Lesson 08 Demo 01

Creating Lambda Function and CloudWatch

Objective: To create an AWS Lambda function, deploy code to it, test the function, and view its CloudWatch logs

Tools: AWS Lambda, AWS S3, and AWS CloudWatch

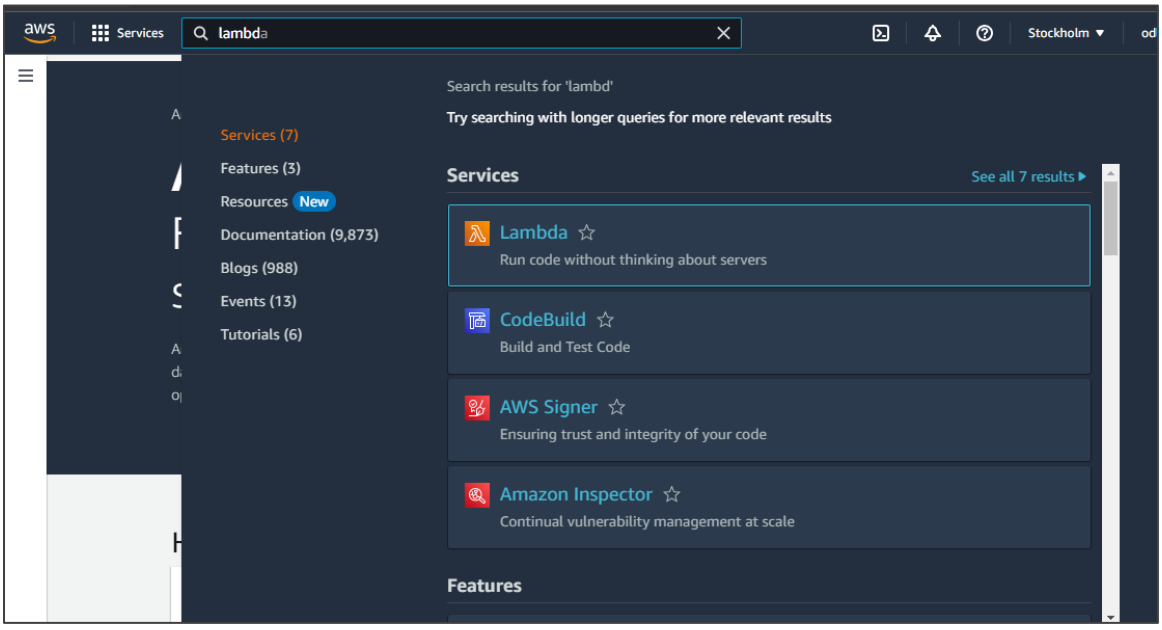
Prerequisites: An AWS account with access to its lab

Steps to be followed:

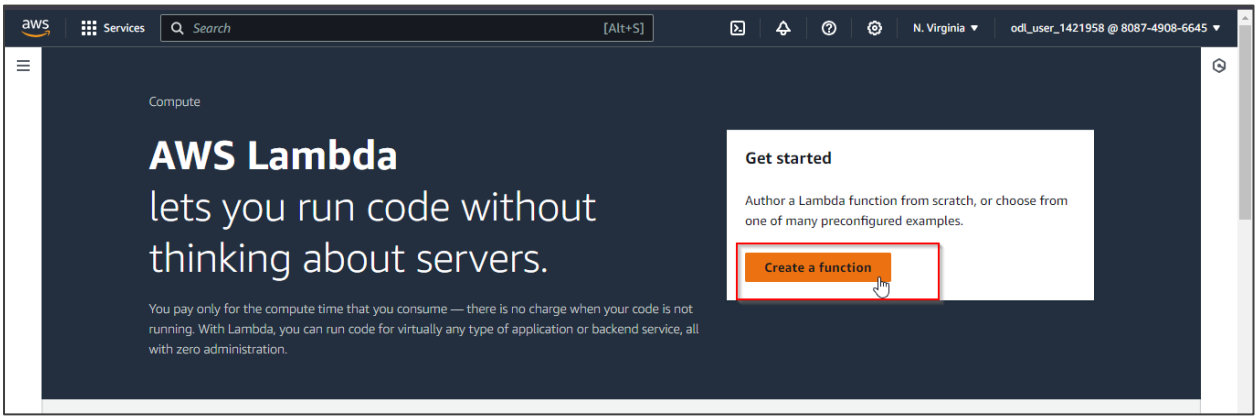
1. Create a Lambda service
2. Deploy code to Lambda function
3. Test the Lambda function
4. View CloudWatch logs

