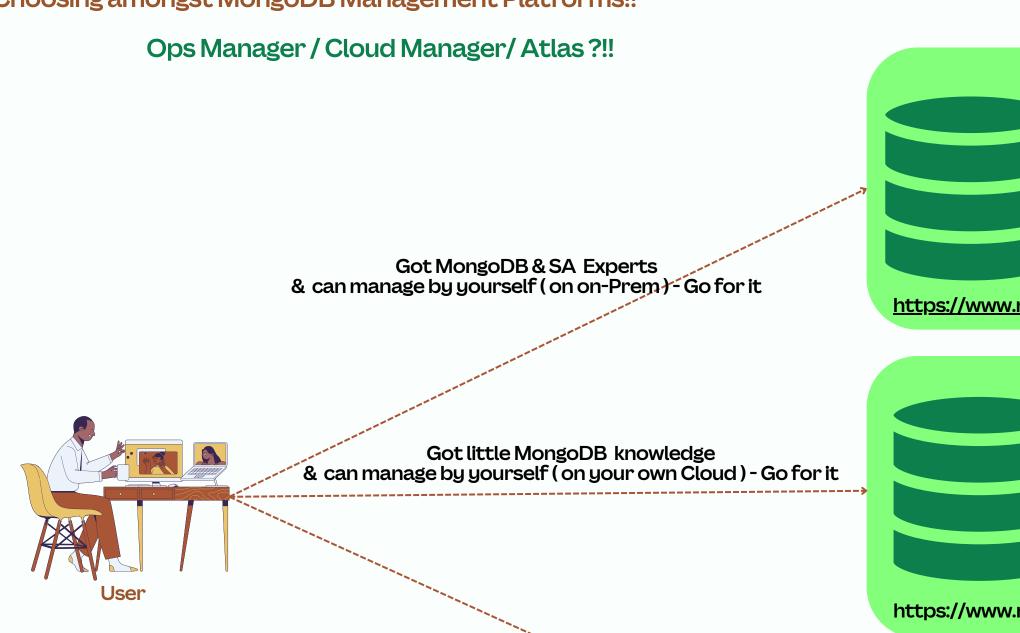
Choosing amongst MongoDB Management Platforms!!



OPS MANAGER

Self-hosted, Managment Platform

To deploy, monitor, back up, and scale MongoDB on your own infrastructure.

https://www.mongodb.com/products/ops-manager

- CLOUD MANAGER
- Cloud-based Deploy, Monitor, Backup, Automate
- Deploy MongoDB on your own Cloud-based Management Platform

• Self-hosted Management Platform • Deployments on your own Infra

https://www.mongodb.com/cloud/cloud-manager

MONGODB ATLAS

Fully Managed Deploy, Monitor, Backup, Automate

Atlas

- Fully Managed
- Automayed Deplyoments
- Simple Config Changes
- High Availability
- Built-in Security
- Automated Backups
- Live Migration Service
- Supports 3 Major Cloud Vendors

No much MongoDB knowledge, but still you want Hassle free & Fully Managed - Go for it

