

*Select EC2 instance

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances. The main content area displays a list of EC2 instances. A green notification bar at the top indicates that instance 'i-018abcd37261a63ca' has been successfully started. The instance list table shows the following details:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	redhat	i-06be64bc47f1896a7	Stopped	t2.micro	-	No alarms	ap-south-
<input type="checkbox"/>	ubuntu_devops	i-018abcd37261a63ca	Running	t2.micro	-	No alarms	ap-south-
<input type="checkbox"/>	ubuntu2	i-02ac15f9746da9bb3	Stopped	t2.micro	-	No alarms	ap-south-

A modal window titled 'Select an instance' is open at the bottom of the console, showing a search bar and a list of instances.

Select cloud watch service:- monitor your EC2 instance

The screenshot displays the AWS CloudWatch Alarms console. The left sidebar contains navigation links for CloudWatch, Favorites and recents, Dashboards, Alarms (with 0 in alarm, 0 All alarms, 0 Logs, 0 Metrics, 0 X-Ray traces, 0 Events, 0 Application monitoring, and 0 Insights), Settings, and Getting Started. The main content area is titled 'Alarms (0)' and includes a search bar, a 'Hide Auto Scaling alarms' checkbox, a 'Clear selection' button, a refresh button, a 'Create composite alarm' button, an 'Actions' dropdown, and a prominent orange 'Create alarm' button. Below these controls is a table with columns for Name, State, Last state update, Conditions, and Actions. The table is currently empty, displaying 'No alarms' and 'No alarms to display'. A link to 'Read more about Alarms' and a 'Create alarm' button are also present. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 4:08 PM on 5/24/2022.

CloudWatch Management Console

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:~(alarmStateFilter~'ALARM)

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Mumbai narmadareddy

CloudWatch

Favorites and recents

Dashboards

Alarms 0 0 0

In alarm

All alarms

Logs

Metrics

X-Ray traces

Events

Application monitoring

Insights

Settings

Getting Started

CloudWatch > Alarms

Alarms (0)

☐ Hide Auto Scaling alarms Clear selection Refresh Create composite alarm Actions Create alarm

Search In alarm Any type < 1 > Settings

	Name	State	Last state update	Conditions	Actions
No alarms					
No alarms to display					
Read more about Alarms					
Create alarm					

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4:08 PM 5/24/2022

Create alarm for your EC2 instance:-Monitoring

The screenshot shows the AWS CloudWatch Management Console in a web browser. The browser's address bar shows the URL: `ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlar...`. The page title is "Specify metric and conditions". On the left, a sidebar lists four steps: "Step 1: Specify metric and conditions" (active), "Step 2: Configure actions", "Step 3: Add name and description", and "Step 4: Preview and create". The main content area has a "Metric" section with a "Graph" sub-section. The "Graph" section contains the text "Preview of the metric or metric expression and the alarm threshold." and a "Select metric" button. At the bottom right of the main content area are "Cancel" and "Next" buttons. The footer of the page includes a "Feedback" link, a language selection prompt, a copyright notice for 2022, and links for "Privacy", "Terms", and "Cookie preferences". The Windows taskbar at the bottom shows the search bar and various application icons, including the Start menu, task view, and several open applications like Chrome, Edge, and the Windows Store.

CloudWatch > Alarms > Create alarm

Step 1
Specify metric and conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Specify metric and conditions

Metric

Graph
Preview of the metric or metric expression and the alarm threshold.

Select metric

Cancel Next

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4:08 PM 5/24/2022

Select metric:-EC2

The screenshot shows the AWS CloudWatch Management Console interface. The main window is titled "Select metric" and contains a graph area with the text "Your CloudWatch graph is empty. Select some metrics to appear here." Below the graph, there are tabs for "Browse", "Query", "Graphed metrics", "Options", and "Source". The "Browse" tab is selected, showing a list of metrics (128) with a search bar. The list includes "EBS" (36), "EC2" (51), and "Logs" (2). At the bottom, there are "Cancel" and "Select a single metric to continue" buttons.

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EC2metric:-it has 17 monitorings

The screenshot displays the AWS CloudWatch 'Select metric' interface. At the top, a message states: 'Your CloudWatch graph is empty. Select some metrics to appear here.' Below this, there are tabs for 'Browse', 'Query', 'Graphed metrics', 'Options', and 'Source'. The 'Browse' tab is selected, showing a search bar with the text 'Search for any metric, dimension or resource id'. Below the search bar, a box displays 'EC2 > Per-Instance Metrics' with a count of 17. At the bottom of the dialog, there are 'Cancel' and 'Select a single metric to continue' buttons.

Select Ec2:-CPU Utilization metric

The screenshot shows the AWS CloudWatch 'Select metric' dialog. At the top, there's a line graph showing a data point at 10:30. Below the graph are tabs for 'Browse', 'Query', 'Graphed metrics (1)', 'Options', and 'Source'. The 'Browse' tab is active, showing a breadcrumb path: 'All > EC2 > Per-Instance Metrics'. A search bar contains the text 'Search for any metric, dimension or resource id'. Below the search bar, a filter box shows 'i-018abcd37261a63ca'. A table lists metrics for the instance 'i-018abcd37261a63ca'. The table has columns for 'Instance name (17)', 'InstanceId', and 'Metric name'. The selected row is 'ubuntu_devops' with 'CPUUtilization' as the metric name. At the bottom right, there are 'Cancel' and 'Select metric' buttons.