Step 1: Create a Lambda service

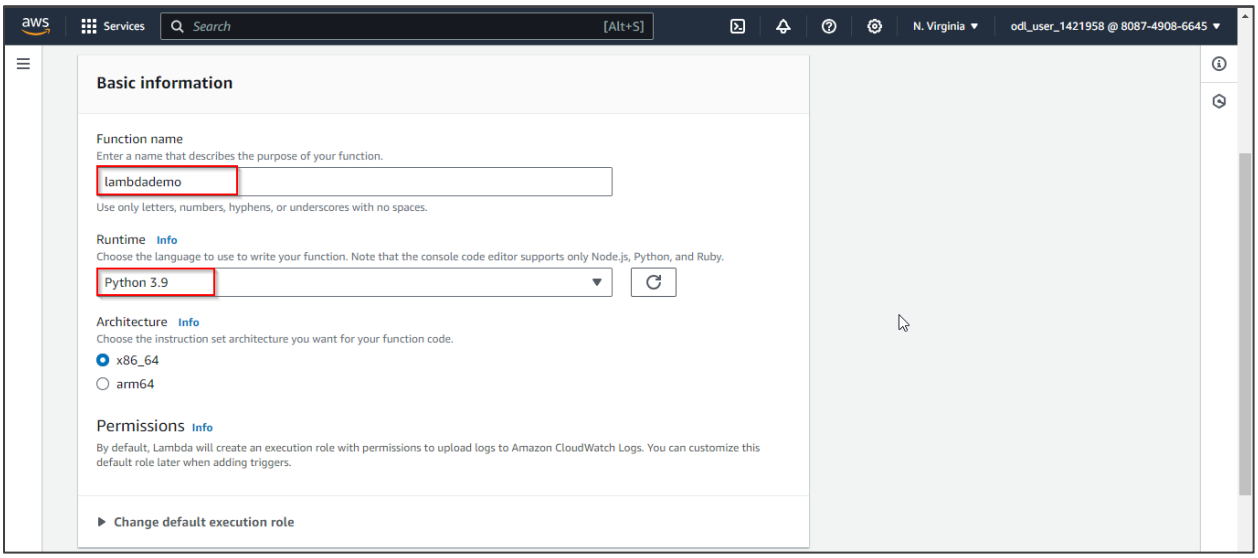
1.1 On the AWS Management Console, search for and click **Lambda**



