EXPERIMENT-11
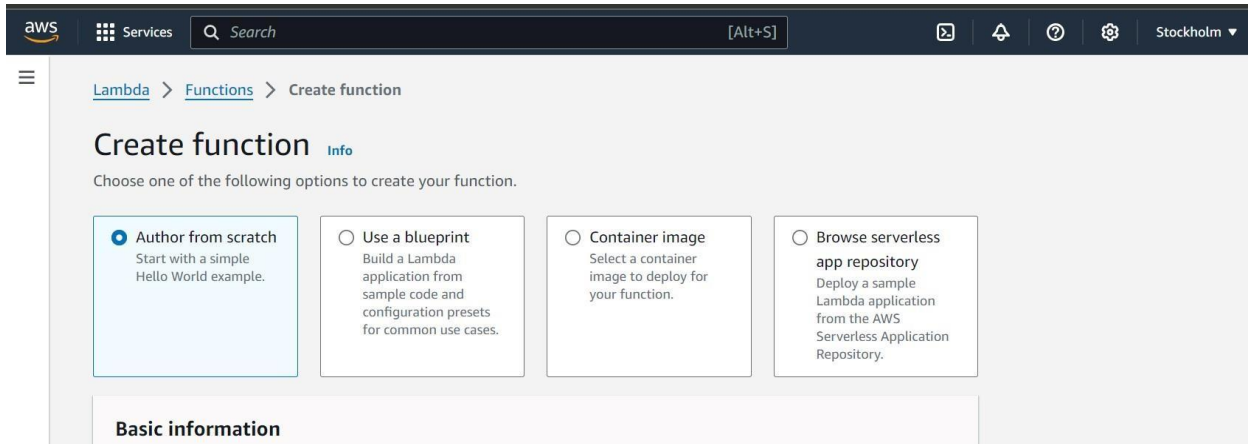
AIM:To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

STEP1:Go on your AWS console account and search for lamba and then go on create function Select the author from scratch, add function name and 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.

STEP 2:After the function is created successfully go on code write the default code and then configure them.
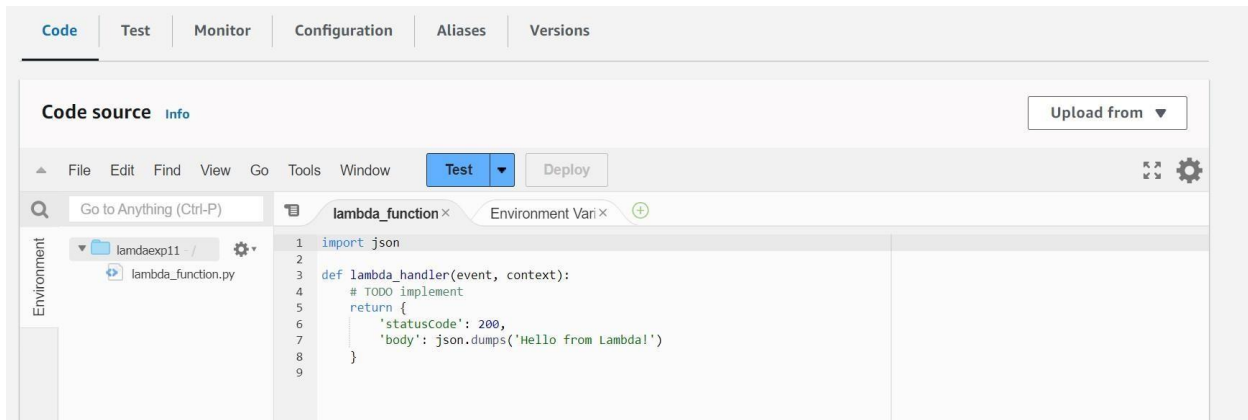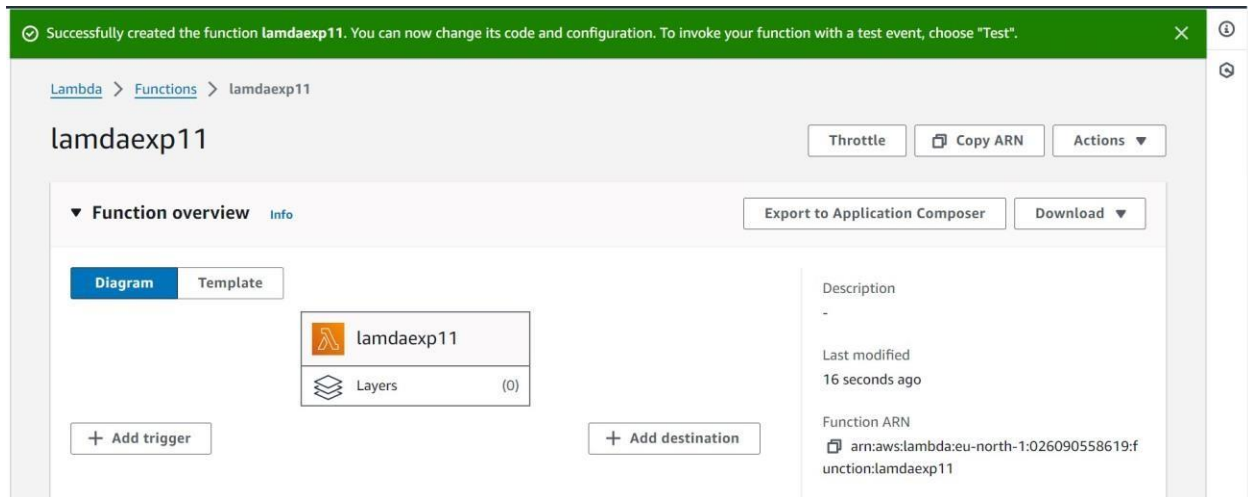
STEP 3: Then go on edit basic settings and add the description and then save it .
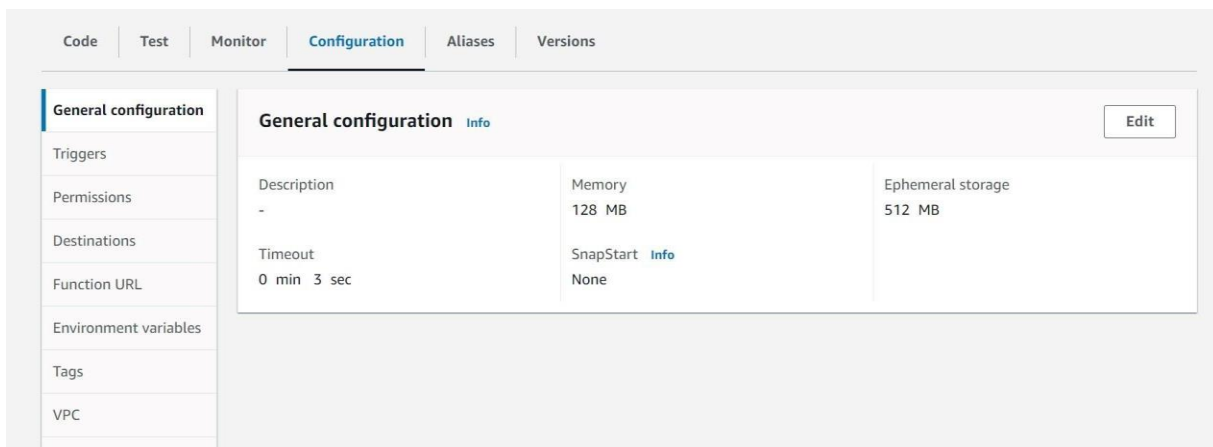
Lambda > Functions > lamdaexp11 > Edit basic settings

