Alarm with CloudWatch Agent

Important things to monitor:

1. CPU Usage

- Metric: `CPUUtilization` (Default)
- Why: Detect if the instance is overworked or underutilized.

2. **Memory (RAM) Usage**

- Metric: `mem_used_percent` (via CloudWatch Agent)
- Why: Helps avoid crashes due to memory exhaustion. Not available by default — needs CloudWatch Agent.

3. **Disk Usage**

- Metric: `disk_used_percent, disk_free, disk_inodes_used` (Agent)
- Why: Running out of disk space can crash applications or the OS.

4. **Disk I/O (Read/Write Activity)**

- Metrics:
  - `DiskReadBytes, DiskWriteBytes`
  - `diskio_read_bytes, diskio_write_bytes` (Agent)
- Why: For performance analysis or diagnosing slow storage.

5.Network Activity

- Metrics:
  - `NetworkIn, NetworkOut`
- Why: Helps detect traffic spikes or failures

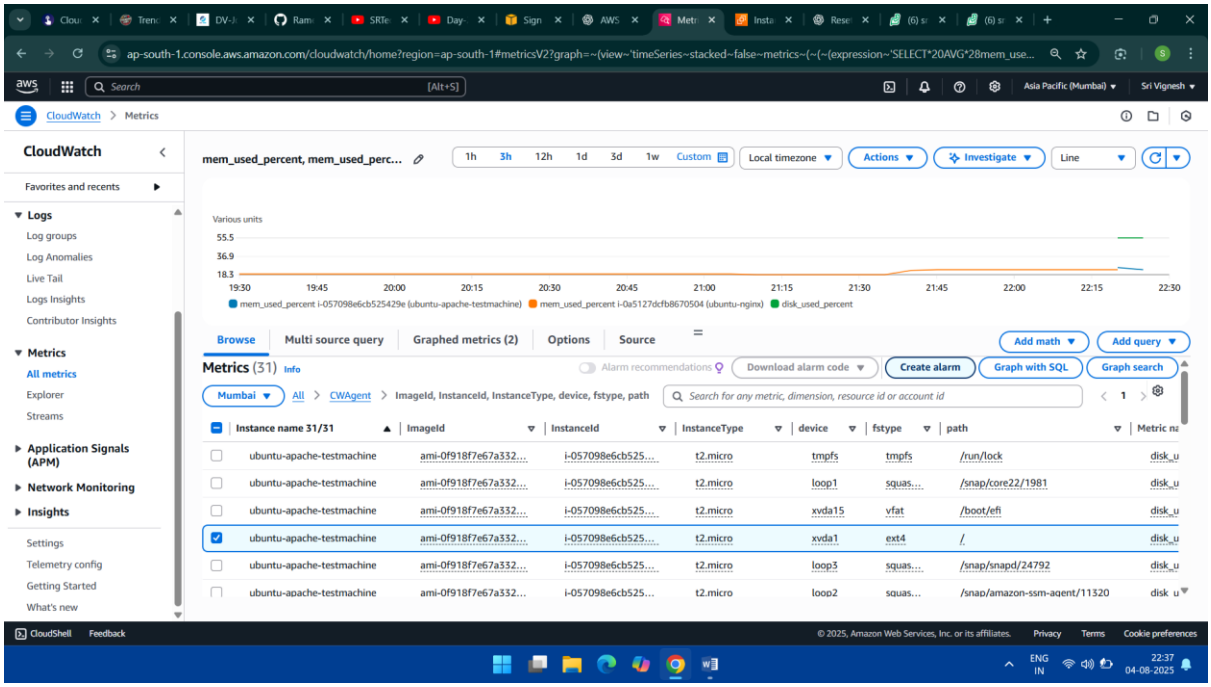
6. **Processes / Application Health (Optional)**

- Why: For advanced monitoring (e.g., "Is Nginx still running?")

