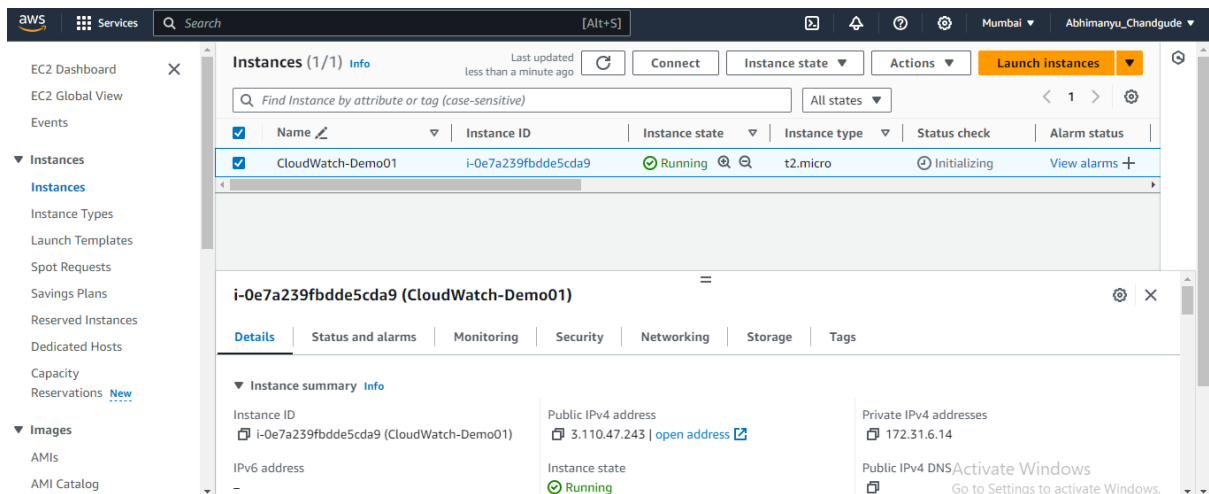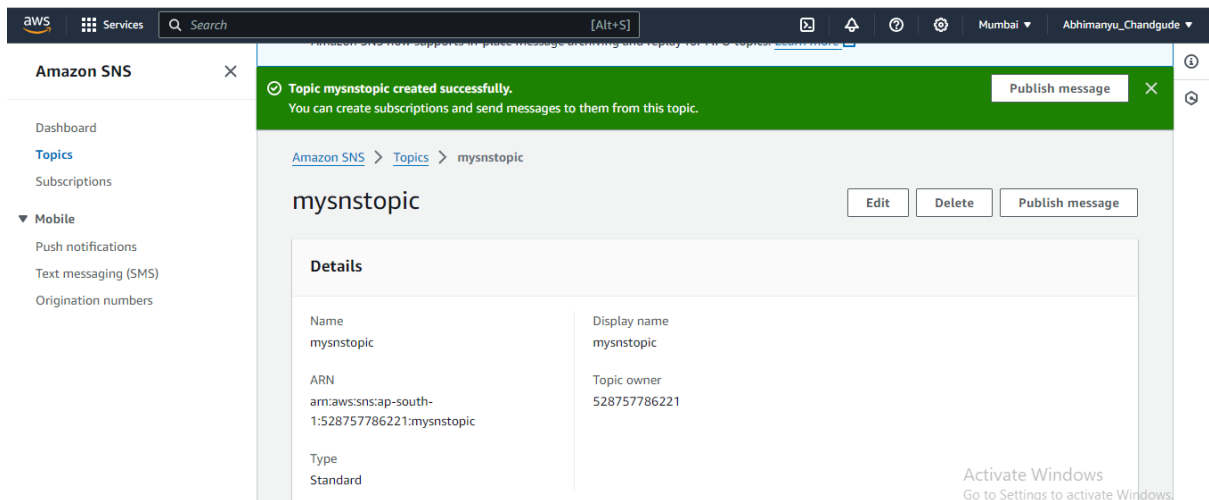# 09th September 2024 – CloudWatch

