

CREATE ALARM IN CLOUDWATCH

STEP 1: TO CHECK FIRST EC2 INSTANCE IS RUNNING MODE ON

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of EC2 instances. A green notification bar at the top indicates that the instance 'i-049361e33fc7c43c9' has been successfully initiated. The instance list shows two instances: 'Create-Windows-s...' (Stopped) and 'create-linux-server' (Running). The 'create-linux-server' instance is selected, and its details are shown below. The instance is in the 'Running' state, and the 'Status check' shows '2/2 checks passed'. The instance type is 't2.micro'. The public IPv4 address is '15.206.212.119', and the private IPv4 addresses are '172.31.3.255'.

STEP 2: GO TO CLOUDWATCH CONSOLE

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'CloudWatch' service page is active. The 'Services' section lists 'CloudWatch' (Monitor Resources and Applications), 'Athena' (Serverless interactive analytics service), and 'Amazon EventBridge' (Serverless service for building event-driven applications). The 'CloudWatch' service is highlighted, and its top features (Logs Insights, Metrics, Alarms, Dashboards, Services) are shown. The 'Features' section shows the 'CloudWatch dashboard' and 'Systems Manager feature'. The 'Were these results helpful?' section has 'Yes' and 'No' buttons.

STEP 3: GO TO METRICS IN CLOUDWATCH

The screenshot shows the AWS CloudWatch console in the 'Overview' view for the 'ap-south-1' region. The left sidebar contains navigation links for Logs, Metrics, and Application Signals. The main content area displays 'Get started with CloudWatch' instructions, including links to 'Create alarms', 'Create a default dashboard', 'View logs', and 'View events'. Below this, there is a section for 'Get started with Observability solutions'. The browser's address bar shows the URL: `https://ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#home:`. The taskbar at the bottom shows various application icons and the system clock indicating 12:11 PM on 23-Jun-25.

STEP 4: CLICK ON EC2 IN METRICS

The screenshot shows the AWS CloudWatch console in the 'Metrics' view for the 'ap-south-1' region. The 'Untitled graph' section is visible, showing a line graph with a y-axis from 0 to 1 and an x-axis from 03:45 to 06:30. Below the graph, the 'Metrics (402)' section displays a grid of metrics for various AWS services. The 'EC2' metric is highlighted, showing a value of 52. The browser's address bar shows the URL: `https://ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#metricsV2?graph=~0`. The taskbar at the bottom shows various application icons and the system clock indicating 12:12 PM on 23-Jun-25.

Service	Count	View automatic dashboard
EBS	47	View automatic dashboard
EC2	52	View automatic dashboard
Events	1	View automatic dashboard
Logs	12	View automatic dashboard
RDS	96	
S3	2	
SNS	4	
SQS	9	

STEP 5: COPYING RUNNING EC2 INSTANCE ID AND PASTE IT IN METRICS

Instances (1/3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
Create-Windows-s...	i-0c8877efc25d138c2	Stopped	t3.micro	-	View alarms +	ap-south-
create-linux-server	i-049361e33fc7c43c9	Running	t2.micro	2/2 checks pass	View alarms +	ap-south-

i-049361e33fc7c43c9 (create-linux-server)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance ID copied

