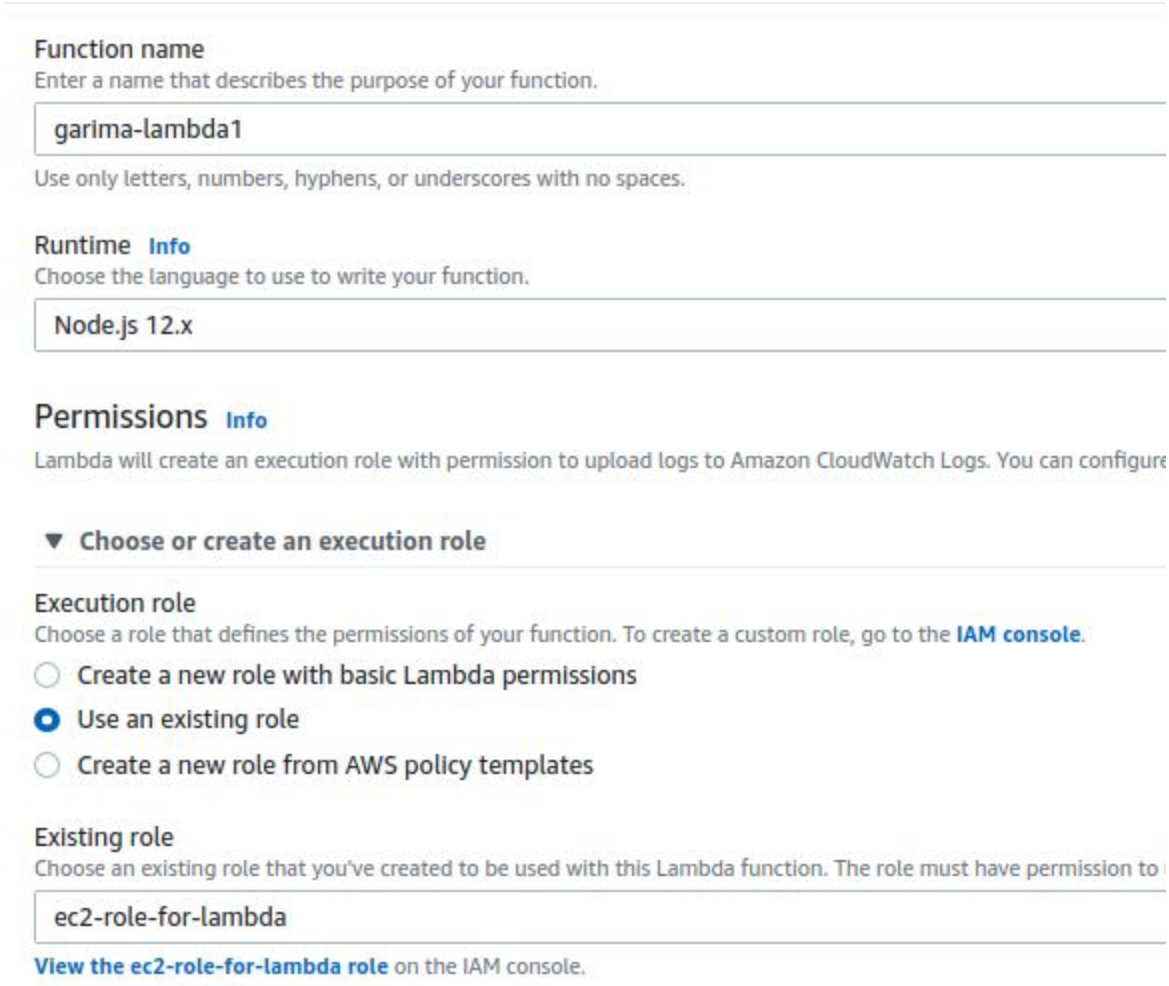
ASSESSMENT

LAMBDA

1. Create a Lambda function which get triggered from EC2 Action and Notify about changes via SNS Topic.

- Create a lambda function with an execution role having permission to aws sns.



- Add trigger

Rule

Pick an existing rule, or create a new one.

Create a new rule

Select or create a new rule

Rule name*

Enter a name to uniquely identify your rule.

ec2-state-change-rule

Rule description

Provide an optional description for your rule.

Rule type

Trigger your target based on an event pattern, or based on an automated schedule.

