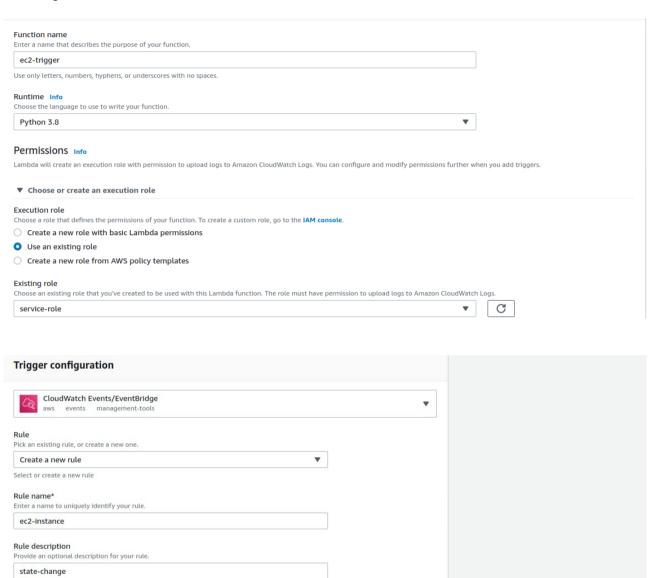
Lambda

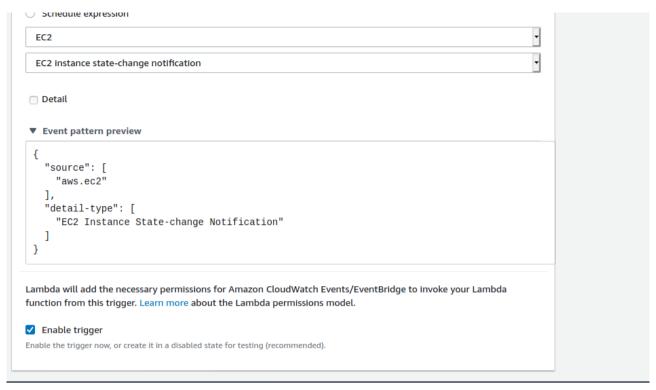
Rule type

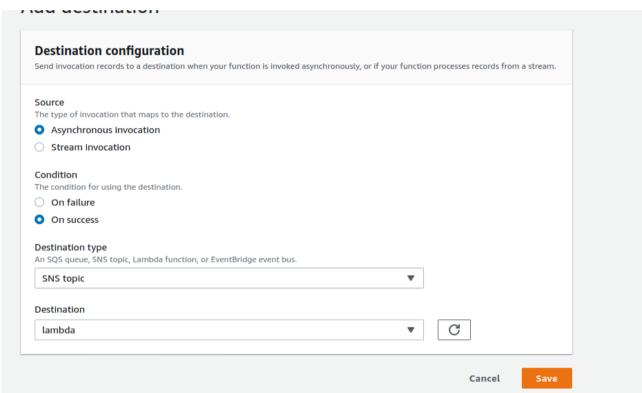
Event patternSchedule expression

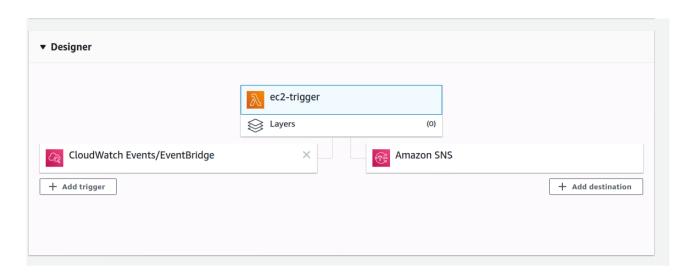
Trigger your target based on an event pattern, or based on an automated schedule.

