Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	Team 4.2
Project Name	Network anomaly detection
Maximum Marks	4 Marks

Solution Architecture:

Staying one step ahead of potential threats is critical in network security. Our suggested AWS solution architecture for Network Anomaly Detection is an intelligent and user-focused method for protecting digital environments. Through the smooth integration of state-of-the-art technologies from Amazon Web Services (AWS), we have developed a robust system that places an emphasis on adaptability, real-time insights, and ease of use.

The proposed list of AWS services are:

- Amazon S3
- Amazon VPC
- AWS CloudFormation
- AWS CloudTrail
- Amazon EC2
- API Gateway
- Amazon Sagemaker
- Amazon Cloudfront
- AWS Auto Scaling
- AWS Lambda
- AWS CloudWatch
- Amazon Neptune

List of other services which can be used further.

- Amazon Kinesis
- Amazon Elasticsearch
- AWS IAM (Identity and Access Management)
- AWS KMS (Key Management Service)
- Amazon Cognito

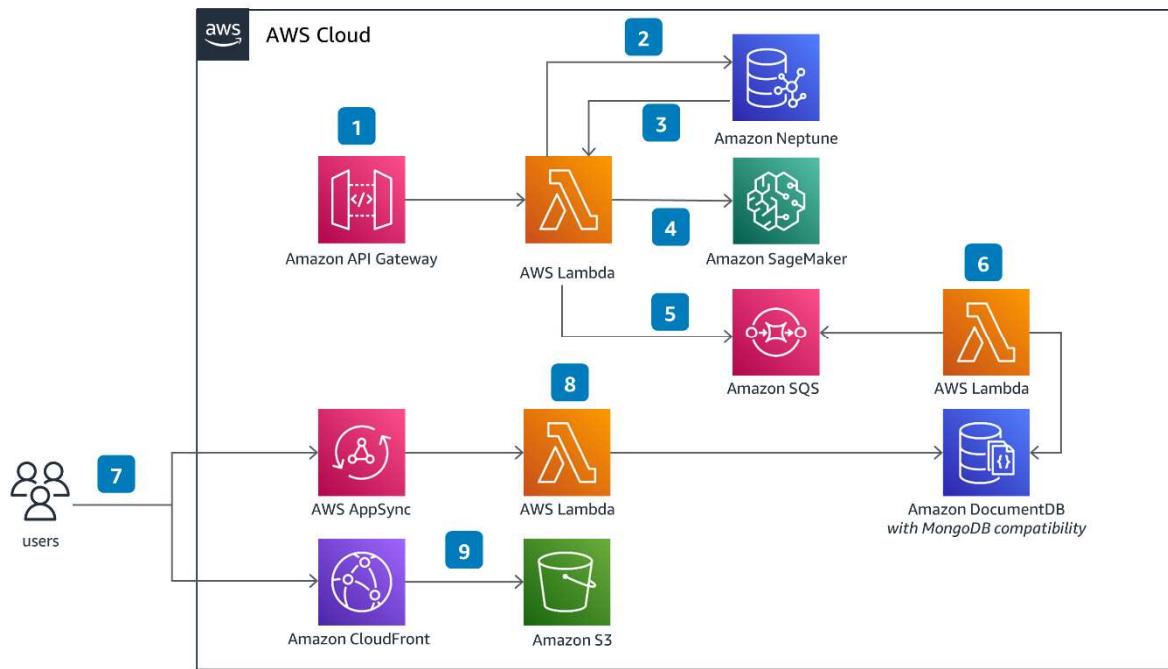**Example - Solution Architecture Diagram:**

Figure 1: Architecture and data flow of the network anomaly detection sample application

Reference: https://aws.amazon.com/solutions/