

2.Create a Alarm setup for the EC2 when a server reach 10%CPU

- **Components:**

- EC2 instance
- CloudWatch
- SNS (Simple Notification Service)

step-by-step Instructions:

- **Creation of ec2 instance and SNS**

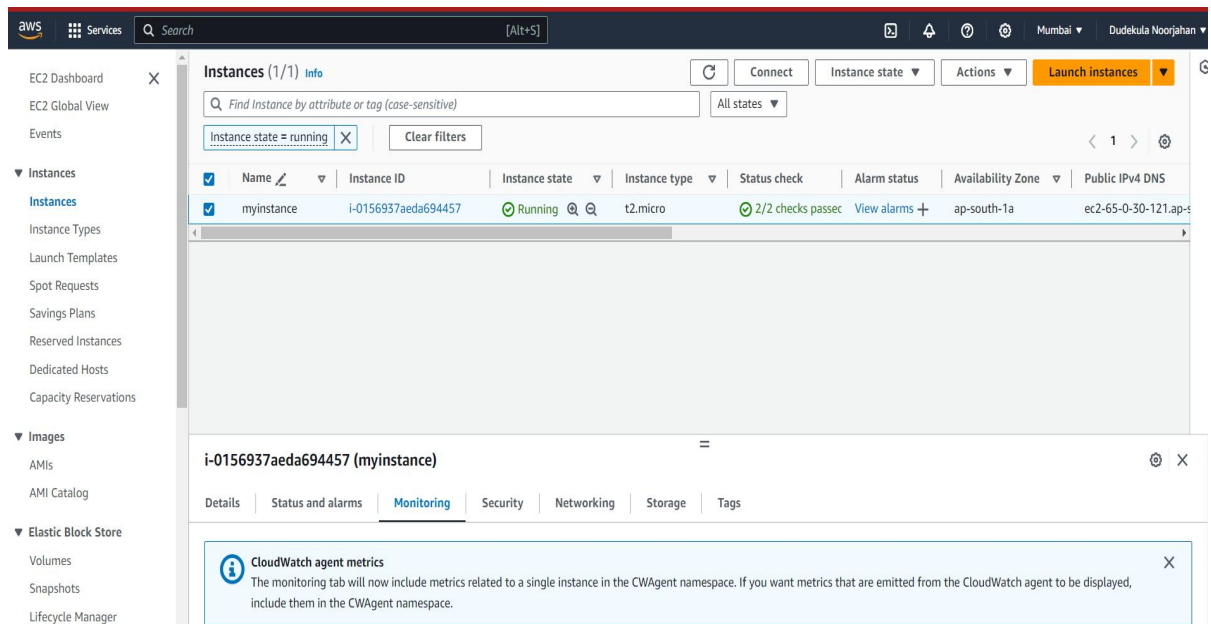
- create an ec2-instance firstly with name (e.g.,myinstance)
- Navigate to the SNS dashboard and creates a topic (e.g., MySNS)
- Click on "create topic"

- **Create a cloudwatch alarm :**

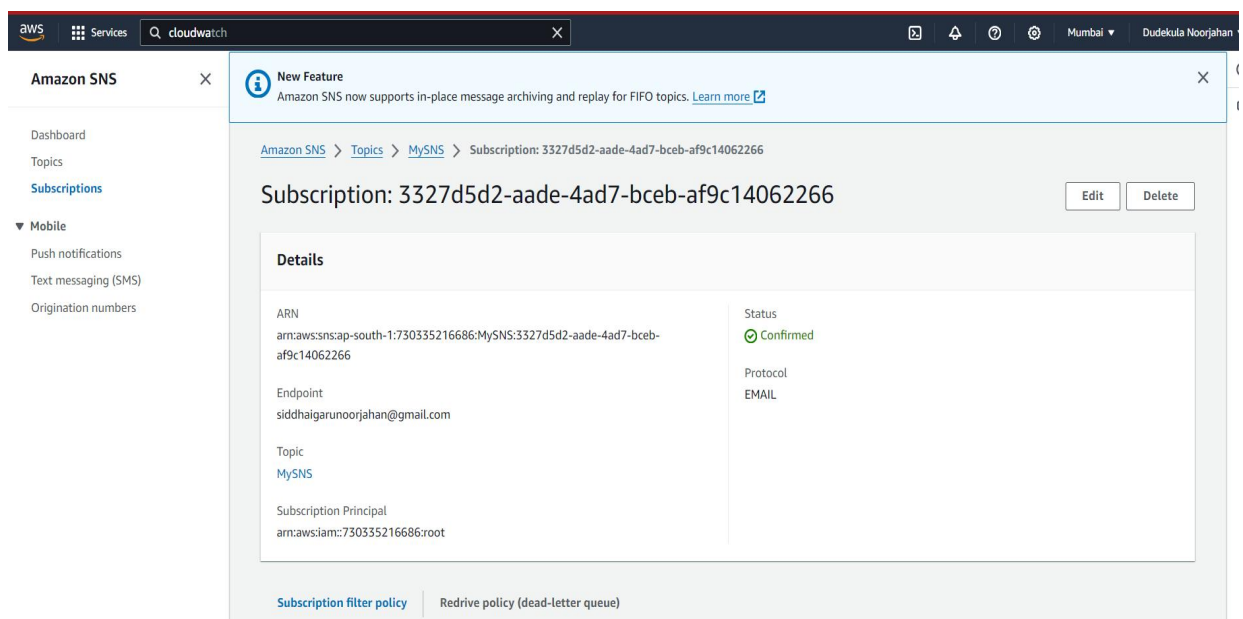
- Navigate to the CloudWatch dashboard
- Click "Alarms" > "Create alarm"
- Select "EC2" as the metric source
- Choose the EC2 instance and metric (CPUUtilization)
- Set the threshold to 10%
- Set the evaluation period to 1 minute (or our desired value)
- Click "Create alarm"

