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Subject- Cloud Computing

Colledge- DY. Patil International University

Task(2)- CLOUD MONITORING AND ALERT

Set up monitoring for a cloud- based application using aws cloudwatch,

deliverable: configured alerts and a dashboard showcasing metrics

- **Objective-**

To set up and demonstrate real-time monitoring and alerting for a cloud-based application using AWS CloudWatch, by configuring metrics, alarms, and dashboards to proactively track system health, performance, and receive notifications for critical issues like high CPU usage.

- **Key Goals:**

1. Monitor EC2 instance performance (like CPU utilization, network traffic).
2. Create alarms that trigger when thresholds (e.g., CPU > 80%) are breached.
3. Send alerts via SNS (e.g., email) when something goes wrong.
4. Visualize data on a custom CloudWatch dashboard.
5. Test and validate the monitoring setup by creating artificial load.

- Screenshots After Task Submission-

CloudWatch > Alarms > Create alarm

Alarm recommendations available
Turn on Recommendations to pre-populate the wizard with the recommended alarms.

Step 1
Specify metric and conditions

Step 2
Configure actions

Step 3
Add alarm details

Step 4
Preview and create

Configure actions

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

Create a new topic...
The topic name must be unique.

Default_CloudWatch_Alarms_Topic

SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).

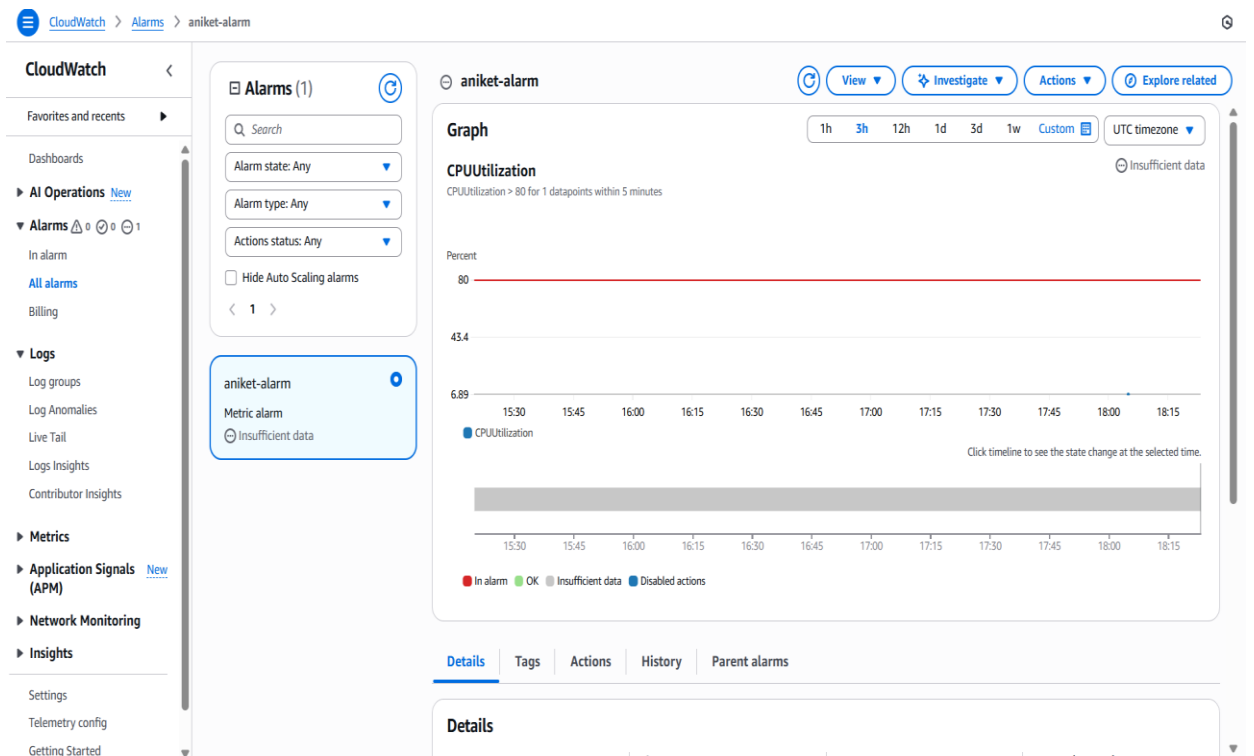
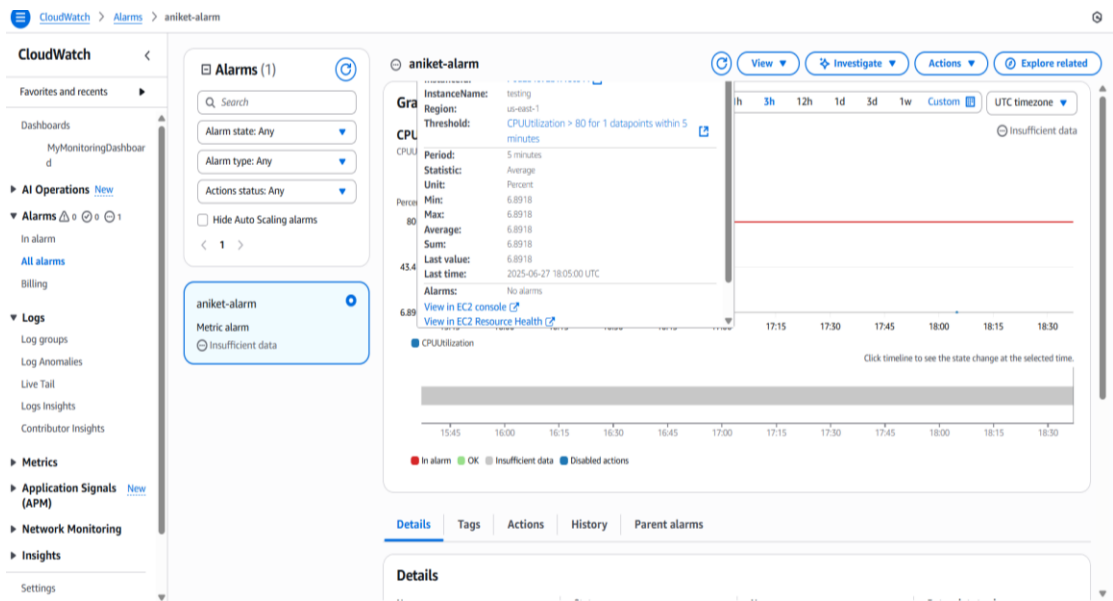
Email endpoints that will receive the notification...
Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.

taydeaniket105@gmail.com

user1@example.com, user2@example.com

Create topic

Add notification



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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

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

Create a new topic...
The topic name must be unique.

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SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).

Email endpoints that will receive the notification...
Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.

taydeaniket105@gmail.com
user1@example.com, user2@example.com

Create topic

Add notification



Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

arn:aws:sns:us-east-1:209479291685:alert-topic:b5716f68-eec3-4b3e-b375-a793e80a6ace

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