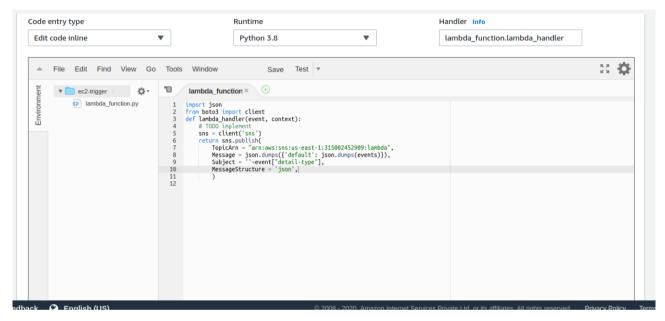
1. Create a Lambda function which get triggered from EC2 Action and Notify about changes via SNS Topic.

















to me 🔻

AWS Notifications <no-reply@sns.amazonaws.com>

3:30 AM (0 minutes ago)

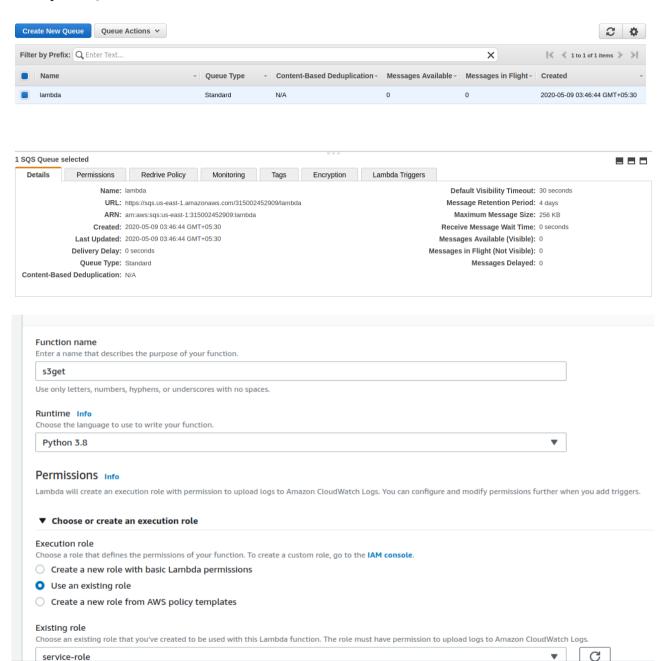


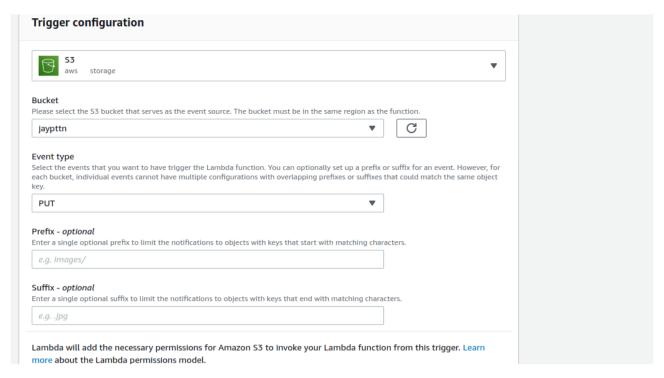
{"version":"1.0","timestamp":"2020-05-08T22:00:31.578Z","requestContext":{"requestId":"758e92f1-83eb-41b4-a2d5-03a8c9239131","functionArn":"arn:aws: lambda:us-east-1:315002452909:function:ec2-trigger:\$LATEST","condition":"Success","approximateInvokeCount":1},"requestPayload":{"version":"0","id":"66a0e6c3-09f1-98ee-eac8-fa54afcf8e6f","detail-type":"EC2 Instance State-change Notification","source":"aws.ec2","account":"315002452909"," time":"2020-05-08T22:00:30Z","region":"us-east-1","resources":["arn:aws:ec2:us-east-1:315002452909:instance/i-093fdeb434a448cde"],"detail":{"instance-id":"i-093fdeb434a448cde","state":"pending"]},"responseContext":{"statusCode":200,"executedVersion":"\$LATEST"},"responsePayload":{"statusCode":200, "body": "\"Hello from Lambda!\""}}