Select metric

1.8
1.6
07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30

Browse | Query | Graphed metrics (1) | Options | Source

Metrics (17) Graph with SQL Graph Search

All > EC2 > Per-Instance Metrics

<input type="checkbox"/>	Instance name (17)	InstanceId	Metric name
<input type="checkbox"/>	ubuntu_devops	i-018abcd37261a63ca	networkPacketsOut
<input checked="" type="checkbox"/>	ubuntu_devops	i-018abcd37261a63ca	CPUUtilization

Cancel **Select metric**

Step1:-in alarm create monitor per minute

The screenshot displays the AWS CloudWatch console interface for creating a new alarm. The browser tabs include WhatsApp, Instances | EC2 Management Console, and CloudWatch Management Console. The URL is `ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlar...`. The AWS Services navigation bar is visible at the top.

Step 3: Add name and description

Step 4: Preview and create

Monitor Configuration:

- Namespace:** AWS/EC2
- Metric name:** CPUUtilization
- InstanceId:** i-018abcd37261a63ca
- Instance name:** ubuntu_devops
- Statistic:** Average
- Period:** 1 minute

Graph: A line graph showing CPU utilization over time. The y-axis is labeled 'Percent' and ranges from 1.7 to 2.0. The x-axis shows time from 08:30 to 10:30. A red horizontal threshold line is set at 2.0 percent. A single data point is visible at 10:30, slightly below the threshold.

Conditions:

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Windows taskbar: Type here to search, 99+ notifications, 4:12 PM 5/24/2022

Step2:-select Cpu utilization limit

The screenshot displays the AWS CloudWatch 'Create Alarm' wizard. The browser tabs include WhatsApp, Instances | EC2 Management Console, and CloudWatch Management Console. The URL is `ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~MetricSelection~AlarmType~MetricAlar...`. The AWS Services bar is visible with a search prompt: "Search for services, features, blogs, docs, and more [Alt+S]".

The wizard is currently on the 'Static' tab, which uses a value as a threshold. The configuration is as follows:

- Whenever CPUUtilization is...**
Define the alarm condition.
 - ☐ Greater > threshold
 - ☒ Greater/Equal >= threshold
 - ☐ Lower/Equal <= threshold
 - ☐ Lower < threshold
- than...**
Define the threshold value.
 - Input: 50
 - Must be a number
- Additional configuration**
 - Datapoints to alarm**
Define the number of datapoints within the evaluation period that must be breaching to cause the alarm to go to ALARM state.
 - Input: 1 out of 1
 - Missing data treatment**
How to treat missing data when evaluating the alarm.
 - Dropdown: Treat missing data as missing

The footer of the console shows: Feedback, Looking for language selection? Find it in the new Unified Settings, © 2022, Amazon Internet Services Private Ltd. or its affiliates, Privacy, Terms, and Cookie preferences. The Windows taskbar at the bottom shows the search bar with "Type here to search" and the system clock indicating 4:13 PM on 5/24/2022.

Check EC2 Actions

The screenshot shows the AWS CloudWatch console in the 'ap-south-1' region. The page is titled 'Add Auto Scaling action' and is part of the 'Preview and create' workflow. The main section is 'EC2 action', which includes an 'Alarm state trigger' and a 'Take the following action...' section.

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.

Take the following action...
Define what will happen to the EC2 instance with the Instance ID i-018abcd37261a63ca when this alarm is triggered.

- ☐ **Recover this instance**
You can only recover certain EC2 instance types. [See documentation](#)
- ☐ **Stop this instance**
You can only stop an instance if it is backed by an EBS volume. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. [Show IAM policy document](#)
- ☐ **Terminate this instance**
You will not be able to terminate this instance if termination protection is enabled. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. [Show IAM policy document](#)
- ☐ **Reboot this instance**
An instance reboot is equivalent to an operating system reboot. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. [Show IAM policy document](#)

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 4:14 PM on 5/24/2022.

Step2:-Configure Actions

The screenshot displays the AWS CloudWatch 'Configure actions' interface. The left sidebar shows a four-step process: Step 1 (Specify metric and conditions), Step 2 (Configure actions), Step 3 (Add name and description), and Step 4 (Preview and create). The main content area is titled 'Configure actions' and contains a 'Notification' section. This section includes an 'Alarm state trigger' where the 'In alarm' option is selected, indicating the metric is outside the defined threshold. Other options are 'OK' (metric within threshold) and 'Insufficient data' (alarm just started or not enough data). Below the trigger, there is a section to 'Send a notification to the following SNS topic', where 'Select an existing SNS topic' is chosen. At the bottom, there is a search bar for 'Send a notification to...' with the placeholder 'Select an email list' and a note that only email lists for this account are available. An 'Add notification' button is at the bottom of this section. The footer of the page includes a feedback link, a language selection prompt, copyright information for 2022, and links for privacy, terms, and cookie preferences. The Windows taskbar at the very bottom shows the time as 4:14 PM on 5/24/2022.

Step 1
Specify metric and conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Configure actions

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...

Only email lists for this account are available.

[Add notification](#)

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Type here to search

4:14 PM 5/24/2022

Create SNS(simple notification service)

The screenshot shows the AWS CloudWatch console in the 'ap-south-1' region. The page is titled 'Create new topic' and is part of a multi-step process for creating an alarm. The left sidebar shows the navigation menu with 'description' and 'Step 4 Preview and create' highlighted. The main content area has three tabs at the top: 'The metric or expression is outside of the defined threshold.', 'The metric or expression is within the defined threshold.', and 'The alarm has just started or not enough data is available.' The 'Create new topic' section is active, showing options to 'Select an existing SNS topic', 'Create new topic' (selected), or 'Use topic ARN to notify other accounts'. Below this, there is a text input field for 'Create a new topic...' with the value 'EC2_CPU_utilization'. A note states 'The topic name must be unique.' and 'SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).' The 'Email endpoints that will receive the notification...' section has a text input field with the value 'o170115@rguktong.ac.in'. Below this, there is a list of example email addresses: 'user1@example.com, user2@example.com'. At the bottom of the main content area, there are two buttons: 'Create topic' and 'Add notification'. The footer of the console shows 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', '© 2022, Amazon Internet Services Private Ltd. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'. The Windows taskbar at the bottom shows the search bar, task view, and various application icons, including the Start menu, task view, and several open applications like Chrome, Edge, and the Windows Store. The system clock shows '4:16 PM 5/24/2022'.