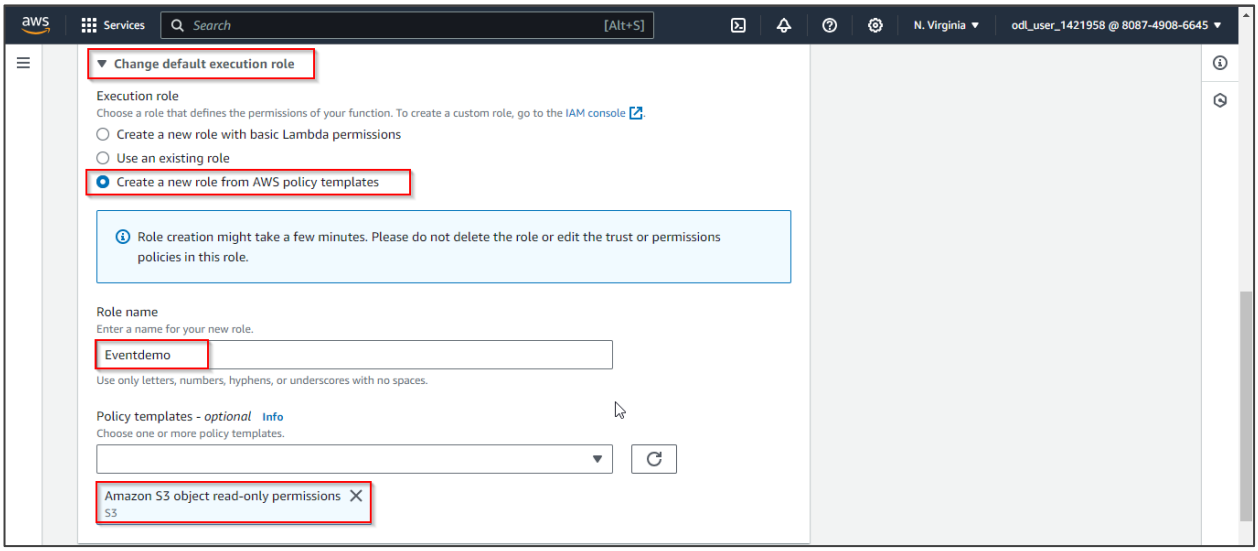
1.2 Click on the **Create a function**



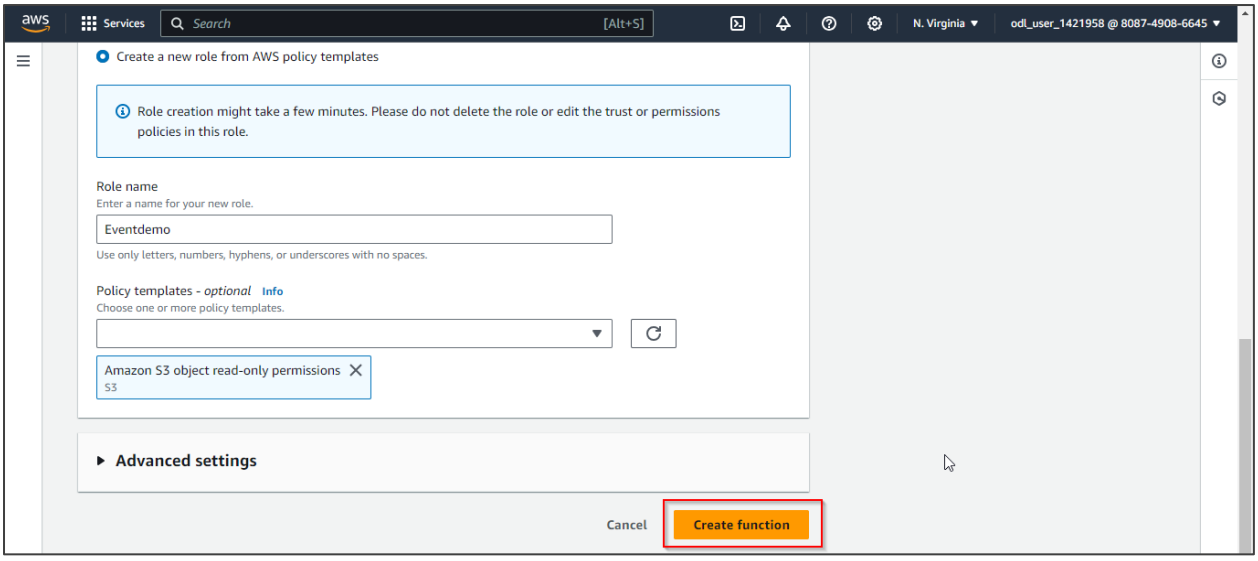
1.3 Enter the **Function name** as **lambdademo** and choose the **Runtime** as **Python 3.9**