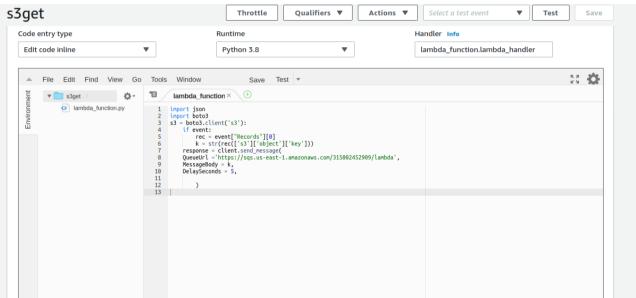
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe: https://sns.us-east-1:315002452909:lambda:2f7b4f6f-dbe3-49f2-b397-f99cb97e8079&Endpoint=jay.patel@tothenew.com

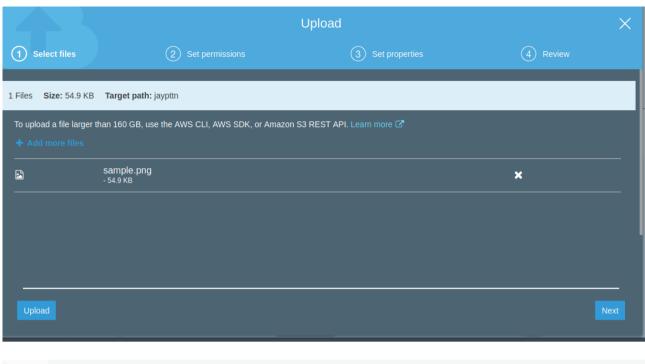
Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at https://aws.amazon.com/support

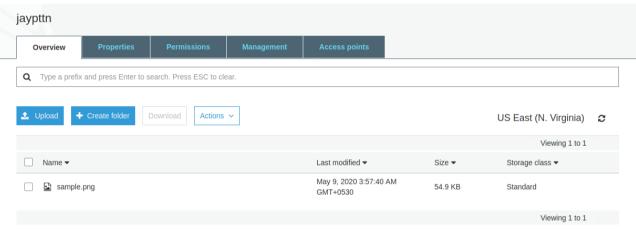
2. Create a Lambda function which gets invoked whenever a image is added to a s3 bucket and push the key to SQS.





