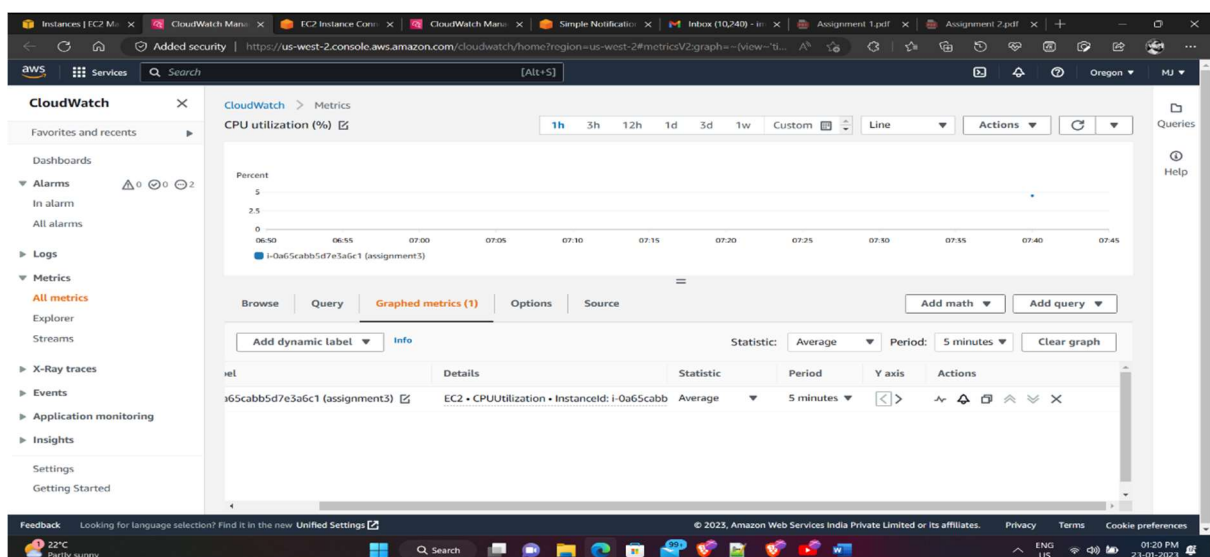
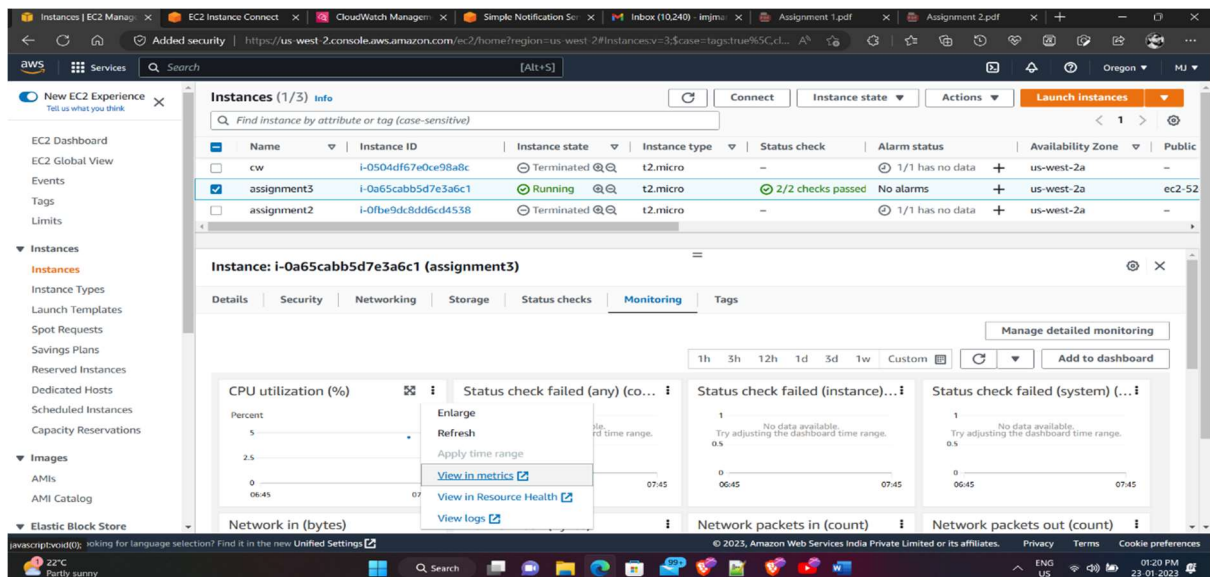


