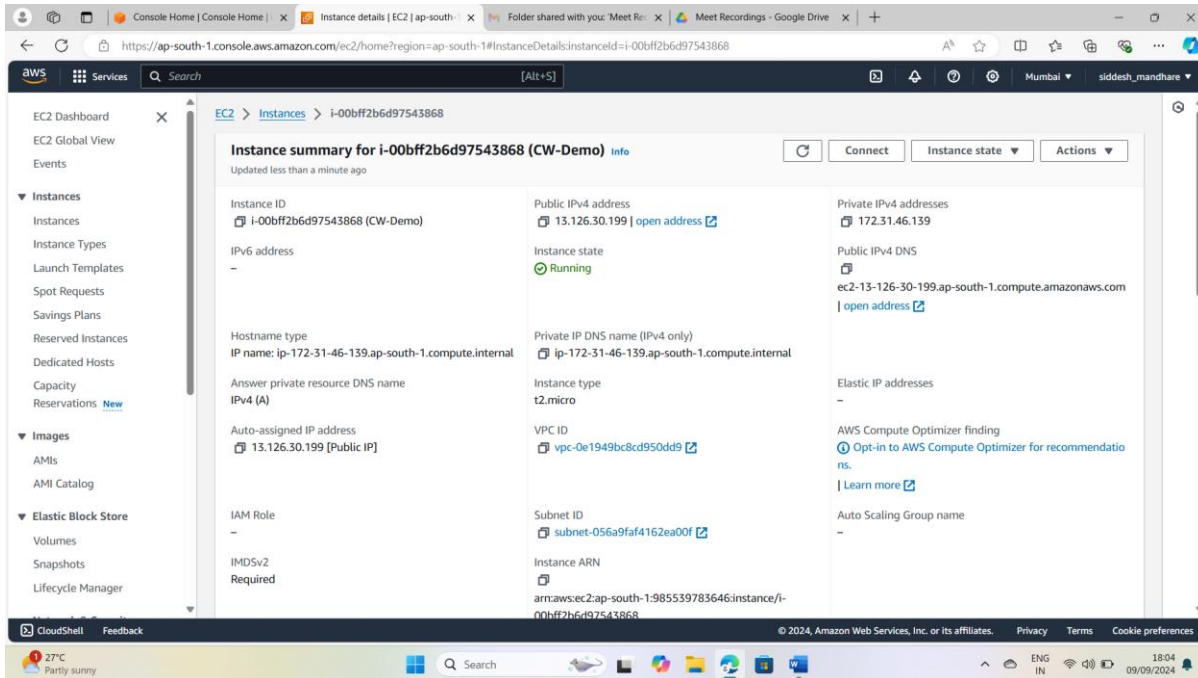


AWS- Cloud Watch

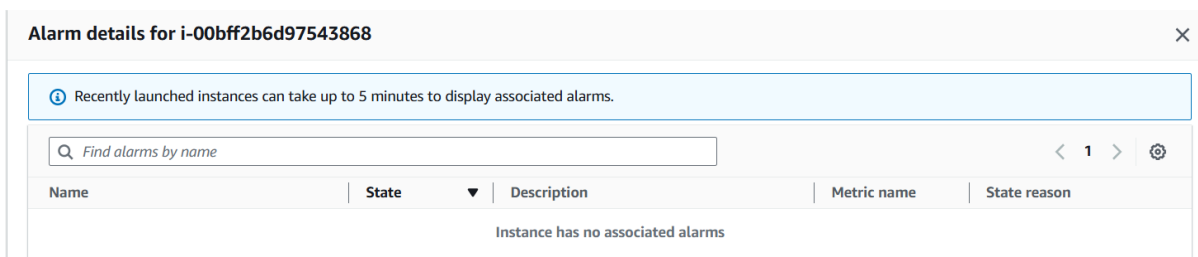
Siddesh Mandhare || 09/09/24

Problem Statement- Monitor the CPU utilization and set threshold of utilization greater than 80% and send a alert via SNS.