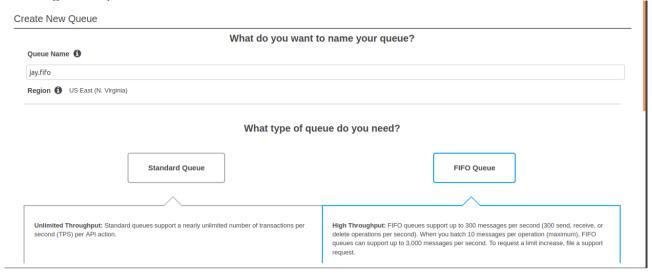


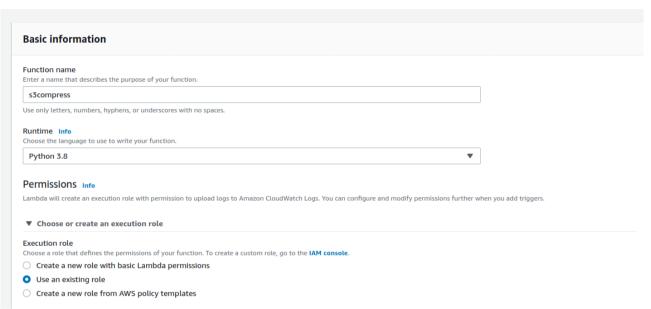


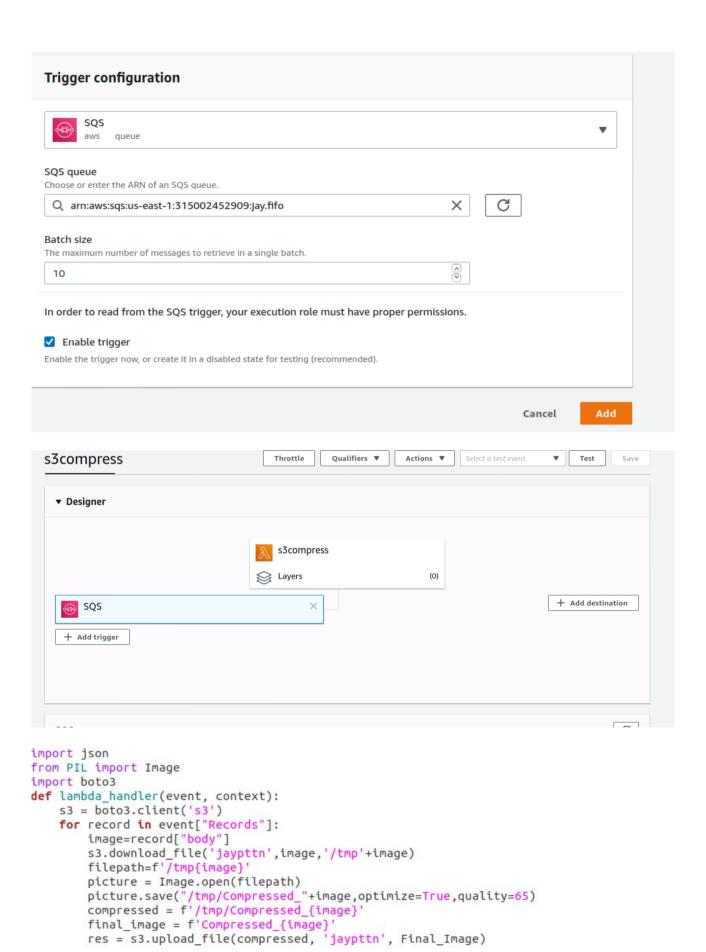




3. The SQS should be FIFO and write a Lambda Function which will listen to SQS and compress the image and upload to some other S3 Bucket





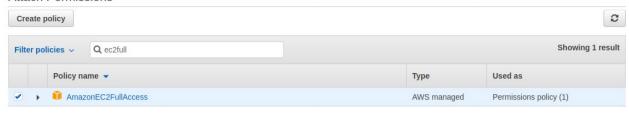


.5.005		.25-	1.05.50055
boto3	1.1 MB	Folder	12 May 2020, 22:07
boto3-1.12.43.dist-info	16.7 kB	Folder	12 May 2020, 22:07
botocore	44.7 MB	Folder	12 May 2020, 22:07
botocore-1.15.43.dist-info	92.2 kB	Folder	12 May 2020, 22:07
dateutil	623.0 kB	Folder	12 May 2020, 22:07
docutils	3.1 MB	Folder	12 May 2020, 22:07
docutils-0.15.2.dist-info	34.8 kB	Folder	12 May 2020, 22:07
jmespath	111.2 kB	Folder	12 May 2020, 22:07
jmespath-0.9.5.dist-info	18.8 kB	Folder	12 May 2020, 22:07
PIL	2.3 MB	Folder	12 May 2020, 22:07
Pillow.libs	4.4 MB	Folder	12 May 2020, 22:07
Pillow-7.1.1.dist-info	21.4 kB	Folder	12 May 2020, 22:07
pycache	26.9 kB	Folder	12 May 2020, 22:07
python_dateutil-2.8.1.dist-info	14.1 kB	Folder	12 May 2020, 22:07
s3transfer	462.6 kB	Folder	12 May 2020, 22:07
s3transfer-0.3.3.dist-info	5.8 kB	Folder	12 May 2020, 22:07
S3	18.1 MB	Folder	12 May 2020, 21:58
six-1.14.0.dist-info	3.5 kB	Folder	12 May 2020, 22:07
urllib3	614.1 kB	Folder	12 May 2020, 22:07
urllib3-1.25.9.dist-info	46.7 kB	Folder	12 May 2020, 22:07
image-compression.py	531 bytes	Python script	12 May 2020, 22:34
requirement.txt	126 bytes	plain text d	12 May 2020, 22:03
six.py	34.1 kB	Python script	12 May 2020, 22:06