> **Monitor the CPU utilization of instance and set threshold of CPU utilization greater than 80% and send a alert via SNS (Simple Notification Service).**
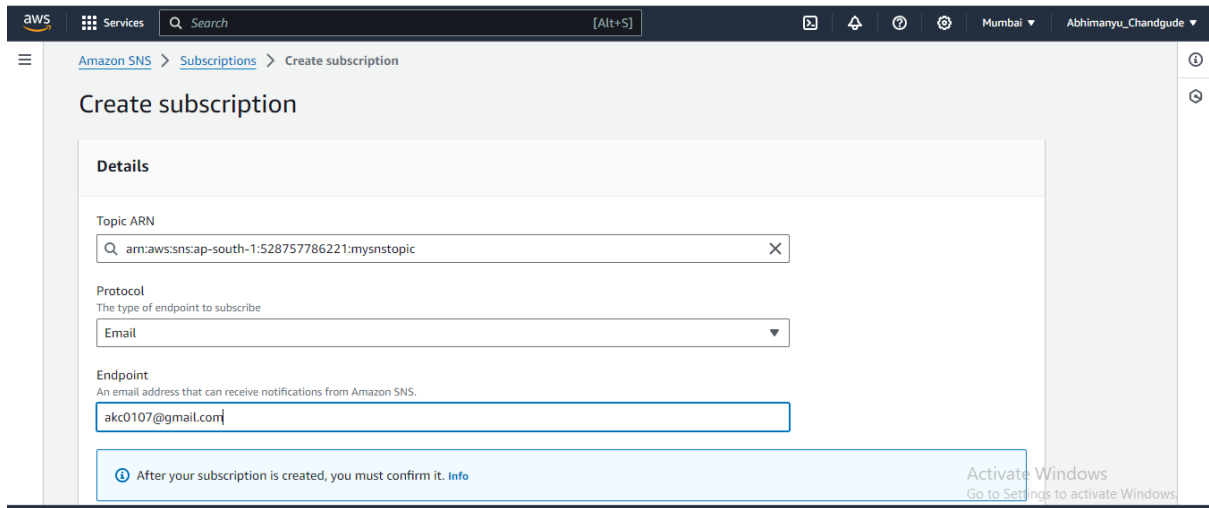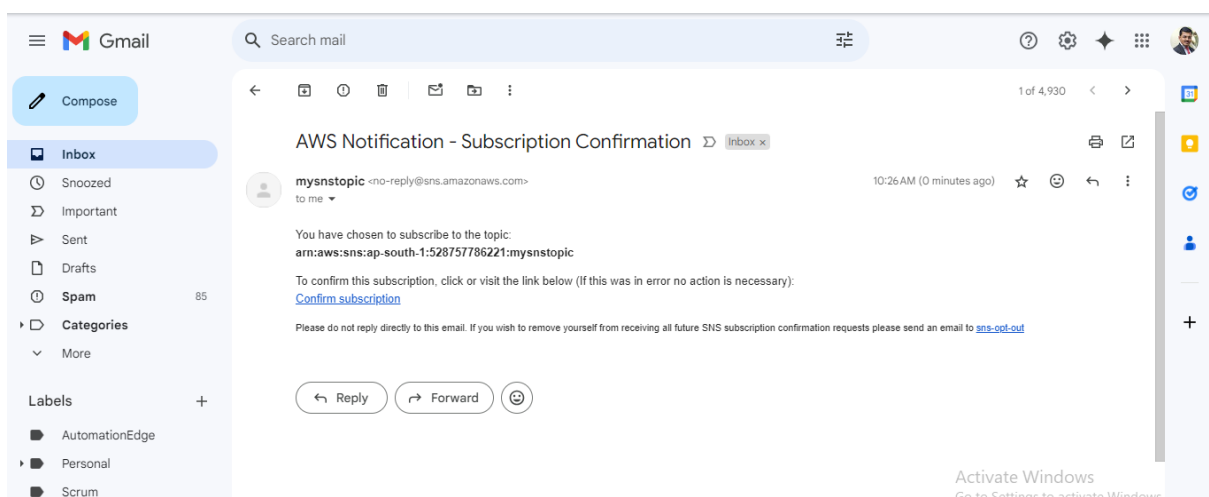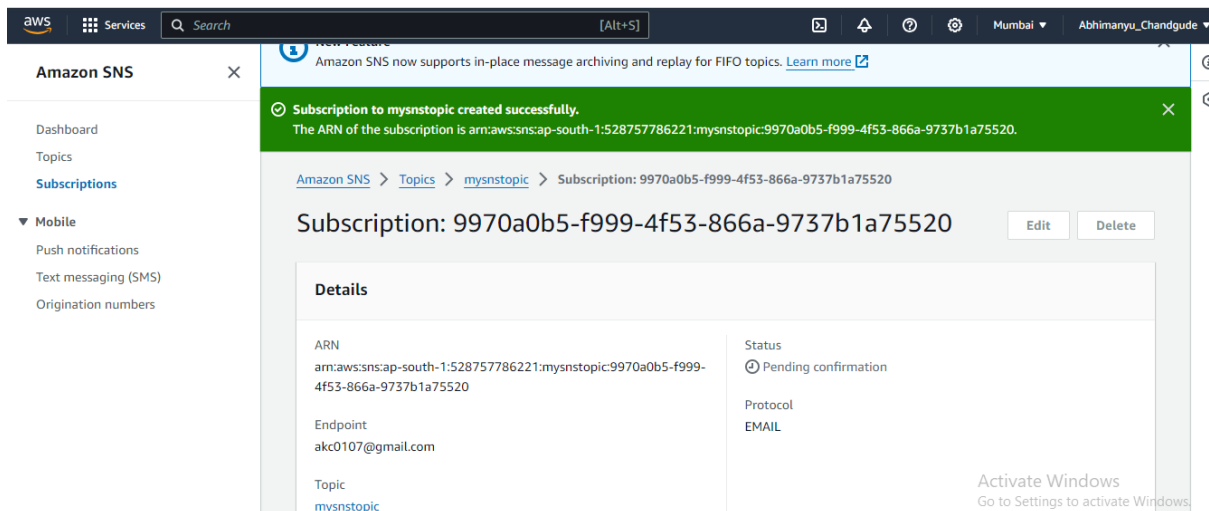
1) Create instance