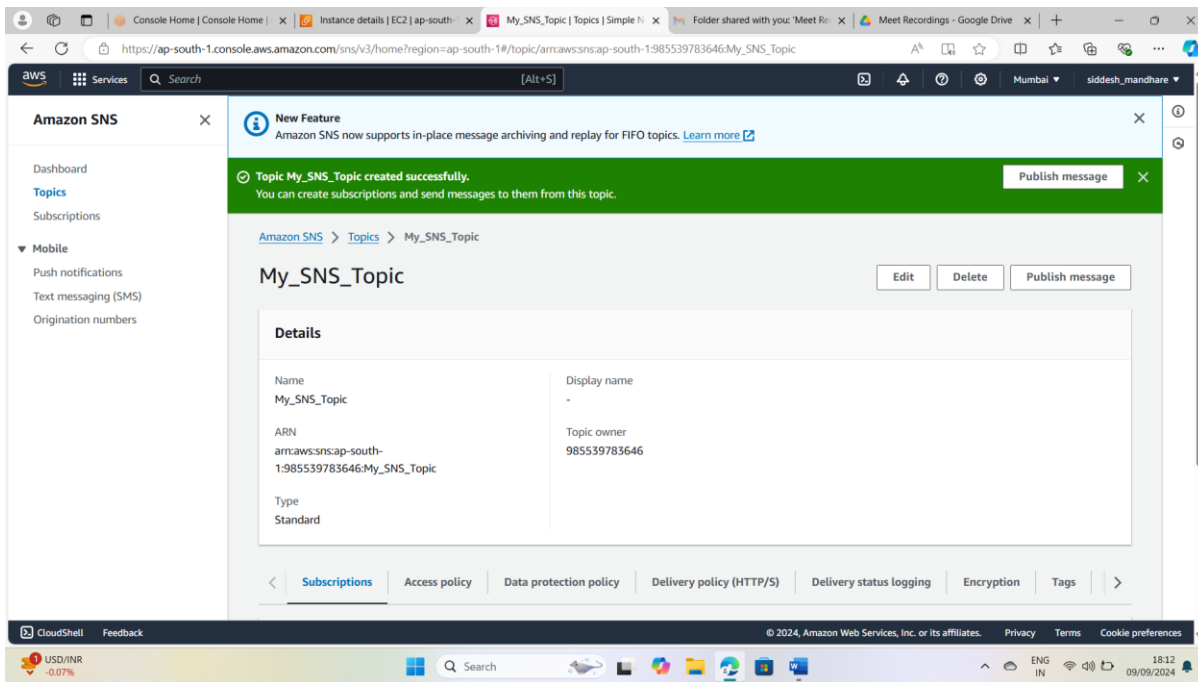
1) Create instance



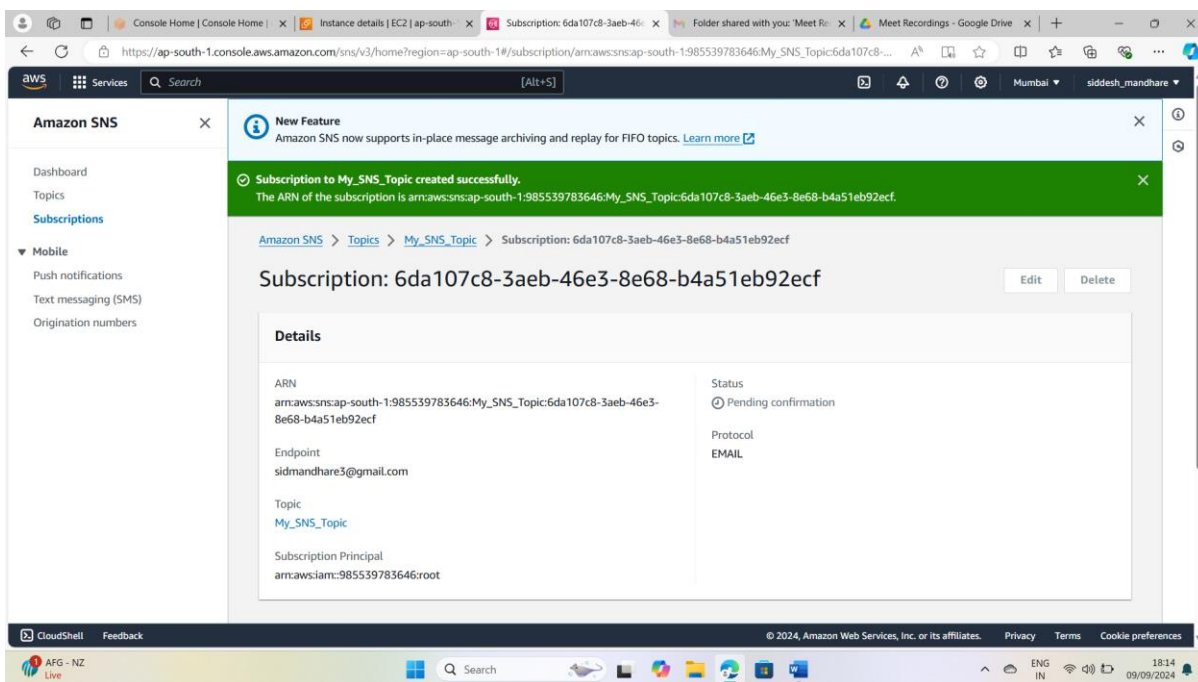
2) By default, there is no any alarm set