Public IPv4 address: 15.206.212.119 | open address

Private IPv4 addresses: 172.31.3.255

Untitled graph

1h 3h 12h 1d 3d 1w Custom UTC timezone

1 0.5 0

03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30

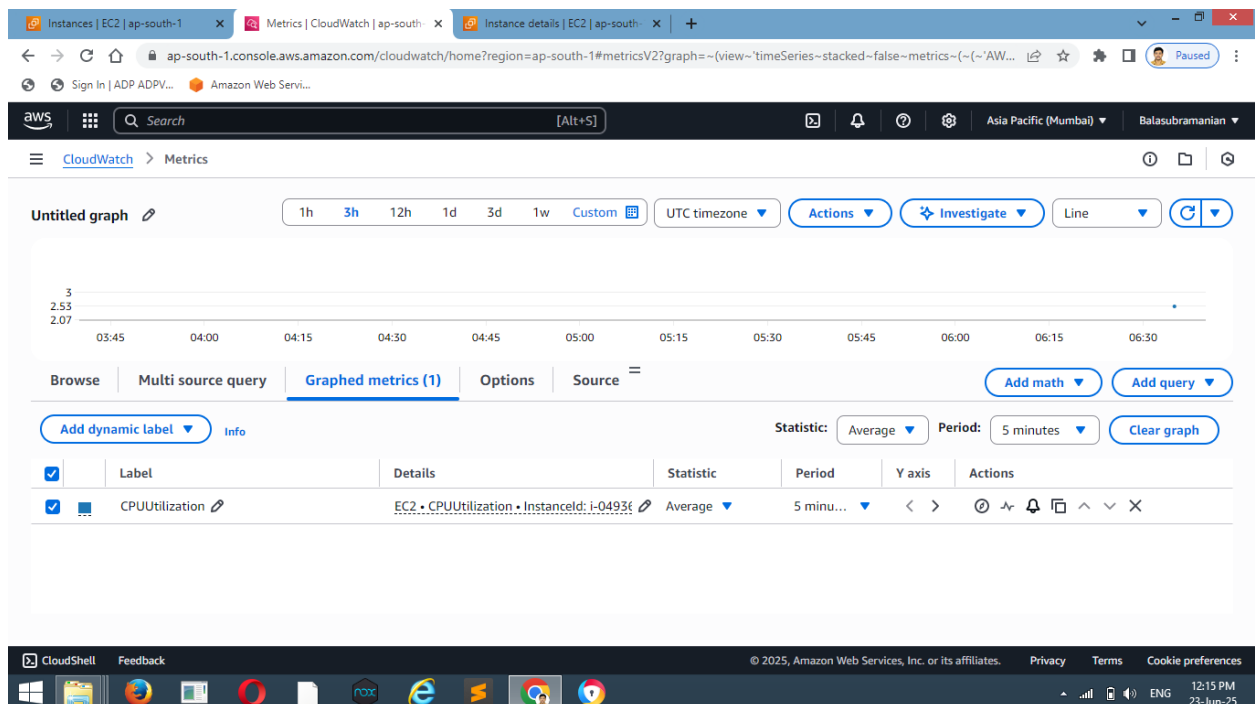
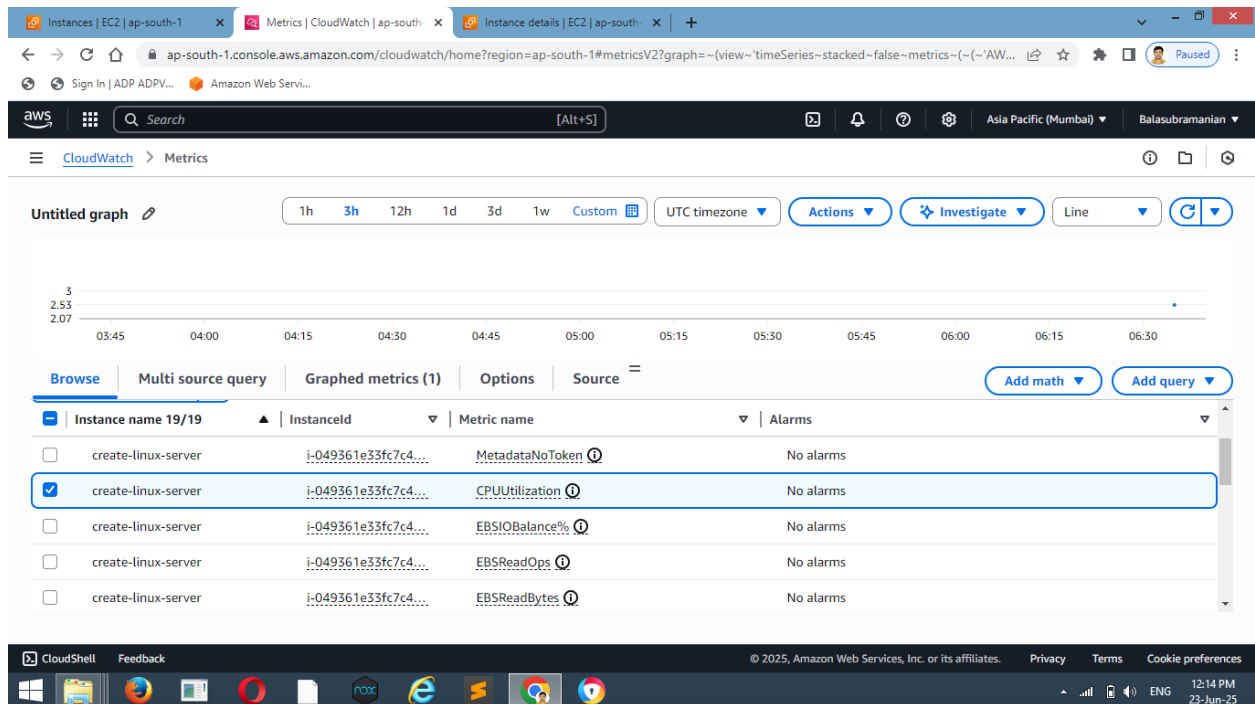
Browse | Multi source query | Graphed metrics | Options | Source