2) Bydefault there is no alarm, to set alarm go to SNS service and create topic first

3) Create Subscription

4) After creating subscription, got email for confirmation

5) Subscription confirmed

Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:
arn:aws:sns:ap-south-1:528757786221:mysnstopic:9970a0b5-f999-4f53-866a-9737b1a75520

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

6) After confirmation, status will change to "Confirmed"

7) Now go to "CloudWatch" service and create alarm
   a. Specify metric and condition

b. Configure actions

c. Add name and description

d. Created alarm Successfully

e. CPU Utilization

8) To increase CPU utilization installed stress package with below steps:
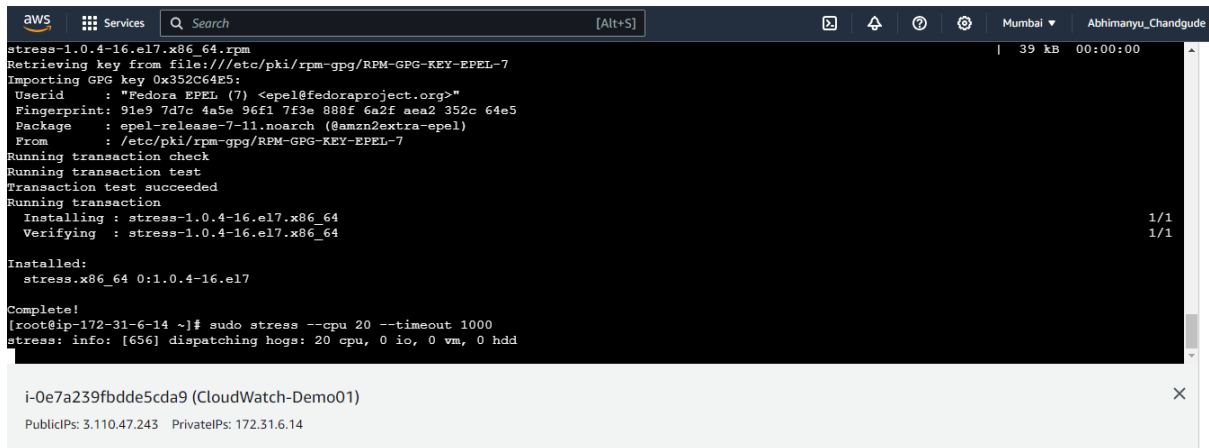
{

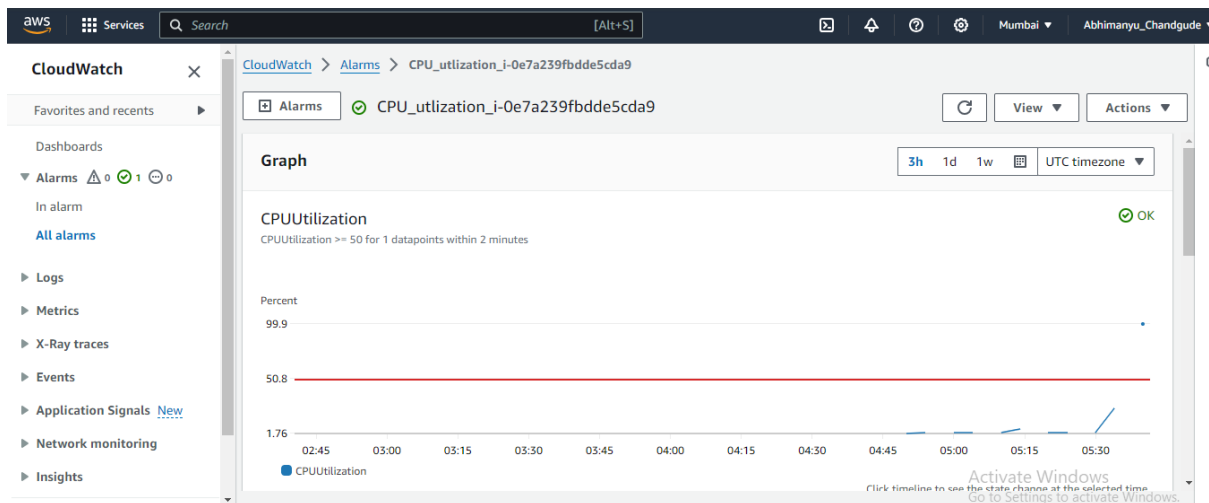1. sudo amazon-linux-extras install epel -y
2. sudo yum install stress -y

}

9) We can see CPU Utilization is in Alarm state

> ➢ **Install CloudAgent using bootstrapping and create dashboard of Utilization**