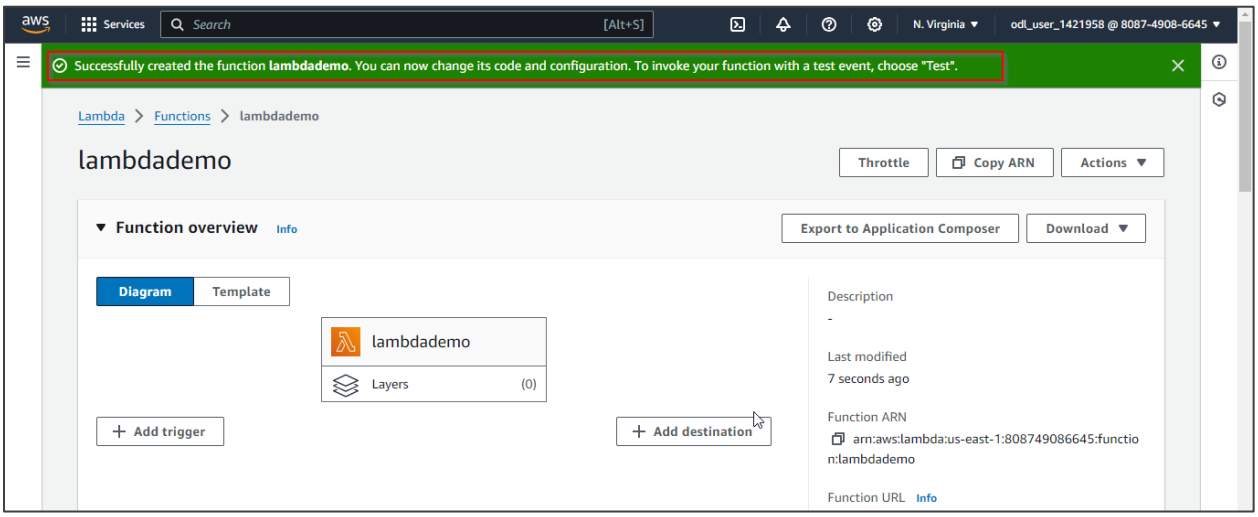


1.4 Click on **Change default execution role**, select **Create a new role from AWS policy templates**, enter the Role name as **Eventdemo**, and choose the **Amazon S3 object** as the Policy templates.



