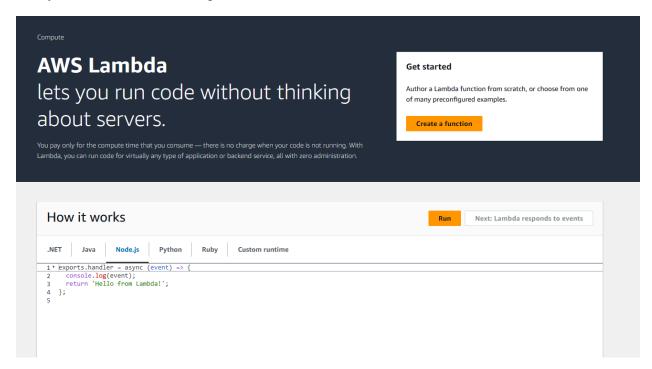
Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

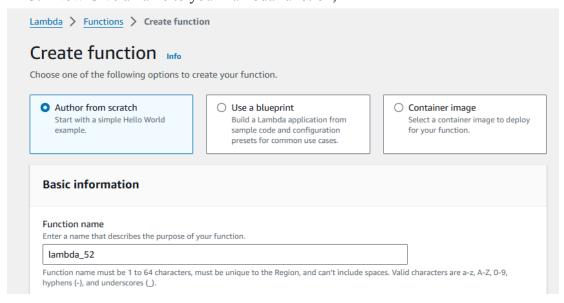
Steps:

- 1. Go to AWS ACADEMY.
- 2. Create the lambda function:

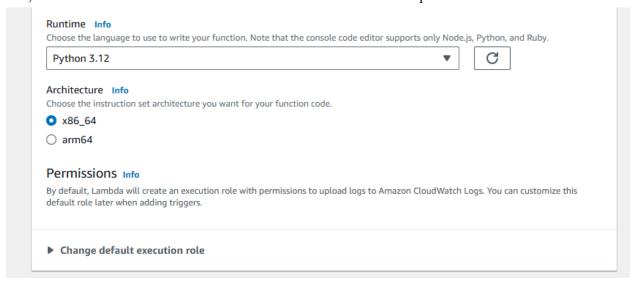
Firstly, Search lambda, then Open lambda and then click on create function button.



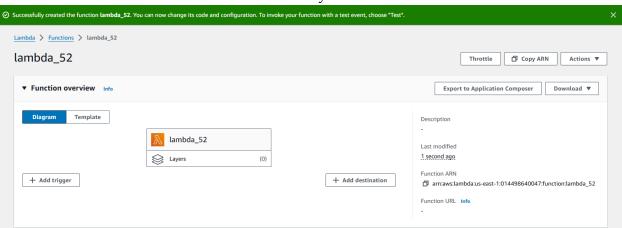
3. Now Give a name to your Lambda function,



4. Select the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby. So will select Python 3.12, Architecture as x86, and Exceution role to Create a new role with basic Lambda permissions.



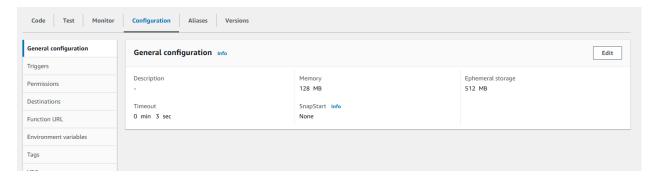
Thus the Lambda function was created successfully.



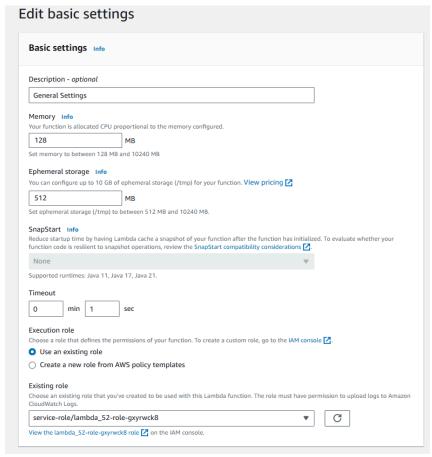
5. Code Source Section



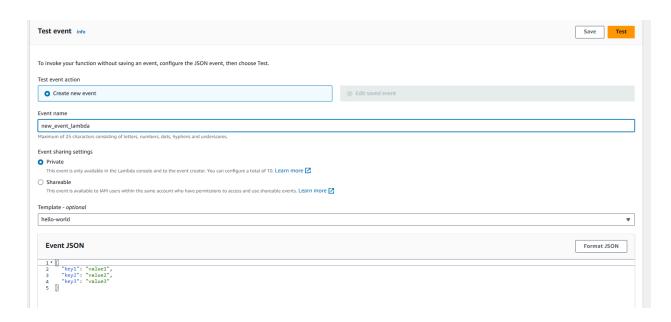
So now to edit the basic settings, go to configuration then click on edit.



Now enter a description and change Memory and Timeout.Here, I've changed the Timeout period to 1 sec.



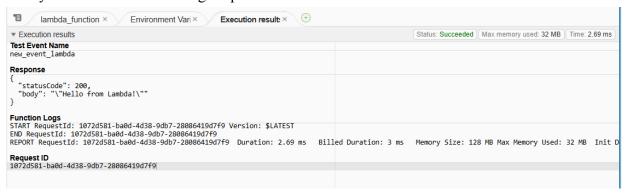
6. Now Click on the Test tab then select Create a new event, give a name to the event here i have given name as "new_event_lambda" and then select event sharing to private, and select hello-world template.



7. **Testing & Deployment:** Now In Code section select the created event (our_event) from the dropdown of test ,then click on test .



8. Now you will see the following output.

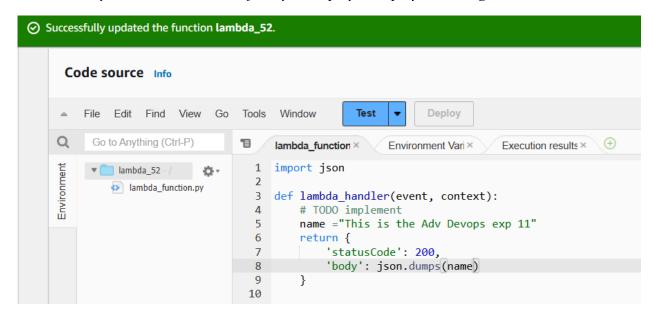


9. Editing the given code into our own by adding a string or you can add anything You can edit your lambda function code. Here I have created a new string name "new string" and

assigned a string to it.

```
Execution results × +
    lambda_function ×
                        Environment Vari ×
    /lambda_function.py
 3 def lambda_handler(event, context):
        # TODO implement
 4
 5
        name ="This is the Adv Devops exp 11"
        return {
 6
 7
             'statusCode': 200,
             'body': json.dumps(name)
 8
 9
10
```

Now save it by ctrl+s and then click finally on deploy to deploy the changes.



10. **Testing and redeploying changes** Now click on the test and observe the output. Thus Output gives status code 200. This deployment is done successfully.



Conclusion:

In this experiment, we successfully created an AWS Lambda function using Python as the chosen language. After configuring the basic settings, we adjusted the timeout to 1 second, tested the function, and deployed it. The deployment was successful. We then modified the Lambda function's code and redeployed it to observe real-time changes. This process highlighted the ease of using AWS Lambda for building serverless applications. However, one issue we encountered was that, while we initially added the code source in Python, we could have chosen other supported languages as well.