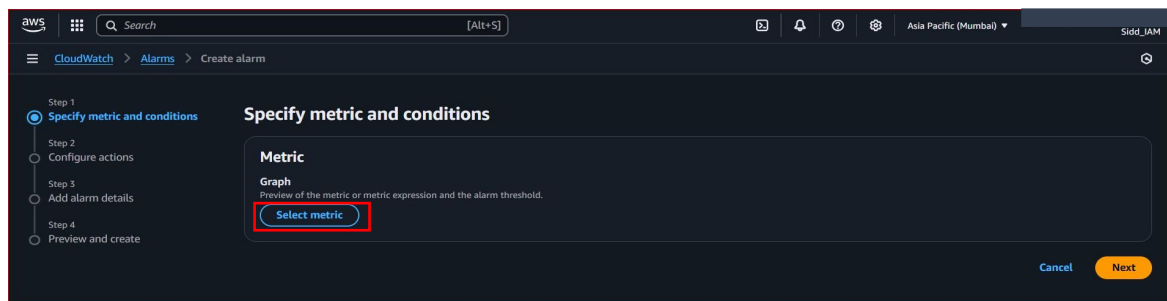


Set Alarm for CPU Utilization to an instance :

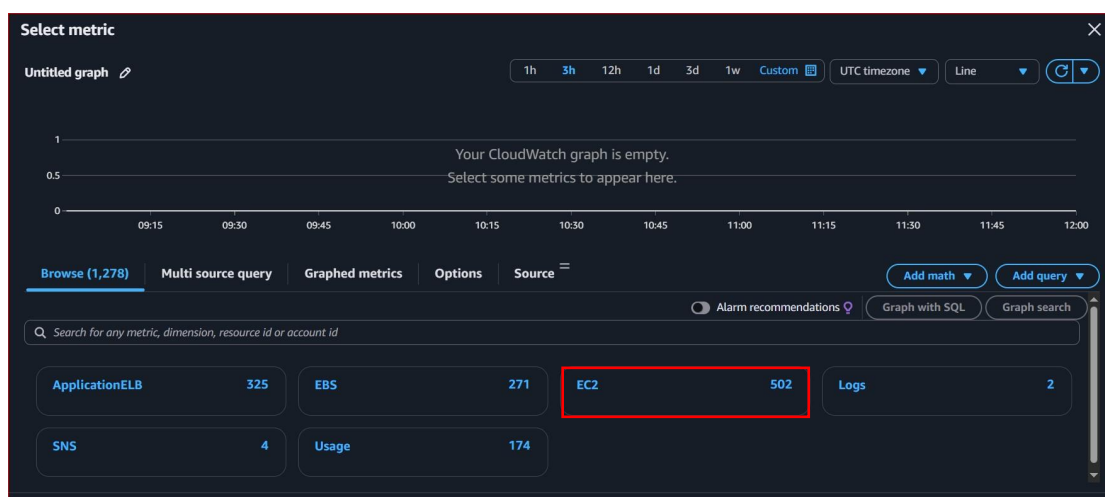
- In AWS, an alarm is like a monitoring guard. It watches your metrics (such as CPU usage, memory, disk, network, etc.) from Amazon CloudWatch and tells you when something goes above or below a limit you set.
- Alarms help you monitor and automatically react to changes in your AWS resources, making them crucial for cost optimization, high availability, and performance.

1. Select Alarms and click on Select metric (From cloudwatch) :

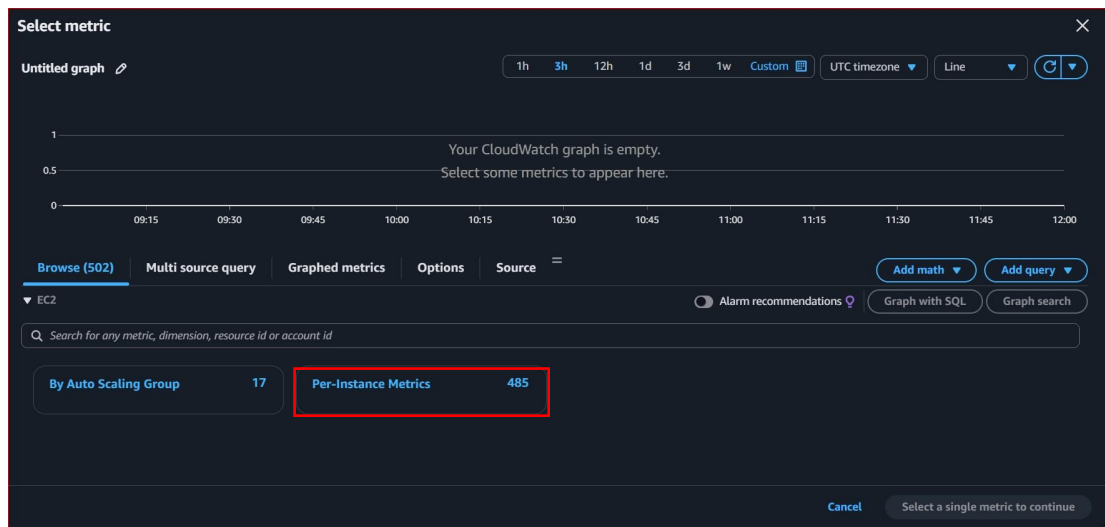
Note: There are multiple methods for set alarm to an instance.



