Task 2: AWS CloudWatch Monitoring and Alerting

⊘Objective

Set up monitoring and alerting for EC2 instances using **AWS CloudWatch**. This task focuses on tracking system performance, creating alarms, and configuring alert notifications via email.

Steps Performed

Created a CloudWatch Dashboard

- Added a **line graph widget** to visualize metrics over time.
- Configured a dashboard to monitor **two EC2 instances**.

Added the Following 4 Metric Widgets:

- CPUUtilization Tracks the CPU usage.
- **NetworkIn** Measures incoming traffic.
- NetworkOut Measures outgoing traffic.
- **StatusCheckFailed** Indicates instance health issues.

Created a CloudWatch Alarm

- Metric: CPUUtilization
- Condition: **Greater than 80%** for **2 evaluation periods** (5 minutes each)
- Associated the alarm with the CloudWatch dashboard.

Configured SNS for Alerts

- Created a new **SNS topic** for alarm notifications.
- Subscribed my email address to the topic.

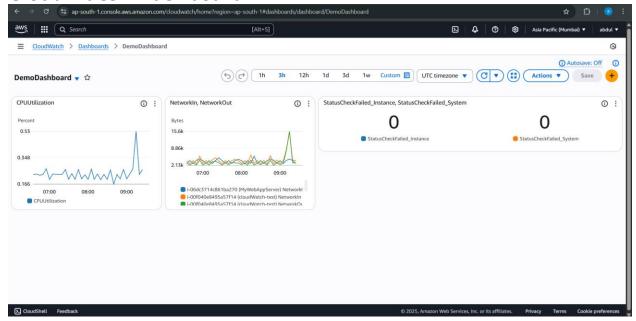
• Received the confirmation email and successfully confirmed the subscription.

Final CloudWatch Dashboard

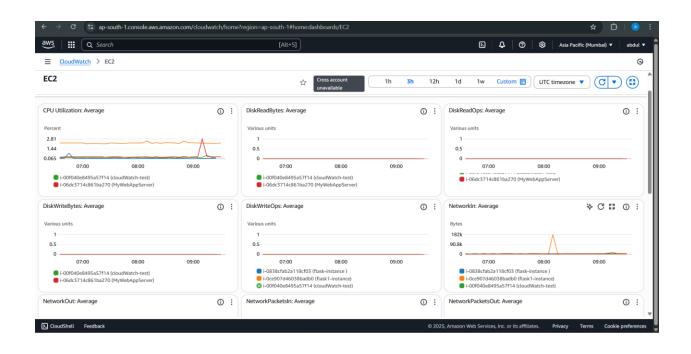
- Included CPU Utilization for both EC2 instances.
- Displayed alarm status on the dashboard.
- · Real-time visualization for effective monitoring.

Screenshots

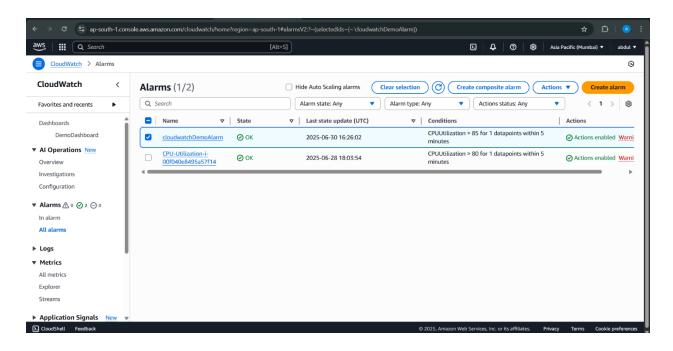
CloudWatch Dashboard



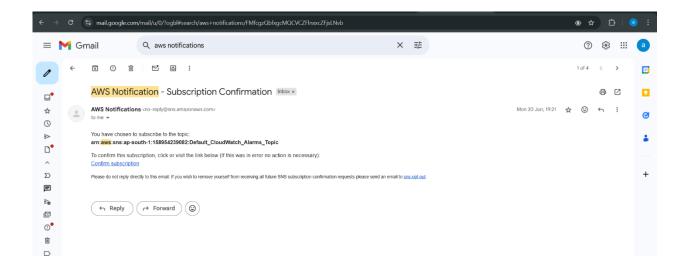
CPU Utilization Widget



Alarm Creation



Email Confirmation



Status

\mathscr{O} Task Completed

2 Date: [1st July 2025]

2 AWS Service Used: CloudWatch, EC2, SNS