WhatsApp x Instances | EC2 Management Console x CloudWatch Management Console x +

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'Actions~AlarmType~'MetricAlarm~Alar...

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai narmadareddy

description

Step 4
Preview and create

The metric or expression is outside of the defined threshold.

The metric or expression is within the defined threshold.

The alarm has just started or not enough data is available.

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

Create a new topic...
The topic name must be unique.

EC2_CPU_utilization

SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).

Email endpoints that will receive the notification...
Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.

o170115@rguktong.ac.in

user1@example.com, user2@example.com

Create topic

Add notification

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

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Type here to search

4:16 PM 5/24/2022

Here You need Mail confirmation

The screenshot displays the Amazon SNS console interface. The browser's address bar shows the URL: `ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topic/arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization`. The console header includes the AWS logo, a search bar, and navigation links. The left sidebar lists navigation options: Dashboard, Topics, Subscriptions, and Mobile. The main content area is titled "EC2_CPU_utilization" and includes buttons for Edit, Delete, and Publish message. The "Details" section shows the following information:

Field	Value
Name	EC2_CPU_utilization
Display name	-
ARN	arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization
Topic owner	039847641383
Type	Standard

Below the details are tabs for Subscriptions, Access policy, Delivery retry policy (HTTP/S), Delivery status logging, Encryption, and Tags. The Subscriptions tab is active, showing a list of subscriptions with buttons for Edit, Delete, Request confirmation, Confirm subscription, and Create subscription.

At the bottom of the console, there is a footer with links for Feedback, Privacy, Terms, and Cookie preferences. The Windows taskbar at the very bottom shows the time as 4:16 PM on 5/24/2022.

Mail confirmation is pending:-check your mail

The screenshot shows the Amazon SNS console for a topic named `EC2_CPU_utilization`. The console is in the `ap-south-1` region. The left sidebar shows the navigation menu with options like Dashboard, Topics, Subscriptions, and Mobile. The main content area shows the details of the topic, including its ARN and type (Standard). Below this, there are tabs for Subscriptions, Access policy, Delivery retry policy (HTTP/S), Delivery status logging, Encryption, and Tags. The Subscriptions tab is active, showing a list of subscriptions. There is one subscription in the list with the status 'Pending confirmation' and the endpoint `o170115@rguktong.ac.in`. The subscription is confirmed via EMAIL. The console also shows buttons for Edit, Delete, Request confirmation, Confirm subscription, and Create subscription. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 4:17 PM on 5/24/2022.

Amazon SNS

Dashboard

Topics

Subscriptions

Mobile

Push notifications

Text messaging (SMS)

Origination numbers

EC2_CPU_utilization

ARN
arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization

Type
Standard

Topic owner
039847641383

Subscriptions

Access policy

Delivery retry policy (HTTP/S)

Delivery status logging

Encryption

Tags

Subscriptions (1)

Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
<input type="radio"/> Pending confirmation	o170115@rguktong.ac.in	Pending confirmation	EMAIL

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Type here to search

4:17 PM 5/24/2022

Aws notifications

WhatsApp | Instances | EC2 Management | CloudWatch Management | Simple Notification Service | Inbox (2,372) - o170115@rc