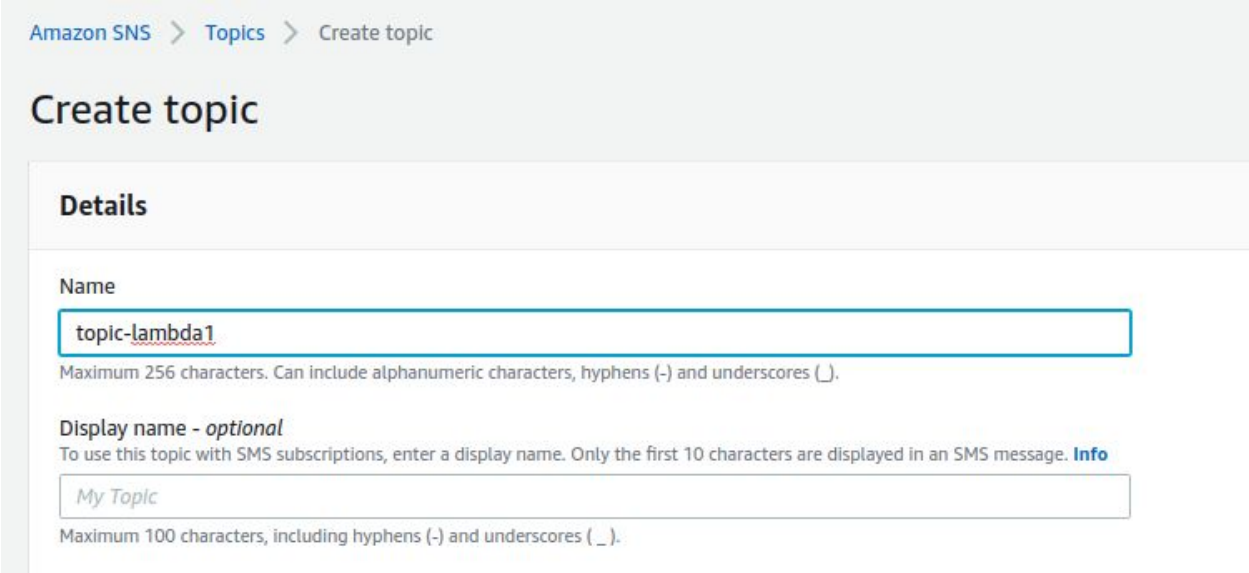
Event pattern

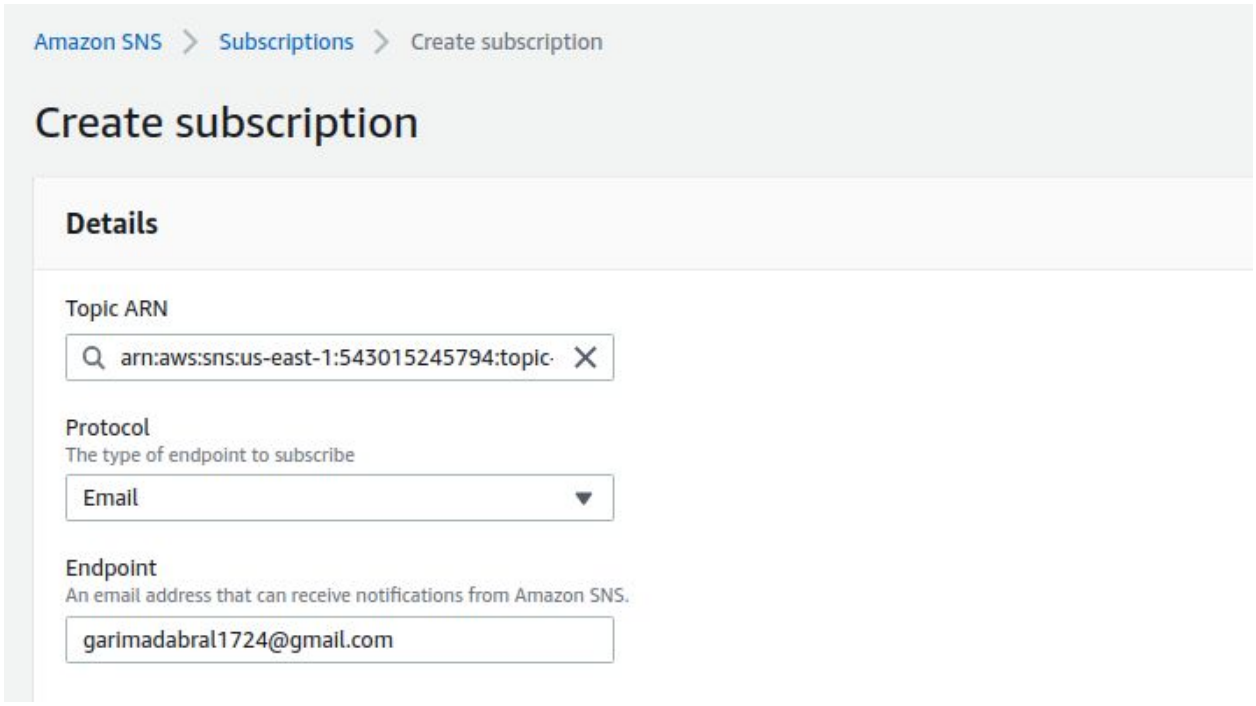
Schedule expression

EC2

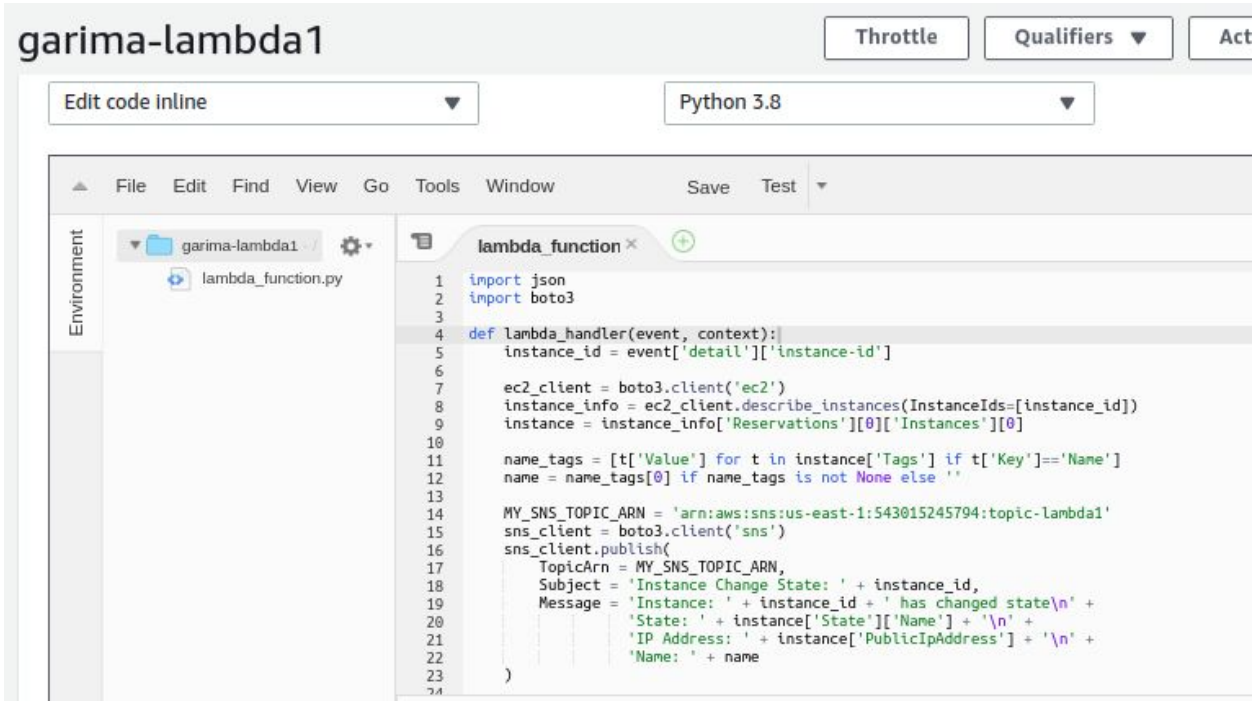
All events