Assignment 3

To create an alarm to reboot an instance and recover an instance (Amazon EC2 console)

- In this document I have shown how to reboot instance using cloudwatch.
- Recovering couldn't be shown because there were no errors in the status check.
- I have created an alarm so that if there is no activity in the instance or the CPU usage falls below lower than 0.99% for a whole minute the instance will be rebooted.
- To create the alarm, I've followed the same steps followed in the assignment 1 and 2 but choose the EC2 Action as reboot in the step 2.



Instances | EC2 M... x CloudWatch Man... x EC2 Instance Con... x CloudWatch Man... x Simple Notificati... x Inbox (10,240) x Assignment 1.pdf x Assignment 2.pdf x + -

Added security | https://us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create/\$7B522met... A^

Search [Alt+S] Oregon MJ

conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Metric

Graph
This alarm will trigger when the blue line goes below the red line for 1 datapoints within 1 minute.

Percent
5
4.54
4.09
05:30 06:30 07:30
i-0a65cab5d7e3a6c1 (assignment3)

Namespace
AWS/EC2

Metric name
CPUUtilization

InstanceId
i-0a65cab5d7e3a6c1

Instance name
assignment3

Statistic
Average

Period
1 minute

Conditions

Feedback Looking for language selection? Find it in the new Unified Settings

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

22°C Partly sunny

Instances | EC2 M... x CloudWatch Man... x EC2 Instance Con... x CloudWatch Man... x Simple Notificati... x Inbox (10,240) x Assignment 1.pdf x Assignment 2.pdf x + -

Added security | https://us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create/\$7B522met... A^

Search [Alt+S] Oregon MJ

Period
1 minute

Conditions

Threshold type
☒ Static Use a value as a threshold ☐ Anomaly detection Use a band as a threshold

Whenever CPUUtilization is...
Define the alarm condition.
☐ Greater >= threshold ☐ Greater/Equal >= threshold ☐ Lower/Equal <= threshold ☒ Lower < threshold

than...
Define the threshold value.
0.99
Must be a number

Additional configuration

Cancel Next

Feedback Looking for language selection? Find it in the new Unified Settings

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

22°C Partly sunny

Instances | EC2 M... x CloudWatch Man... x EC2 Instance Con... x CloudWatch Man... x Simple Notificati... x Inbox (10,241) x Assignment 1.pdf x Assignment 2.pdf x + -

Added security | https://us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create/\$7B522met... A^

Search [Alt+S] Oregon MJ

conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Notification

Alarm state trigger
Define the alarm state that will trigger this action.
☒ In alarm The metric or expression is outside of the defined threshold. ☐ OK The metric or expression is within the defined threshold. ☐ Insufficient data The alarm has just started or not enough data is available.

Remove

Send a notification to the following SNS topic
Define the SNS (Simple Notification Service) topic that will receive the notification.
☒ Select an existing SNS topic ☐ Create new topic ☐ Use topic ARN to notify other accounts

Send a notification to...
EC2_Reboot_Instance
Only email lists for this account are available.

