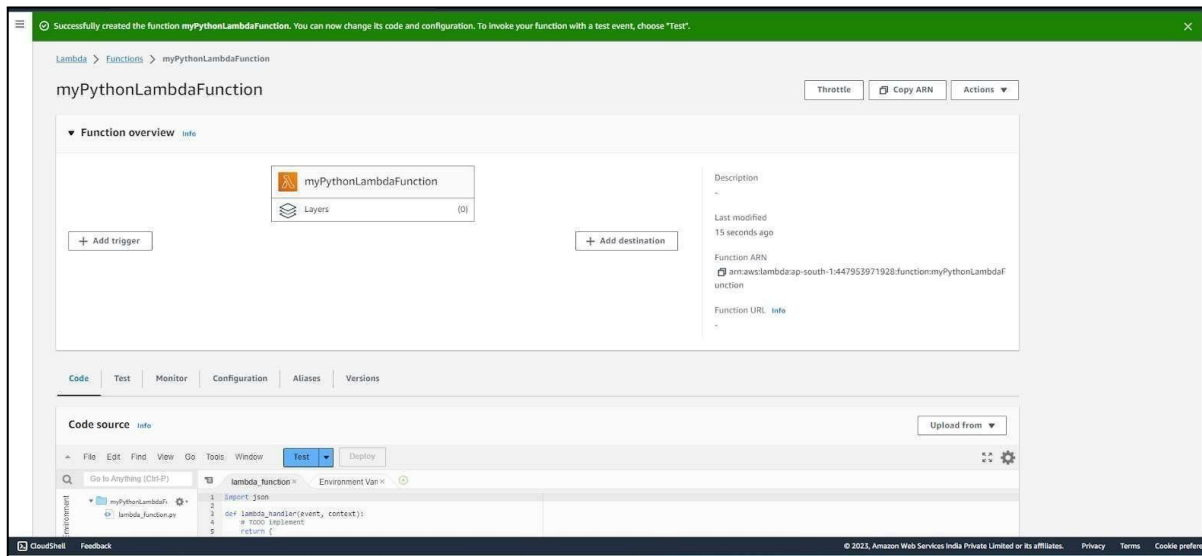
[Change default execution role](#)

[Advanced settings](#)