Metrics (52) Info

Mumbai All > EC2

Per-Instance Metrics 52

STEP 6: CLICK CPU UTILIZATION AND CREATE ALARM WHEATHER CPU UTILIZATION IS MORE THAN 80 THRESHOLD THEN THE ALARM IS RAISED – I WILL SETUP THIS CONDITION FOR CREATE ALARM



Instances | EC2 | ap-south-1 x Create alarm | Alarms | CloudWatch x Instance details | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlarm~AI... Sign In | ADP ADPV... Amazon Web Servi...

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CloudWatch > Alarms > Create alarm

Specify metric and conditions

Step 2
Step 3
Step 4

Metric

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.

Percent

3

2.53

2.07

04:30 05:30 06:30

CPUUtilization

Namespace
AWS/EC2

Metric name
CPUUtilization

Instanceld
i-049361e33fc7c43c9

Instance name
create-linux-server

Statistic
Average

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Instances | EC2 | ap-south-1 x Create alarm | Alarms | CloudWatch x Instance details | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlarm~AI... Sign In | ADP ADPV... Amazon Web Servi...

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CloudWatch > Alarms > Create alarm

04:30 05:30 06:30

CPUUtilization

create-linux-server

Statistic
Average

Period
5 minutes

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...

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Instances | EC2 | ap-south-1

Create alarm | Alarms | CloudWa

Instance details | EC2 | ap-south

+

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

Sign In | ADP ADPV... | Amazon Web Servi...

aws

Search

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CloudWatch > Alarms > Create alarm

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.

80

Must be a number

▶ Additional configuration

Cancel

Next

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12:18 PM
23-Jun-25

Instances | EC2 | ap-south-1

Create alarm | Alarms | CloudWa

Instance details | EC2 | ap-south

+

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

Sign In | ADP ADPV... | Amazon Web Servi...

aws

Search

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CloudWatch > Alarms > Create alarm

Configure actions

Step 3

Add alarm details

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.

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...

balatopid

Only topics belonging to this account are listed here. All persons and applications subscribed to the selected topic will receive notifications.

