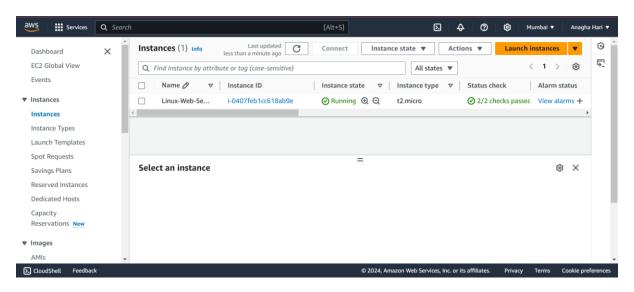
# **MONITORING**

## **ASSIGNMENT 1**

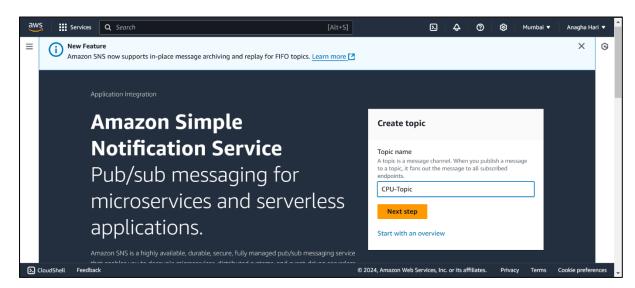
CloudWatch alarms allows one to monitor specific metrics of EC2 instances and trigger actions based on predefined thresholds.

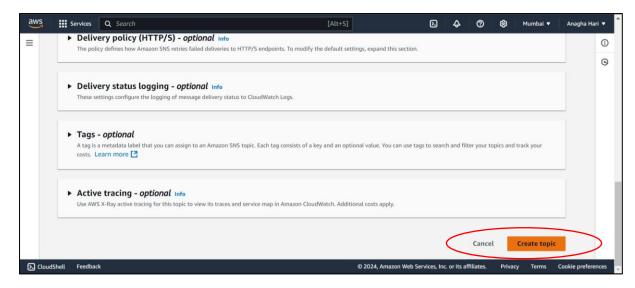
#### Launch a server



### Create a SNS topic

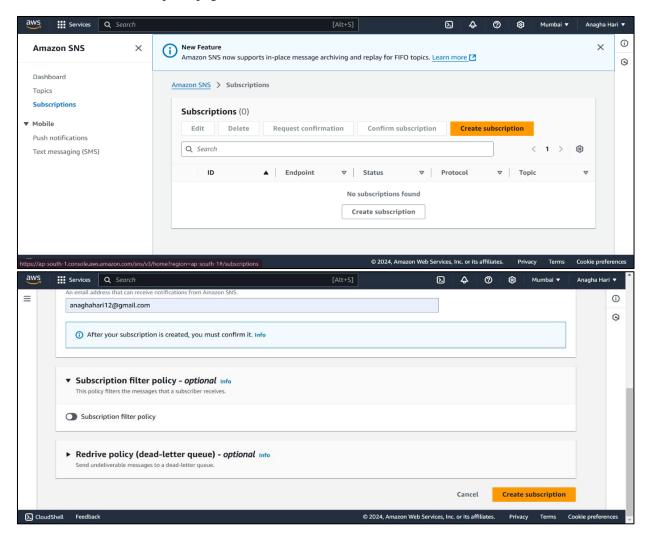
- 1. Navigate to Simple Notification Service.
- 2. Select "Create Topic".
- 3. Set the necessary settings and click on "Create Topic".