mail.google.com/mail/u/0/?tab=rm&ogbl#inbox

Gmail

Search all conversations

Active

Compose

Mail

Inbox 2,372

Starred

Snoozed

Sent

Chat

No conversations
Start a chat

Spaces

No spaces yet
Create or find a space

1-50 of 3,000

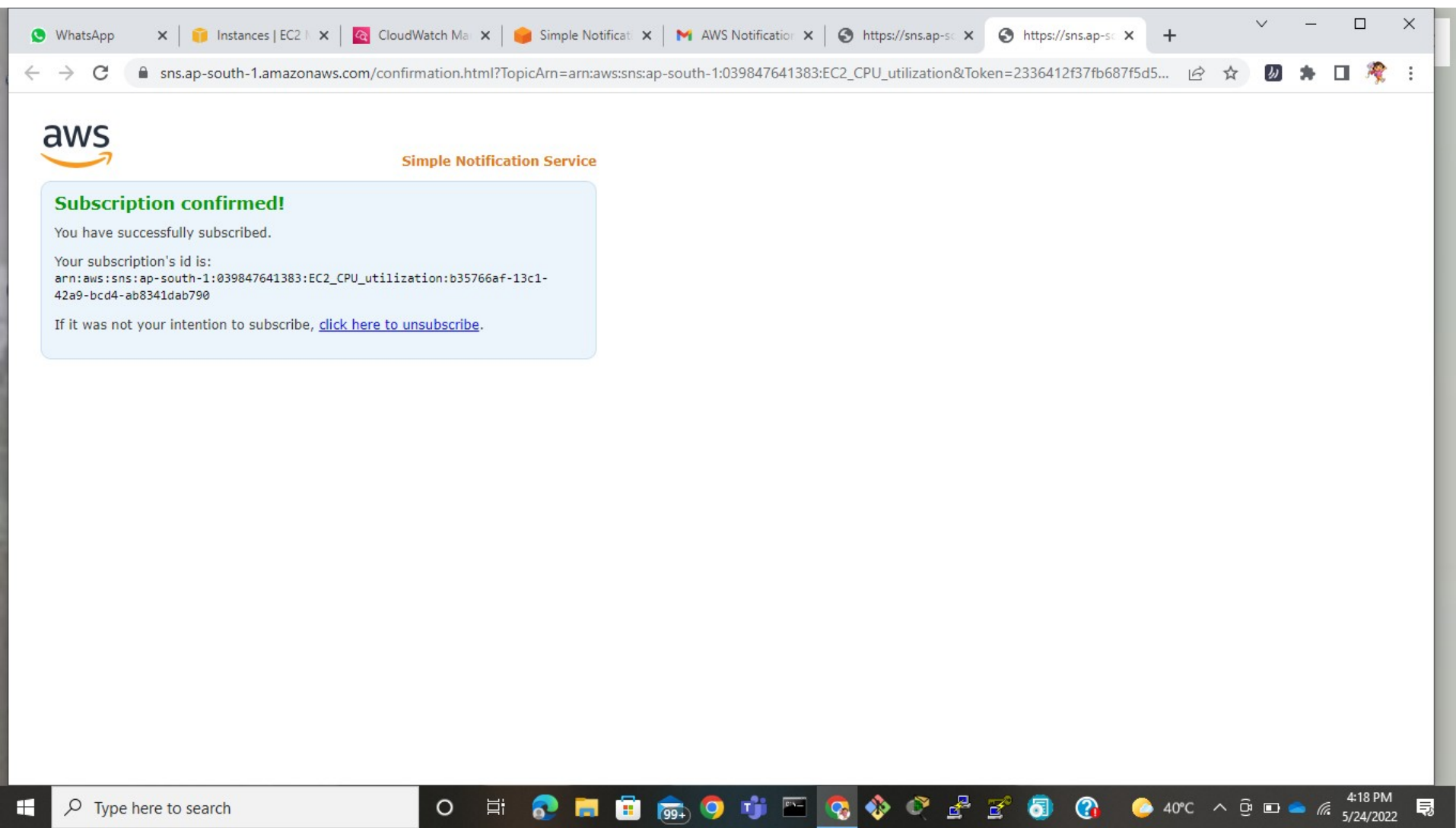
<input type="checkbox"/>	★	AWS Notifications	AWS Notification - Subscription Confirmation - Y...	4:16 PM
<input type="checkbox"/>	★	Neha at Edureka	Easy To Learn Technologies To Kick Start Your ...	3:20 PM
<input type="checkbox"/>	★	Neha - HR Specialist	✓ Padigapati Narmada, Quickly Book your Sea...	3:09 PM
<input type="checkbox"/>	★	CANADA JOBS	Submit Your Admission Application Form Here ...	2:47 PM
<input type="checkbox"/>	★	Internship Studio	You are shortlisted for Referral drive ref CA116...	2:03 PM
<input type="checkbox"/>	★	Course Updates	Trending courses for you this week - Expand yo...	12:50 PM
<input type="checkbox"/>	★	Skill Academy	Padigapati, Are You Making the Same Mistakes...	12:31 PM
<input type="checkbox"/>	★	Team HR	Update your Profile - Recruiters are looking for u...	10:20 AM
<input type="checkbox"/>	★	Will at edX	15 top courses recommended for you - What wil...	9:24 AM
<input type="checkbox"/>	★	PANTECH E LEARNING	FREE 30 Days Machine Learning Master Clas...	9:07 AM
<input type="checkbox"/>	★	Facebook	You have 36 notifications about Annem and oth...	8:23 AM
<input type="checkbox"/>	★	Department of Libra.	Today The Hindu e-paper - Hindu_24-05-2022.pdf	8:04 AM

Hindu_24-05-20...

TASKS Loading...

4:18 PM 5/24/2022

Confirm Subscription



The screenshot shows a web browser window with multiple tabs. The active tab is titled "https://sns.ap-south-1.amazonaws.com/confirmation.html?TopicArn=arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization&Token=2336412f37fb687f5d5...". The page displays the AWS logo and "Simple Notification Service" header. A light blue confirmation box contains the following text:

Subscription confirmed!
You have successfully subscribed.

Your subscription's id is:
`arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization:b35766af-13c1-42a9-bcd4-ab8341dab790`

If it was not your intention to subscribe, [click here to unsubscribe](#).

The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons, and system status information including "40°C" and the date/time "4:18 PM 5/24/2022".

confirmed

Amazon SNS

Dashboard

Topics

Subscriptions

Mobile

Push notifications

Text messaging (SMS)

Origination numbers

EC2_CPU_utilization

ARN
arn:aws:sns:ap-south-1:039847641383:EC2_CPU_utilization

Type
Standard

Topic owner
039847641383

Subscriptions

Access policy

Delivery retry policy (HTTP/S)

Delivery status logging

Encryption

Tags

Subscriptions (1)

Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
b35766af-13c1-42a9-bcd4-ab8341dab790	o170115@rguktong.ac.in	Confirmed	EMAIL

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4:19 PM 5/24/2022

Step3:-Add name and Subscription to your alarm

The screenshot shows the AWS CloudWatch console in the 'ap-south-1' region. The breadcrumb navigation is 'CloudWatch > Alarms > Create alarm'. The left sidebar shows a four-step process: Step 1 'Specify metric and conditions', Step 2 'Configure actions', Step 3 'Add name and description' (which is the current step), and Step 4 'Preview and create'. The main content area is titled 'Add name and description' and contains a form with two fields: 'Alarm name' with the value 'CPU_50%_utilization' and 'Alarm description - optional' with the value 'Notify if cpu can uses more than 50%'. Below the description field is a character count 'Up to 1024 characters (36/1024)'. At the bottom right of the form are three buttons: 'Cancel', 'Previous', and 'Next'. The bottom of the image shows the Windows taskbar with various application icons and the system clock indicating 4:21 PM on 5/24/2022.