In this process, I used the Disk usage and these are the step as follows

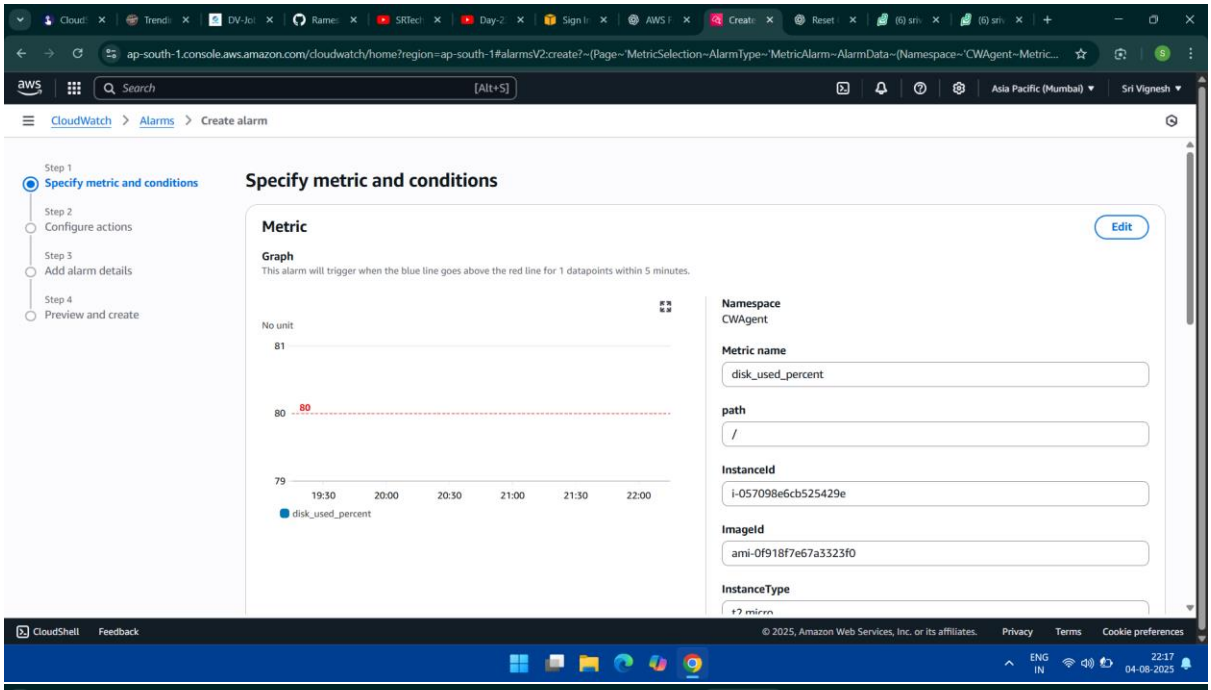
Step 1: Select the resource

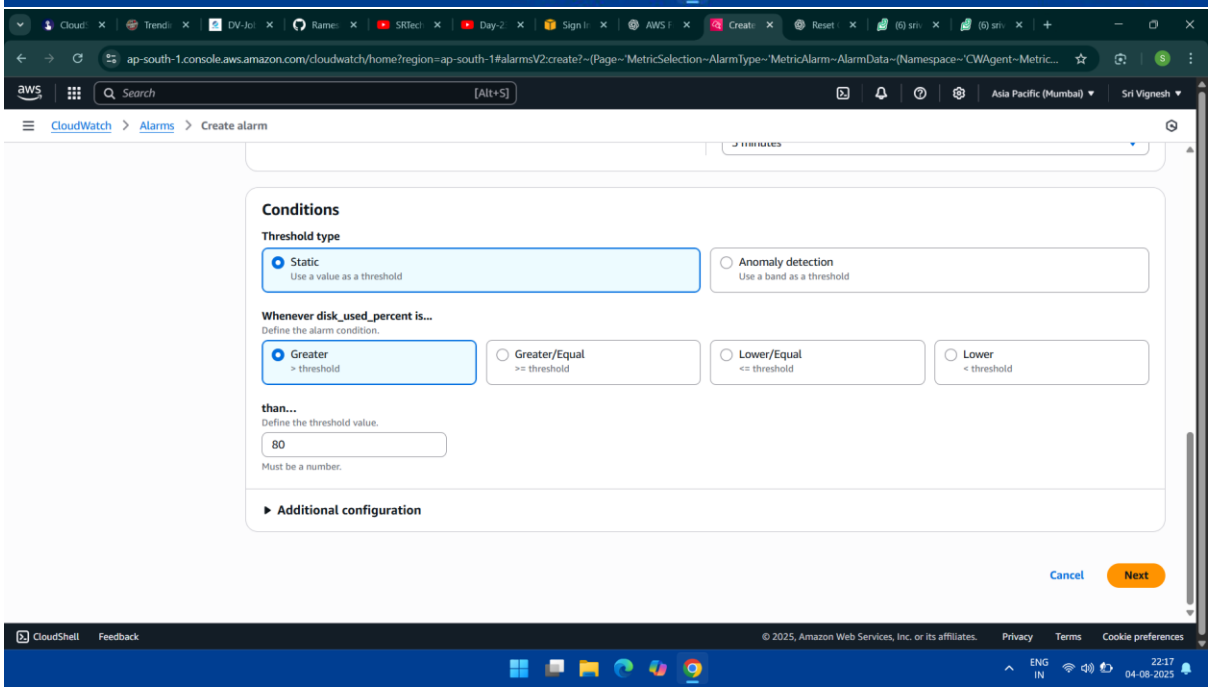
- Select the resource need to moitor
- Create the alarm

