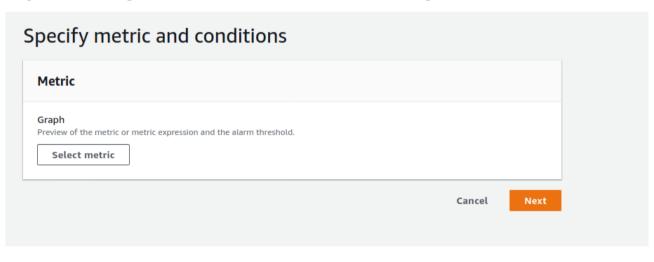
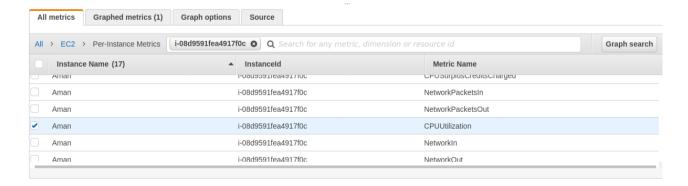
## SES,SNS,CloudWatch Session

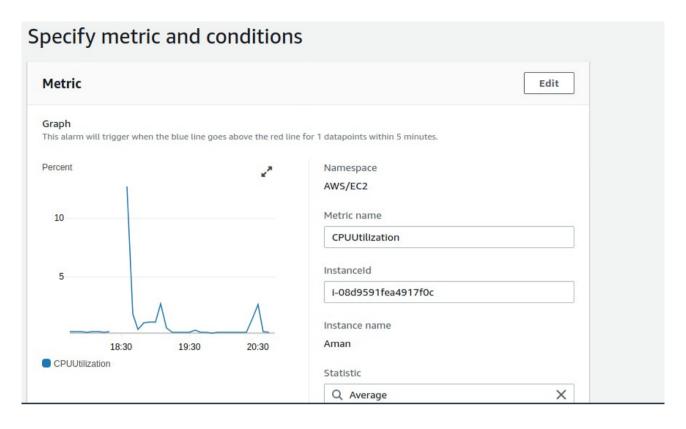
## 1. Monitor Your Estimated Charges Using CloudWatch

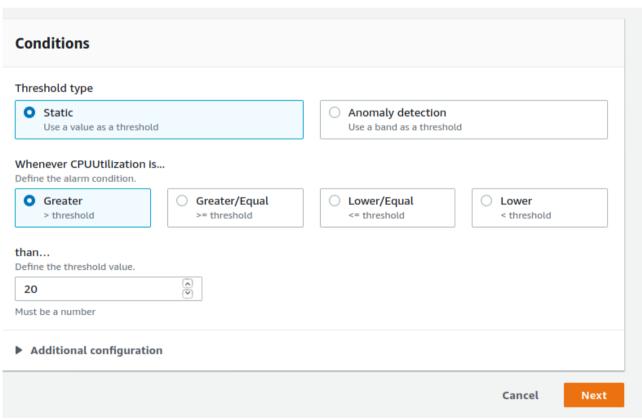
- **Step 1: Enable Billing Alerts**
- Step 2: Create a Billing Alarm
- **Step 3: Check the Alarm Status**
- Step 4: Create & Subscribe to SNS Topic
- Step 5: Send a notification all the stakeholder, if AWS resource pricing reaches the threshold value.

In question1 Billing metric is not authorized so i made alarm on cpu utilization on ec2 instance and









#### EC2 action

#### Alarm state trigger

threshold.

Define the alarm state that will trigger this action.

O In alarm

The metric or expression is outside of the defined

The metric or expression is within the defined threshold.

Insufficient data

The alarm has just started or not enough data is available.

#### Take the following action...

Define what will happen to the EC2 instance with the Instance ID i-08d9591fea4917f0c when this alarm is triggered.