- Create a sns topic

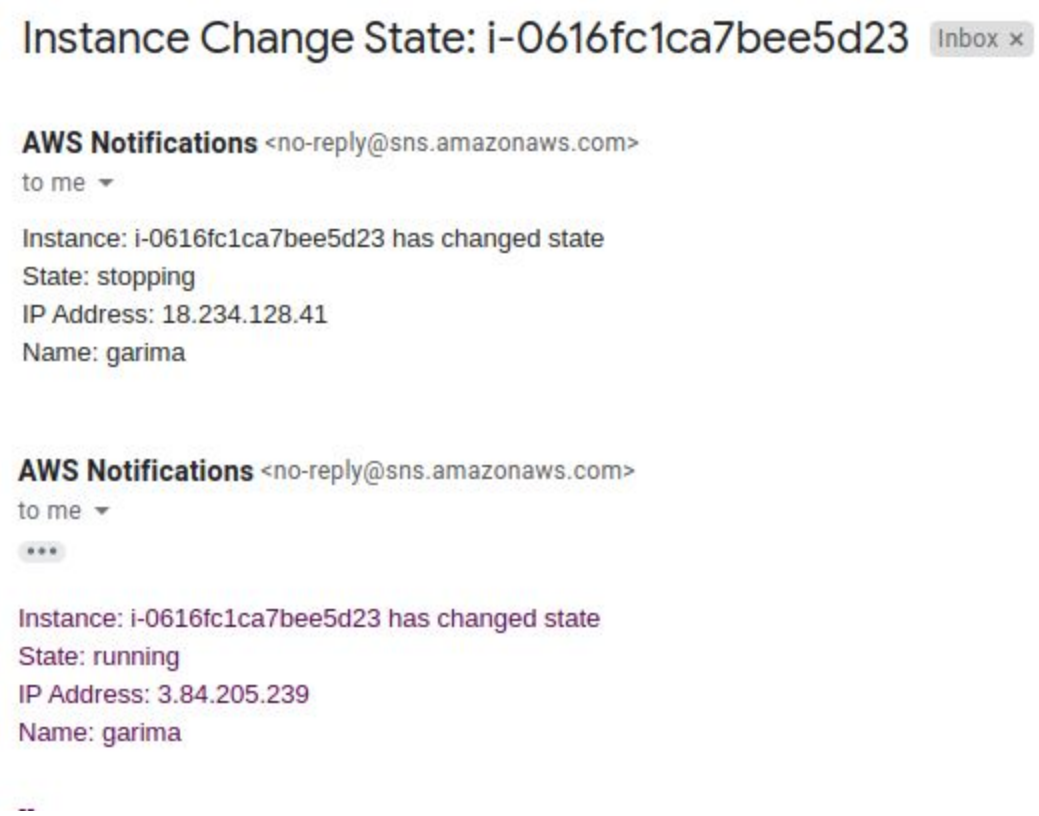




- Python code for function

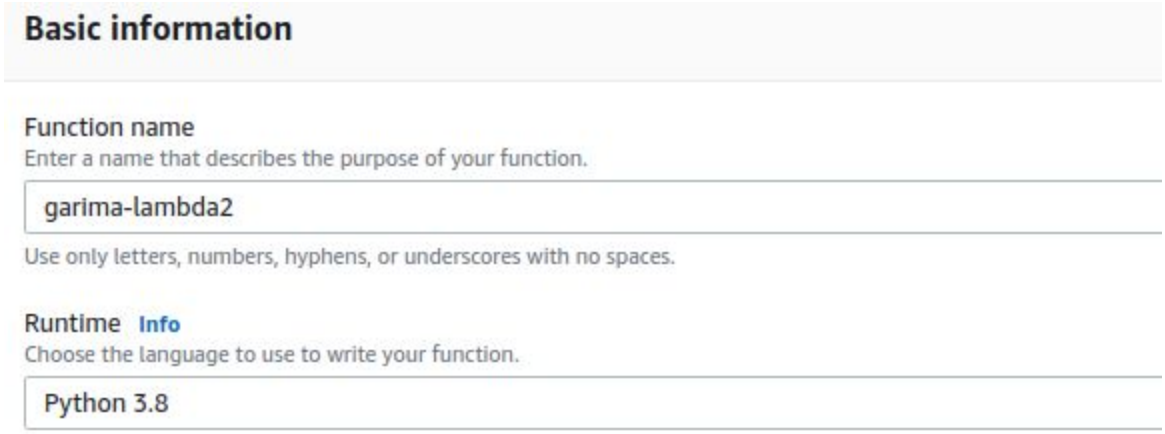


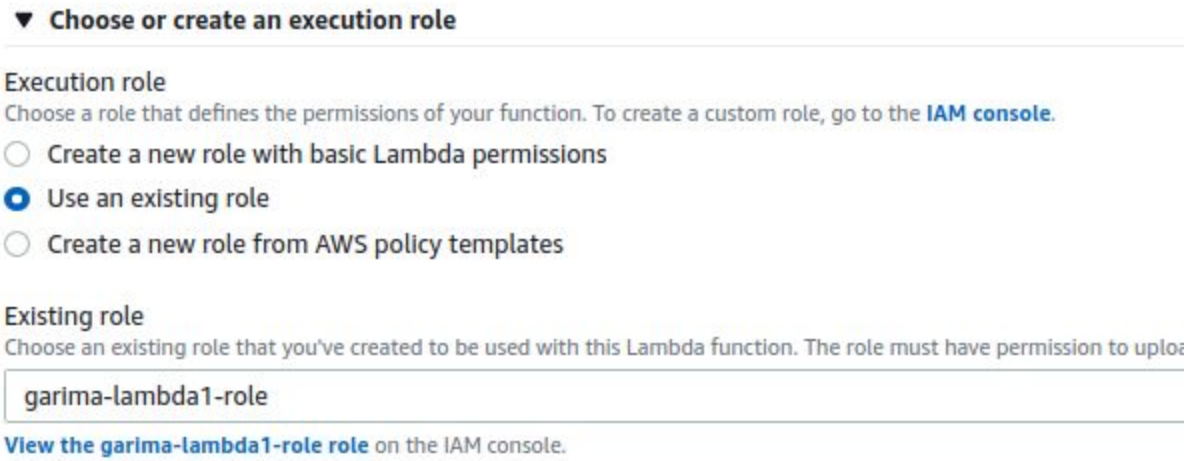