CloudWatch > Alarms > Create alarm

Step 1
Specify metric and conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Add name and description

Name and description

Alarm name
CPU_50%_utilization

Alarm description - optional
Notify if cpu can uses more than 50%

Up to 1024 characters (36/1024)

Cancel Previous Next

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Type here to search

4:21 PM 5/24/2022

Create alarm

The screenshot shows the AWS CloudWatch console in the 'Alarms' section. A green banner at the top indicates 'Successfully created alarm CPU_50%_utilization.' The left sidebar contains navigation links for CloudWatch, Favorites and recents, Dashboards, Alarms (with sub-links for In alarm and All alarms), Logs, Metrics, X-Ray traces, Events, Application monitoring, Insights, Settings, and Getting Started. The main content area displays 'Alarms (1)' with a table listing the created alarm. The table has columns for Name, State, Last state update, Conditions, and Actions. The alarm 'CPU_50%_utilization' is in the 'Insufficient data' state, with a last update of '2022-05-24 16:21:35' and a condition of 'CPUUtilization >= 50 for 1 datapoints within 1 minute'. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 4:21 PM on 5/24/2022.

CloudWatch

Successfully created alarm **CPU_50%_utilization**.

CloudWatch > Alarms

Alarms (1)

☐ Hide Auto Scaling alarms

< 1 >

<input type="checkbox"/>	Name	State	Last state update	Conditions	Actions
<input type="checkbox"/>	CPU_50%_utilization	Insufficient data	2022-05-24 16:21:35	CPUUtilization >= 50 for 1 datapoints within 1 minute	<input checked="" type="checkbox"/> Action

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4:21 PM 5/24/2022

Connect to your EC2 instance:-CPU load increase

Purpose

```
root@ip-172-31-38-43:~$ sudo su
root@ip-172-31-38-43:/home/ubuntu# apt update
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2239 kB]
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [392 kB]
Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [741 kB]
Get:8 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [102 kB]
100% [7 Packages store 0 B]
```

Update your ec2 instance

#apt update

```
root@ip-172-31-38-43: /home/ubuntu
ubuntu@ip-172-31-38-43:~$ sudo su
root@ip-172-31-38-43:/home/ubuntu# apt update
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2239 kB]
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [392 kB]
Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [741 kB]
Get:8 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [102 kB]
Fetched 3968 kB in 4s (1109 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
21 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-38-43:/home/ubuntu# apt install stress
```

#apt install

stress

root@ip-172-31-38-43:

```
ubuntu@ip-172-31-38-43:~$ sudo su
root@ip-172-31-38-43:/home/ubuntu# apt update
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2239 kB]
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [392 kB]
Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [741 kB]
Get:8 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [102 kB]
Fetched 3968 kB in 4s (1109 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
21 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-38-43:/home/ubuntu# apt install stress
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  stress
0 upgraded, 1 newly installed, 0 to remove and 21 not upgraded.
Need to get 17.5 kB of archives.
After this operation, 46.1 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 stress amd64 1.0.4-2 [17.5 kB]
Fetched 17.5 kB in 1s (21.2 kB/s)
Selecting previously unselected package stress.
(Reading database ... 116290 files and directories currently installed.)
Preparing to unpack .../stress_1.0.4-2_amd64.deb ...
Unpacking stress (1.0.4-2) ...
Setting up stress (1.0.4-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for install-info (6.5.0.dfsg.1-2) ...
root@ip-172-31-38-43:/home/ubuntu# cd
root@ip-172-31-38-43:~# stress --cpu 1
```



Type here to search



4:28 PM
5/24/2022

#stress --cpu 1

```
root@ip-172-31-38-43: ~  
ubuntu@ip-172-31-38-43:~$ sudo su  
root@ip-172-31-38-43:/home/ubuntu# apt update  
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease [242 kB]  
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]  
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]  
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]  
Get:5 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2239 kB]  
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [392 kB]  
Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [741 kB]  
Get:8 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [102 kB]  
Fetched 3968 kB in 4s (1109 kB/s)  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
21 packages can be upgraded. Run 'apt list --upgradable' to see them.  
root@ip-172-31-38-43:/home/ubuntu# apt install stress  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  stress  
0 upgraded, 1 newly installed, 0 to remove and 21 not upgraded.  
Need to get 17.5 kB of archives.  
After this operation, 46.1 kB of additional disk space will be used.  
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 stress amd64 1.0.4-2 [17.5 kB]  
Fetched 17.5 kB in 1s (21.2 kB/s)  
Selecting previously unselected package stress.  
(Reading database ... 116290 files and directories currently installed.)  
Preparing to unpack .../stress_1.0.4-2_amd64.deb ...  
Unpacking stress (1.0.4-2) ...  
Setting up stress (1.0.4-2) ...  
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...  
Processing triggers for install-info (6.5.0.dfsg.1-2) ...  
root@ip-172-31-38-43:/home/ubuntu# cd  
root@ip-172-31-38-43:~# stress --cpu 1  
stress: info: [3786] dispatching hogs: 1 cpu, 0 io, 0 vm, 0 hdd
```


Goto your Ec2 monitoring

The screenshot displays the AWS Management Console interface. At the top, the navigation bar shows the AWS logo, 'Services', a search bar, and the region 'Mumbai'. The left sidebar contains a menu with options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The main content area is titled 'Instances (1/4)' and includes a search bar and buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. A table lists instances, with one instance 'aws_training_os' (ID: i-05afd7ad1c2c12309) shown in a 'Stopped' state. Below the table, the details for instance 'i-018abcd37261a63ca (ubuntu_devops)' are displayed, with the 'Monitoring' tab selected. The monitoring section shows a 'Manage detailed monitoring' button and a time range selector (1h, 3h, 12h, 1d, 3d, 1w, Custom). The bottom of the screen shows a Windows taskbar with various application icons and the system clock indicating 4:31 PM on 5/24/2022.