1.5 Click on the **Create function**

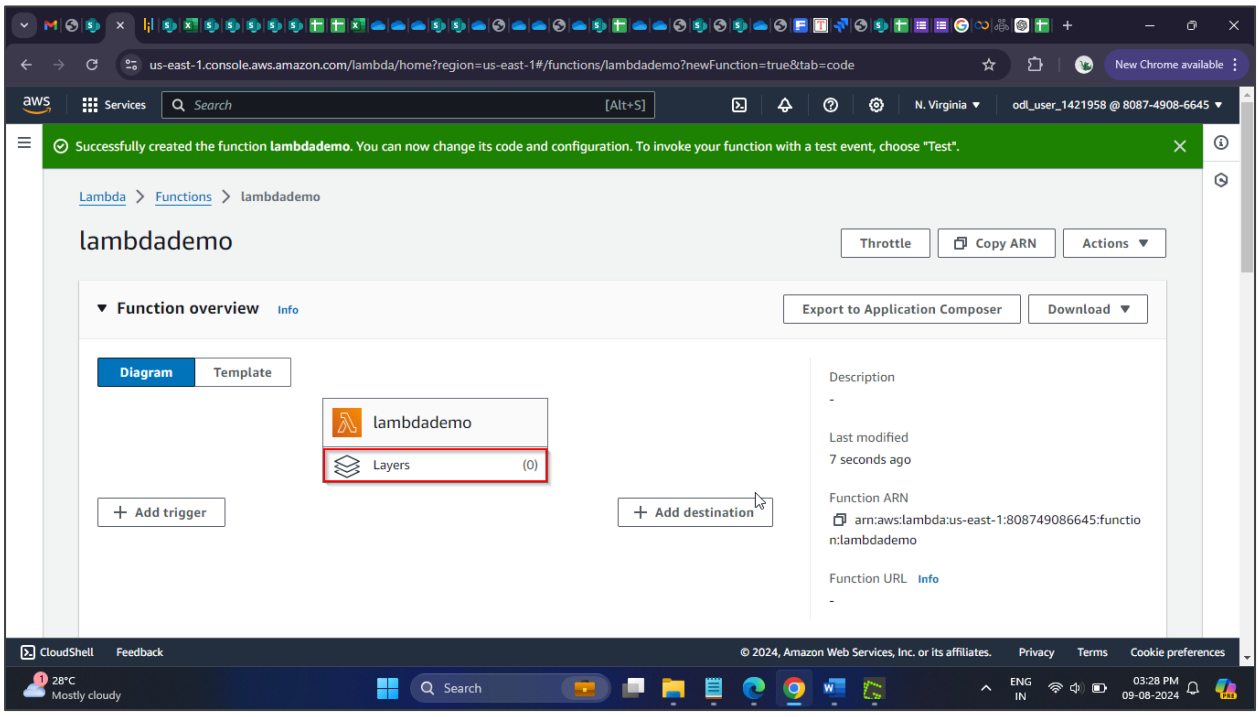




The Lambda function has been successfully created.

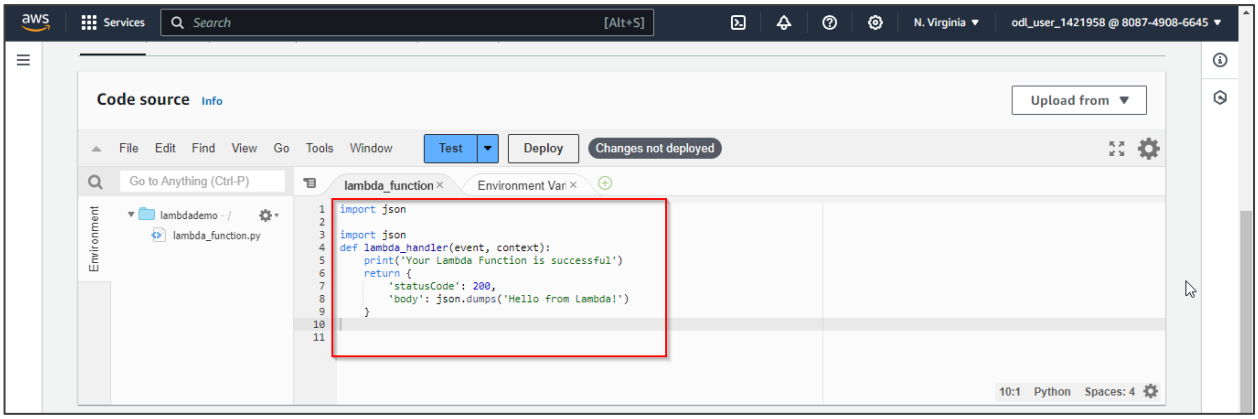
Step 2: Deploy code to Lambda Function

2.1 Click on the **Layers**

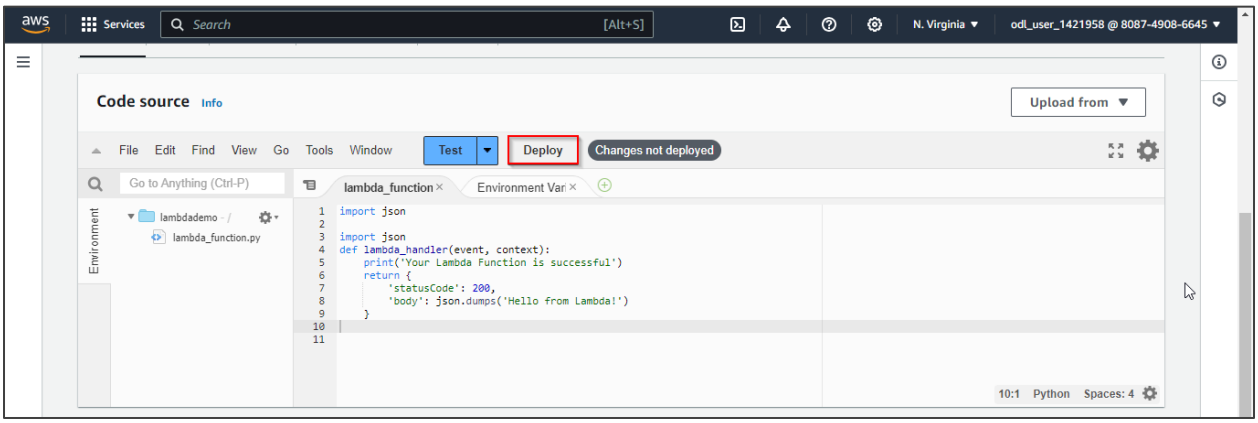


2.2 Enter the following code into the **lambda_function** editor:

```
import json
def lambda_handler(event, context):
    print('Your Lambda Function is successful')
    return {
        'statusCode': 200,
        'body': json.dumps('Hello from Lambda!')
    }
```