Email (endpoints)
imjmanoj@gmail.com - View in SNS Console

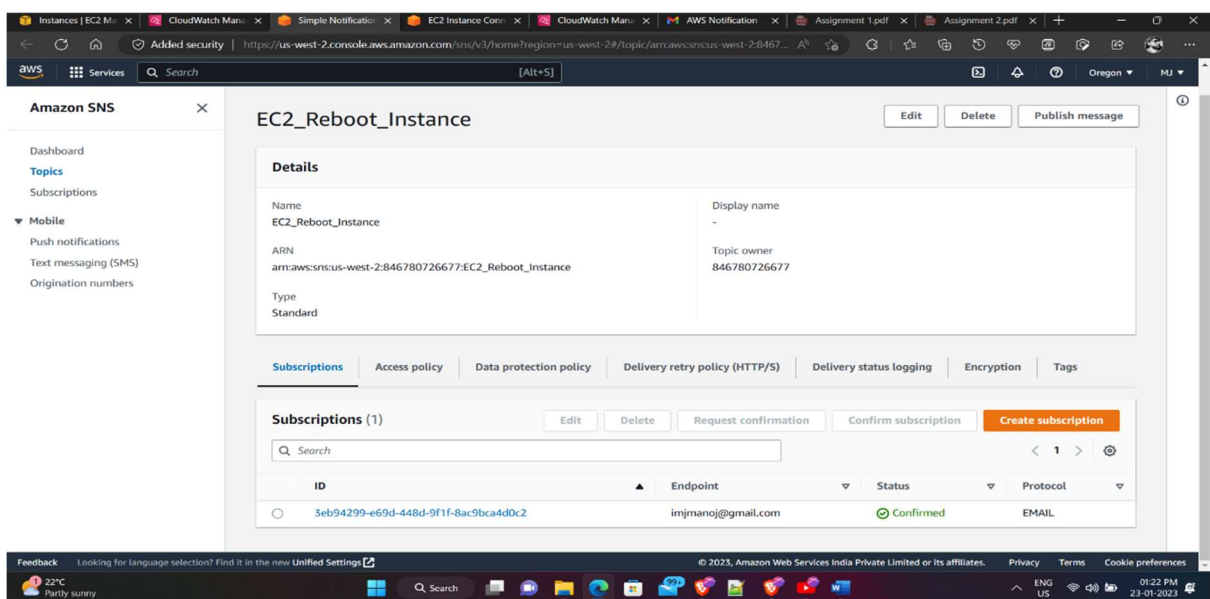
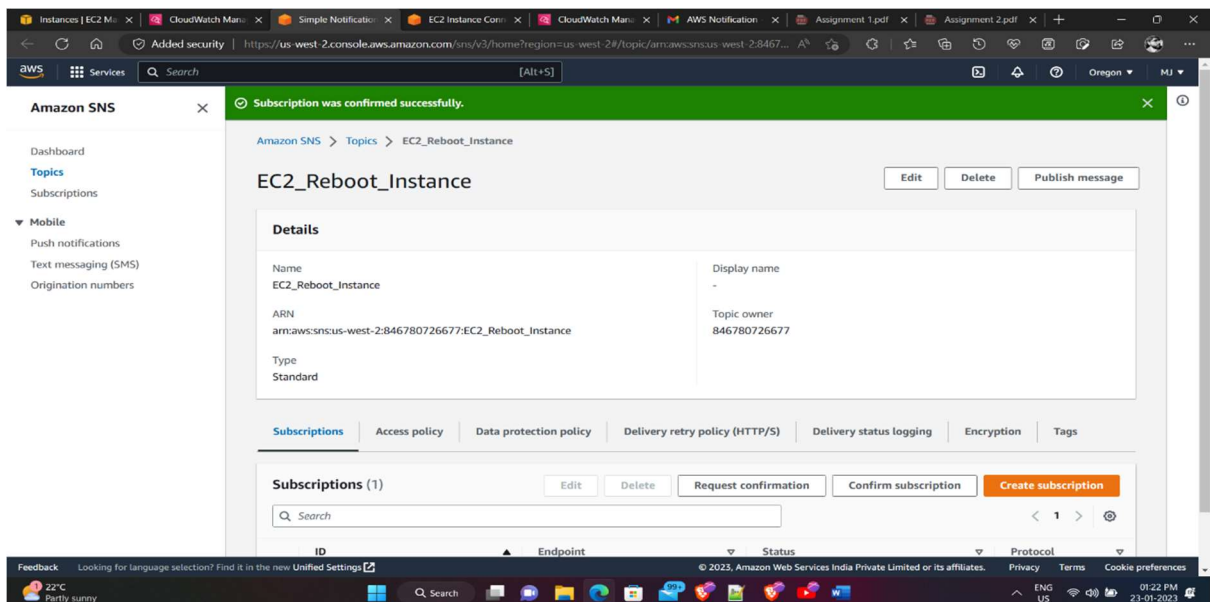
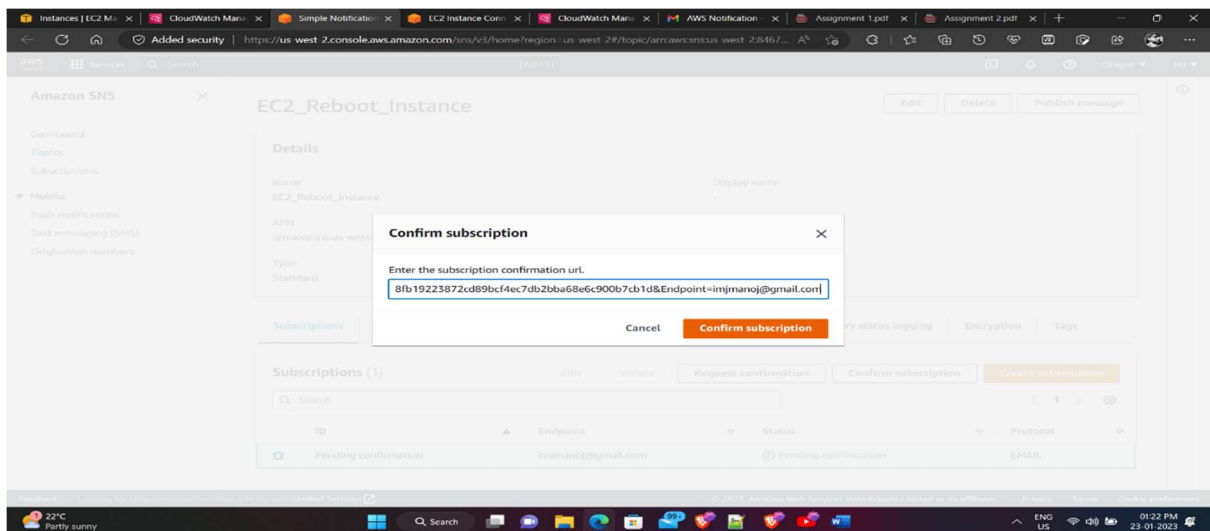
Add notification

