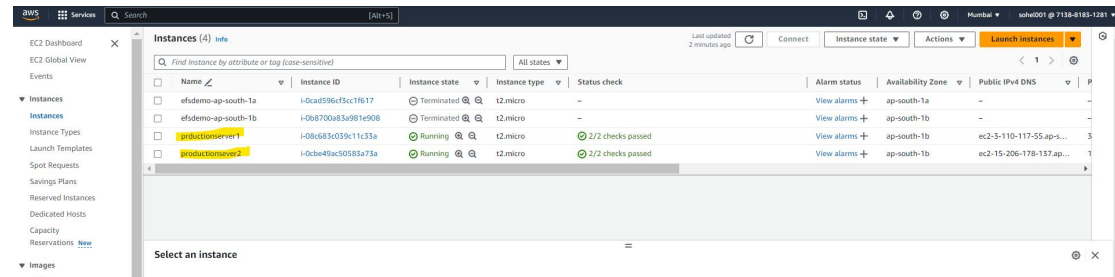


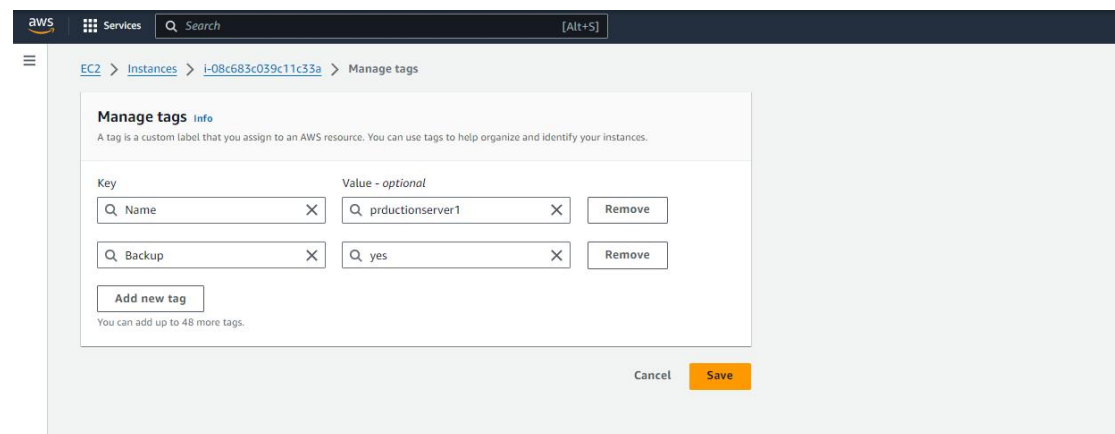
Lambda Practical 29/08/2024

Sohel Pathan

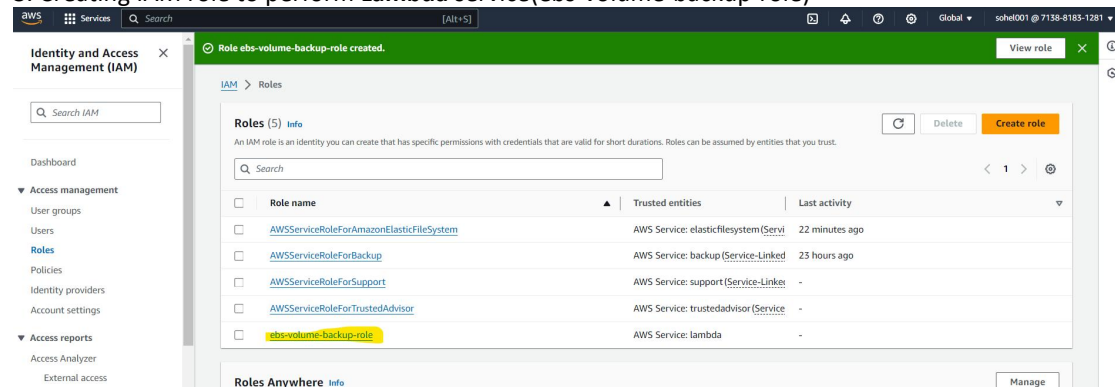
1. Create two instances name productionserver1 and productionserver2



