Lab: Deploying Scalable Data Stores on AWS

Objective

Provision Amazon Aurora and DynamoDB with auto-scaling and secure access.

Part A: Console Steps

1. Create an Aurora DB Cluster with Multi-AZ

2. Configure an IAM role for DB access

3. Create a DynamoDB table with on-demand capacity

4. Enable encryption and point-in-time recovery

Part B: Terraform Steps

1. Create an Aurora cluster and DB instance

2. Create DynamoDB table with TTL and scaling policies

Validation

- Connect to Aurora via client

- Insert/read data from DynamoDB

- Verify CloudWatch metrics and logs