

COURSE CONTENT

Course Introduction

- **Concepts**
- **Scaling**
- **SQL and Complex Transactions**
- **Documents Overview**
- **Installing MongoDB (windows)**
- **Installing MongoDB (linux)**
- **JSON**
- **Dynamic Schema**
- **Mongoimport**
- **Cursors Introduction**
- **Query Language: Basic Concepts**
- **Query Language: Projection**
- **Query Language: Advantages of a Dynamic Schema**
- **Shell: Queries**
- **Sorting**
- **Query Language**

Crud,Admin Commands

- **Insertion**
- **Update**
- **save() Command**
- **Partial Updates & Document Limits**
- **Removing Documents**
- **Multi Update**
- **Upsert**
- **Wire Protocol**
- **Bulk() Operations and Methods**
- **Common Commands**
- **db.runCommand()**
- **db.isMaster()**
- **db.serverStatus()**
- **db.currentOp() & db.killOp()**

- *collection.stats() & collection.drop()*
- *Review of Commands*

Replication Overview

- *Asynchronous Replication*
- *Statement-based vs. Binary Replication*
- *Replication Concepts*
- *Automatic Failover*
- *Recovery*
- *Starting Replica Sets*
- *Initiating a Replica*
- *Replica Set Status*
- *Replica Set Commands*

Scalability

- *Sharding & Data Distribution*
- *Replication with Sharding*
- *Chunks & Operations*
- *Sharding Processes*
- *Cluster Topology*

Overview (Tools, Cloud Manager, Bash Scripting)

- *Tools -RoboMongo*
- *Cloud Manager (Configuring and Working with MMS, Automation)*
- *Bash Scripting (Basics)*