You can only recover certain EC2 instance types. See documentation

Stop this instance

You can only stop an instance if it is backed by an EBS volume. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document

Terminate this instance

You will not be able to terminate this instance if termination protection is enabled. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document

Reboot this instance

An instance reboot is equivalent to an operating system reboot. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document

## AWS Notification - Subscription Confirmation > Inbox x



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

to me \*

2:22 AM (4 minutes ago)

Remove



You have chosen to subscribe to the topic: arn:aws:sns:us-east-1:187632318301:jay

To confirm this subscription, click or visit the link below (If this was in error no action is necessary): Confirm subscription

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out



#### **Simple Notification Service**

## Subscription confirmed!

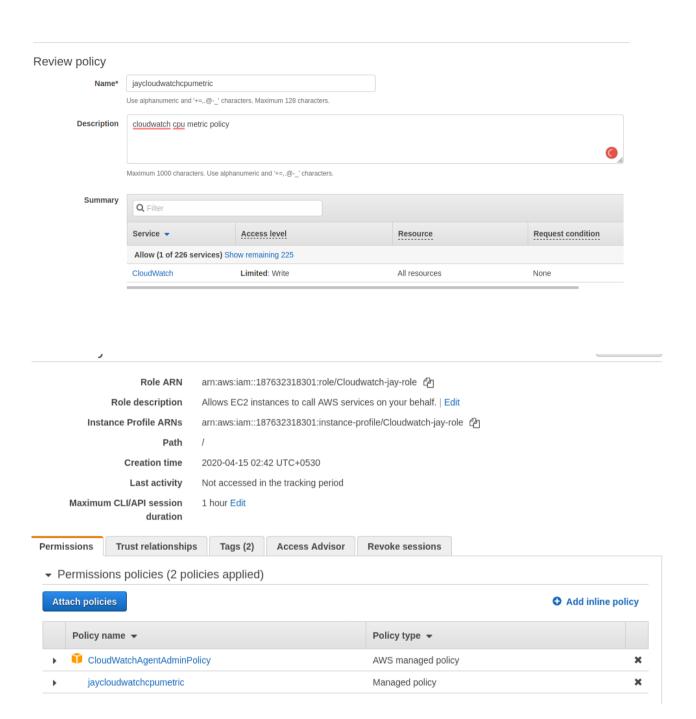
You have subscribed jay.patel@tothenew.com to the topic: jay.

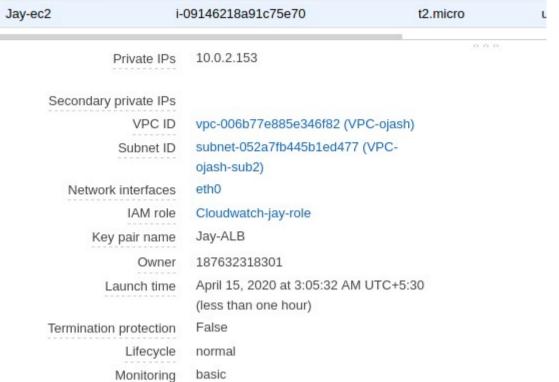
Your subscription's id is:

arn:aws:sns:us-east-1:187632318301:jay:8b4ce105-0499-480cb5b9-366a1b9ff63a

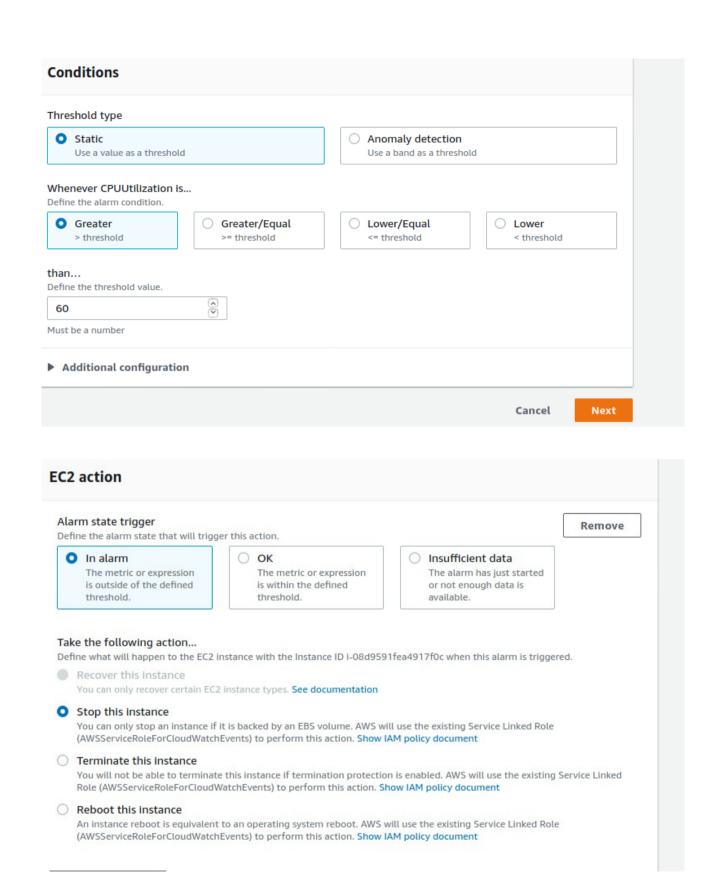
If it was not your intention to subscribe, click here to unsubscribe.