Instances (1/4) Info

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
aws_training_os	i-05afd7ad1c2c12309	Stopped	t2.micro	-	No alarms	ap-south-

Instance: i-018abcd37261a63ca (ubuntu_devops)

Details | Security | Networking | Storage | Status checks | **Monitoring** | Tags

Manage detailed monitoring

1h 3h 12h 1d 3d 1w Custom

Add to dashboard

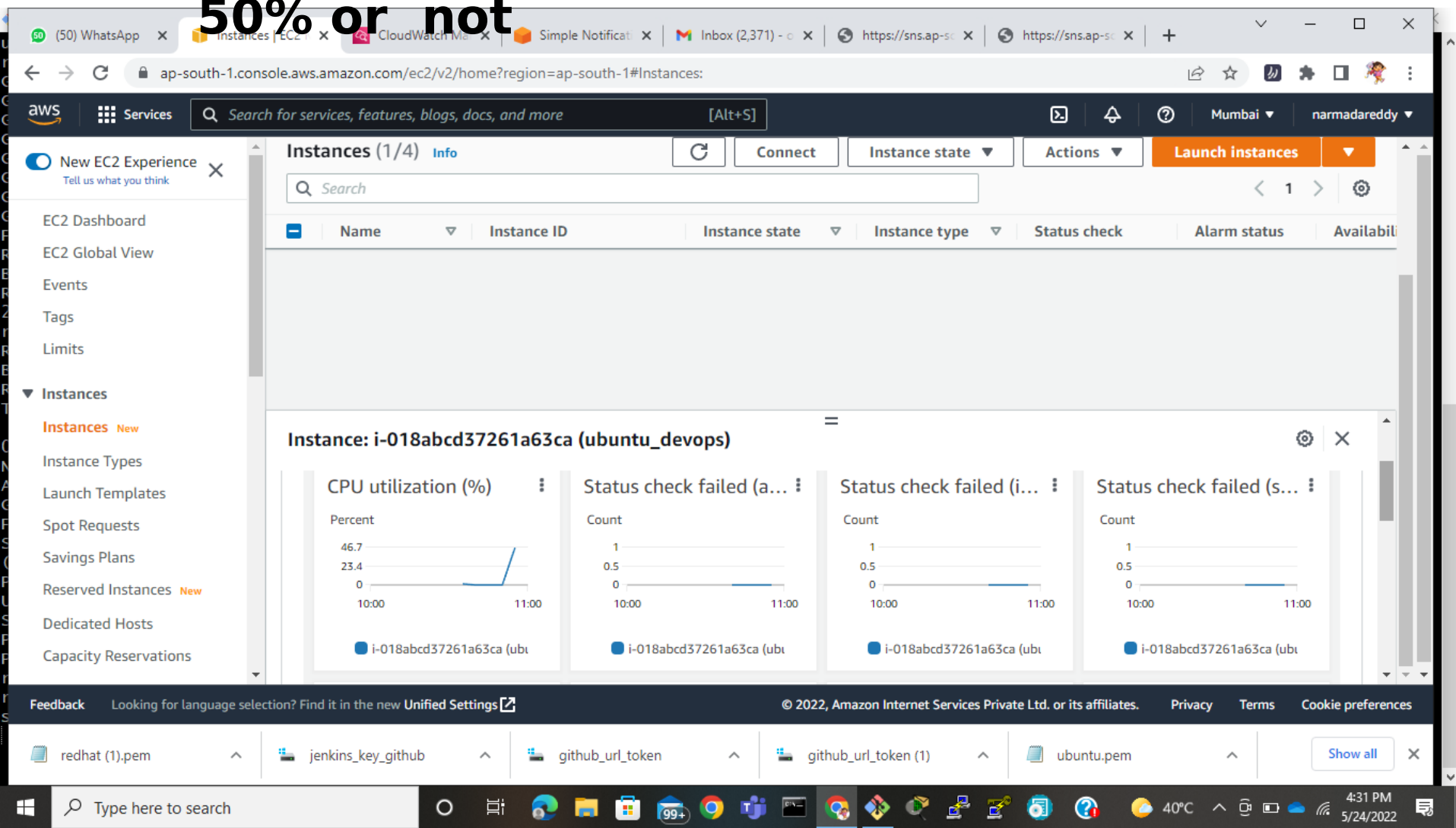
© 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

redhat (1).pem jenkins_key_github github_url_token github_url_token (1) ubuntu.pem Show all