2. Add tag on one instance (productionserver1)



3. Creating IAM role to perform Lambda service(ebs-volume-backup-role)



4. While creating Lambda function select any language add our role(ebs-volume-backup-role)

Basic information

Function name
Enter a name that describes the purpose of your function.
ebs-volume-backup-fuction

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.
Python 3.9

Architecture info
Choose the instruction set architecture you want for your function code.
x86_64

Permissions info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

Change default execution role

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

☐ Create a new role with basic Lambda permissions

☒ 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.
arn:aws:iam::123456789012:role/lambda-role

View the [ebs-volume-backup-fuction](#) role on the IAM console.

5. Fuction created successfully

Function overview info

Diagram **Template**

ebs-volume-backup-fuction

Layers (0)

Description
-

Last modified
34 seconds ago

Function ARN
[arn:aws:lambda:ap-south-1:71384185-1281:function:ebs-volume-back-up-fuction](#)

Function URL info

Code source info

Code **Test** **Monitor** **Configuration** **Aliases** **Versions**

6. Deply the code

Code source info

Code **Test** **Monitor** **Configuration** **Aliases** **Versions**

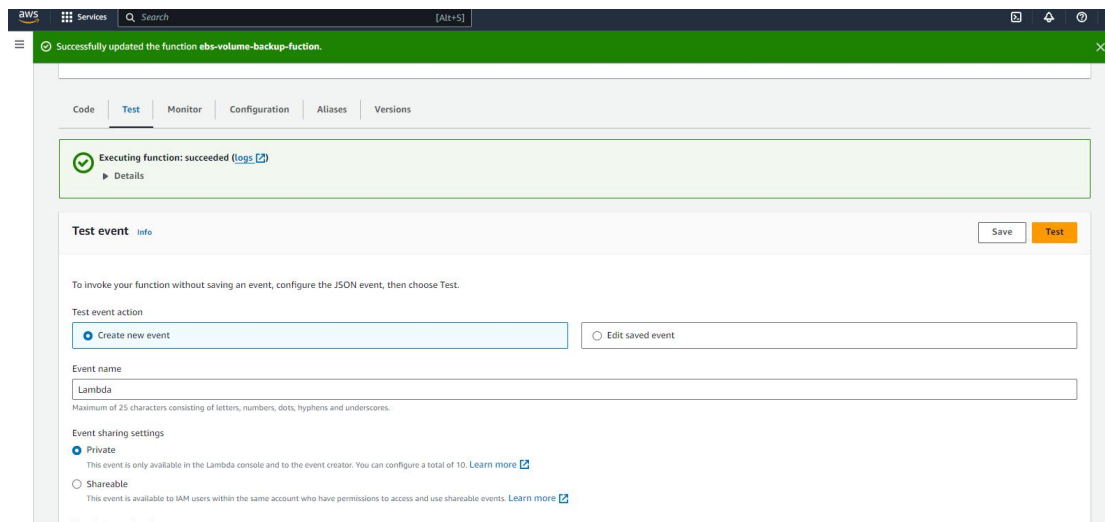
Code editor

```

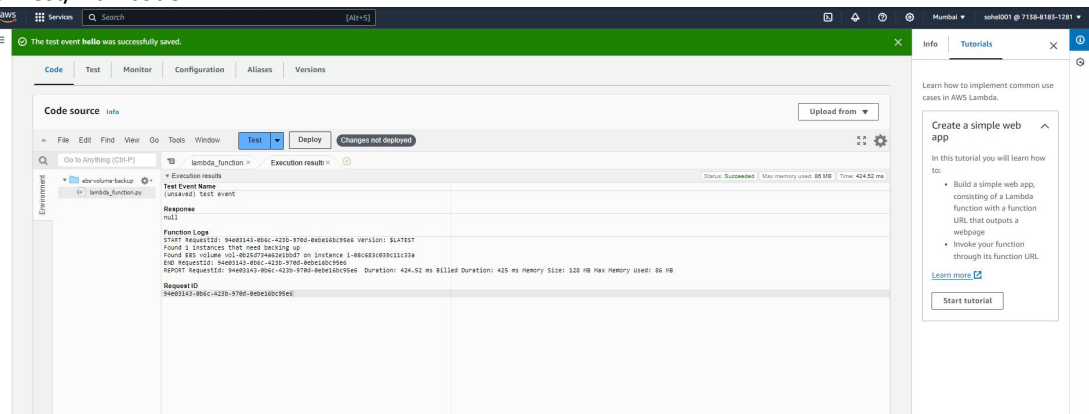
1 import boto3
2 import datetime
3
4 ec2 = boto3.client('ec2')
5
6 def lambda_handler(event, context):
7     # Get the current UTC time
8     current_time = datetime.datetime.utcnow()
9
10    reservations = ec2.describe_instances(
11        Filters=[
12            {'name': 'tag-key', 'values': ['backup', 'restore']}],
13    )
  