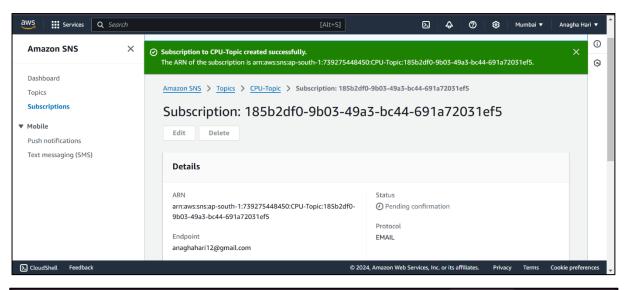


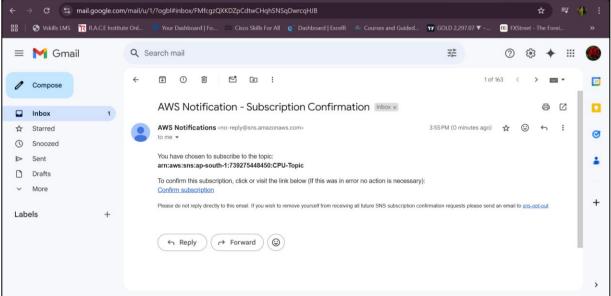


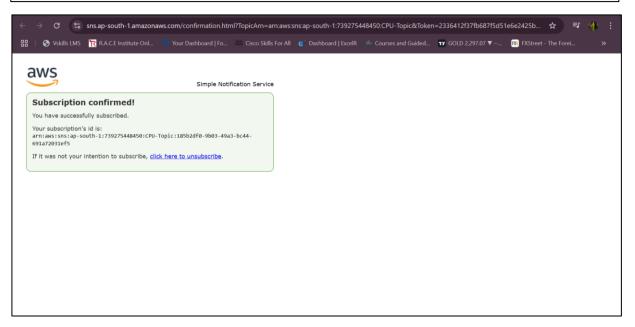
#### Creating subscription

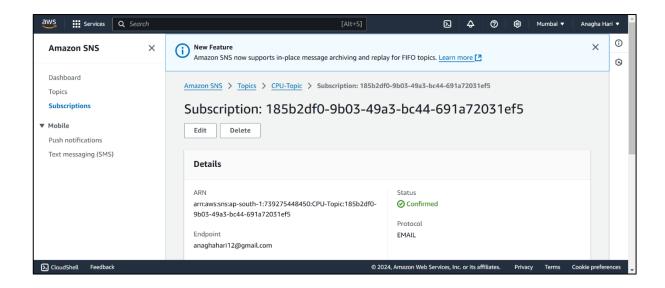
- 1. Select "Subscription" from the side pane.
- 2. Click on "create subscription".
- 3. Select protocol as email and enter the email address to which the notification should be send.
- 4. Click on "Create Subscription".
- 5. To change the pending status, login to the gmail id given and click on Confirm subscription.
- 6. Refresh the subscription page in the ASW console to see the status.





