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Chapter 1
Node Js MongoDB Connection

Node.js Create Connection with MongoDB

MongoDb is a NoSQL database. It can be used with Node.js as a database to insert and retrieve data.

Download MongoDB

Open the Linux Command Terminal and execute the following command:

apt-get install mongodb

It will download the latest MongoDB according to your system requirement.

Install MongoDB

After the complete download, use the following command to install MogoDB.

npm install mongodb --save

Use the following command to start MongoDb services:

service mongodb start

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How to install MongoDB on Windows

Firstly you will have to download the latest release of MongoDB:

How to download MongoDB?

You can download an appropriate version of MongoDB which your system supports, from the link "http://www.mongodb.org/downloads" to install the MongoDB on Windows. You should choose correct version of MongoDB acording to your computer's Window. If you are not sure what Window version are you using, open your command prompt and execute this command:

C:\ wmic os get osarchitecture

MongoDB for Windows Server 2008 R2 edition

This version of MongoDB runs only on Window Server 2008 R2, Window7 64 bit, and the newer version of windows. You can't operate it on older version of windows.

MongoDB for 64 bit Windows

This version of MongoDB runs only on newer version of Windows contains 64 bit operating syst

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MongoDB for 32 bit Windows

This version of MongoDB runs on only 32 bit windows. 32 bit version of MongoDB is generally used in testing and development purposes because it supports databases smaller than 2 GB.

How to install the downloaded file
In Window explorer, locate the downloaded MongoDB msi file, double click on that file and follow the instructions appears on the screen. These instructions will guide you to complete the installation process.

Note: If you want to move the MongoDB folder from default position to another position, it is necessary to issue the move command as an administrator. let us take an example to move the folder to C : \mongodb:

Select Start Menu > All Programs > Accessories

You can install MongoDB in any folder because it is self contained and does not have any other system dependency.

How to set up the MongoDB environment
A data directory is required in MongoDB to store all the information. Its by default data directory path is \data\db. you can create this folder by command prompt.

md\data\db

If you want to start MongoDB, run mongod.exe

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You can do it from command prompt.

C:\Program Files\MongoDB\bin\mongod.exe
This will start the mongoDB database process. If you get a message "waiting for connection" in the console output, it indicates that the mongodb.exe process is running successfully.

For example:

When you connect to the MongoDB through the mongo.exe shell, you should follow these steps:

Open another command prompt.
At the time of connecting, specify the data directory if necessary.
Note: If you use the default data directory while MongoDB installation, there is no need to specify the data directory.
For example:

C:\mongodb\bin\mongo.exe
If you use the different data directory while MongoDB installation, specify the directory when connecting.

For example:

C:\mongodb\bin\mongod.exe-- dbpath d:\test\mongodb\data
If you have spaces in your path, enclose the entire path in double space.

For example:

C:\mongodb\bin\mongod.exe-- dbpath "d: \ test\mongodb\data"

How to configure directory and files

First to create a configuration file and a directory path for MongoDB log output after that create a specific directory for MongoDB log files.