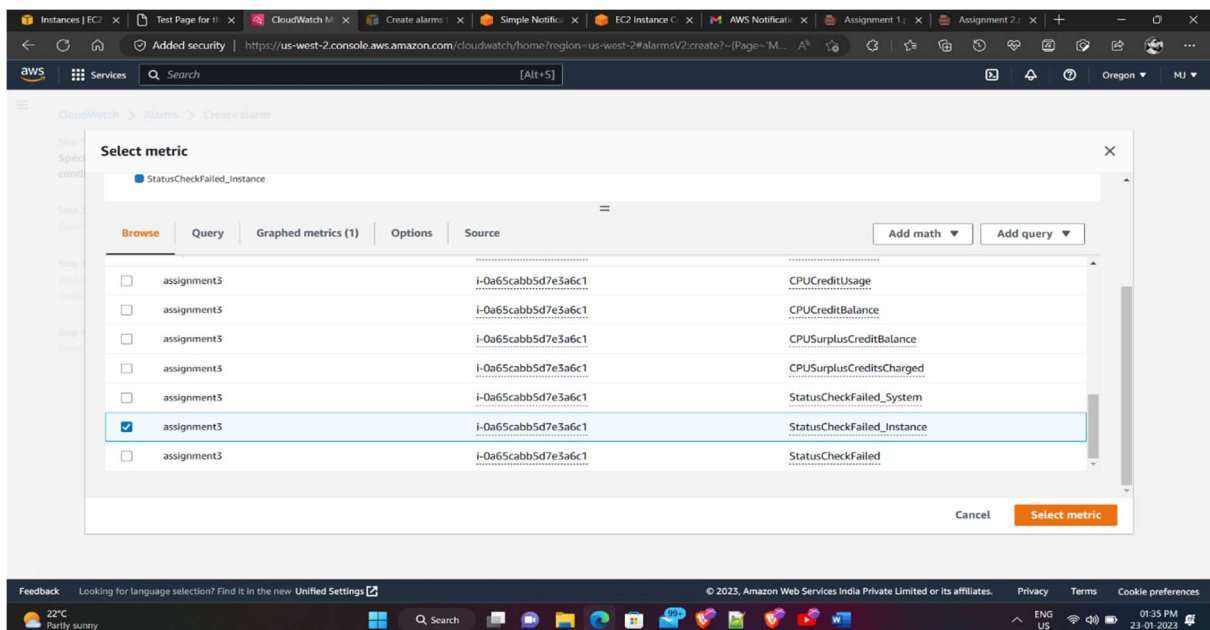
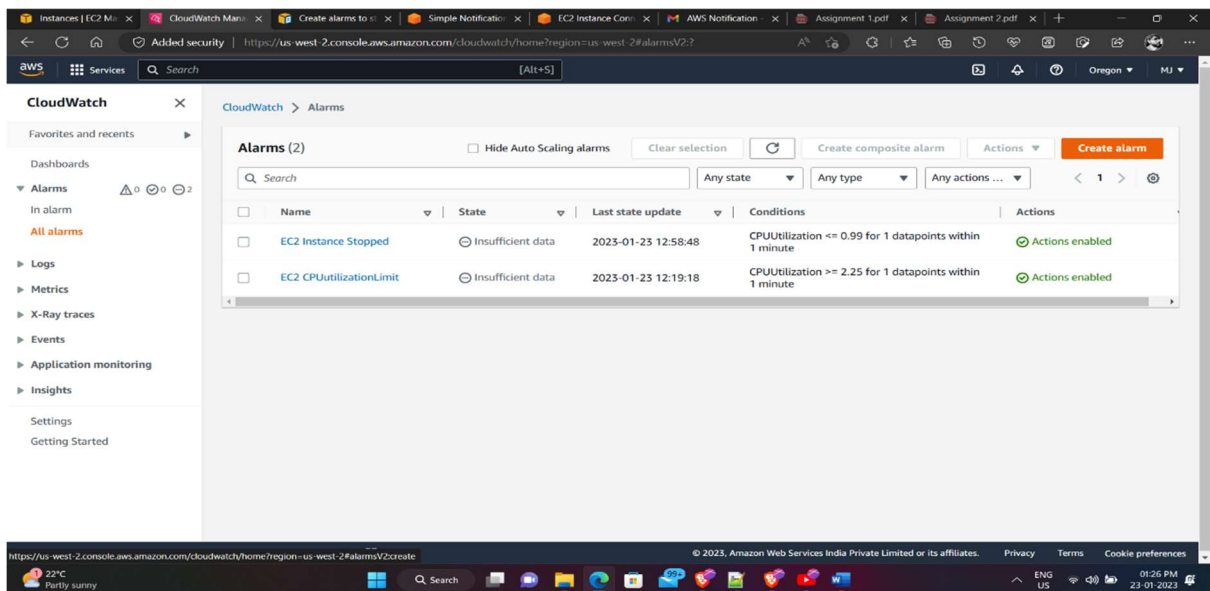
