

Amazon DynamoDB: Building NoSQL Database-Driven Applications

Course Contents -

Relational and NoSQL Databases

- SQL, NoSQL and DynamoDB
 - Relational databases and the problems that need solving
 - How most NoSQL databases work
 - Introduction to DynamoDB
 - How DynamoDB works and how it's different than other NoSQL databases
 - Basic DynamoDB code operations

Recovery, SDK Exploration, Monitoring and Partitioning

- Recovery and SDKs
 - Backing up and restoring a DynamoDB table
 - DynamoDB API Working with datasets
- Monitoring
 - Monitoring DynamoDB
- Partition keys
 - Partition keys and their impact on performance

Security and State

- Working with DynamoDB Security
 - Encryption and Compliance
 - Access controls - Identity and Access Management (IAM) and Virtual Private Cloud (VPC) end points
- State
 - Global tables
 - Stateless applications
 - Streams
- Acceleration
 - DynamoDB Accelerator

Diving deep and best practices

- Query Optimization
 - Optimistic Locking
 - LSI and GSI
 - DynamoDB API - writing better queries
- Schema Design
 - Single table
 - DynamoDB transactions and versioning