Project 4
Monitoring and Logging

Sub Tasks

Sub Task 1: Set up AWS CloudWatch for basic monitoring.

- Create CloudWatch Alarms for key metrics (e.g., CPU utilization, memory usage).
- Configure notifications for alarm actions (e.g., SNS, Lambda).
- Set up CloudWatch Dashboards for an overview of system health.

Sub Task 2: Create custom metrics and alarms to monitor specific application behaviour.

- Define custom metrics based on application-specific APIs.
- Implement CloudWatch Alarms for these custom metrics.
- Create CloudWatch Events for automated responses to specific events.

Sub Task 3: Configure AWS CloudTrail for auditing.

- Enable CloudTrail in all AWS regions.
- Set up CloudTrail to log to an S3 bucket and optionally to CloudWatch Logs.
- Define trails with specific filters for more granular logging.

Sub Task 4: Implement security monitoring and anomaly detection.

- Create CloudWatch Alarms for security-related events.
- Implement anomaly detection using CloudWatch Insights.
- Integrate security monitoring with AWS Security Hub for a comprehensive view.