- SNS email notification received



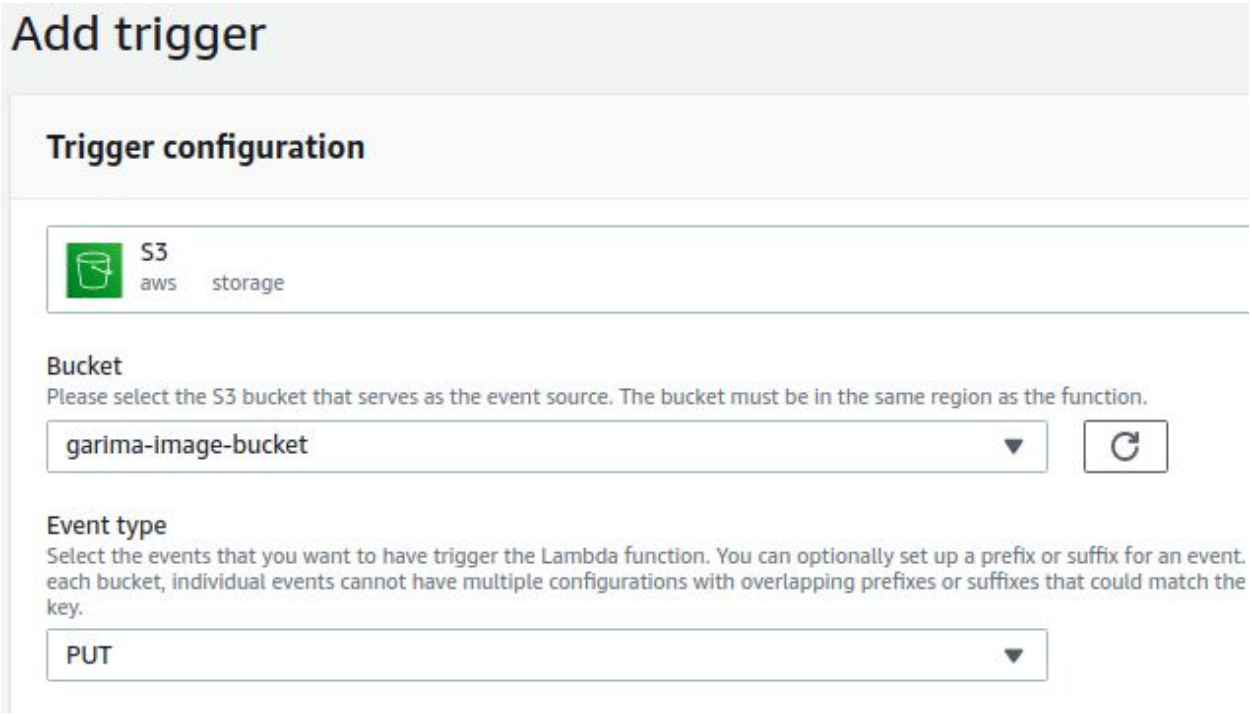
2. Create a Lambda function which gets invoked whenever a image is added to a s3 bucket and push the key to SQS.