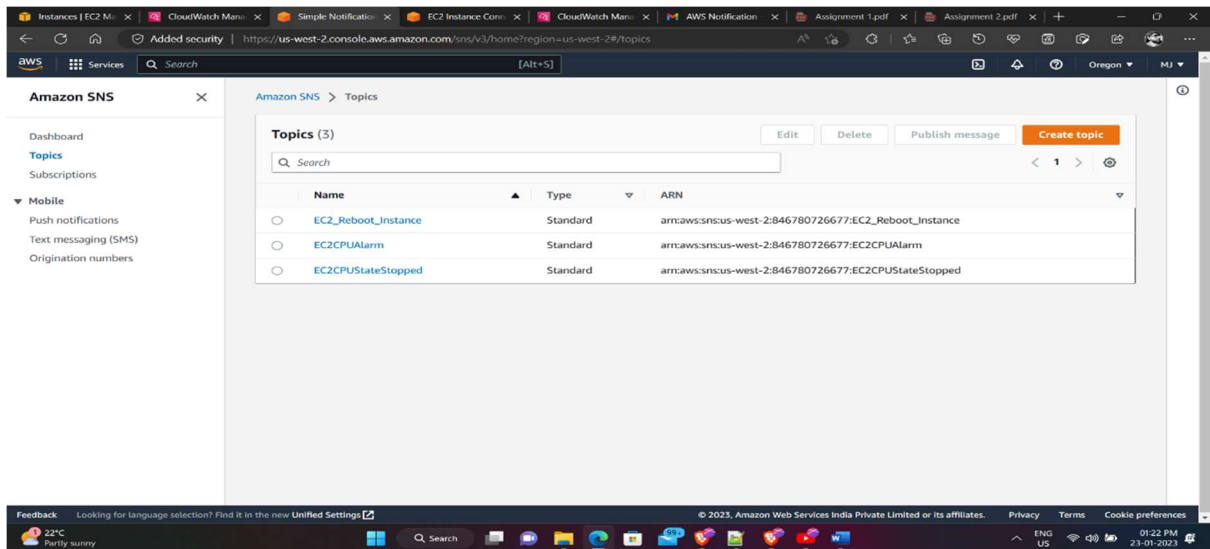
Auto Scaling action

