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**

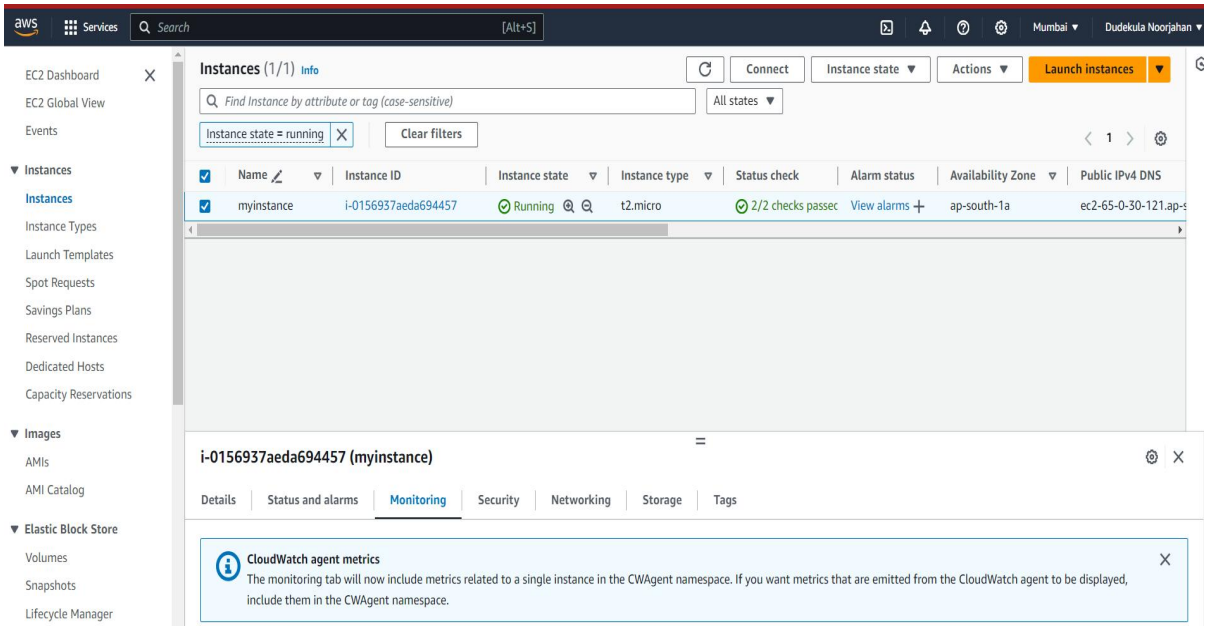
  - create an ec2-instance firstly with name (e.g.,myinstance)
  - Navigate to the SNS dashboard and creates a topic (e.g., MySNS)
  - Click on “create topic”

- **Create a cloudwatch alarm :**

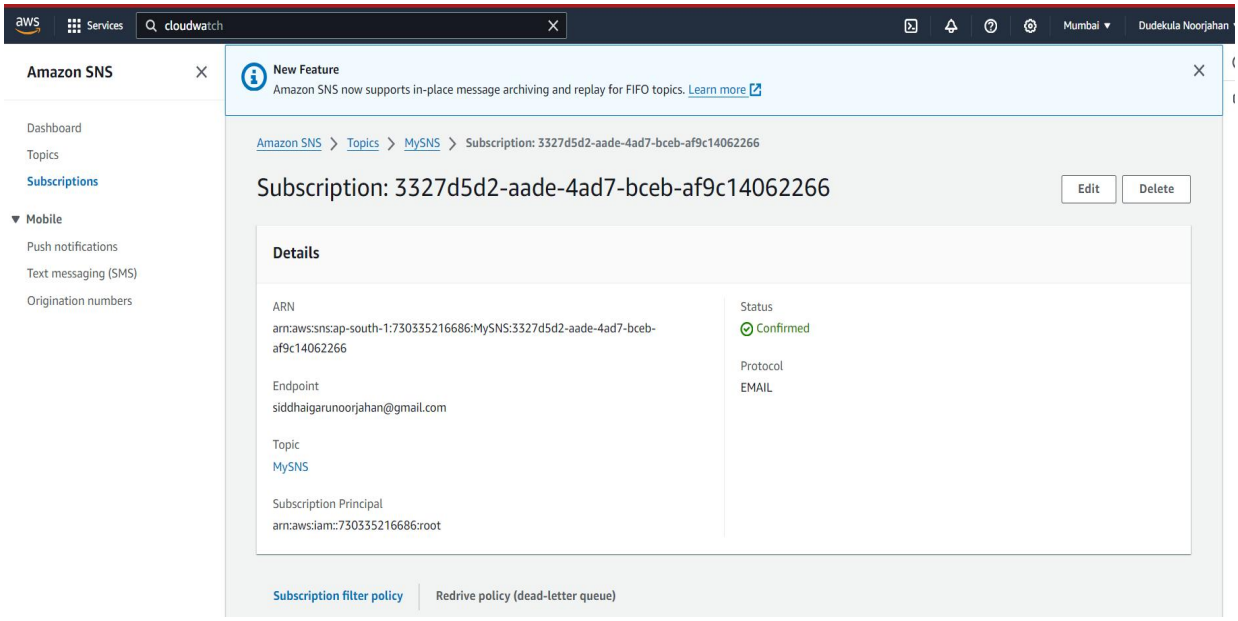
  - Navigate to the CloudWatch dashboard
  - Click "Alarms" > "Create alarm"
  - Select "EC2" as the metric source
  - Choose the EC2 instance and metric (CPUUtilization)
  - Set the threshold to 10%
  - Set the evaluation period to 1 minute (or our desired value)
  - Click "Create alarm"