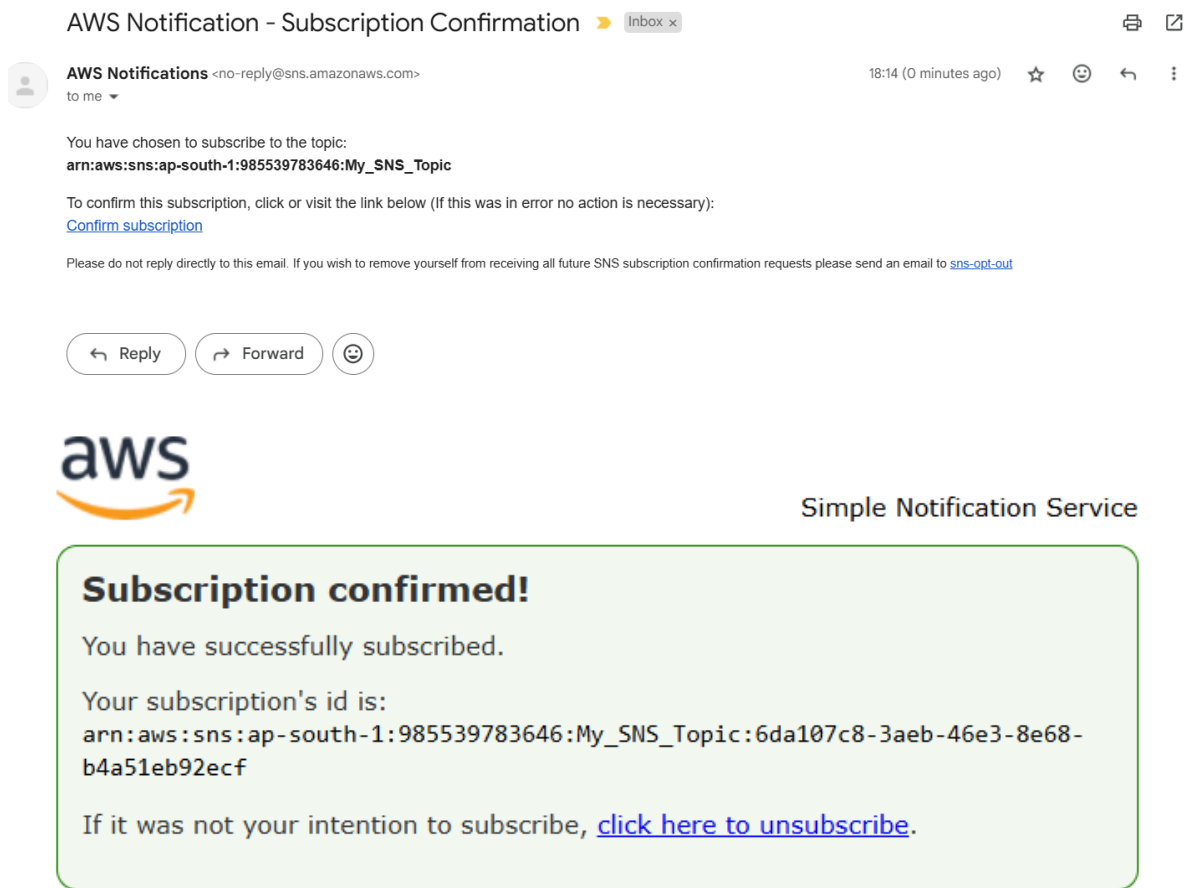
3) Go to SNS service and create standard topic



