SET UP A CLOUD-BASED MONITORING SERVICE

(Enable basic cloud monitoring and view metrics like CPU usage and disk I/O for your cloud VM.)

INTRODUCTION:

Amazon CloudWatch is a monitoring and observability service provided by AWS. It collects and analyzes logs, metrics, and events from AWS resources, applications, and services to provide real-time insights into system performance and operational health. Amazon CloudWatch is a monitoring and observability service provided by AWS. It collects and analyzes logs, metrics, and events from AWS resources, applications, and services to provide real-time insights into system performance and operational health.

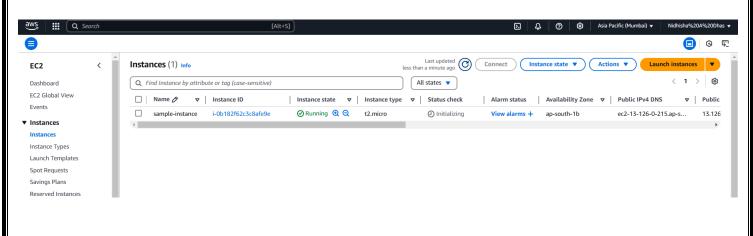
IMPORTANCE:

- 1. Metrics Monitoring: Collects and visualizes performance metrics (CPU, memory, disk I/O, network usage, etc.).
- 2. Logs Management: Captures and stores application/system logs using CloudWatch Logs.
- 3. Triggers alarms when thresholds are breached (e.g., CPU > 80%).
- 4. Detects state changes in AWS services and triggers automatic actions.
- 5. Monitors application endpoints using synthetic monitoring.

STEP BY STEP OVERVIEW:

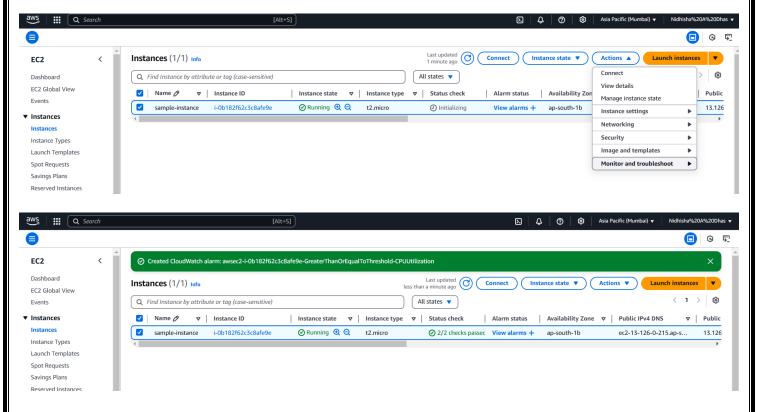
Step 1: CREATE AN EC2 INSTANCE

- Login into your AWS console.
- Navigate into EC2 dashboard, and create your own Instance.



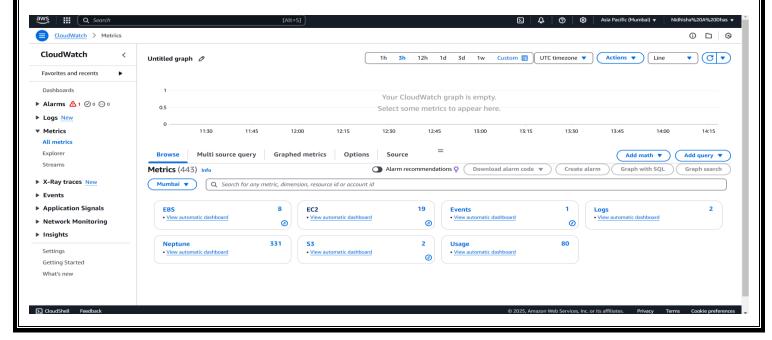
Step 2: MANAGE CLOUDWATCH ALARMS

 Select your EC2 instance, go to 'Actions > Monitor and troubleshoot' and click on 'Manage CloudWatch Alarms'

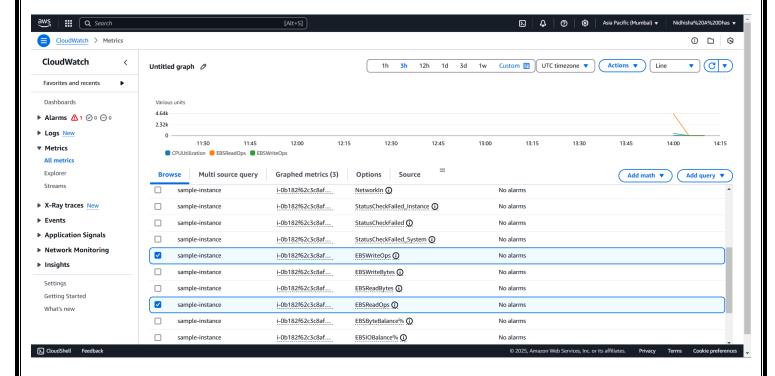


Step 3: VIEW CLOUDWATCH METRICS

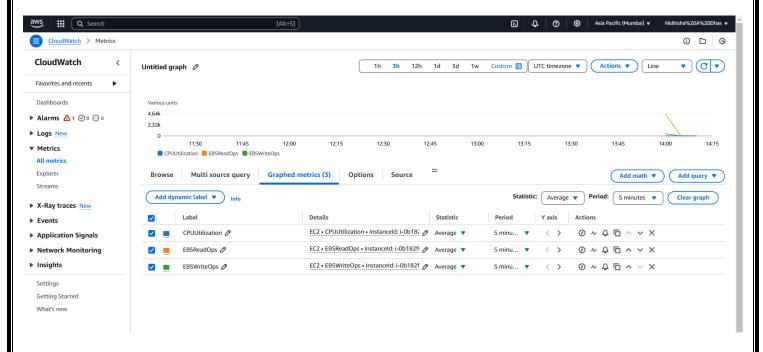
- Open CloudWatch on your AWS console and view your metrics.
- From metrics, select EC2 and then your instance.



• Browse to view metrics such as CPU utilization, EBSWriteOps, EBSReadOps etc.. and select them.



• Go to the Graphed metrics and view your graph.



CONCLUSION:

By completing this POC, we have learnt:

♣ To configure AWS CloudWatch to monitor EC2 instance metrics such as CPU utilization and Disk I/O.