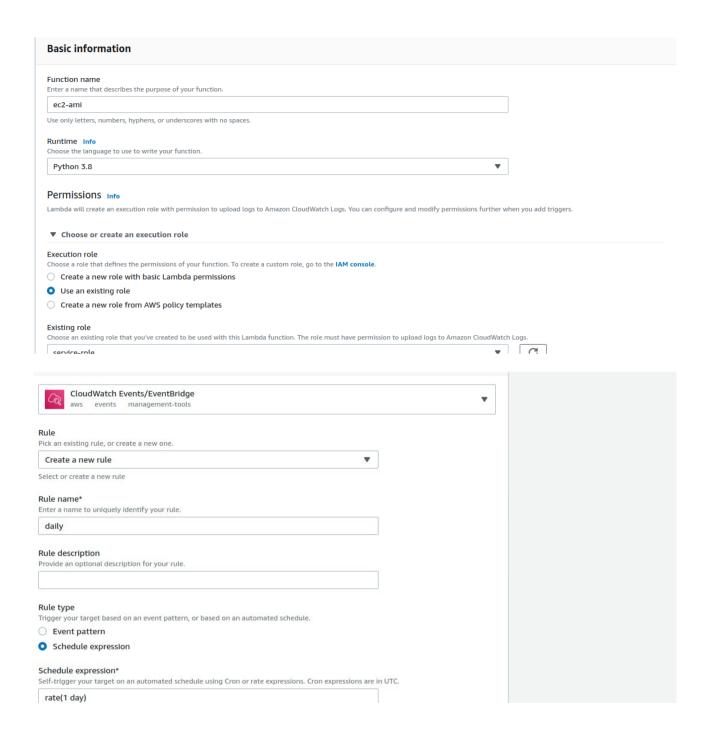
4. Create a Lambda functions which gets triggered daily and takes the AMI of a particular EC2 instance(Filter on the basis of Tag).