Email (endpoints)

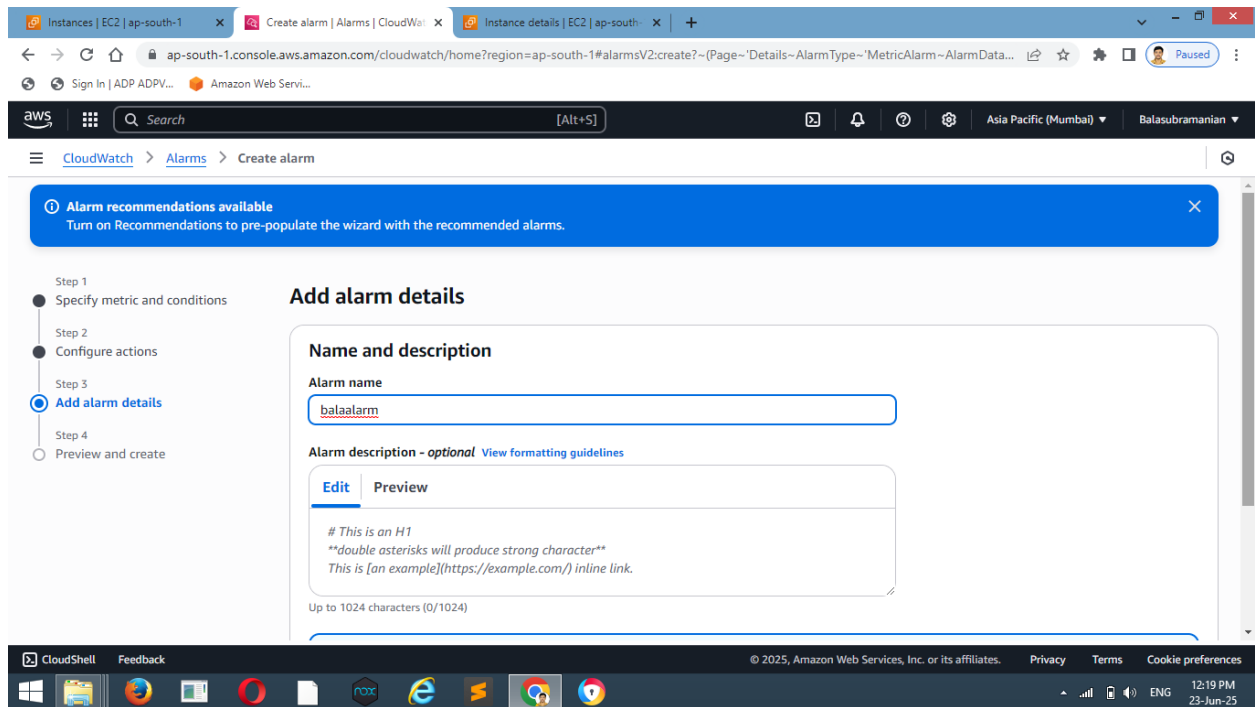
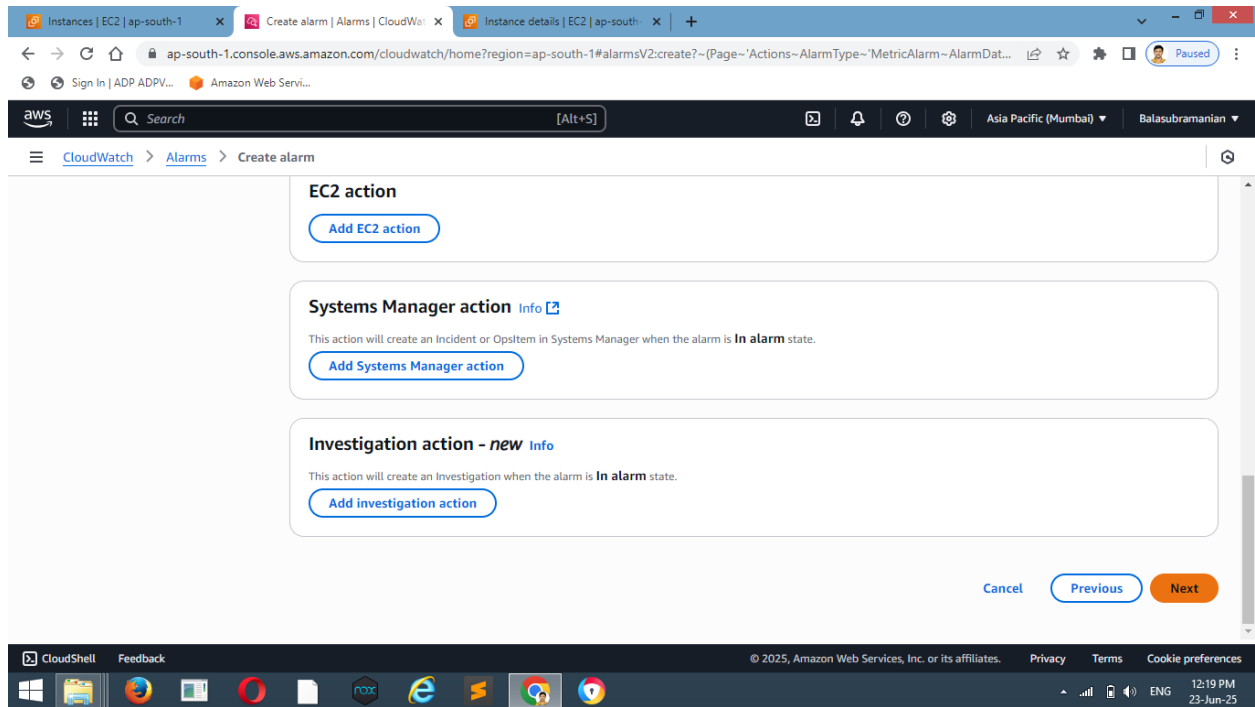
arn:aws:sqs:ap-south-1:524522255989:balaqueue and 1 more - View in SNS Console

