

MongoDB Workshop

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Universidad de Huelva
Escuela Técnica Superior de Ingeniería

Learn all you need about MongoDB!

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Agenda

Basic Concepts

- MongoDB Concepts (High Availability, Data Safety, Automatic Failover, Scalability)
- MongoDB Products (Drivers, Ops/Cloud Manager, Compass, Hadoop, Spark and BI connectors)
- MongoDB Characteristics and Utilities
- JSON Document vs SQL Schema Design

Data Modelling

Installation Types

- Standalone Installation
- Replica Set
- Sharded Cluster

First Steps & CRUD

Data Analytics With The Aggregation Framework

Indexing

- Types & Properties (Unique, TTL, Capped, Full Text Search, GeoSpatial, etc)
- How To Improve Your Queries

Replica Set

- How Does It Work and How To Set Up
- Automatic Failover
- Node Data Sync

Sharded Cluster

- How Does It Work and How To Set Up
- Components & Concepts (Chunk, Split, Migration, Balancer)

How To Scale Your App

- Shard Key
- Sharding a Collection
- Pre-Splitting
- Tag-Aware Sharding

MongoDB Python Driver Overview