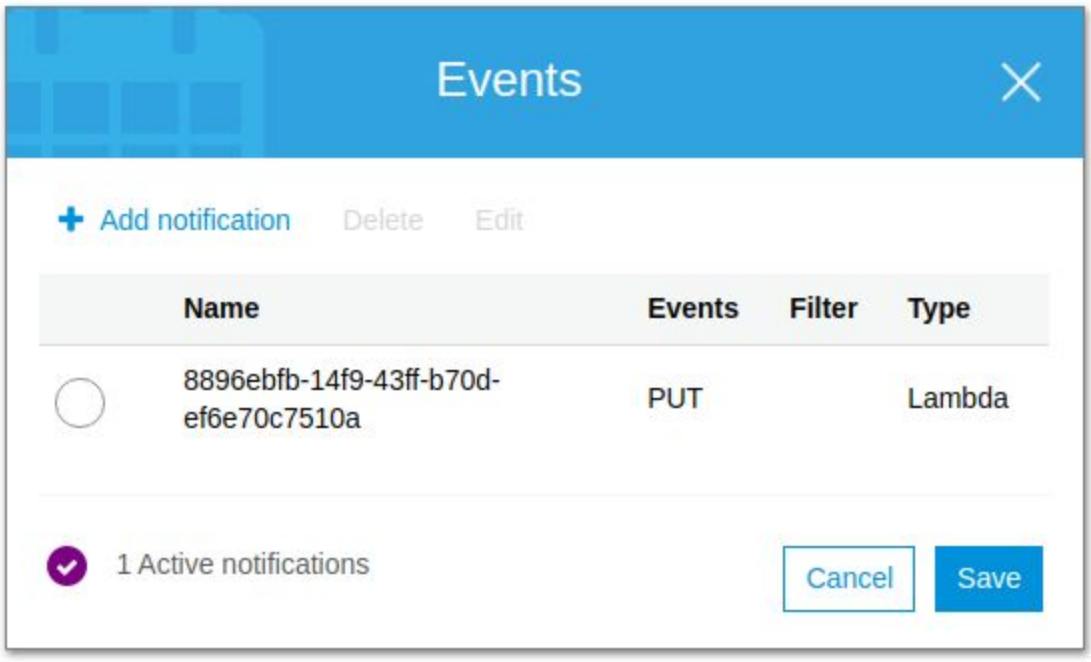
- Create a lambda function with an execution role having sqs policy.



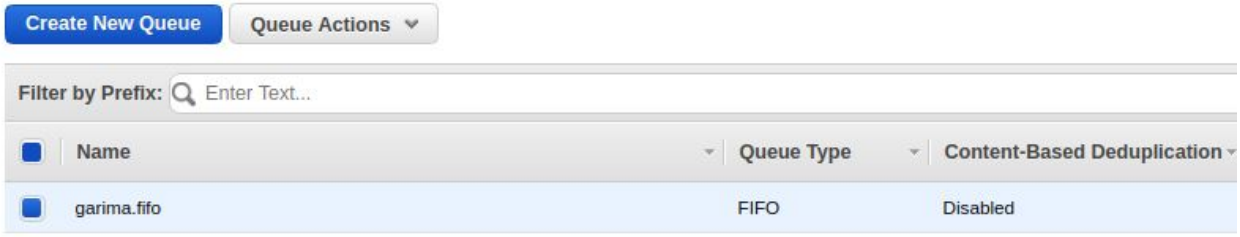


- Create a s3 bucket and a s3 trigger for the lambda function.