Type here to search

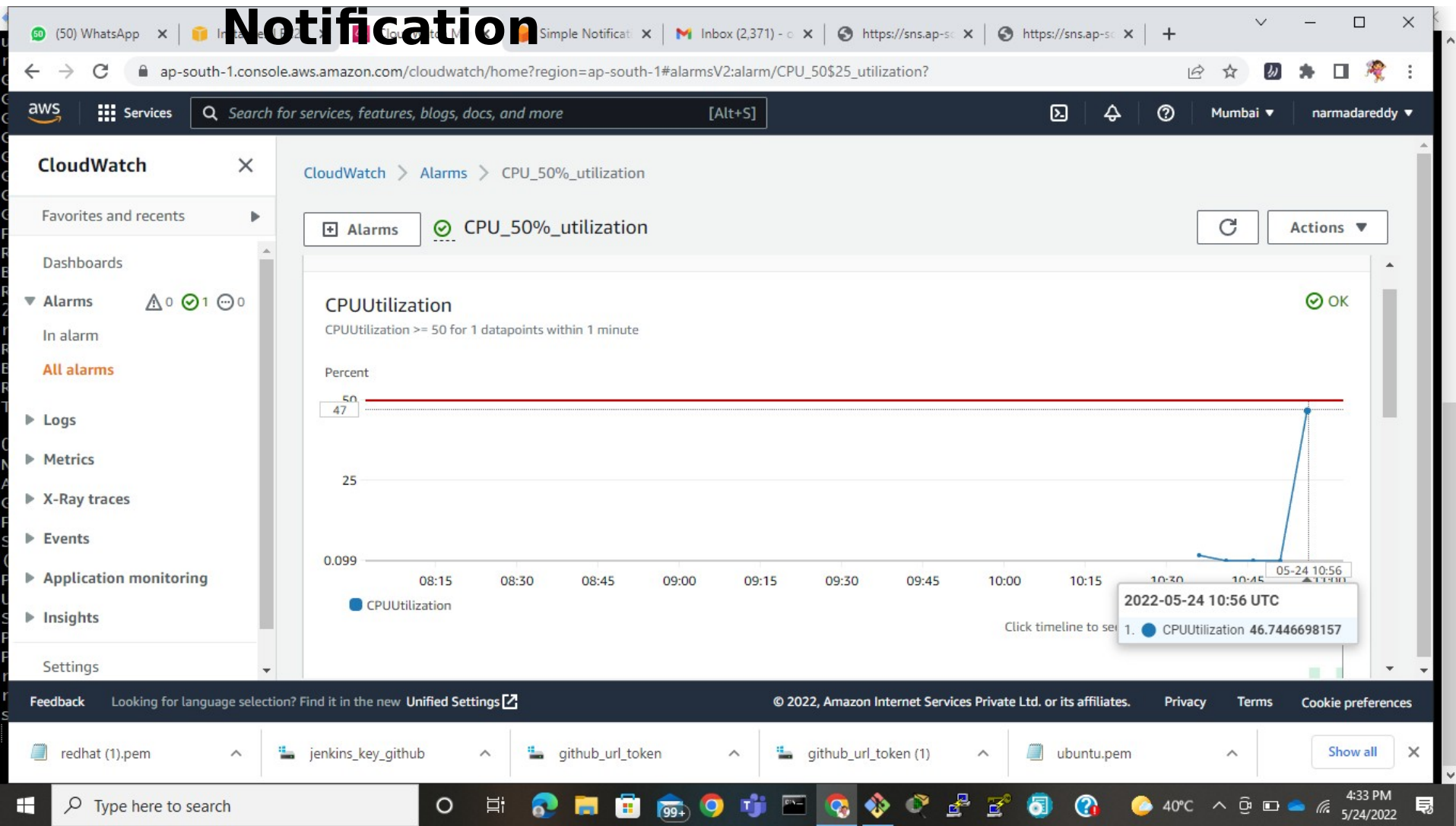
4:31 PM 5/24/2022

Check Cpu Utilization:-it reaches 50% or not



When it reaches the 50% CPU You got mail

Notification



You Got the mail Notification

*it means you reached the 50% cpu utilization and you

The screenshot shows a Gmail inbox in a web browser. The browser's address bar displays the Gmail URL. The Gmail interface includes a search bar, a 'Compose' button, and a sidebar with navigation options: Mail, Chat, Spaces, and Meet. The 'Inbox' is selected, showing 2,371 messages. The email being viewed is titled 'ALARM: "CPU_50%_utilization" in Asia Pacific (Mumbai)' and is marked as 'External' and 'Inbox x'. The sender is 'AWS Notifications' with the email address 'no-reply@sns.amazonaws.com'. The email content states that the Amazon CloudWatch Alarm 'CPU_50%_utilization' in the Asia Pacific (Mumbai) region has entered the ALARM state. The reason for the state change is 'Threshold Crossed: 1 out of the last 1 datapoints [99.66939890710384 (24/05/22 11:01:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition).'. The email also provides a link to view the alarm in the AWS Management Console and lists the alarm details: Name (CPU_50%_utilization), Description (Notify if cpu can uses more than 50%), State Change (INSUFFICIENT_DATA -> ALARM), Reason for State Change (Threshold Crossed: 1 out of the last 1 datapoints [99.66939890710384 (24/05/22 11:01:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition)), and Timestamp (Tuesday 24 May, 2022 11:06:19 UTC). The right sidebar shows a 'Welcome to Tasks' message with a 'Get started' button. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 4:37 PM on 5/24/2022.

mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzGpGBCtvsZXKTDxMJfjDwNgVFMS

Compose

Mail

Inbox 2,371

Starred

Snoozed

Chat

No conversations yet
Start a chat

Spaces

No spaces yet
Create or find a space

Meet

ALARM: "CPU_50%_utilization" in Asia Pacific (Mumbai) External Inbox x

AWS Notifications <no-reply@sns.amazonaws.com> 4:36 PM (0 minutes ago) ☆ ↶ ⋮

You are receiving this email because your Amazon CloudWatch Alarm "CPU_50%_utilization" in the Asia Pacific (Mumbai) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [99.66939890710384 (24/05/22 11:01:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Tuesday 24 May, 2022 11:06:19 UTC".