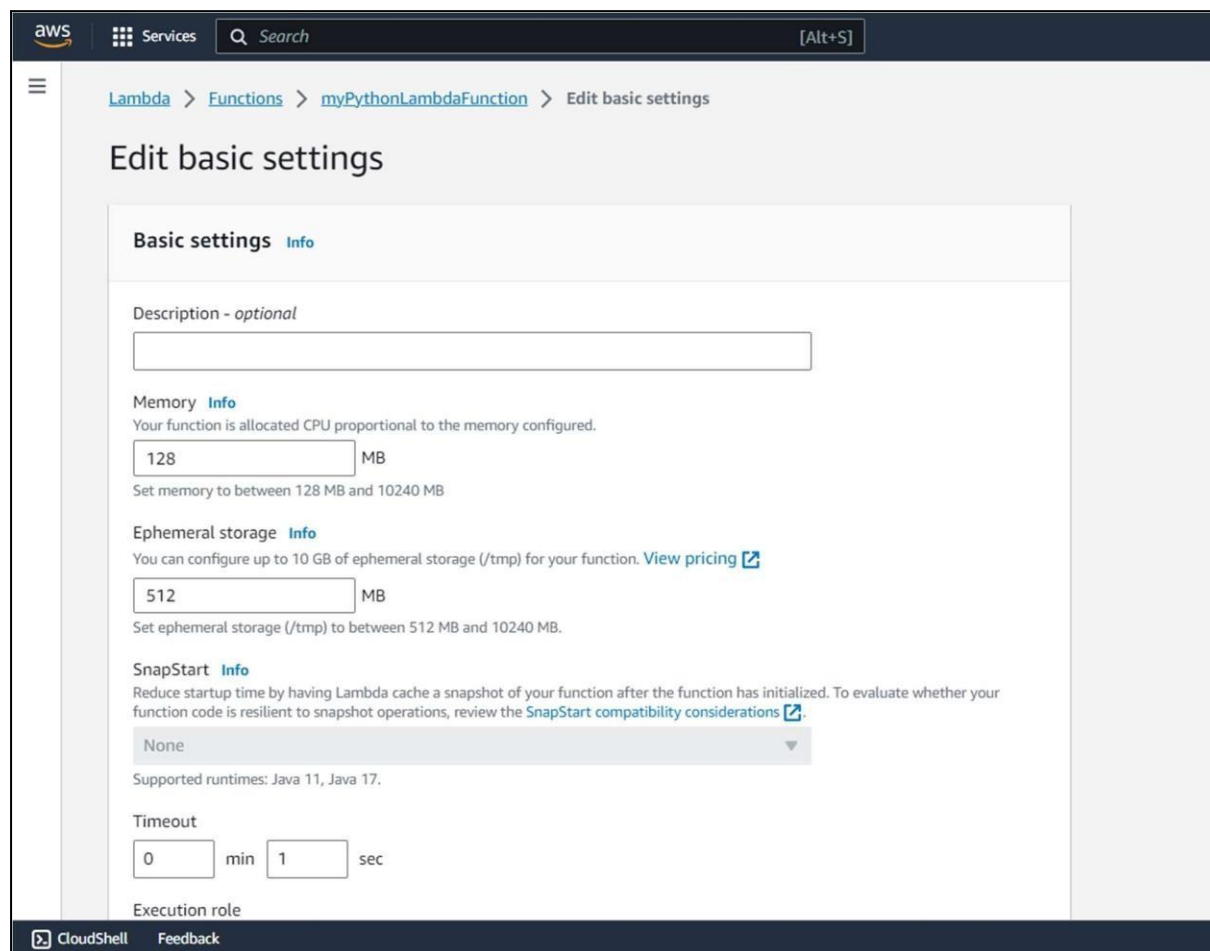
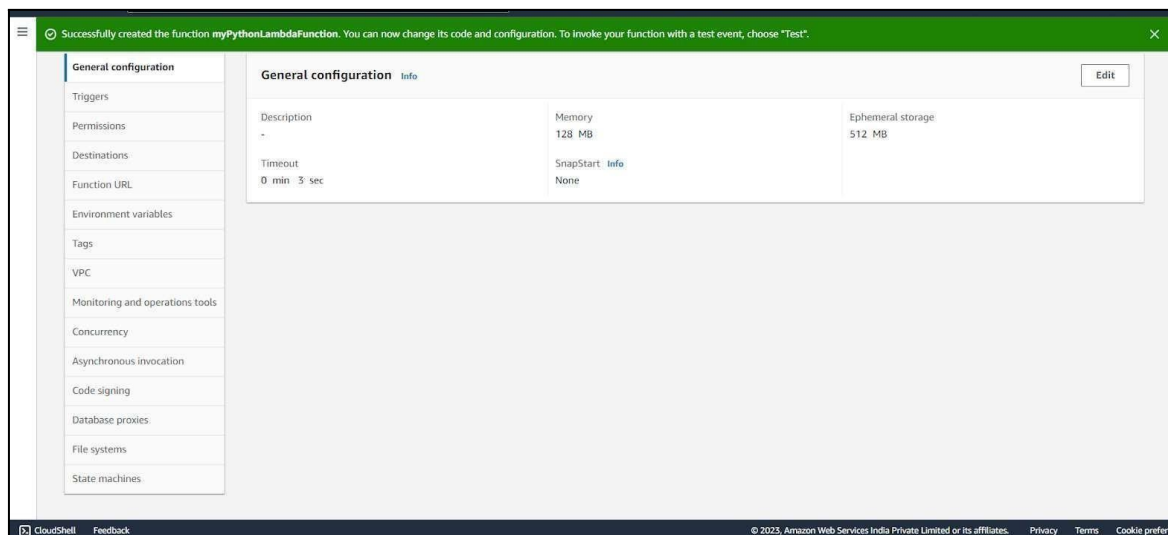
Cancel [Create function](#)

Click on the Create button.

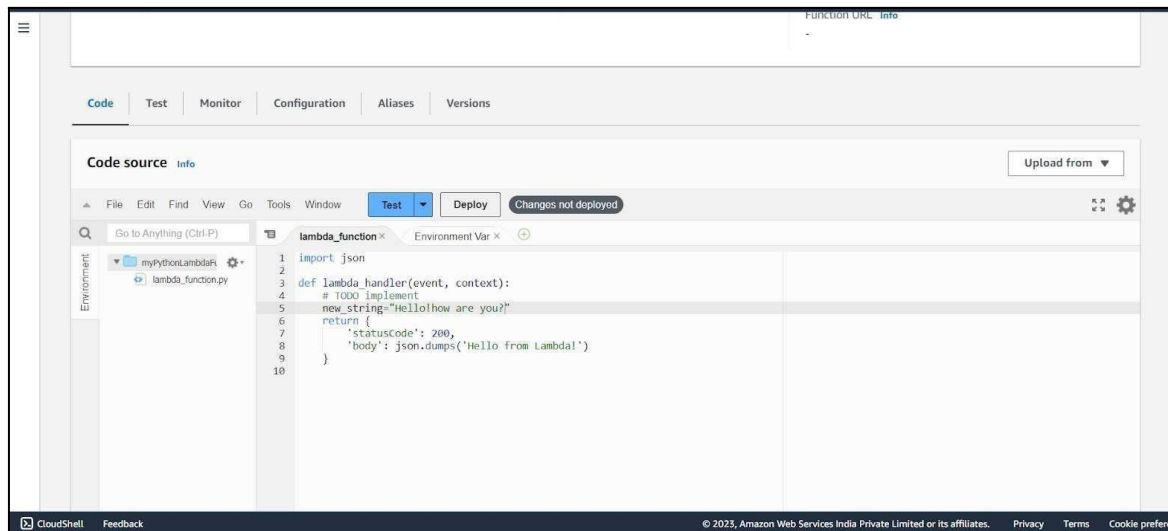
3. This process will take a while to finish and after that, you'll get a message that your function was successfully created.