1) Create IAM role (EC2-CloudWatch-Role) with CloudWatchFullAccess and SSM
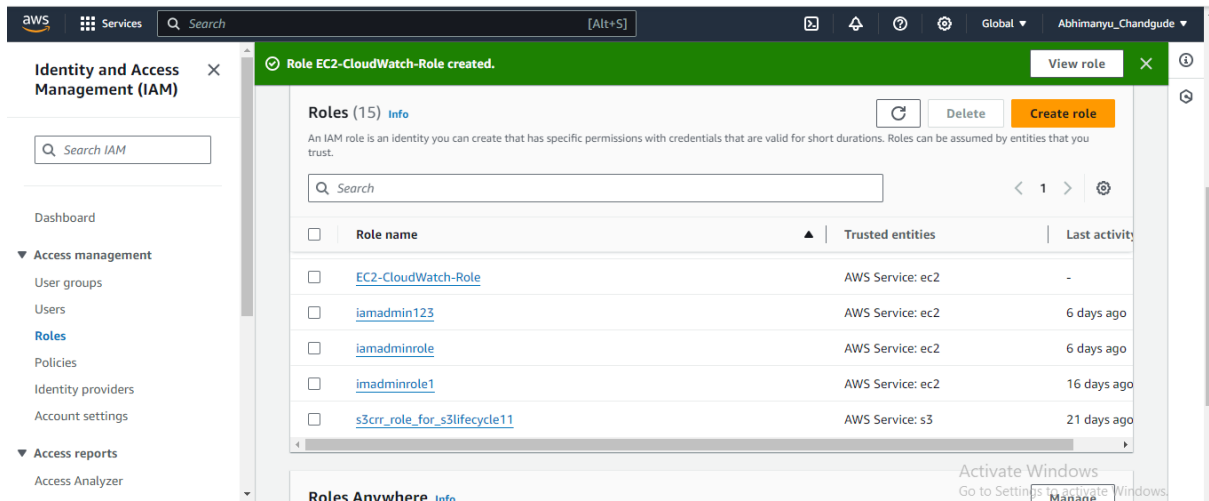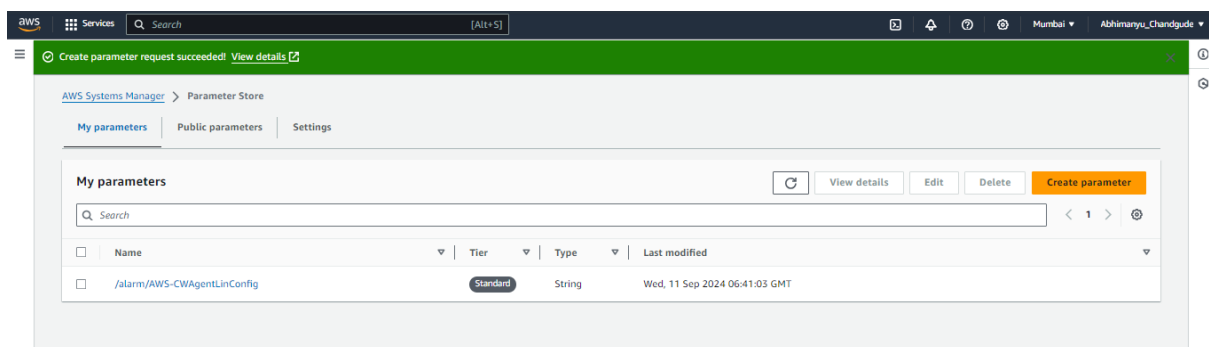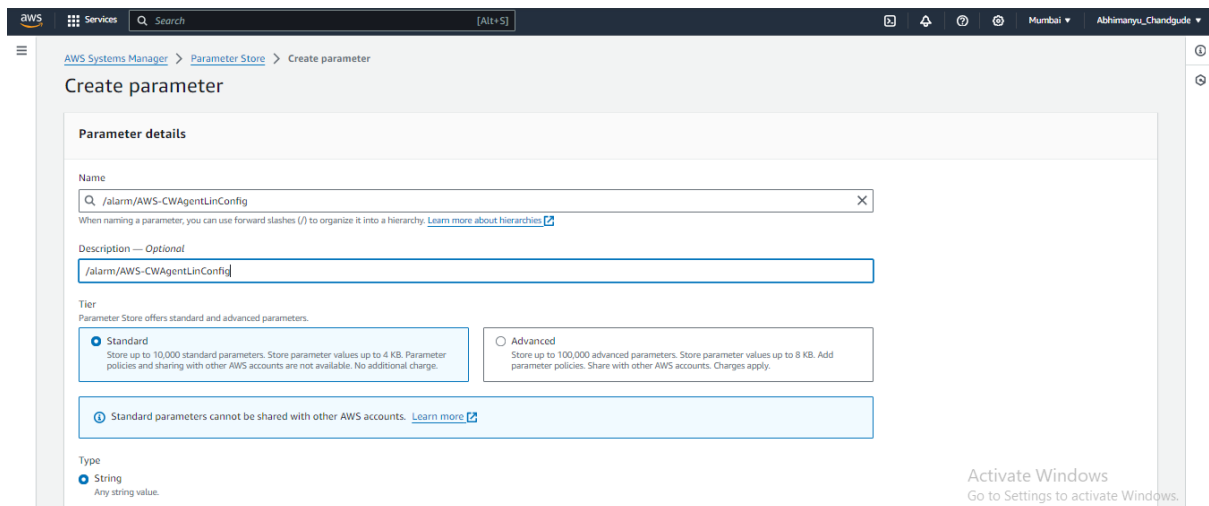