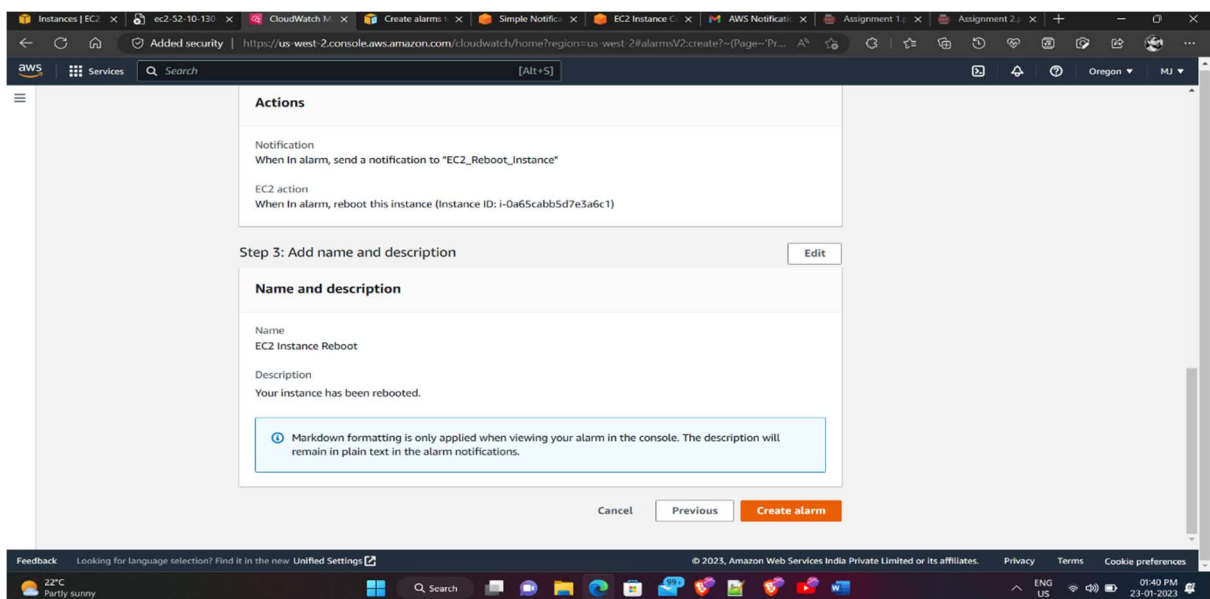
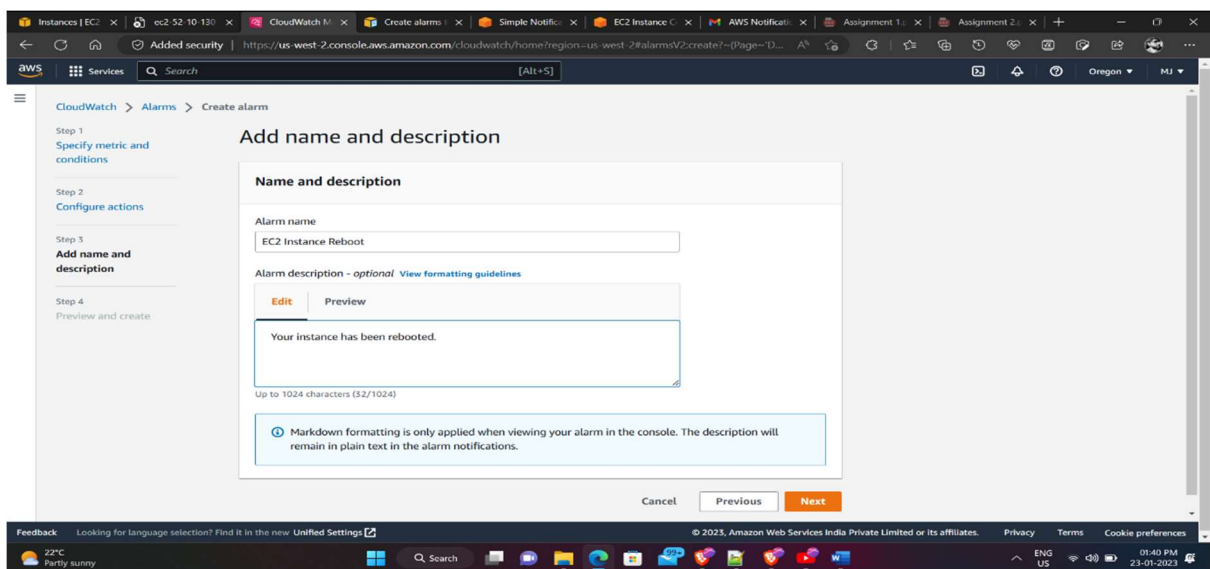
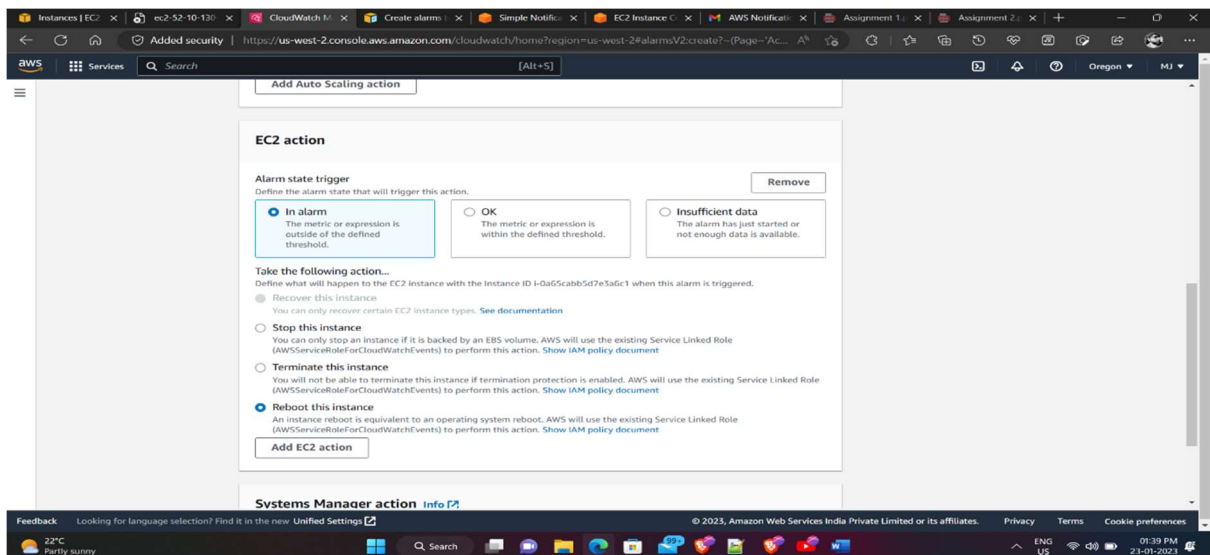
Feedback Looking for language selection? Find it in the new Unified Settings