View this alarm in the AWS Management Console:
https://ap-south-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=ap-south-1#alarmsV2:alarm/CPU_50%25_utilization

Alarm Details:

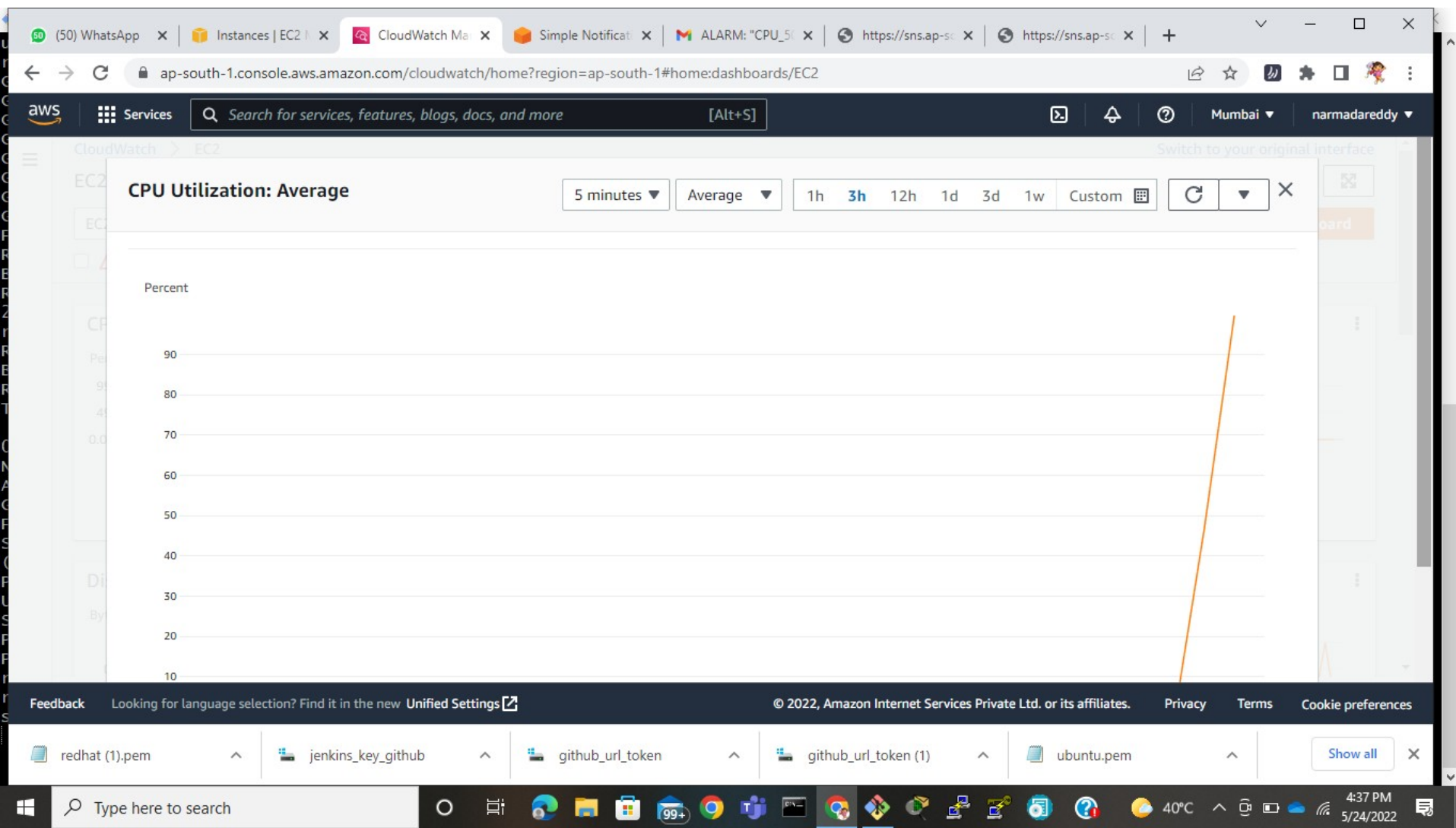
- Name: CPU_50%_utilization
- Description: Notify if cpu can uses more than 50%
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [99.66939890710384 (24/05/22 11:01:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Tuesday 24 May, 2022 11:06:19 UTC

redhat (1).pem jenkins_key_github github_url_token github_url_token (1) ubuntu.pem Show all

Type here to search

4:37 PM 5/24/2022

CPU Utilization Graph



You also observe in your EC2 monitoring

The screenshot displays the AWS Management Console for the 'ap-south-1' region. The 'Instances' page shows a list of four EC2 instances. The 'ubuntu_devops' instance (ID: i-018abcd37261a63ca) is selected, and its monitoring dashboard is displayed below the list.

Instances List:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
redhat	i-06be64bc47f1896a7	Stopped	t2.micro	-	No alarms	ap-south-
ubuntu_devops	i-018abcd37261a63ca	Running	t2.micro	2/2 checks passed	1/1 has i	ap-south-
ubuntu2	i-02ac15f9746da9bb3	Stopped	t2.micro	-	No alarms	ap-south-
aws_training_os	i-05afd7ad1c2c12309	Stopped	t2.micro	-	No alarms	ap-south-

Instance: i-018abcd37261a63ca (ubuntu_devops) Monitoring:

- CPU utilization (%):** A line graph showing CPU usage over time. The y-axis ranges from 0 to 99.7. The x-axis shows time from 10:05 to 11:05. The usage is low until 11:00, then spikes to approximately 99.7%.
- Status check failed (a...):** A bar chart showing the count of failed status checks. The y-axis ranges from 0 to 1. The x-axis shows time from 10:00 to 11:00. The count is 0 until 11:00, then increases to 1.
- Status check failed (i...):** A bar chart showing the count of failed instance status checks. The y-axis ranges from 0 to 1. The x-axis shows time from 10:00 to 11:00. The count is 0 until 11:00, then increases to 1.
- Status check failed (s...):** A bar chart showing the count of failed system status checks. The y-axis ranges from 0 to 1. The x-axis shows time from 10:00 to 11:00. The count is 0 until 11:00, then increases to 1.

The bottom of the console shows a list of files: redhat (1).pem, jenkins_key_github, github_url_token, github_url_token (1), and ubuntu.pem. The system tray at the bottom indicates the time is 4:39 PM on 5/24/2022, with a temperature of 40°C.



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