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

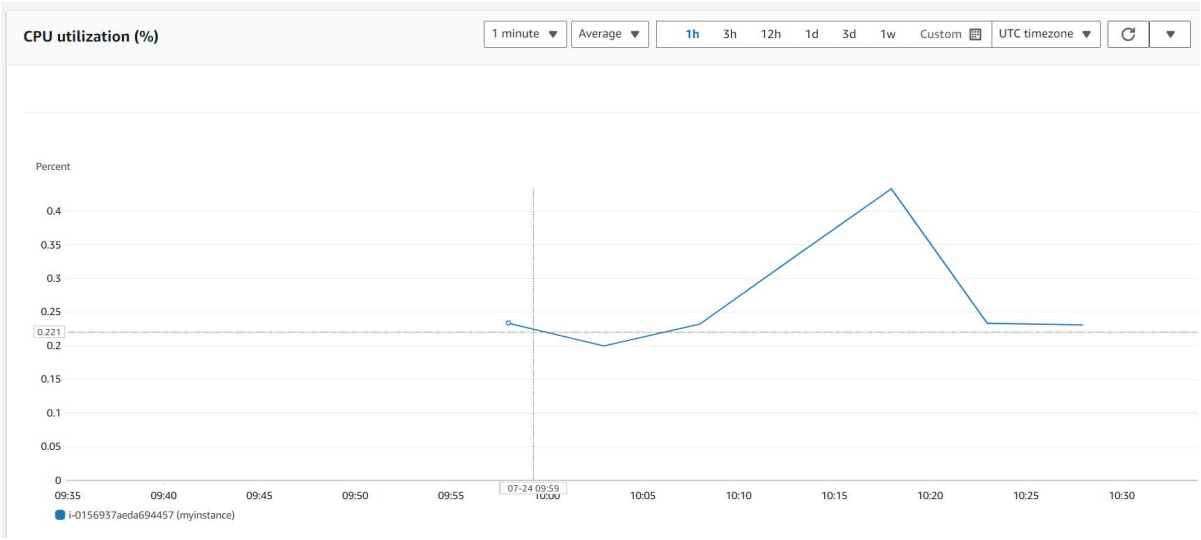
  - In the alarm configuration, click "Actions"
  - Select "Send notification to SNS topic"
  - Choose the SNS topic created in SNS directly also
  - Click "Save changes"
  - Monitor the EC2 instance's CPU usage
  - When the CPU usage reaches 10%, the alarm should trigger
  - Check the SNS topic for the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

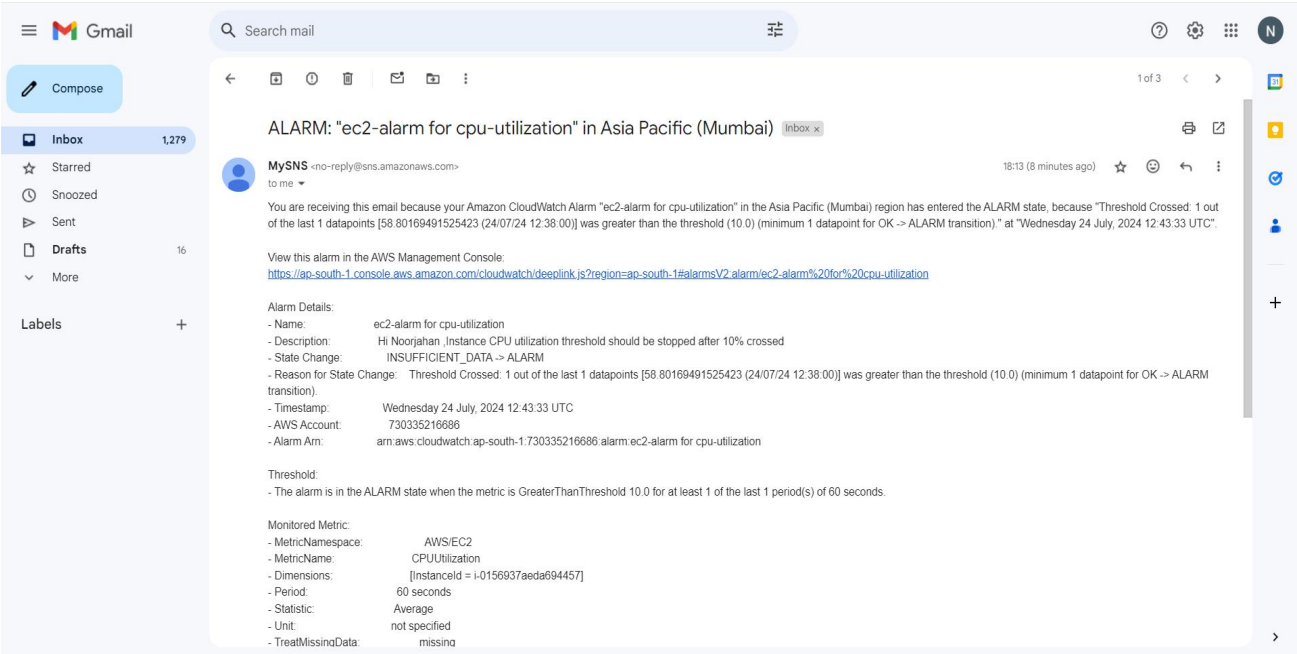


1. Created an ec2-instance



2. Created SNS with subscription protocol through an Email





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.