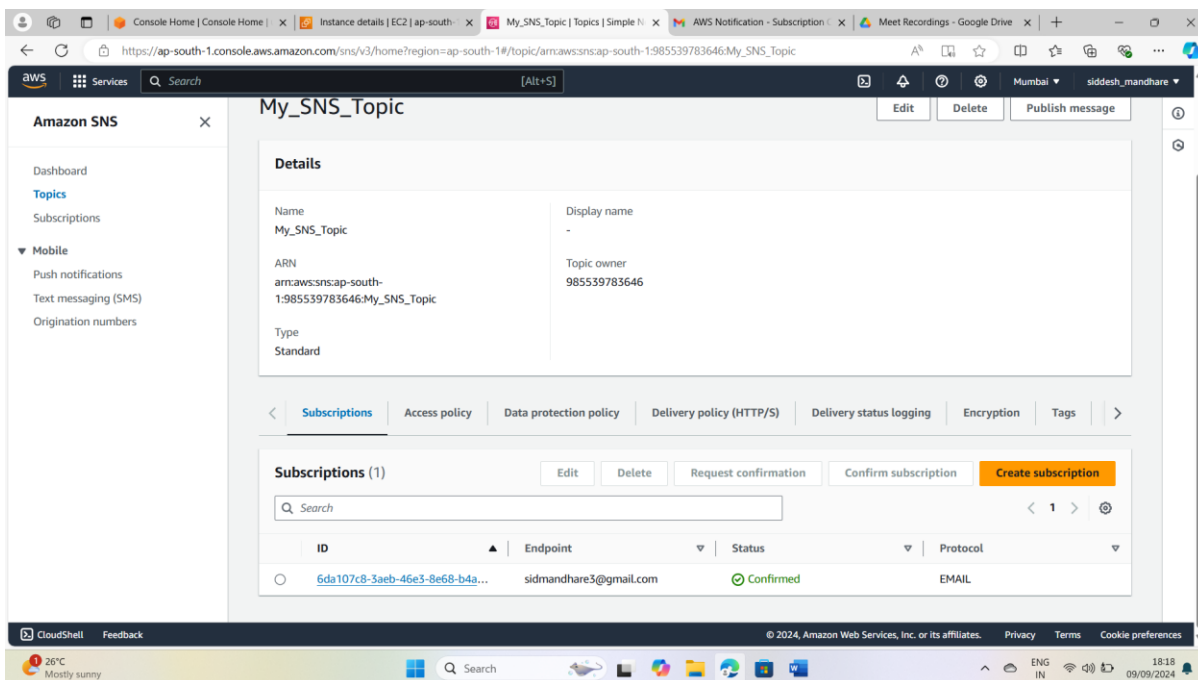
4) Create subscription in newly created SNS topic (My_SNS_Topic) and add Email id.



5) After creating subscription, got email for confirmation.



6) After conformation, status changes to “confirmed”.



7) GO to “CloudWatch” service and create alarm

This screenshot shows the 'Specify metric and conditions' page in the AWS CloudWatch console. The left sidebar indicates the current step is 'Specify metric and conditions'. The main area is divided into a 'Graph' section and a 'Metric' configuration section.

Graph: A line graph showing CPU utilization over time. The y-axis is labeled 'Percent' with values 0.234, 0.265, and 0.296. The x-axis shows times 10:30, 11:30, and 12:30. A blue line represents the 'CPUUtilization' metric, which rises sharply after 11:30.

Metric configuration:

- Namespace: AWS/EC2
- Metric name: CPUUtilization
- Instanced ID: i-00bff2bd97543868
- Instance name: CW-Demo
- Statistic: Average
- Period: 2 minutes

The bottom of the console shows a status bar with 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. The system tray at the bottom indicates a temperature of 26°C and a 'Mostly sunny' weather condition.

This screenshot shows the 'Notification' page in the AWS CloudWatch console. The left sidebar indicates the current step is 'Configure actions'. The main area is divided into 'Alarm state trigger' and 'Send a notification to the following SNS topic' sections.

Alarm state trigger: Three radio buttons are available: 'In alarm' (selected), 'OK', and 'Insufficient data'. Each has a brief description of the trigger condition.

Send a notification to the following SNS topic:

