DBA MongoDB

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# M102: MongoDB for DBAs

Introduction/Course by Dwight Merriman, chairman and co-founder and Will Cross.

Objective; Operate, Administer, Set Up and maintain production MongoDB clusters.

Topics

* Schema Design
* Performance Tuning and Optimization
  + Set up Indexes and optimize
* MongoDB Administrative Shell
* Standard Tasks;
  + Backups
  + Restoring Backups
  + Security Configurations
* Building Large Scale Clusters and Systems
  + Replication
  + Sharding

# Course

* 7 weeks
  + Videos – 2hrs
  + Quizzes –not graded
  + Homework –graded -50% of grade
  + Final – 50%
    - Pass >=65%

# Chapter 1

* History/Purpose of MongoDB
* Basic Concepts
  + Scaling
  + Document Model
* Administrative Shell

## Concepts

* What it’s for/why
  + Started 5 years ago
    - [SCALE]Change of Hardware
      * World of lots of Parallelism
        + Cores Parallelism
        + Servers Parallelism
      * COMMODITY SERVERS
      * COMMODITY NETWORKS
      * Distributive computing
      * Cloud Computing
    - Scaling up Desire
      * Without big cost, ”Big Data” desire
    - [DEV]App Development
      * Easier and more elegant
    - [COMPEX Data]Data Complex/unstructured or polymorphic
      * Varies, object by object – easily dealt with
* Philosophy
* rationale