```

Execution results

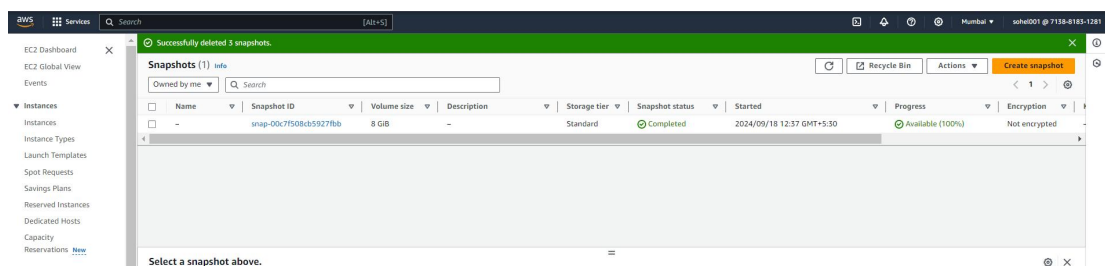
7. Configuration for test event to run code



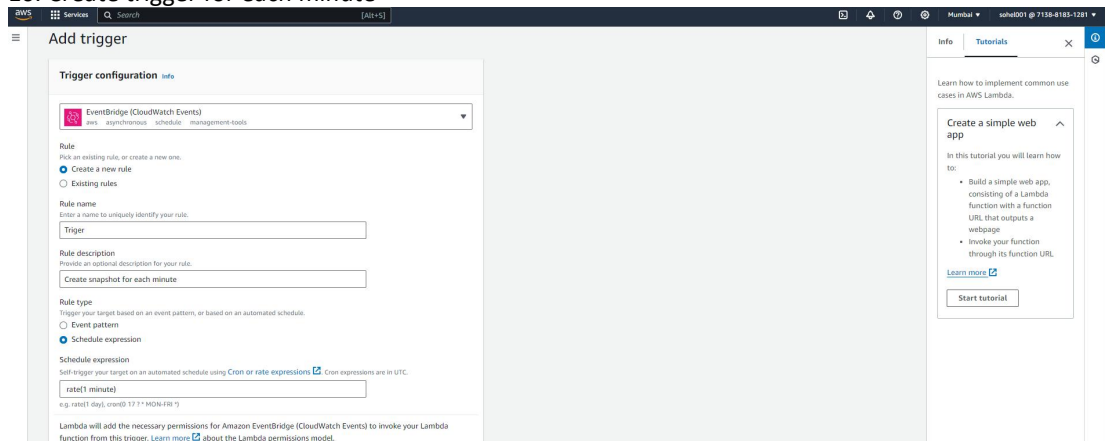
8. Test/ Run code



9. Snapshots will be created



10. Create trigger for each minute



11. Trigger is added