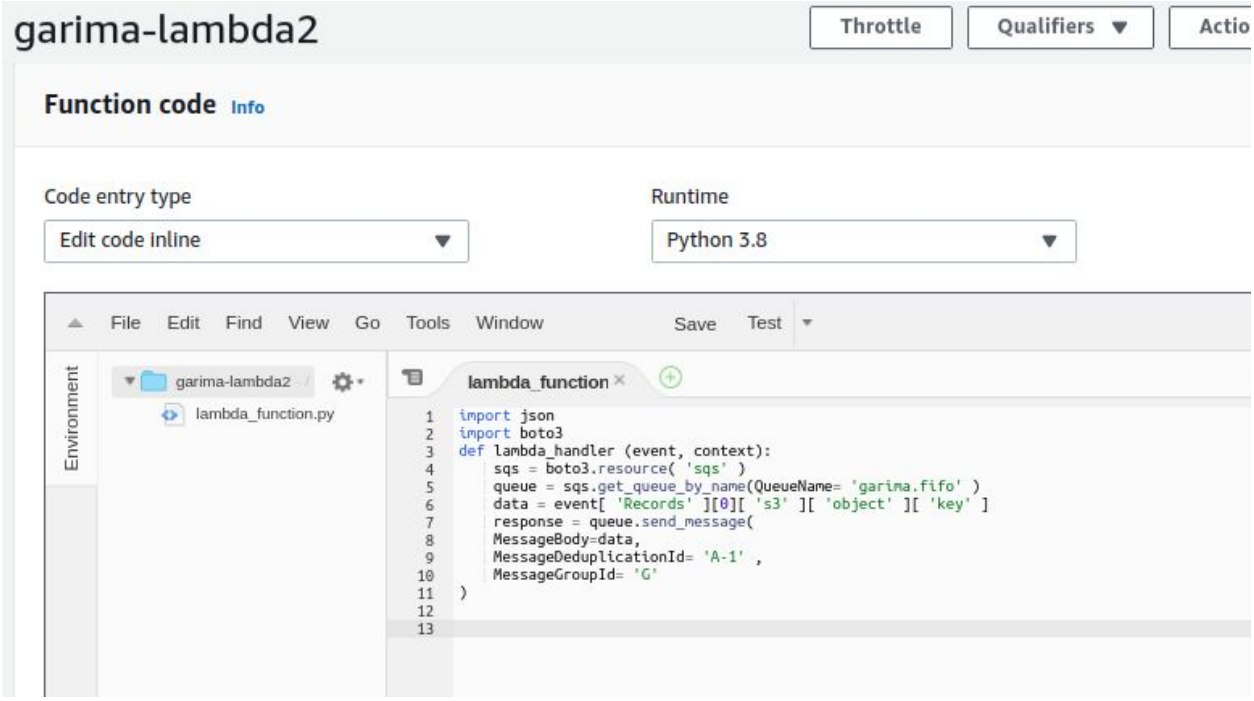




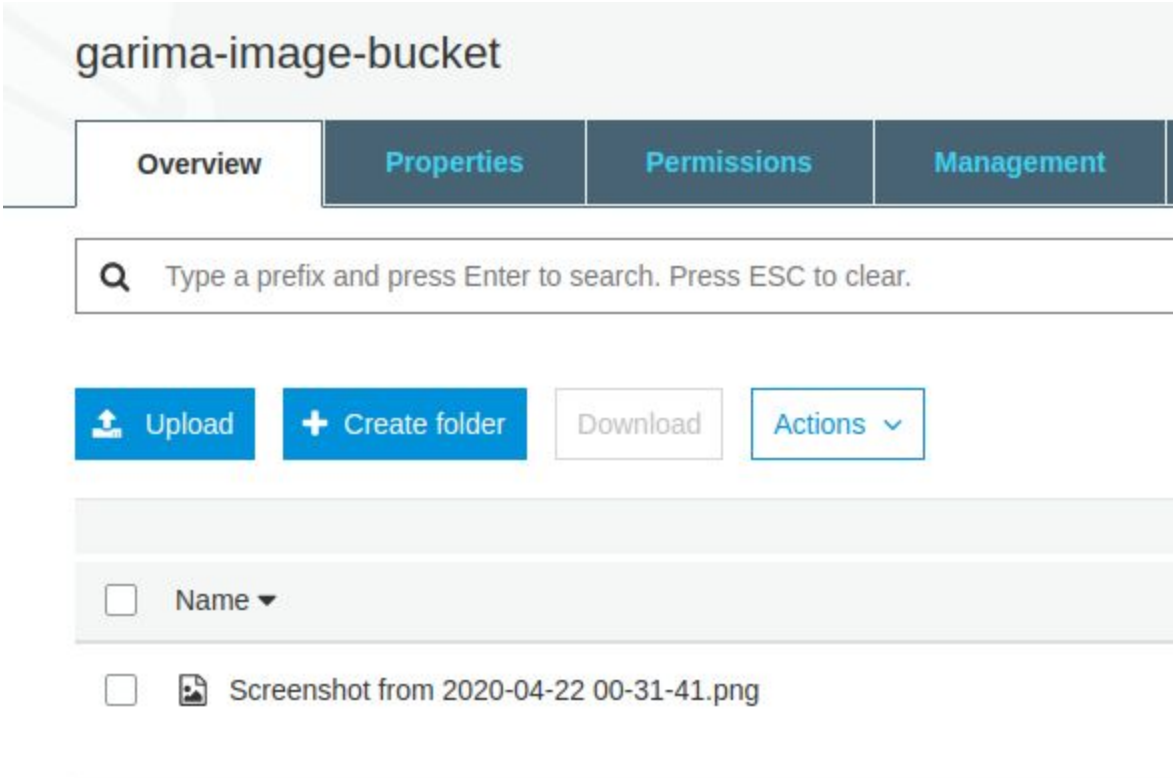
- Create a fifo queue



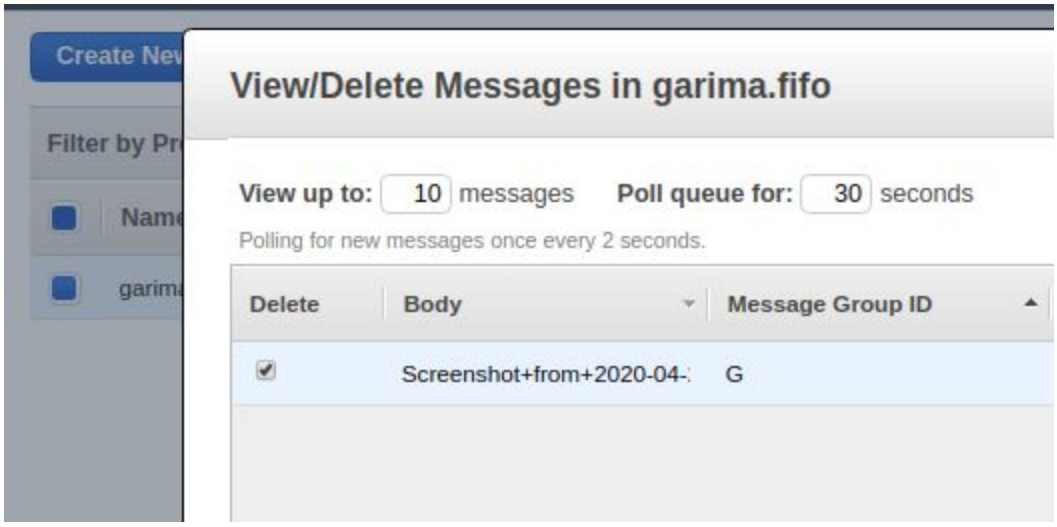
- Lambda function



- Putting object in s3 bucket

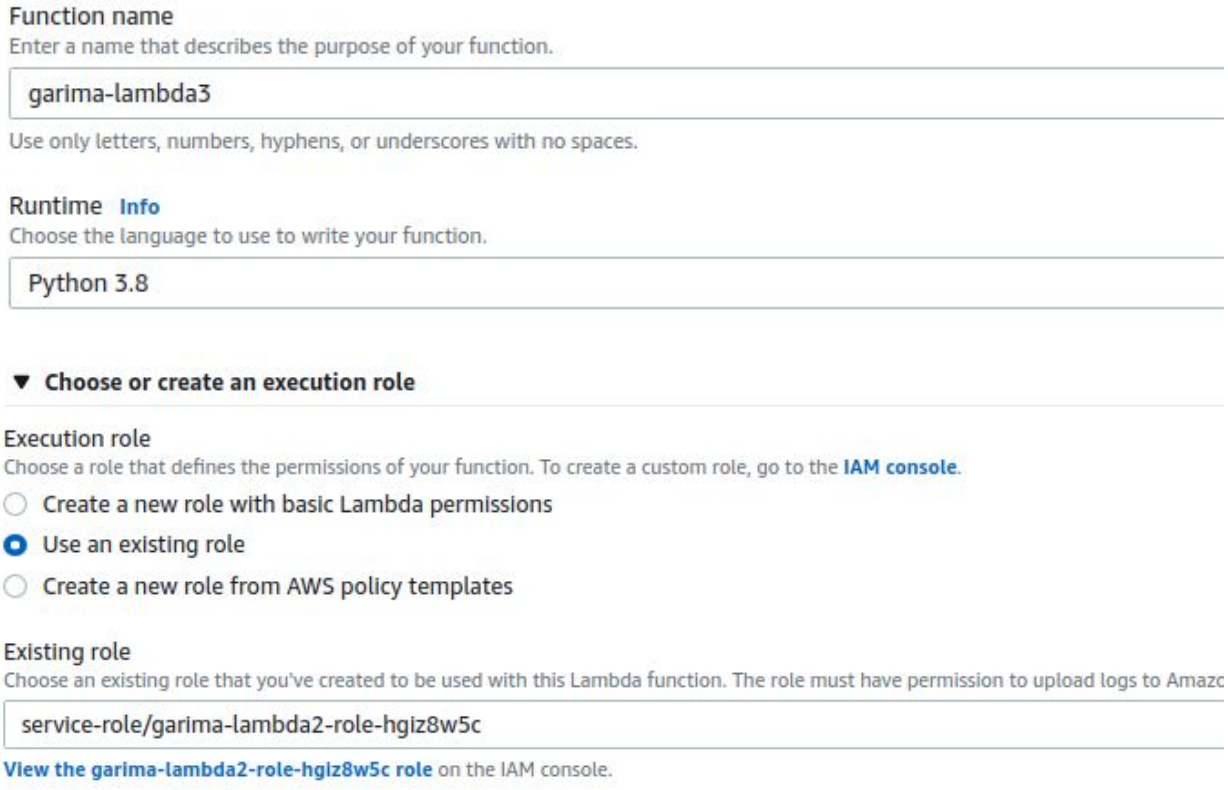


- Output

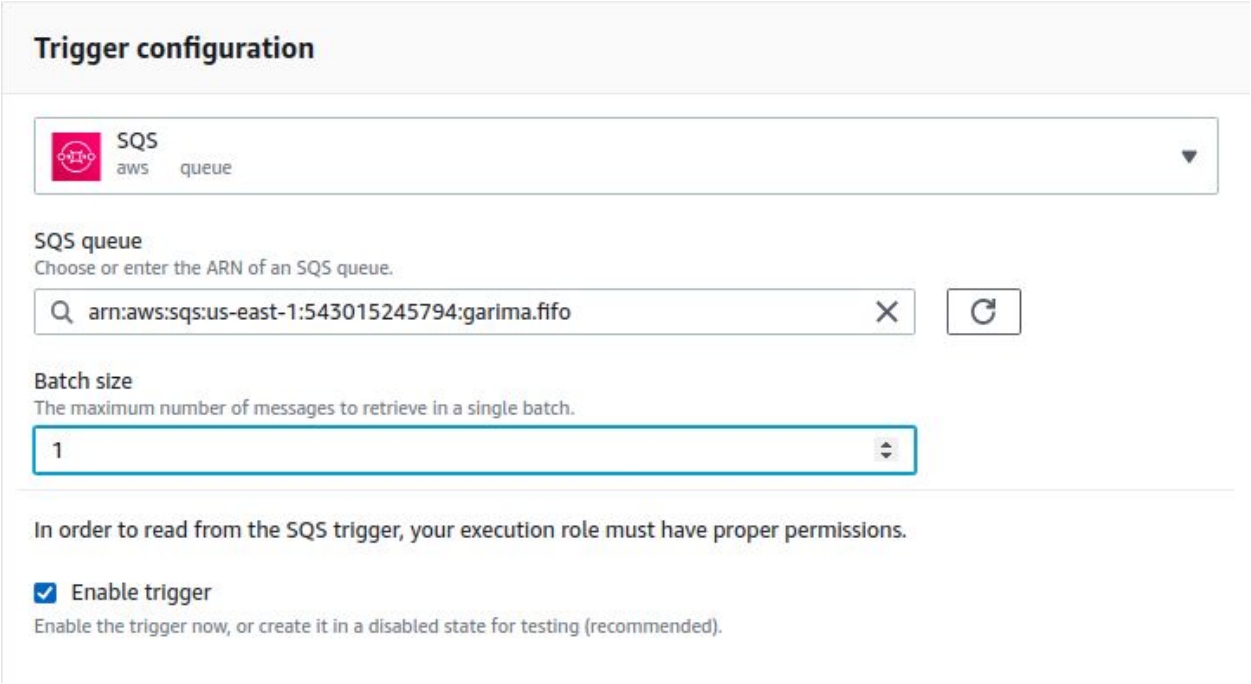


