





ENROLL NOW













Getting Started with MongoDB

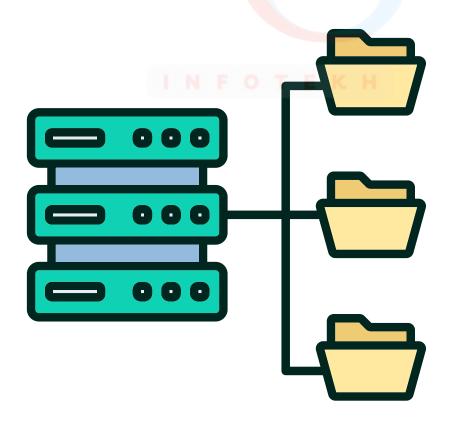
- Execution of a JavaScript file in MongoDB
- Making the output of find readable in shell
- Complementary Terms
- Installation
- Basic commands on mongo shell
- Hello World

CRUD Operations

- Create
- Update
- Delete
- Read
- Update of embedded documents
- More update operators
- "multi" Parameter while updating multiple documents

Database & Collection Management

- Getting database information
- List all collections in the database
- List all databases



















Querying for Data (Getting Started)

- Find()
- FindOne()
- limit, skip, sort and count the results of the find() method
- Query Document Using AND, OR and IN Conditions
- find() method with Projection
- Find() method with Projection
- Update Operators
- \$set operator to update specified field(s) in document(s)

Upserts and Inserts

Insert a document

Collections

- Create a Collection
- Drop Collection

Aggregation

- Count
- Sum
- Average
- Operations with arrays
- Aggregate query examples useful for work and learning
- Match
- Get sample data
- Remove docs that have a duplicate field in a collection (dedupe)
- Left Outer Join with aggregation (\$Lookup)
- Server Aggregation
- Aggregation in a Server Method
- Java and Spring example

Indexes

- Index Creation Basics
- Dropping/Deleting an Index
- Sparse indexes and Partial indexes
- Get Indices of a Collection
- Compound
- Unique Index
- Single field
- Delete
- List

















Bulk Operations

• Converting a field to another type and updating the entire collection in Bulk

2dsphere Index

• Create a 2dsphere Index

Pluggable Storage Engines

- WiredTiger
- MMAP
- In-memory
- mongo-rocks
- Fusion-io
- TokuMX

Java Driver

- Fetch Collection data with condition
- Create a database user
- Create a tailable cursor

Python Driver

- Connect to MongoDB using pymongo
- PyMongo queries
- Update all documents in a collection using PyMongo

Mongo as Shards

Sharding Environment Setup

Replication

- Basic configuration with three nodes
- Mongo as a Replica Set
- MongoDB as a Replica Set
- Check MongoDB Replica Set states
- MongoDB Configure a ReplicaSet to support TLS/SSL
- How to configure a ReplicaSet to support TLS/SSL?
- How to connect your Client (Mongo Shell) to a ReplicaSet?

















- Authentication Mechanisms
- MongoDB Authorization Model
- Built-in Roles

Configuration

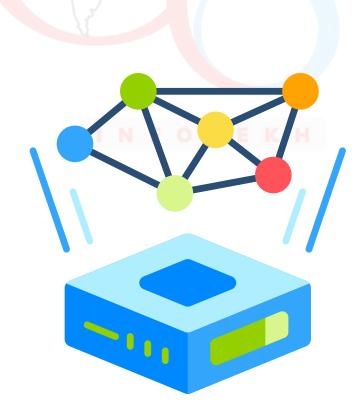
· Starting mongo with a specific config file

Backing up and Restoring Data

- Basic mongo dump of local default mongod instance
- Basic mongorestore of local default mongod dump
- Mongo import with JSON
- Mongo import with CSV

Upgrading MongoDB Version

• Upgrading to 3.4 on Ubuntu 16.04 using apt



















Thank You for Going Through MongoDB Curriculum We hope this guide has provided a clear and structured learning path to strengthen your skills in MongoDB.

*** NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

Need Help or Guidance? Feel free to contact our course support team: **Course Coordinator**

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