

Module 1 – Introduction to Mongo DB - Architecture and Installation

MongoDB Demo

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Demo:

As a data administrator of our organization, we are responsible to maintain and update the organizational data at regular intervals. The data obtained from various web applications is in JSON or XML format. So it is important to convert data from JSON/XML format to SQL queries before we store it to the SQL database. Moreover, the extend query execution time affects the database performance.

To overcome these drawbacks and simplify the maintenance of the database, we can move from a SQL database to a NoSQL database, for example MongoDB.

1. We can install MongoDB on a local machine and store all the data in this database, directly in JSON format without writing any complex SQL queries.
2. To install MongoDB, access the link as shown on the screen.
<https://www.mongodb.com/download-center#community>
3. Click the **Download** (msi) button.
4. Run the downloaded .msi file to install MongoDB and click **Next**.
5. Check the “**I accept the terms in the License Agreement**” checkbox and click **Next**.
6. From the Choose Setup Type, click the **Complete** button to install all the program features of the software.
7. The Custom button allows the user to choose the program features to be installed according to the requirement.
8. **Click Install.**
9. After the installation is complete, click **Finish**.
10. Now create a folder named “**data**” consisting of another folder named as “**db**” in C drive, that is, create a location - **C:\data\db**.
11. Now, double click **mongod.exe** file present in **C:\Program Files\MongoDB\Server\3.4\bin** location.
12. After the file runs successfully, access and run the **mongo.exe** file present in the same location.
13. For a user friendly UI of Mongo DB, we can install **Nosqlclient**.
14. Download the Nosqlclient application setup using the link as shown on the screen.
<https://github.com/Nosqlclient /Nosqlclient /releases/tag/2.2.0>
15. Download the required zip file according to the operating system.
16. Unzip the downloaded file and run the **Nosqlclient .exe**.
17. An Open **File - Security Warning** pop appears.
18. Click the **Run** button.
19. Thus, we have successfully installed the MongoDB database and Nosqlclient in the system.