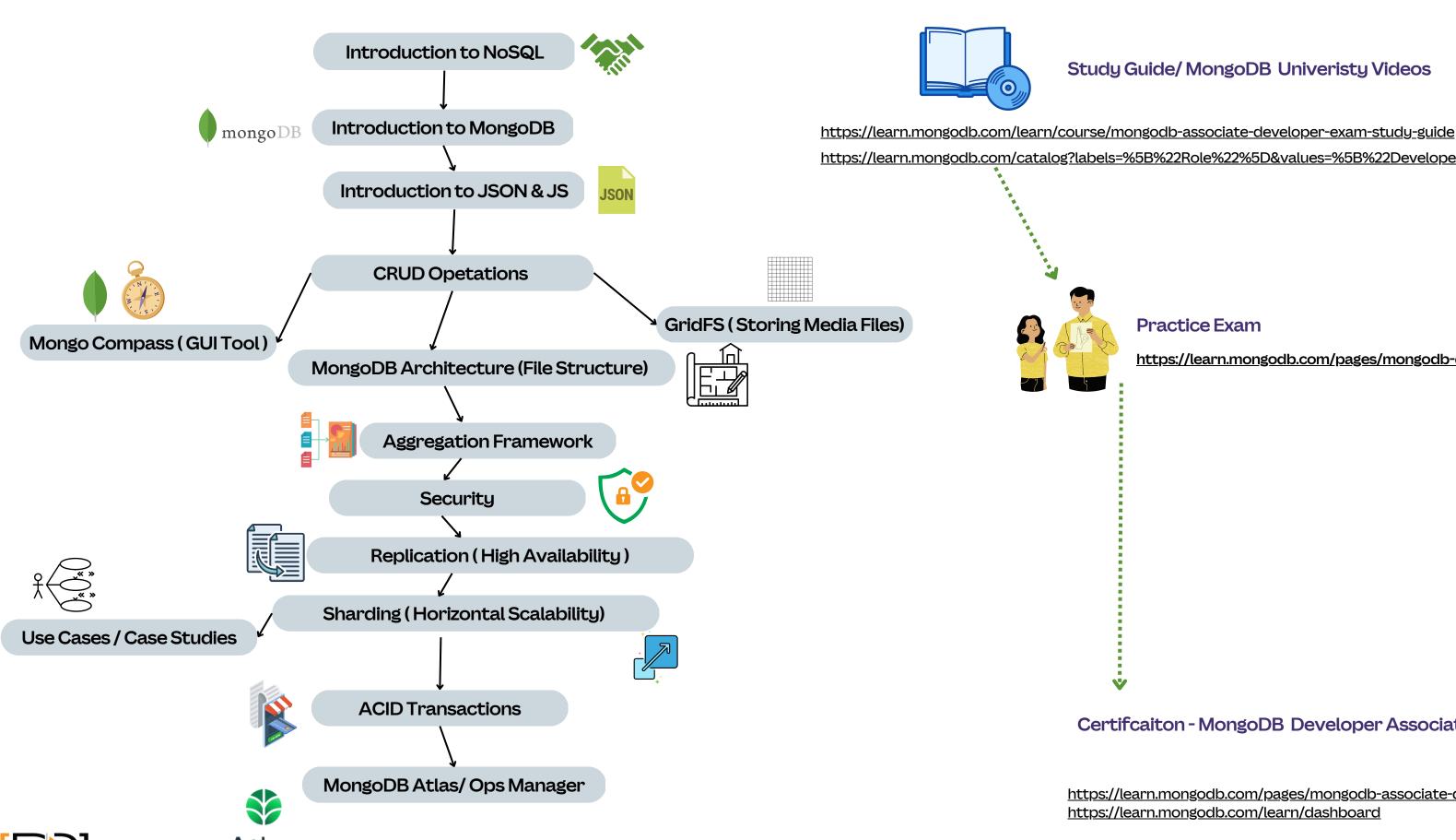


https://cloud.mongodb.com/





https://cloud.mongodb.com/





https://learn.mongodb.com/catalog?labels=%5B%22Role%22%5D&values=%5B%22Developer%22%5D

https://learn.mongodb.com/pages/mongodb-developer-practice-questions

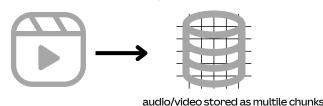
Certification - MongoDB Developer Associate



https://learn.mongodb.com/pages/mongodb-associate-database-administrator-exam

https://learn.mongodb.com/pages/mongodb-associate-database-administrator-exam

GridFS to insert Audio/Video files to DB



Shard1

Sharding

Scalability

3 TYPES

DC-AWARE

Database

Collection

Collection

Collection

RANGE



Storage Engine Crash Resiliency **Compress Methods**

: Wired Tiger (wt) : Journal Log :Snappy/glip/none : BSON with wt ext

Storage Format

INDEXES

Primary Index: On _id Unique Composite (2 or more fields) Multi Key (On Array Fields) Time to Live Partial Filter / Sparse Wild Card Text