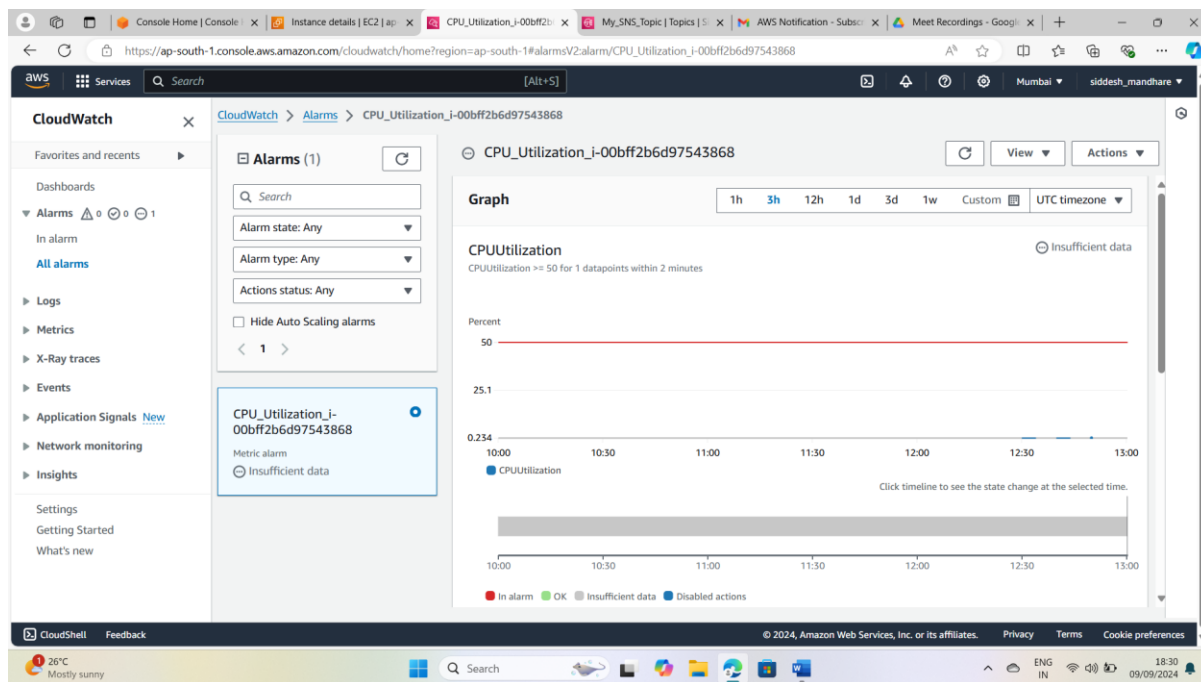
- Define the SNS (Simple Notification Service) topic that will receive the notification.
- Options: 'Select an existing SNS topic' (selected), 'Create new topic', and 'Use topic ARN to notify other accounts'.
- Search for 'My_SNS_Topic' in the dropdown menu.
- Only topics belonging to this account are listed here. All persons and applications subscribed to the selected topic will receive notifications.

Email (endpoints):

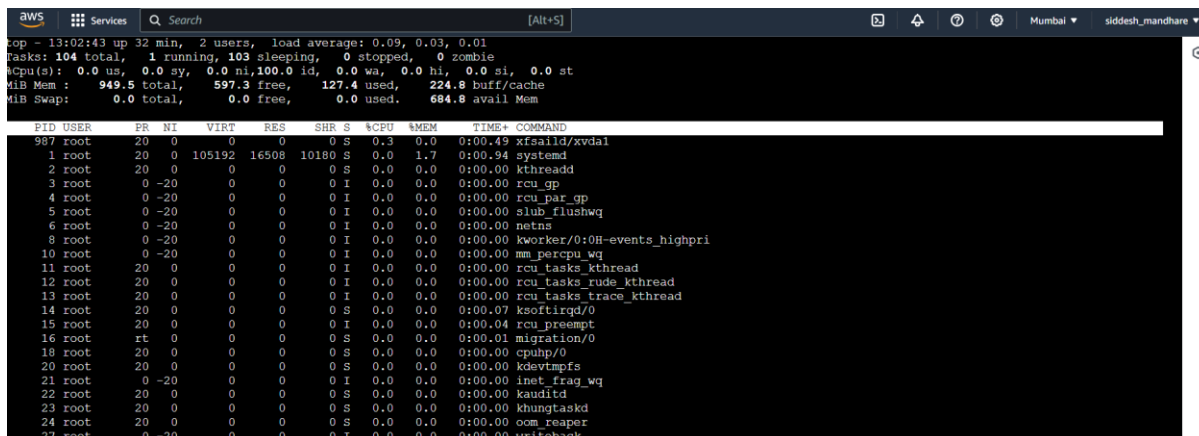
- sidmandhare3@gmail.com - View in SNS Console
- 'Add notification' button

The bottom of the console shows a status bar with 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. The system tray at the bottom indicates a temperature of 26°C and a 'Mostly sunny' weather condition.