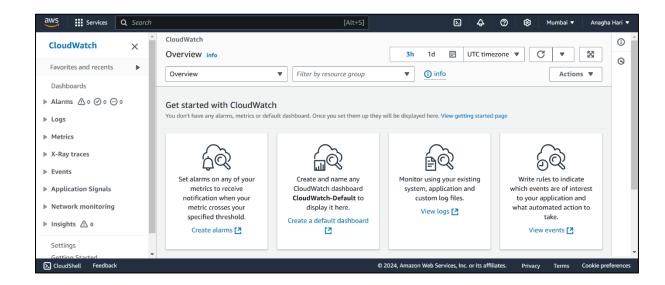


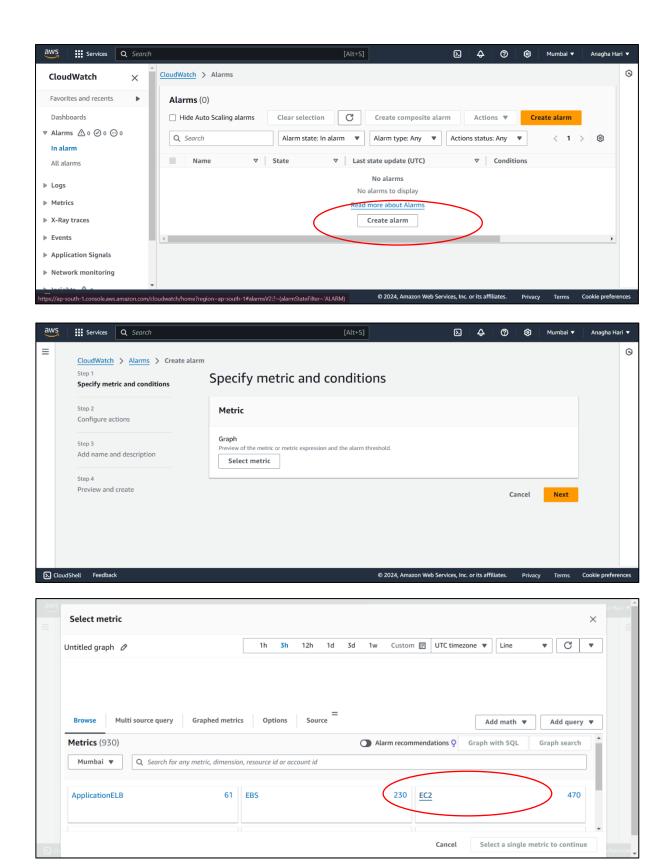




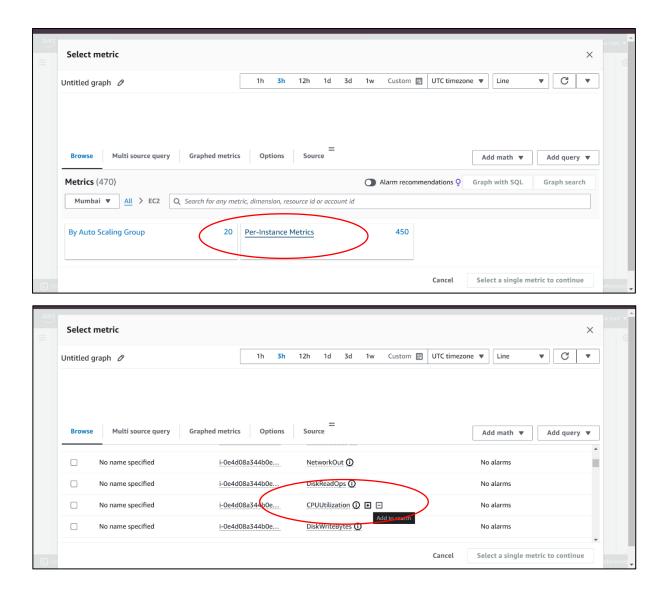
#### Creating an Alarm

- 1. In the AWS console search for CloudWatch and open the services.
- 2. Select "In Alarms".
- 3. Click on "Create Alarms".
- 4. Specify the metrics and Dimensions.
- 5. Set the Alarm Thresholds.
- 6. Configure alarm actions.
- 7. Create an automation document.
- 8. Associate the automation document with alarm actions.



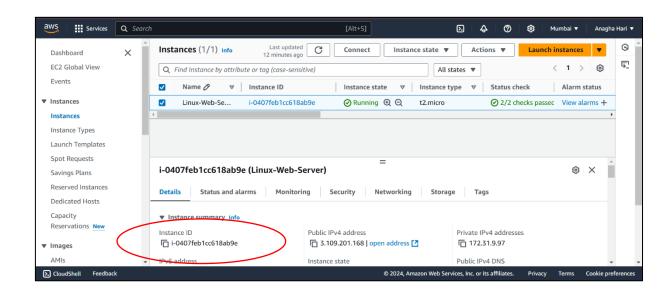


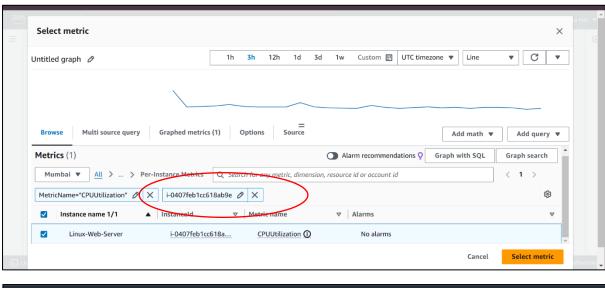
Select EC2 metrics and then the pre-instance metrics.

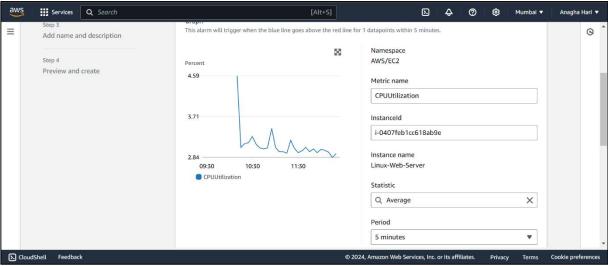


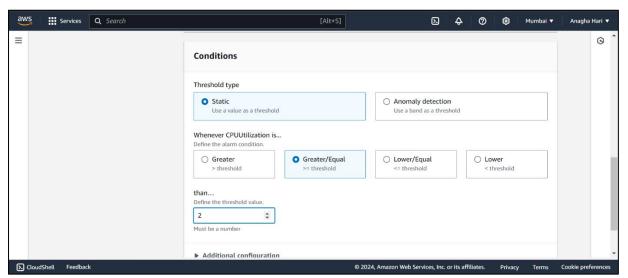
#### Select CPUUtilization and add metrics.

Go to the instance and copy the instance ID and paste it on the search of metrics page in cloudwatch.