AGGREGATION FRAMEWORK Complex queries

ENTERPRISE FEATURES

GeoSpacial .. many more

Auditing AD/LDAP **Encryption at Rest** In-Memory Storage Engine **Queryable Encryption**

GUIS

Mongo Compass (Free) Studio 3T (commercial)

MANAGEMENT TOOLS/APPS

MongoDB Atlas (Cloud) Cloud Manager (Enterprise) Ops Manager (OnPrem)

GENERAL LOG mongod.log

CONFIGGURATION /etc/mongod.conf(YAML File)

RDBMS Database RDBMS Table

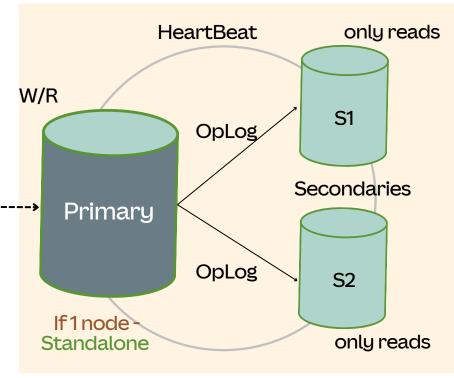
RDBMS Rows





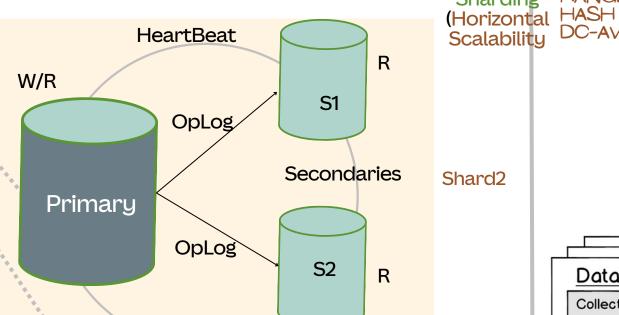
Credits: Srinivas Mutyala https://www.linkedin.com/in/mutyalasrinivas/

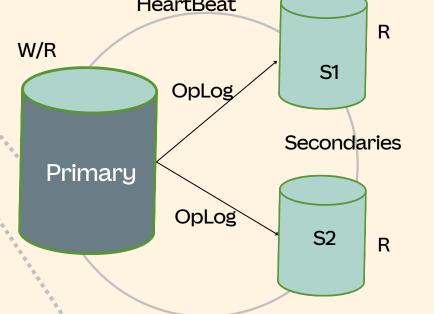
If 2/+ nodes - It's Replication (High Availability)

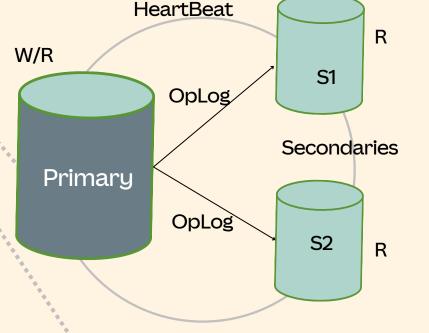


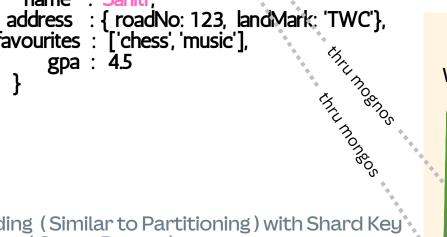
HeartBeat R W/R S1 OpLog/ Secondaries Primary OpLog S2 R

Shard N









Driver

java/C# ...many more

• Sharding (Similar to Partitioning) with Shard Key

MONGO DB

Explained In-short

db.collection.find()

= select * from collection:

db.collection.insertMany([{ JSON1}, { JSON2},...])

: 7654,

favourites: ['chess', 'music'],

4.5

mongos (Query Router)

name

gpa:

APPLICATION

Example JSON : { __id

- config servers (PSS) (meta data)
- Balancer (data/chunk migrations between shards)