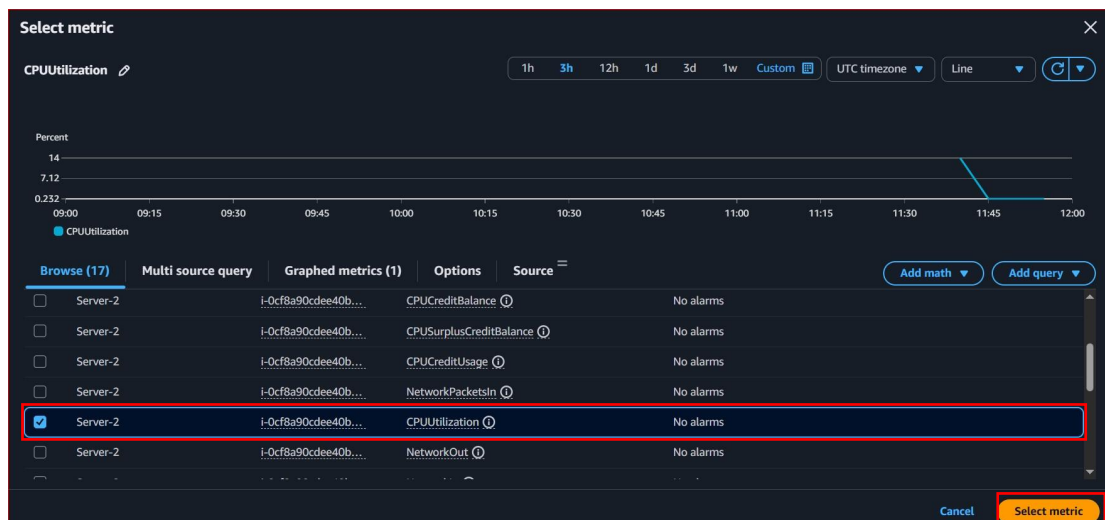
2. Select metric (EC2) :



3. Click on per-instance Metrics :



4. Select instance with it's Specification & click on select metric :



5. Condition keep static & select CPU Utilization & define Threshold value and click next :

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.

10

Must be a number.

► Additional configuration

Cancel **Next**

6. Select Action for instance :

EC2 action

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

Take the following action...

Define what will happen to the EC2 instance with the Instance ID i-Ocf8a90cdee40b1b3 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](#)

Add EC2 action

Systems Manager action [Learn more](#)

This action will create an Incident or Opsitem in Systems Manager when the alarm is In alarm state.

Add Systems Manager action

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7. And click next :

Low-CPU-Terminate

Alarm description - *optional* [View formatting guidelines](#)

Edit **Preview**

This is an H1
double asterisks will produce strong character
This is [an example](https://example.com/) inline link.

Up to 1024 characters (0/1024)

ⓘ Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.

Tags - optional [Info](#)

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 tags

[Cancel](#) [Previous](#) **Next**

8. Review again and click Create alarm :

Actions

Notification
When In alarm, send a notification to "Notification_Topic"

EC2 action
When In alarm, terminate this instance (Instance ID: i-0cf8a90cdee40b1b3)

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

Alarm details

Name
Low-CPU-Terminate

Description
-

► **Tags (0)**

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

9. Alarm Created :

☑ Successfully created alarm Low-CPU-Terminate. [View alarm](#) ✕

Alarms (2) ☐ Hide Auto Scaling alarms [Clear selection](#) [Create composite alarm](#) [Actions](#) [Create alarm](#)

[Alarm state: Any](#) [Alarm type: Any](#) [Actions status: Any](#) < 1 > ⚙

<input type="checkbox"/>	Name	State	Last state update (UTC)	Conditions	Actions
<input type="checkbox"/>	Low-CPU-Terminate	⊖ Insufficient data	2025-08-26 12:12:32	CPUUtilization <= 10 for 1 datapoints within 5 minutes	☑ Actions enabled Warni
<input type="checkbox"/>	Low-CPUUtilization	⊖ Insufficient data	2025-08-26 12:02:51	CPUUtilization <= 10 for 1 datapoints within 5 minutes	☑ Actions enabled Warni



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<https://github.com/codexshwar>