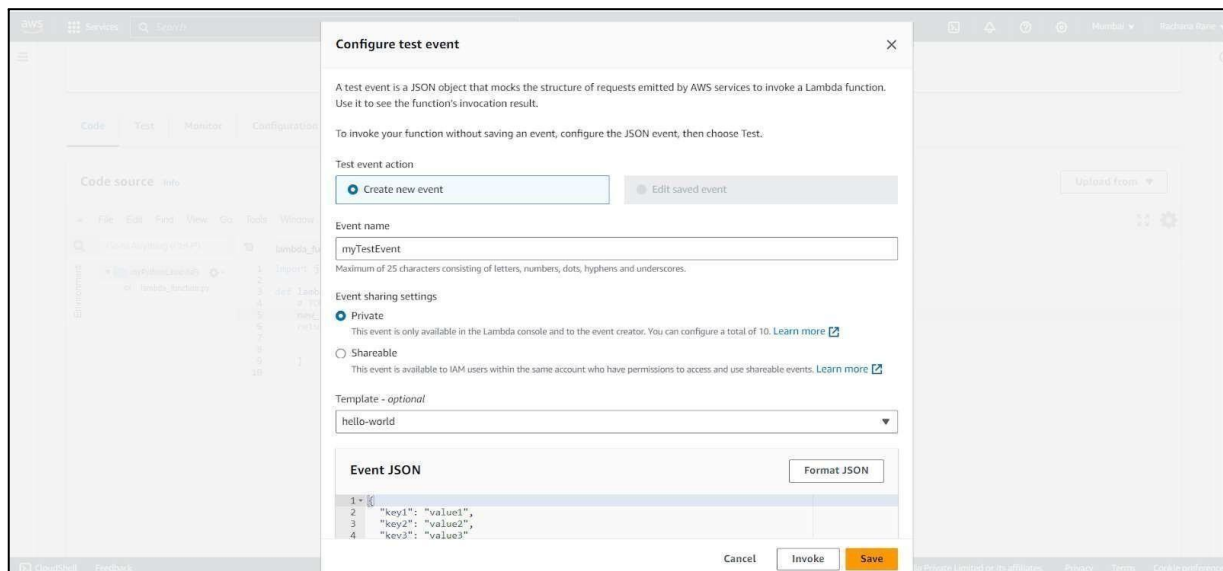
4. To change the configuration, open up the Configuration tab and under General Configuration, choose Edit. Here, you can enter a description and change Memory and Timeout. I've changed the Timeout period to 1 sec since that is sufficient for now.



5. You can make changes to your function inside the code editor. You can also upload a zip file of your function or upload one from an S3 bucket if needed. Press Ctrl + S to save the file and click Deploy to deploy the changes.



6. Click on Test and you can change the configuration, like so. If you do not have anything in the request body, it is important to specify two curly braces as valid JSON, so make sure they are there.



7. Now click on Test and you should be able to see the results.

The test event myTestEvent was successfully saved.

File Edit Find View Go Tools Window Test Deploy Changes not deployed

Go to Anything (Ctrl-P)

Environment

myPythonLambda

lambda_function.py

Execution results

Test Event Name

myTestEvent

Response

```
{
  "statusCode": 200,
  "body": "\Hello from Lambda!"
}
```

Function Logs

START RequestId: 7d26f404-f1da-4435-9faf-8dbb2a2733cc Version: \$LATEST

END RequestId: 7d26f404-f1da-4435-9faf-8dbb2a2733cc

REPORT RequestId: 7d26f404-f1da-4435-9faf-8dbb2a2733cc Duration: 1.66 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 48 MB Init Duration: 118.05 ms

Request ID

7d26f404-f1da-4435-9faf-8dbb2a2733cc

Code properties Info

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Code source Info

Upload from

File Edit Find View Go Tools Window Test Deploy Changes not deployed

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