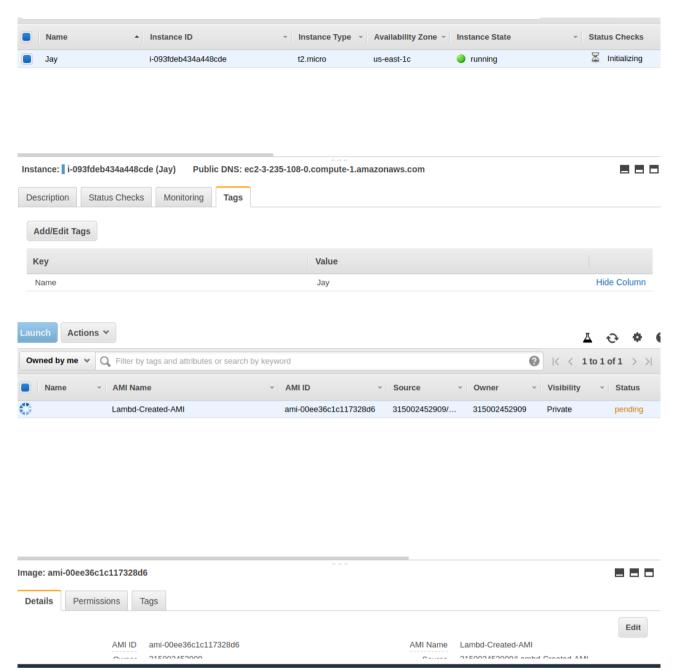
Add permissions to service-role

Attach Permissions

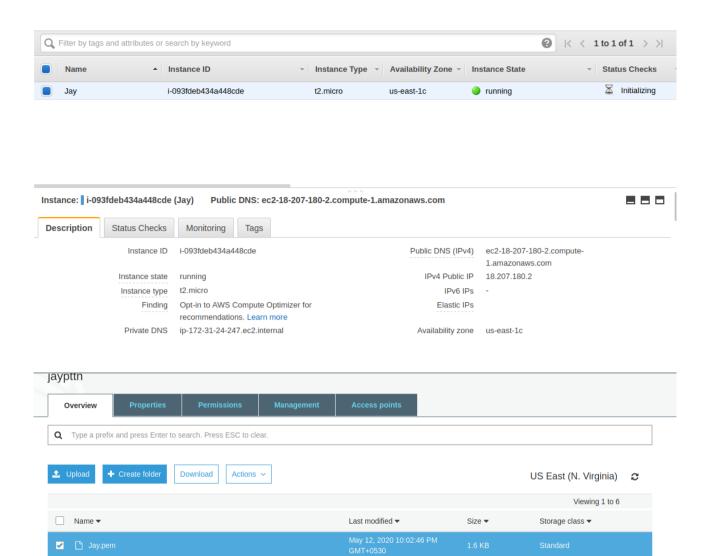


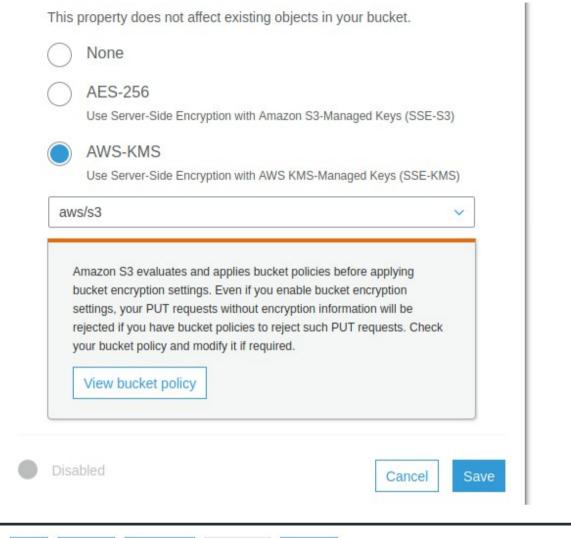
Cancel Attach policy



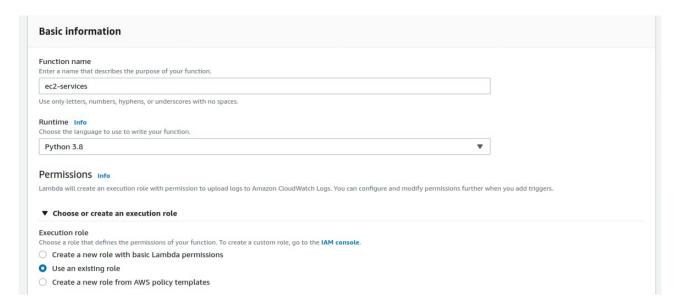


5. Create a Lambda function which will login to a EC2 instance and prints all the running services. (Use python's paramiko module to do SSH. Also, launch lambda in a VPC).(Keep Keys in S3 and S3 should be encrypted)









```
import paramiko
import boto3

def ssh (event,context):
    s3 = boto3.client('s3')
    s3.download_file('jaypttn','Jay.pem', '/tmp/Jay.pem')
    key = paramiko.RSAKey.from_private_key_file('/tmp/Jay.pem')
    client = paramiko.SSHClient()
    client.set_missing_host_key_policy(paramiko.AutoAddPolicy())
    client.connect(hostname='18.207.180.2',username="ubuntu",pkey=key)
    stdin,stdout,stderr = client.exec_command('ps -eaf')
    print(stdout.read())
    client.close()
```

ilibs_cffi_backend	46.6 kB	Folder	23 April 2020, 23:34
b crypt	123.0 kB	Folder	23 April 2020, 23:34
bcrypt-3.1.7.dist-info	19.1 kB	Folder	23 April 2020, 23:34
cffi	613.9 kB	Folder	23 April 2020, 23:34
cffi-1.14.0.dist-info	5.7 kB	Folder	23 April 2020, 23:34
cryptography	8.9 MB	Folder	23 April 2020, 23:34
cryptography-2.9.2.dist-info	38.7 kB	Folder	23 April 2020, 23:34
macl	2.8 MB	Folder	23 April 2020, 23:34
paramiko	1.2 MB	Folder	23 April 2020, 23:34
paramiko-2.7.1.dist-info	37.7 kB	Folder	23 April 2020, 23:34
pycache	26.9 kB	Folder	23 April 2020, 23:34
pycparser	948.7 kB	Folder	23 April 2020, 23:34
pycparser-2.20.dist-info	5.3 kB	Folder	23 April 2020, 23:34
PyNaCl-1.3.0.dist-info	20.9 kB	Folder	23 April 2020, 23:34
six-1.14.0.dist-info	3.5 kB	Folder	23 April 2020, 23:34
_cffi_backend.cpython-36m-x8	853.8 kB	shared library	23 April 2020, 23:34
my_handler.py	475 bytes	Python script	12 May 2020, 22:06
requirement.txt	105 bytes	plain text d	23 April 2020, 23:34
six.py	34.1 kB	Python script	23 April 2020, 23:34