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

22°C Partly sunny







The screenshot shows a Gmail interface with a search bar at the top. The email list on the left includes 'Compose', 'Inbox' (10,243), 'Starred', 'Snooded', 'Sent', 'Drafts', and 'More'. The main content area displays an email from 'AWS Notifications' with the subject 'ALARM: "EC2 Instance Reboot" in US West (Oregon)'. The email body contains the following information:

Alarm Details:

- Name: iK2 Instance Reboot
- Description: Your instance has been rebooted.
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [0.0 (2/30/2023 08:07:00)] was less than the threshold (0.99) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Monday, 23 January, 2023 08:11:01 UTC
- AWS Account: 846780726677
- Alarm Arn: arn:aws:cloudwatch-us-west-2:846780726677:alarm:EC2 Instance Reboot

Threshold:

- The alarm is in the ALARM state when the metric is LessThanThreshold 0.99 for at least 1 of the last 1 period(s) of 60 seconds.

Monitoring Metric:

- MetricNamespace: AWS/EC2
- MetricName: StatusCheckFailed_Instance
- Dimensions: [InstanceId=i-005c3e6bdf9a3e6c11]
- Period: 60 seconds
- Statistic: Average
- Unit: not specified
- TreeMissingData: missing

State Change Actions:

- OK: ALARM [arn:aws-us-west-2:846780726677:EC2_Reboot_Instance][arn:aws-us-west-2:846780726677:cloudwatch:us-west-2:846780726677:alarm:EC2_Instance_Reboot.1.0]
- INSUFFICIENT_DATA:

At the bottom of the email, there is a link to unsubscribe from notifications.