- **Configure the alarm action and verifying the alarm:**

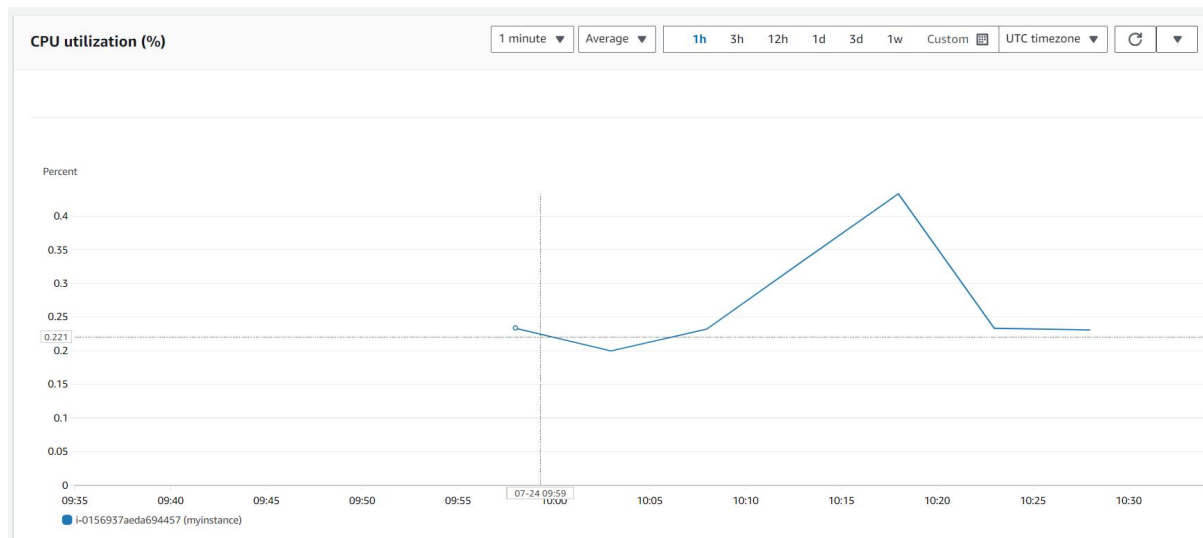
- In the alarm configuration, click "Actions"
- Select "Send notification to SNS topic"
- Choose the SNS topic created in SNS directly also
- Click "Save changes"
- Monitor the EC2 instance's CPU usage
- When the CPU usage reaches 10%, the alarm should trigger
- Check the SNS topic for the notification and subscription protocol (using email)



1. Created an ec2-instance



2. Created SNS with subscription protocol through an Email



Gmail

Compose

Inbox 1,279

Starred

Snoozed

Sent

Drafts 16

More

Labels +

Search mail

ALARM: "ec2-alarm for cpu-utilization" in Asia Pacific (Mumbai)

MySNS <no-reply@sns.amazonaws.com> to me 18:13 (8 minutes ago)

You are receiving this email because your Amazon CloudWatch Alarm "ec2-alarm for cpu-utilization" in the Asia Pacific (Mumbai) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [58.80169491525423 (24/07/24 12:38:00)] was greater than the threshold (10.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Wednesday 24 July, 2024 12:43:33 UTC".

View this alarm in the AWS Management Console:
<https://ap-south-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=ap-south-1#alarmsV2:alarm/ec2-alarm%20for%20cpu-utilization>

Alarm Details:

- Name: ec2-alarm for cpu-utilization
- Description: Hi Noorjahan ,Instance CPU utilization threshold should be stopped after 10% crossed
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [58.80169491525423 (24/07/24 12:38:00)] was greater than the threshold (10.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Wednesday 24 July, 2024 12:43:33 UTC
- AWS Account: 730335216686
- Alarm Arn: arn:aws:cloudwatch:ap-south-1:730335216686:alarm:ec2-alarm for cpu-utilization

Threshold:

- The alarm is in the ALARM state when the metric is GreaterThanThreshold 10.0 for at least 1 of the last 1 period(s) of 60 seconds.

Monitored Metric:

- MetricNamespace: AWS/EC2
- MetricName: CPUUtilization
- Dimensions: [InstanceId = i-0156937aeda694457]
- Period: 60 seconds
- Statistic: Average
- Unit: not specified
- TreatMissingData: missing

By following these steps, you'll receive notifications when your EC2 instance's CPU usage reaches 10%. You can adjust the threshold and evaluation period to suit your needs.