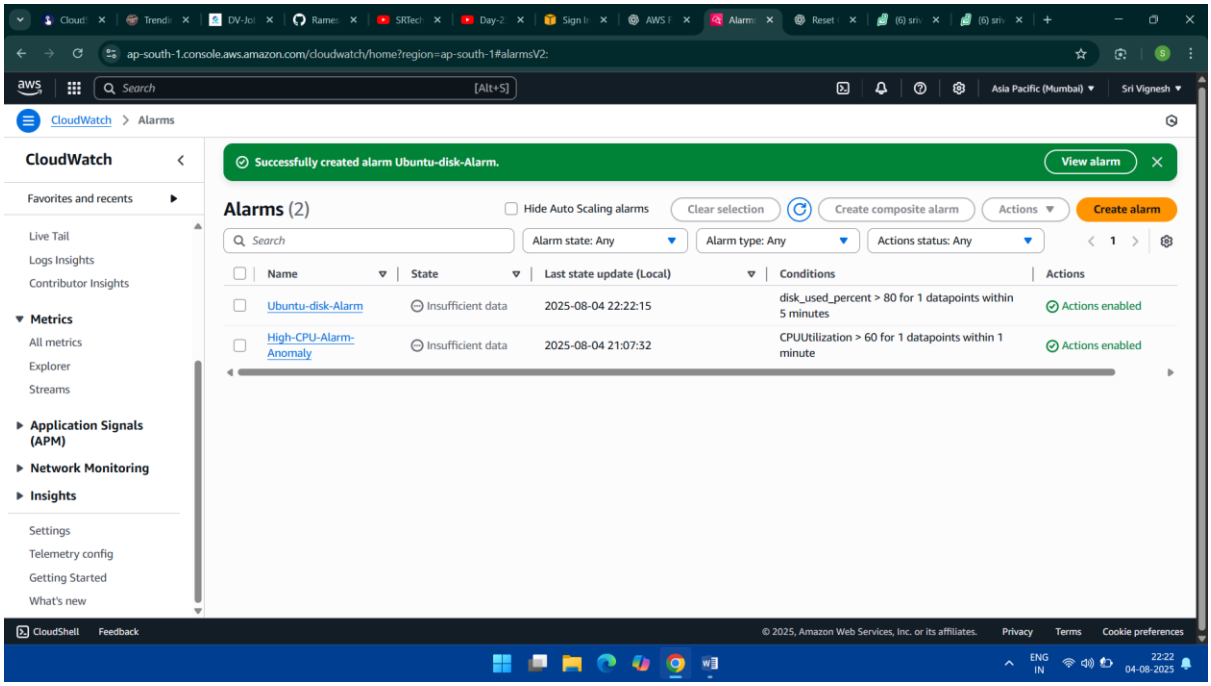


Step 2: Creating the Alarm

- Set the timer
- Set the Threshold limit to 80%, so it will remind when the limit reached.
- Pre-required is **SNS** configuration.