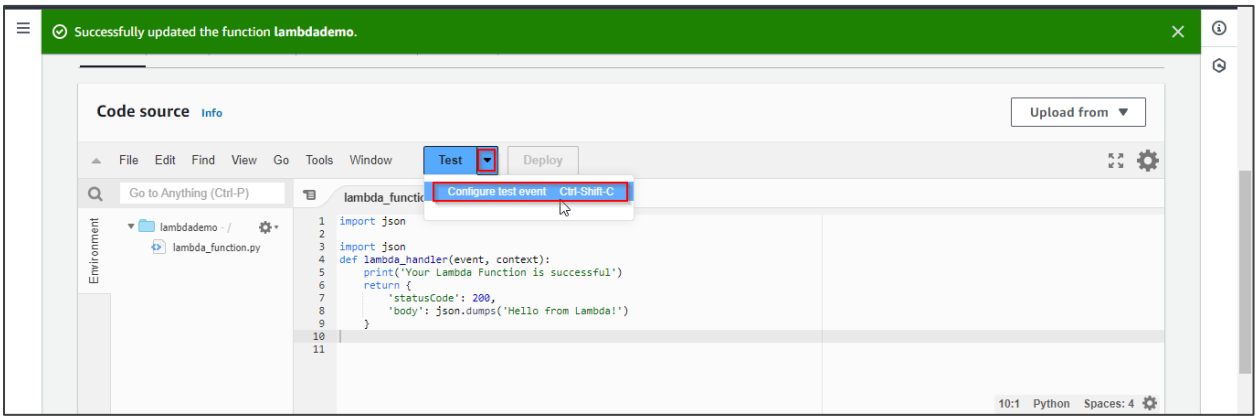
2.3 Click on the **Deploy** option



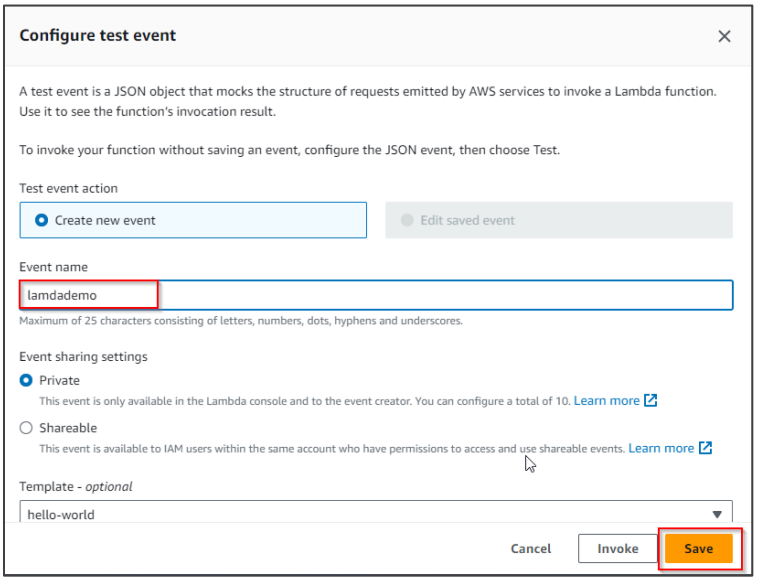
The Lambda function has been successfully updated.