# 2. Create a custom Memory metric in CloudWatch and set up alarm at 80 % which will autoscale the instance in the autoscaling group.



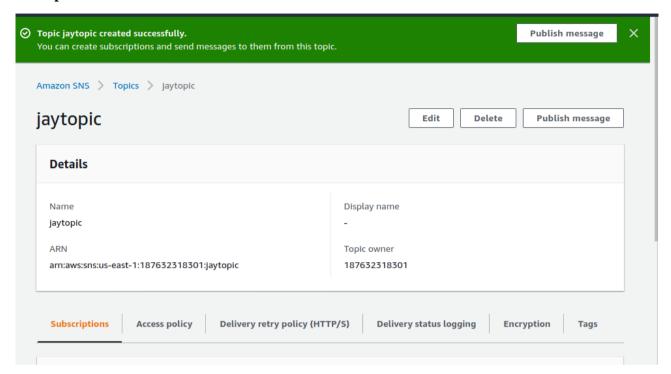


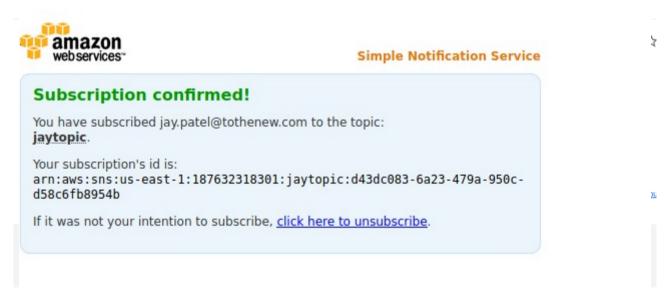
## Specify metric and conditions Metric Edit This alarm will trigger when the blue line goes above the red line for 1 datapoints within 1 minute. Percent Namespace 60 AWS/EC2 Metric name 50 CPUUtilization InstanceId 40 i-09146218a91c75e70 Instance name Jay-ec2 19:30 20:30 21:30 CPUUtilization Statistic Q Average



Instead of ASG i used ec2 action to trigger to stop the instance if cpu > 60%

3. Create SNS topic, subscribe to a topic, publish message, unsubscribe the message and delete the topic.





4. Send a sample mail using SES.

## ▼ Your Amazon SES Sending Limits



User: arn:aws:iam::187632318301:user/jay.patel@tothenew.com is not authorized to perform: ses:GetSendQuota (Request ID: a456104a-a142-4e7c-83c0-51a004f6fbc5)

Below are the latest statistics and metrics related to your Amazon SES Usage.

Sending Quota: Quota Used: Max Send Rate: Last updated:

Learn more about your sending limits.

#### Additional Information

Amazon SES Documentation
All SES Resources
Forums

Contact Us

Ð

Request Increased Sending Limits

### ▼ Your Amazon SES Metrics





User: arn:aws:iam::187632318301:user/jay.patel@tothenew.com is not authorized to perform: ses:GetSendStatistics (Request ID: a78bea30-e8df-46dd-9e53-f85f56662189)

The following charts show the number of emails delivered, as well as the rejection, bounce and complaint rates for your account. These charts display data for the past two weeks, aggregated daily.

You can change the Rejects, Bounces, and Complaints charts to display a number instead of a percentage. You can also click any chart to view it in a larger window,