Experiment No.9

Aim: Using AWS Lambda with Amazon CloudWatch and SNS to Implement a Slack Chat Bot

Learning objective: To make students well versed in AWS Lambda with Amazon CloudWatch and SNS to Implement a Slack Chat Bot

System requirements: AWS Account

Theory:

- Create a Lambda function using the **lambda-canary** blueprint. You configure the Lambda function to run every minute. Note that if the function returns an error, Lambda logs error metrics to Amazon CloudWatch.

- Configure a CloudWatch alarm on the Errors metric of your Lambda function to post a message to your Amazon SNS topic when AWS Lambda emits error metrics to CloudWatch. You subscribe to the Amazon SNS topics to get email notification. In this tutorial, you do the following to set this up:
  - Create an Amazon SNS topic.
  - Subscribe to the topic so you can get email notifications when a new message is posted to the topic.
  - In Amazon CloudWatch, set an alarm on the Errors metric of your Lambda function to publish a message to your SNS topic when errors occur.

Create a Lambda function

1. Sign in to the AWS Management Console and open the AWS Lambda console at https://console.aws.amazon.com/lambda/.
2. Choose **Create function**.
3. Choose **Use a blueprint**.
4. Enter **canary** in the search bar. Choose the **lambda-canary** blueprint, and then choose **Configure**.
5. Configure the following settings.
   - **Name** – **lambda-canary**.
   - **Role** – **Create a new role from AWS policy templates**.
   - **Role name** – **lambda-apigateway-role**.
   - **Policy templates** – **Simple microservice permissions**.
   - **Rule** – **Create a new rule**.

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