Step 3: Test the Lambda Function

3.1 Click on the **Test** option and select **Configure test event**

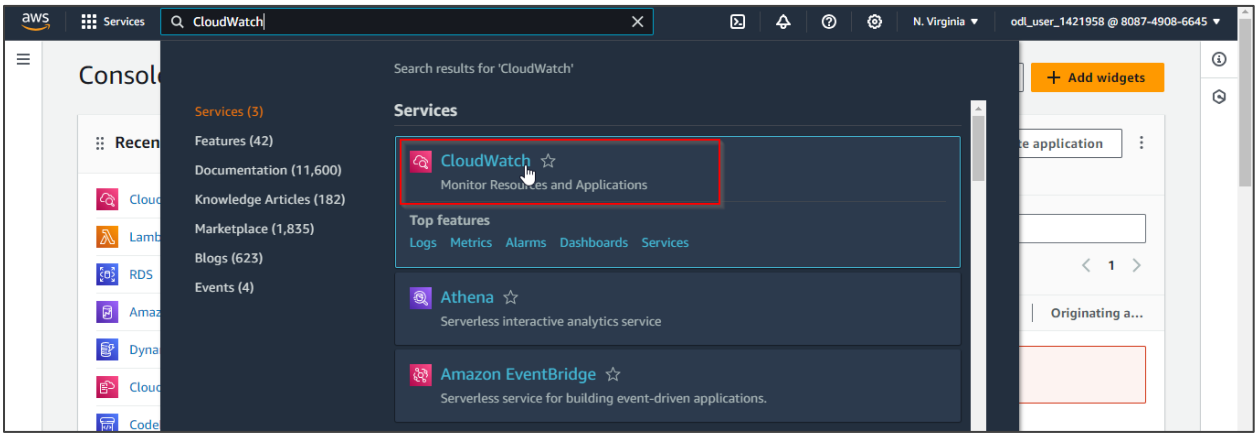


3.2 Enter the **Event name** as **lamdademo** and click on the **Save** button

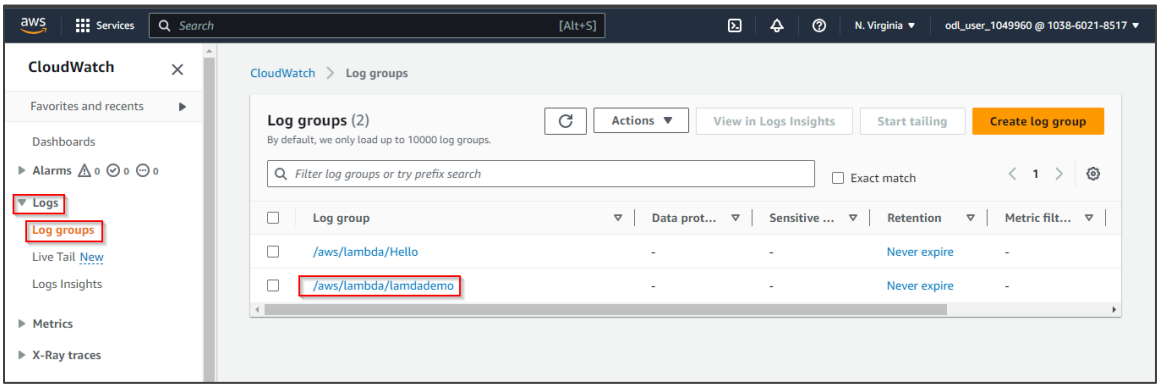


Step 4: View CloudWatch logs

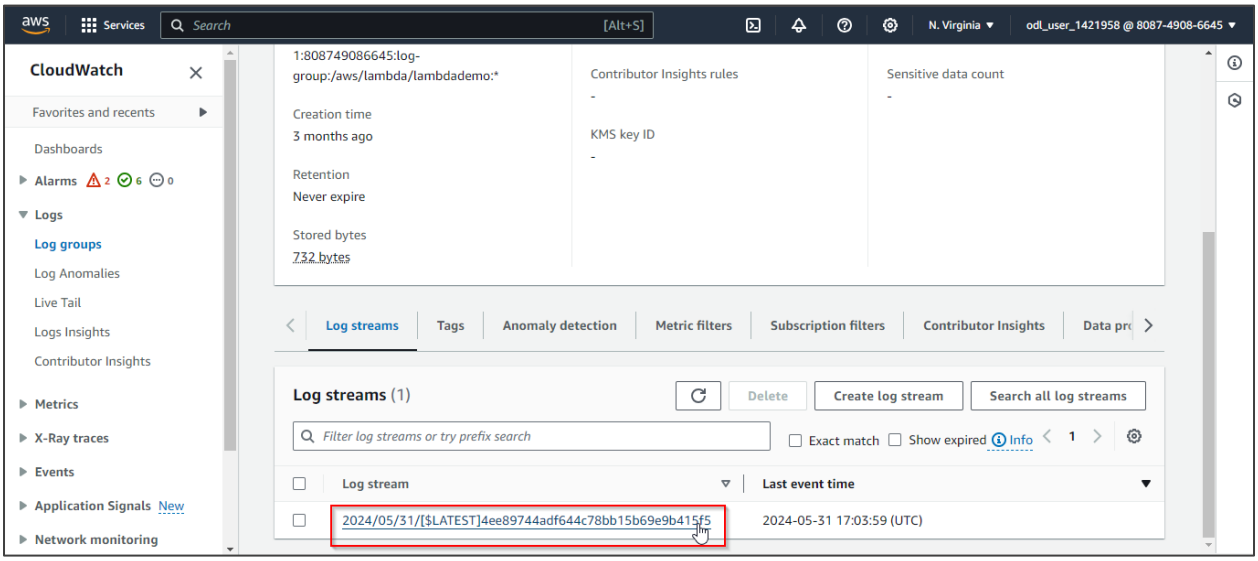
4.1 On the AWS Management Console, search and select **CloudWatch**

