## **Problem Statement: -**

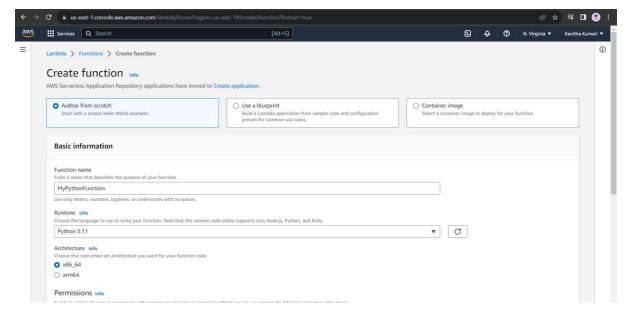
You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

## Tasks To Be Performed:

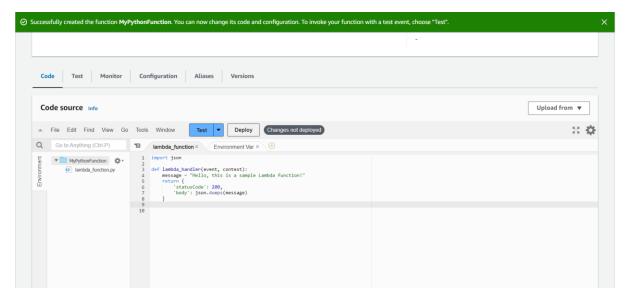
- 1. Create a sample Python Lambda function.
- 2. Set the Lambda Trigger as SQS and send a message to test invocations

## Procedure: -

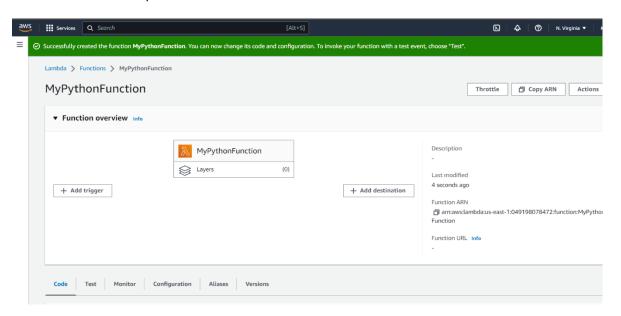
- Let us first create the Lambda function. Go to the AWS Management Console. Open the Lambda service.
- Click on "Create function."
- Choose "Author from scratch."
- Enter a name for your function, like "MyPythonFunction."
- For Runtime, select "Python" and choose the latest supported version.
- Under "Permissions," you can either choose an existing role with Lambda execution
  permissions or create a new role with basic Lambda permissions and also the basic
  permission of cloudWatch and SQS.
- Click on "Create function."



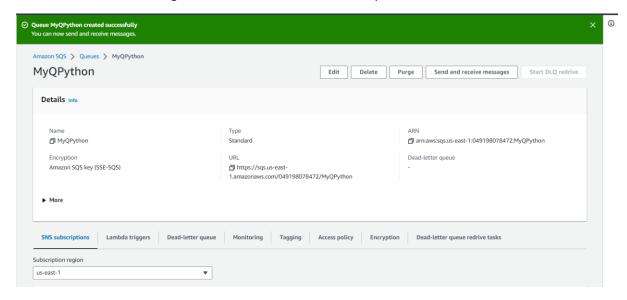
• In the code editor, you can write a simple Python function, such as:



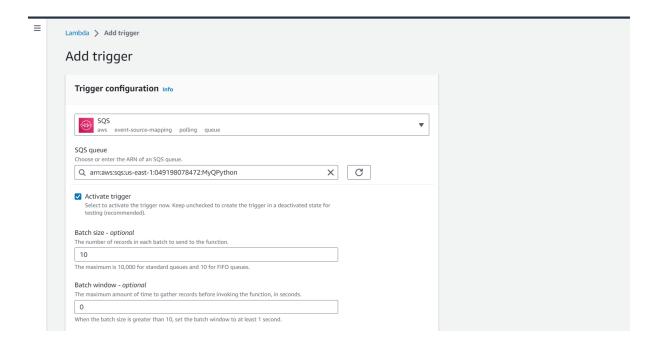
- Click on "deploy."
- Now we need to Set up the Lambda Trigger as SQS.
- For this let us create an SQS service.
- Click on "create queue."

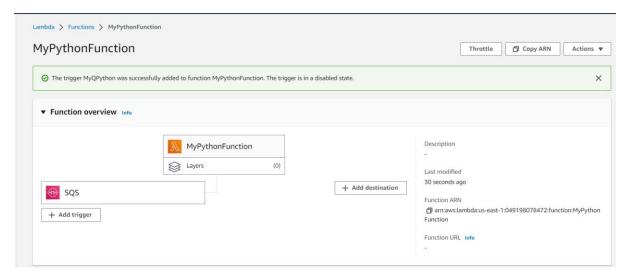


- Enter a name for your queue, like "MyQPython."
- Leave other settings as default and click on "Create queue."

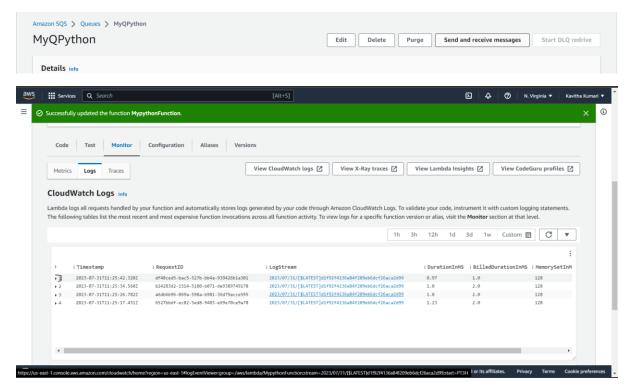


- Next, we need to set up the SQS trigger for our Lambda function:
- Go back to the Lambda service.
- Open your Lambda function (MyPythonFunction) that you created earlier.
- In the function configuration page, click on "Add trigger."
- Choose "SQS" as the trigger type.
- From the "Queue" dropdown, select the SQS queue you created earlier (MyQPython).
- Leave other settings as default, and click on "Add."

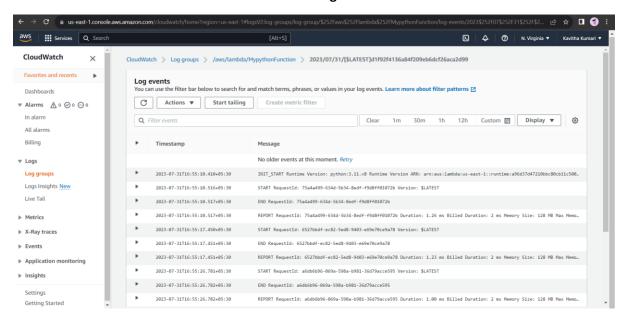




- Now, when a message is sent to the SQS queue (MyQPython), it will trigger the Lambda function (MyPythonFunction) and invoke it.
- Go to the AWS Management Console.
- Open the Amazon SQS service.
- Select your SQS queue (MyQpython) from the list.
- Click on "Send and receive messages" and then "Send a message."
- In the message body, you can enter any test message (e.g., "Test message for Lambda").
- Click on "Send message."
- After a moment, the Lambda function will be triggered and will process the message. You can check the function's logs in the AWS Lambda console to see the output.
- That is, it! You have successfully created a sample Python Lambda function and set up an SQS trigger to invoke it when messages are sent to the SQS queue.



You can also click on view CloudWatch logs to view the detailed information.



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