Edit basic settings

Basic settings Info

Description - *optional*

D15C

Memory Info
Your function is allocated CPU proportional to the memory configured.

128   MB

Set memory to between 128 MB and 10240 MB

Ephemeral storage Info
You can configure up to 10 GB of ephemeral storage (/tmp) for your function. View pricing ↗

512   MB

Set ephemeral storage (/tmp) to between 512 MB and 10240 MB.

SnapStart Info
Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the SnapStart compatibility considerations ↗.

STEP 4:Click on "use an existing role "option and then ahead add the role and save it.

SnapStart Info
Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the SnapStart compatibility considerations ↗.

None   ▼

Supported runtimes: Java 11, Java 17, Java 21.

Timeout

0   min   1   sec

Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console ↗.

● Use an existing role
○ Create a new role from AWS policy templates

Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/lamdaexp11-role-vj5j9g95   ▼   ⟳

View the lamdaexp11-role-vj5j9g95 role ↗ on the IAM console.

Cancel   **Save**

STEP 5:Go on configure test event click on "create new event" edit the event sharing accordingly and select hello world template for template option and then save it.

STEP 6: Click on the test and test the code.
STEP 7: The function is successfully added .
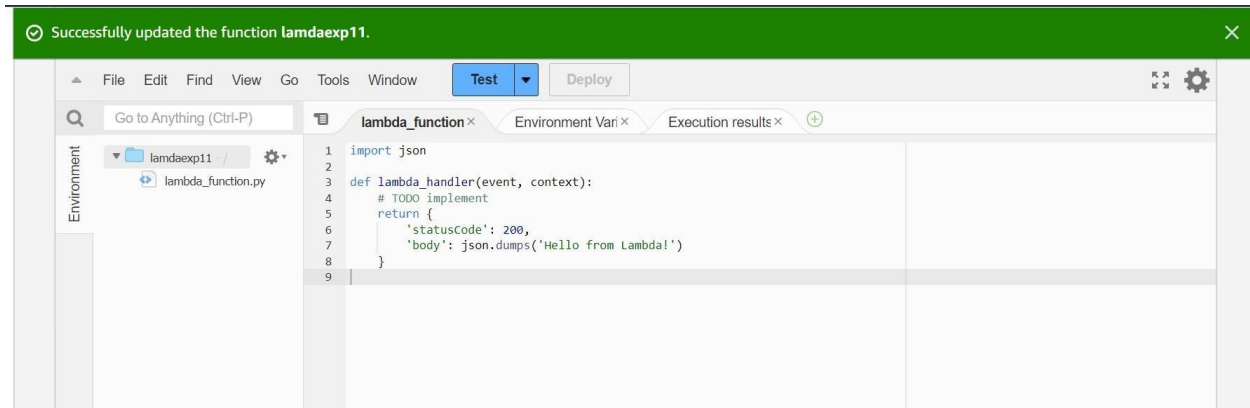
Conclusion:

In conclusion, this experiment successfully involved creating, coding, and deploying an AWS Lambda function. By developing and refining the source code, we demonstrated the ability to implement specific functionalities within the Lambda environment. The successful testing of the function validated its operational integrity and effectiveness in performing the intended tasks.