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Asia Pacific (Mumbai)
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Metrics
All metrics
Explorer
Streams
Application Signals (APM)
Network Monitoring
Insights
Settings
Telemetry config
Getting Started
What's new
Successfully created alarm Ubuntu-disk-Alarm.
View alarm
Alarms (2)
Hide Auto Scaling alarms
Clear selection
Create composite alarm
Actions
Create alarm
Search
Alarm state: Any
Alarm type: Any
Actions status: Any
Name
State
Last state update (Local)
Conditions
Actions
Ubuntu-disk-Alarm
Insufficient data
2025-08-04 22:22:15
disk_used_percent > 80 for 1 datapoints within 5 minutes
Actions enabled
High-CPU-Alarm-Anomaly
Insufficient data
2025-08-04 21:07:32
CPUUtilization > 60 for 1 datapoints within 1 minute
Actions enabled
CloudShell
Feedback
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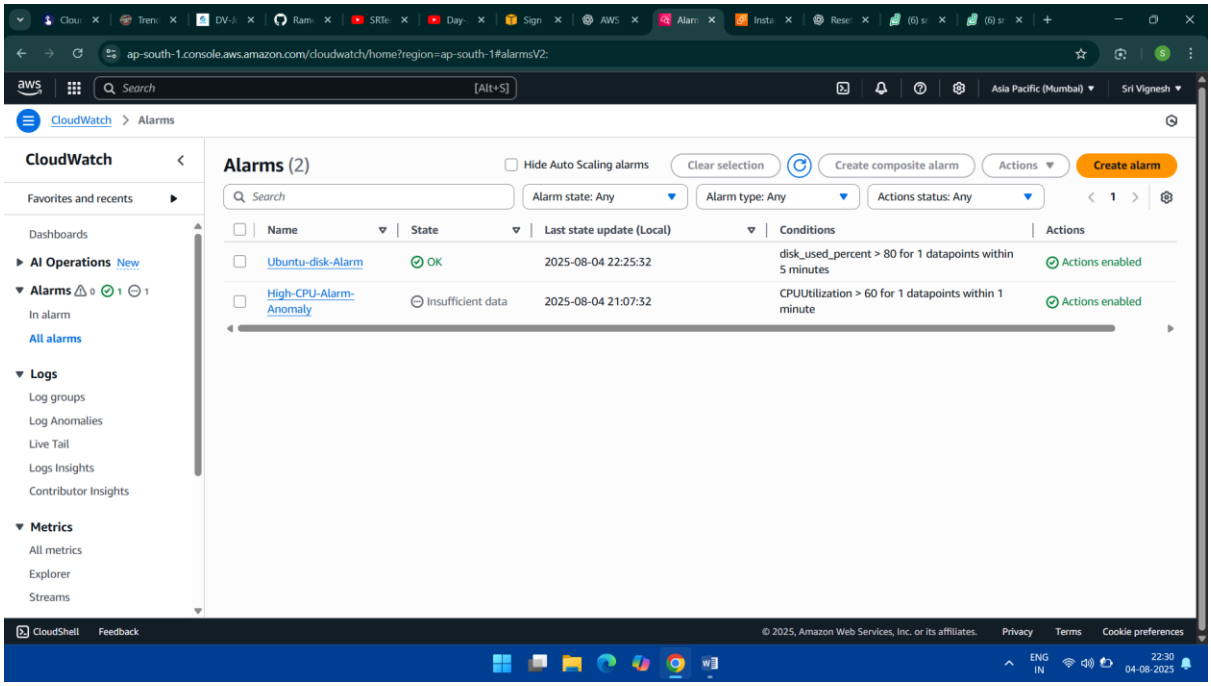
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Asia Pacific (Mumbai)
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CloudWatch > Alarms
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AI Operations New
Alarms
In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Contributor Insights
Metrics
All metrics
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Alarms (2)
Hide Auto Scaling alarms
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Create composite alarm
Actions
Create alarm
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Alarm state: Any
Alarm type: Any
Actions status: Any
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Last state update (Local)
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CloudShell
Feedback
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