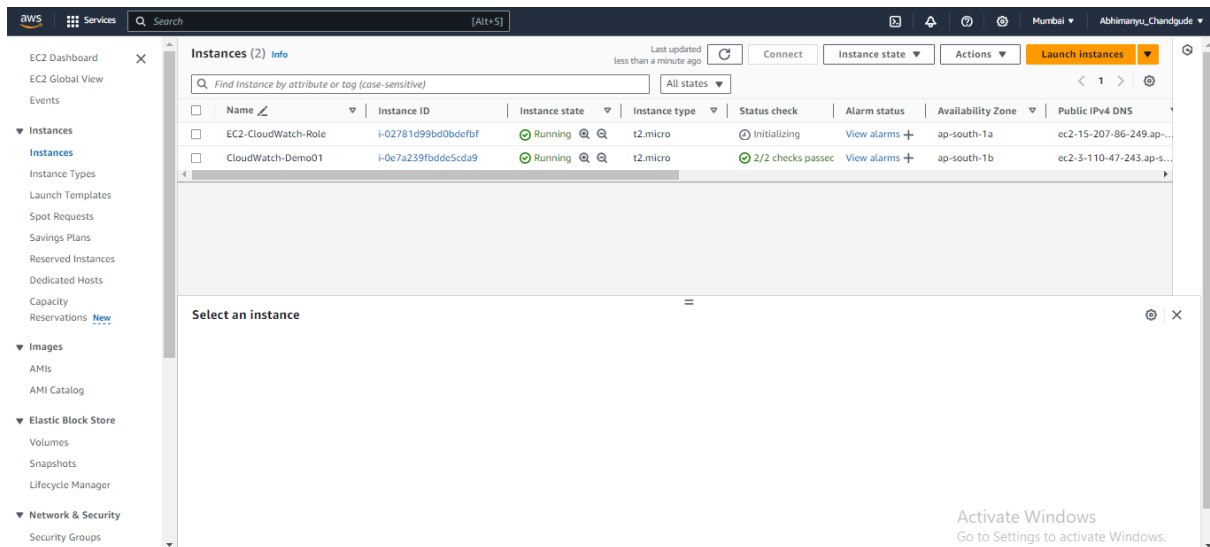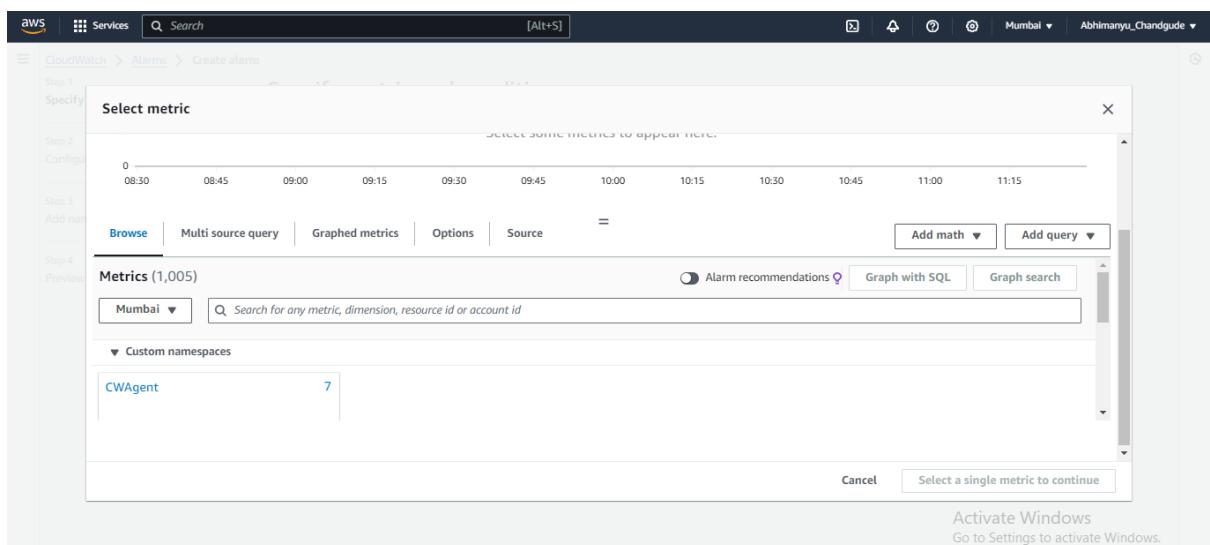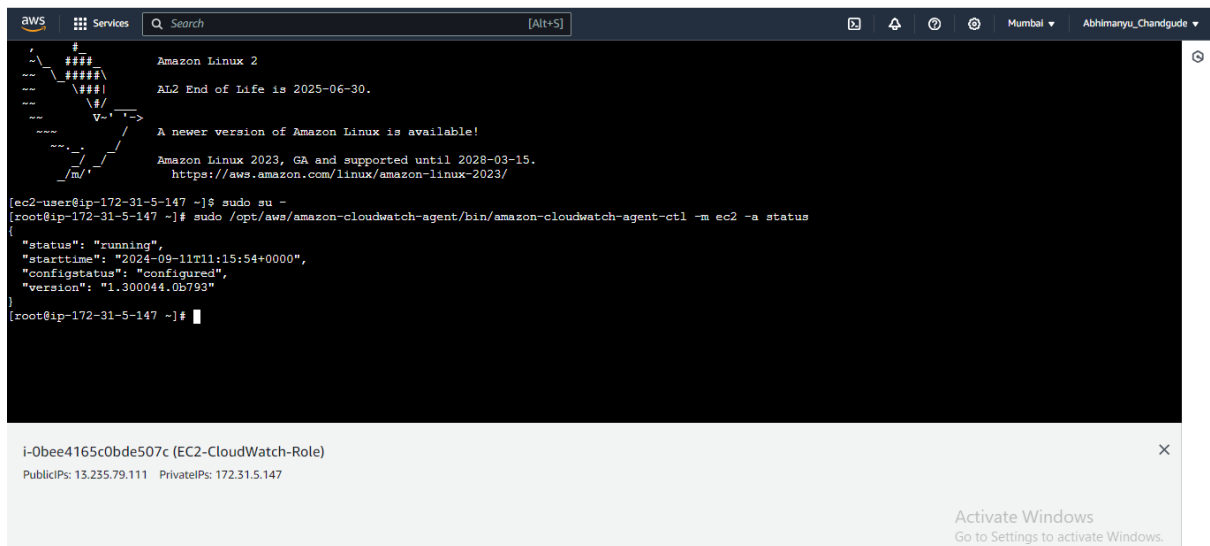
2) Create a parameter in System Manager with the name "/alarm/AWS-CWAgentLinConfig" and store the value

3) Create EC2 Instance (EC2-CloudWatch-Role)

4) Check the CloudWatch Agent is installed or not

5) Created one dashboard as "EC2" and add metrics