Introduction to MongoDB for DBAs (TTDB4680)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

®MongoDB for DBAs®is a three-day hands-on course that explores the concepts, architecture and pitfalls of managing a MongoDB installation.® This course is targeted to the DBA who is familiar with the concepts and tasks of working with a Relational database and is not responsible for a NoSQL MongoDB database.® You will learn the critical aspects of MongoDB and use it to solve data management challenges.®

About This Course

MongoDB is fast becoming the database of choice for big data applications, being one of the most popular and widely implemented NoSQL databases. Its scalability, robustness, and flexibility have made it extremely popular among business enterprises who use it to implement a variety of activities including social communications, analytics, content management, archiving and other activities. This has led to an increased demand for MongoDB administrators who have the skills to handle cross functional duties.

Geared for experienced DBAs, MongoDB for DBAs is a three-day hands-on course that explores the concepts, architecture and pitfalls of managing a MongoDB installation. This course is targeted to the DBA who is familiar with the concepts and tasks of working with a Relational database and is not responsible for a NoSQL MongoDB database. You will learn the critical aspects of MongoDB and use it to solve data management challenges. You will learn to manage MongoDB effectively by gaining expertise in MongoDB administration tools, syntax, MongoDB installations, configurations, security, troubleshooting, backup, scaling and many other features. The focus of this course is on practical skills and applying the DBA existing database knowledge to a MongoDB installation.

Who Should Attend

This introductory-level course is for experienced DBAs who will be working with MongoDB

Prerequisites & Entry Requirements

General Prerequisites:

This introductory-level course is for experienced DBAs who will be working with MongoDB. In order to gain the most from this course you should have:

Prior practical experience in Database Administration

Experience working with Linux and be comfortable working with command line

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This skills-focused course is about 50% hands-on lab to lecture ratio, combining expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert instructor, you'll explore:

-The MongoDB Basic Architecture and Installation

-MongoDB administration

-User Management

-MongoDB security

-Indexes

-Backup & Recovery

-High Availability / Replication

-Diagnostics & Troubleshooting

Detailed Course Outline

Storage Basics

What is a Storage Engine

WiredTiger Storage Engine

In-Memory Storage Engine

Encrypted Storage Engine

MongoDB Document Model

JSON and BSON

MongoDB Data Types

MongoDB Setup

Atlas Setup / Local MongoDB Setup

CRUD Basics

Insert Command

Find Command

Query Operators

Lab: Finding Documents

Remove Command

Updating Documents

CRUD Advanced

Bulk Writes

Retryable Writes

Find and Modify

Transactions

Performance Basics

Indexes

Aggregation Basics

Aggregation Pipeline Concepts

Aggregation Pipeline Stages

Aggregation Pipeline Expressions

Aggregation Advanced

$lookup stage

$graphLookup stage

$expr operator

Faceted Search

Type Conversions

Advanced Expression Operators

Date Expression Operators

Expression Variables

Aggregation Pipeline Optimizations

Aggregation in a Sharded Cluster

Replication Basics

MongoDB Replica Sets

Replica Set Use Cases

Replication Mechanics

Replication Advanced

Using Write Concern to Tune Durability Semantics

Using Read Concern to Tune Read Isolation

Using Read Preference

Replica Set Tag Sets

Sharding Basics

Sharding Concepts

When to Shard

What is a Shard Key

Zoned Sharding / MongoDB Atlas Global Clusters

Sharding Advanced

Components of a Sharded Cluster

Sharding Mechanics

Choosing a Good Shard Key

Schema Design

Schema Design Core Concepts

Common Patterns

Lab: Data Model for an E-Commerce Site

Security Basics

Authentication & Authorization

Network Encryption

Encryption at Rest

Auditing

Application Development and Drivers

Application Development with MongoDB Drivers

Performance Advanced

Designing Compound Indexes

Indexing Arrays

Covered Queries

Using hint() and Index Filters

Additional Course Details

Nexus Humans Introduction to MongoDB for DBAs (TTDB4680) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to MongoDB for DBAs (TTDB4680) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to MongoDB for DBAs (TTDB4680)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to MongoDB for DBAs (TTDB4680) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to MongoDB for DBAs (TTDB4680) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to MongoDB for DBAs (TTDB4680)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to MongoDB for DBAs (TTDB4680). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: MongoDB; Databases

Q: Why choose Nexus Human for Introduction to MongoDB for DBAs (TTDB4680)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to MongoDB for DBAs (TTDB4680) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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