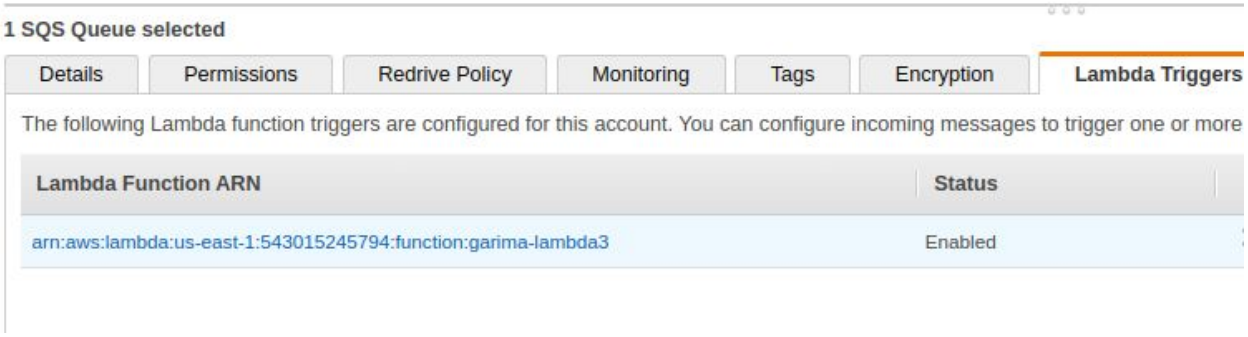
3. The SQS should be FIFO and write a Lambda Function which will listen to SQS and compress the image and upload to some other S3 Bucket

- Create a function with a role having sqs policy.



- Add sqs as the trigger





4. Create a Lambda function which gets triggered daily and takes the AMI of a particular EC2 instance(Filter on the basis of Tag).

5. Create a Lambda function which will login to a EC2 instance and prints all the running services. (Use python's paramiko module to do SSH. Also, launch lambda in a VPC).(Keep Keys in S3 and S3 should be encrypted)