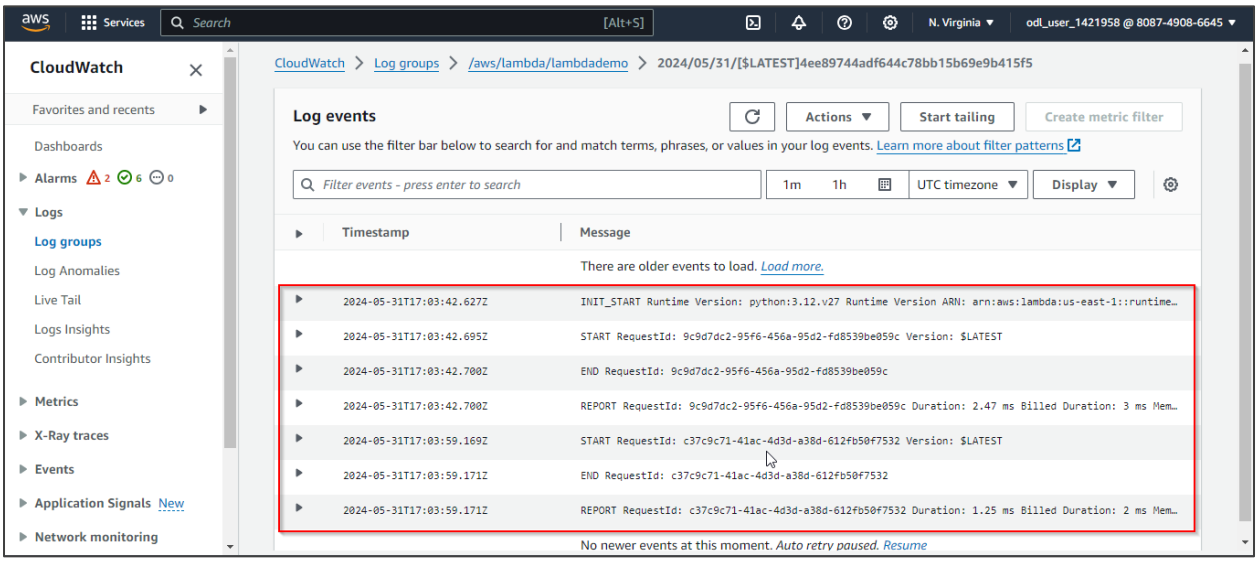


4.2 Click on **Log groups** under **Logs** and click on the **/aws/lambda/lamdademo** option



4.3 Click on any **Log streams** to view detailed CloudWatch logs for the Lambda function





The above-mentioned are the CloudWatch logs.

By following these steps, you have successfully created an end-to-end process for working with Lambda functions, from creation to deployment, testing, and log analysis.