Add notification

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12:19 PM
23-Jun-25



Instances | EC2 | ap-south-1 x Create alarm | Alarms | CloudWatch x Instance details | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'Preview~AlarmType~'MetricAlarm~AlarmDat... ☆ ⚙️ 👤 Paused

Sign In | ADP ADPV... Amazon Web Servi...

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CloudWatch > Alarms > Create alarm

Step 1: Specify metric and conditions [Edit](#)

Configure actions

Step 3

Add alarm details

Step 4

Preview and create

Metric

Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.

Percent

80

41.3

2.53

04:30 05:30 06:30

CPUUtilization

Namespace

AWS/EC2

Metric name

CPUUtilization

InstancedId

i-049361e33fc7c43c9

Instance name

create-linux-server

Statistic

Average

Period

5 minutes

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12:19 PM 23-Jun-25

Instances | EC2 | ap-south-1 x Create alarm | Alarms | CloudWatch x Instance details | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?~(Page~'Preview~AlarmType~'MetricAlarm~AlarmDat... ☆ ⚙️ 👤 Paused

Sign In | ADP ADPV... Amazon Web Servi...

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CloudWatch > Alarms > Create alarm

Step 2: Configure actions [Edit](#)

Actions

Notification

When In alarm, send a notification to "balatopic"

Step 3: Add alarm details [Edit](#)

Alarm details

Name

balaalarm

Description

-

Cancel [Previous](#) [Create alarm](#)

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12:19 PM 23-Jun-25

STEP 7: FINALLY CREATED ALARM IN CLOUDWATCH SUCCESSFULLY

The screenshot displays the AWS CloudWatch Alarms console in the 'ap-south-1' region. A green notification banner at the top states 'Successfully created alarm balaalarm.' with a 'View alarm' button. The left sidebar shows the 'CloudWatch' navigation menu with options for 'All alarms', 'Logs', and 'Metrics'. The main content area, titled 'Alarms (1)', includes filters for 'Alarm state: Any', 'Alarm type: Any', and 'Actions status: Any'. A table lists the created alarm:

<input type="checkbox"/>	Name	State	Last state update (UTC)	Conditions
<input type="checkbox"/>	balaalarm	OK	2025-06-23 06:50:53	CPUUtilization > 80 for 1 datapoints within 5 minutes

The bottom of the image shows the Windows taskbar with various application icons and the system clock indicating 12:21 PM on 23-Jun-25.