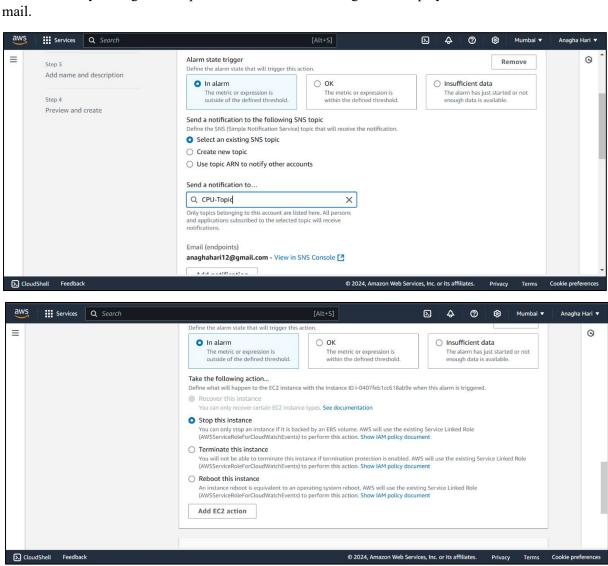


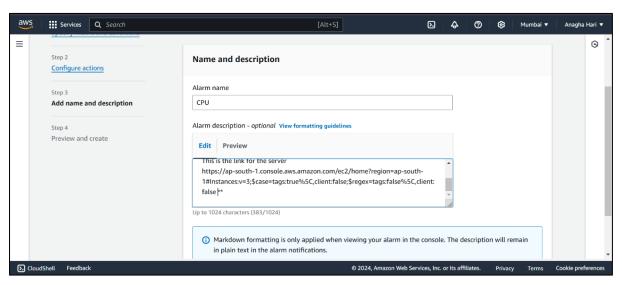




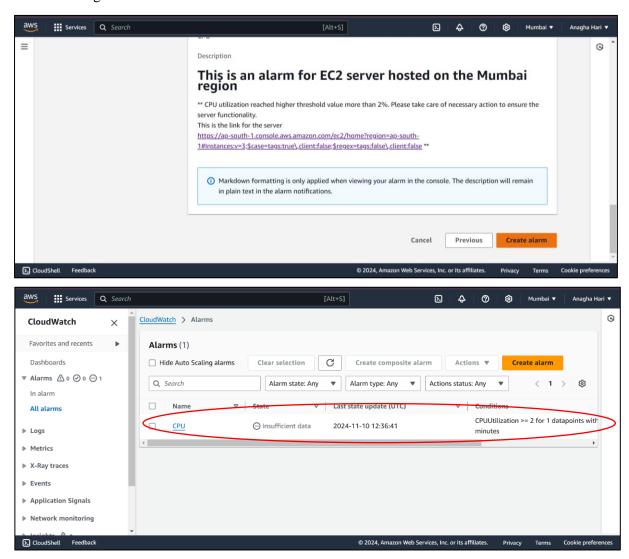


Make necessary settings add stop instance action and message to be displayed as the notification in mail



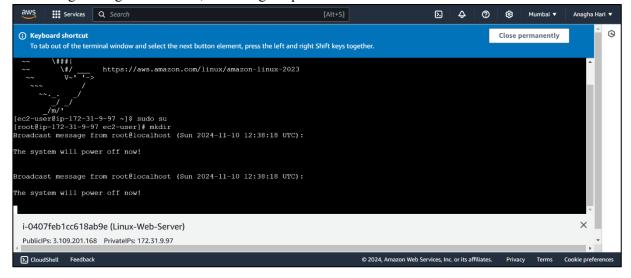


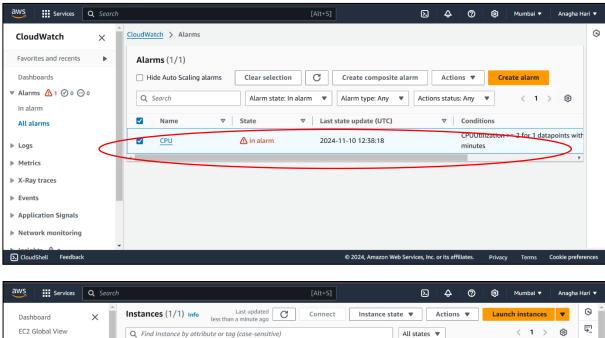
Review settings and click on create alarm. The alarm created can be seen in the all alarms section.

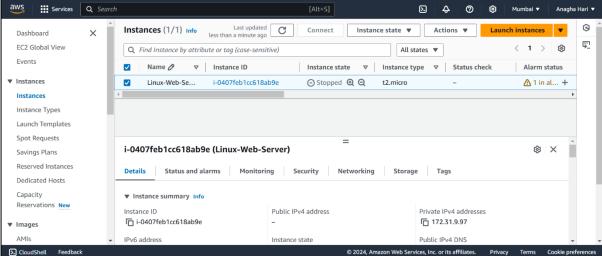


Go to the instance and connect it to the server.

A warning message can be seen, indicating the production of an alarm.







The instance has been stopped as it exceed CPUUtilization value.