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The MongoDB Certification training course provides a comprehensive knowledge of the NoSQL databases. The delegates will be introduced to NoSQL database system, the scope of NoSQL in real world scenarios, MongoDB integration with Java, JasperSoft and concept of Sharding to learn scalability and availability. The course equips the delegates with the essential knowledge and skills required to work with NoSQL databases in the best companies. The course enables the delegates to use the fundamentals of MongoDB for creating and deploying a scale-able and efficient database and understanding Big Data trends. During the course, the delegates will learn to perform installation, configuration, and maintenance of MongoDB environment, process large amounts of data using MongoDB tools and proficiently store unstructured data in MongoDB.

MongoDB is one of the most extensively used NoSQL tools in the Big Data domain. It is also being used by some of the biggest corporations worldwide. It can be used for data sets due to its scalable and versatile nature. The MongoDB Certification training course teaches delegates how MongoDB can be accessed and covers MongoDB installation, data indexing, aggregation, Schema design and data modelling. By the completion of the course, the delegates will be able to deploy and maintain a highly scalable and performance-oriented database and become an invaluable resource as an Architect, Developer or Administrator.

Prerequisites

No specific pre-requisites are required for attending the MongoDB course. However, a basic understanding of a text editor, database concepts and knowledge of any mainstream programming language would be useful.

Course Objectives

- Understand the roles played by MongoDB experts
- Learn how to troubleshoot Performance issues
- Explore MongoDB Backup and Recovery options and strategies
- Install replicated cluster, Managing ReplicaSets etc.
- Develop and deploy applications using various MongoDB tools
- Understand MongoDB and Hadoop Integration
- Integrate MongoDB with tools like Pentaho and Jaspersoft
- Understand MongoDB administration activities – Health Check, Performance tuning, Backup, Recovery
- Use MongoDB Cloud products for managing MongoDB deployments
- Design Schema using Advanced Queries
- Learn about MongoDB Aggregation framework
- Understand scalability and availability in MongoDB using Sharding
- Understand Shards, Config Server, Keys, Query Router
- Perform Data Migration in MongoDB with Hadoop

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Document Database

- Documents (objects) Map Nicely to Programming Language Data Types
- Embedded Documents and Arrays Reduce the Need for Joins
- Dynamic Schema Makes Polymorphism Easier

High Performance

- Embedding Makes Reads and Writes Fast
- Indexes can Include Keys from Embedded Documents and Arrays
- Optional Streaming Writes (No Acknowledgements)

High Availability

- Replicated Servers with Automatic Master Failover

Easy Scalability

- Automatic Sharding Distributes Collection Data Across Machines
- Eventually-Consistent Reads can be Distributed Over Replicated Servers

Advanced Operations

- With MongoDB Management Service (MMS) MongoDB Supports a Complete Backup Solution and Full Deployment Monitoring

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