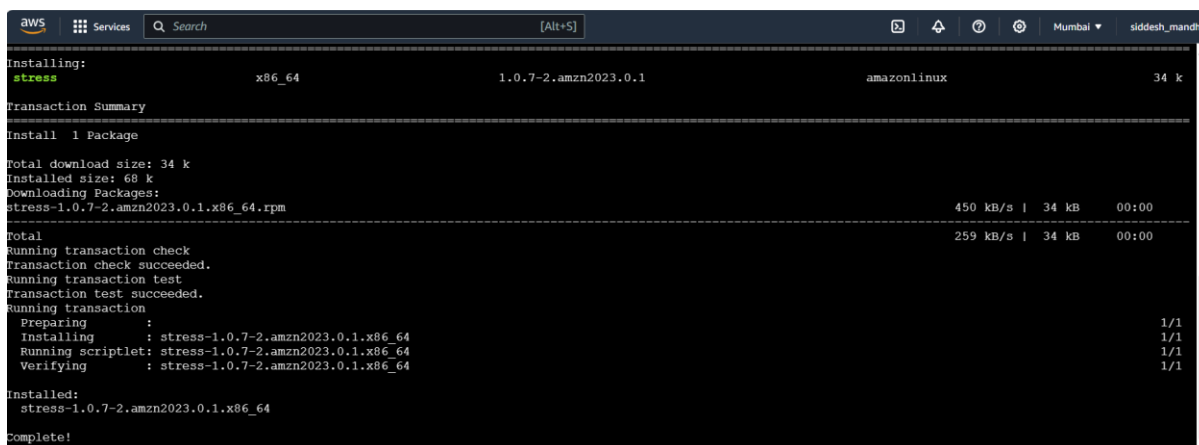
8) Alarm successfully created



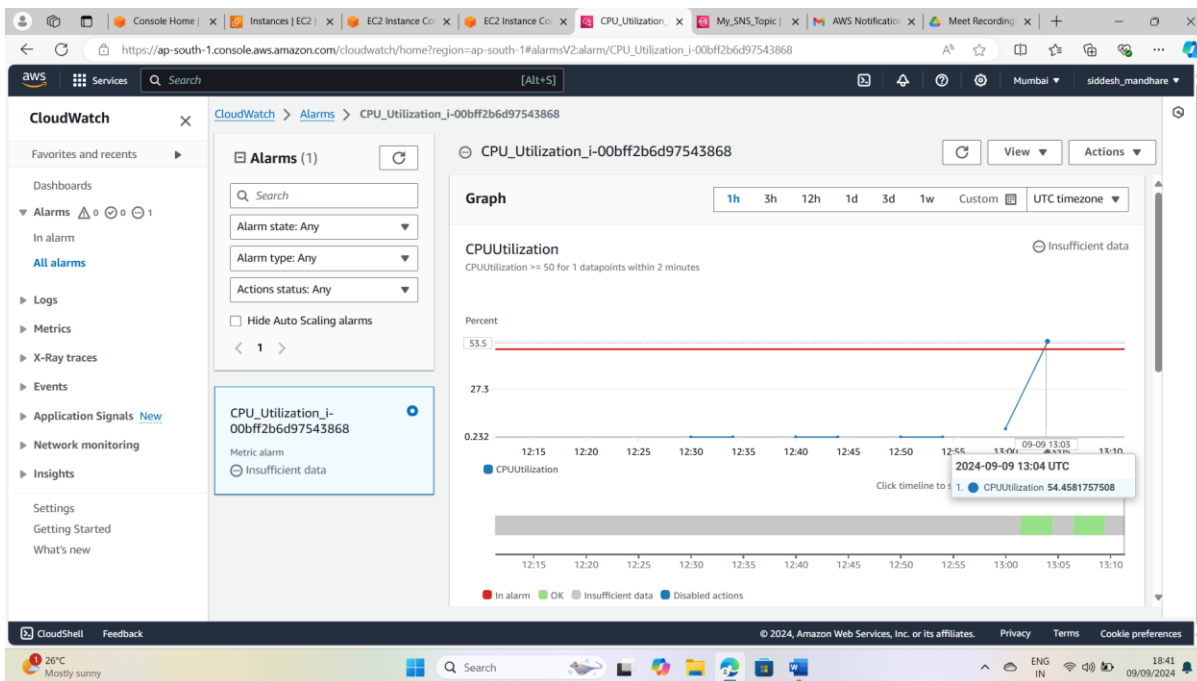
9) Goto instance and manually increase CPU utilization (sudo su, top)



10) Install stress package in Linux (yum install -y)



11) Check CPU utilization in CloudWatch alarm which we created.



12) We got alert mail.

