## MONGODB ENVIRONMENT

http://www.tutorialspoint.com/mongodb/mongodb\_environment.htm

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# **Install MongoDB On Windows**

To install the MongoDB on windows, first doownload the latest release of MongoDB from <a href="http://www.mongodb.org/downloads">http://www.mongodb.org/downloads</a> Make sure you get correct version of MongoDB depending upon your windows version. To get your windows version open command prompt and execute following command

```
C:\>wmic os get osarchitecture
OSArchitecture
64-bit
C:\>
```

32-bit versions of MongoDB only support databases smaller than 2GB and suitable only for testing and evaluation purposes.

Now extract your downloaded file to c:\ drive or any other location. Make sure name of the extracted folder is mong odb-win32-i386-[version] or mong odb-win32-x86\_64-[version]. Here [version] is the version of Mong oDB download.

Now open command prompt and run the following command

In case you have extracted the mondodb at different location, then go to that path by using command **cd FOOLDER/DIR** and now run the above given process.

Mong oDB requires a data folder to store its files. The default location for the Mong oDB data directory is c:\data\db. So you need to create this folder using the Command Prompt. Execute the following command sequence

```
C:\>md data
C:\md data\db
```

If you have install the Mong oDB at different location, then you need to specify any alternate path for \data\db by setting the path dbpath in mong od.exe. For the same issue following commands

In command prompt navig ate to the bin directory present into the mong odb installation folder. Suppose my installation folder is **D:\set up\mong odb** 

```
C:\Users\XYZ>d:
D:\>cd "set up"
D:\set up>cd mongodb
D:\set up\mongodb>cd bin
D:\set up\mongodb\bin>mongod.exe --dbpath "d:\set up\mongodb\data"
```

This will show **waiting for connections** message on the console output indicates that the mongod.exe process is running successfully.

Now to run the mong odb you need to open another command prompt and issue the following command

```
D:\set up\mongodb\bin>mongo.exe
MongoDB shell version: 2.4.6
connecting to: test
>db.test.save( { a: 1 } )
>db.test.find()
{ "_id" : ObjectId(5879b0f65a56a454), "a" : 1 }
>
```

This will show that mong odb is installed and run successfully. Next time when you run mong odb you need to issue only commands

```
D:\set up\mongodb\bin>mongod.exe --dbpath "d:\set up\mongodb\data"
D:\set up\mongodb\bin>mongo.exe
```

# **Install MongoDB on Ubuntu**

Run the following command to import the MongoDB public GPG Key:

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 7F0CEB10
```

Create a /etc/apt/sources.list.d/mong odb.list file using the following command.

```
echo 'deb http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist 10gen' | sudo tee /etc/apt/sources.list.d/mongodb.list
```

Now issue the following command to update the repository:

```
sudo apt-get update
```

Now install the MongoDB by using following command:

```
apt-get install mongodb-10gen=2.2.3
```

In the above installation 2.2.3 is currently released mongodb version. Make sure to install latest version always. Now mongodb is installed successfully.

## Start Mong oDB

sudo service mongodb start

#### Stop Mong oDB

sudo service mongodb stop

## Restart MongoDB

sudo service mongodb restart

# To use mongodb run the following command

mongo

This will connect you to running mongod instance.

# MongoDB Help

To get list of commands type **db.help()** in mong odb client. This will give you list of commands as follows:

```
- - X
 C:\Windows\system32\cmd.exe - mongo.exe
D:\set up\mongodb\bin>mongo.exe
MongoDB shell version: 2.4.6
connecting to: test
> db.help<>
 DB methods:
                           db.addUser(userDocument)
                           db.adminCommand(nameOrDocument) - switches to 'admin' db, and runs comma
 nd [ just calls db.runCommand(...)
db.auth(username, password)
db.cloneDatabase(fromhost)
                          db.cloneDatabase(fromhost)
db.commandHelp(name) returns the help for the command
db.copyDatabase(fromdb, todb, fromhost)
db.createCollection(name, ( size : ..., capped : ..., max : ... ) )
db.currentOp() displays currently executing operations in the db
db.dropDatabase()
db.eval(func, args) run code server-side
db.fsyncLock() flush data to disk and lock server for backups
db.fsyncUnlock() unlocks server following a db.fsyncLock()
db.getCollection(cname) same as db['cname'] or db.cname
db.getCollectionNames()
db.getLastError() - just returns the err msg string
db.getLastErrorObj() - return full status object
db.getMongo() get the server connection object
db.getMongo().setSlaveOk() allow queries on a replication slave server
db.getName()
db.getPrevError()
db.getProfilingLevel() - deprecated
                           db.getPrevError()
db.getProfilingLevel() - deprecated
db.getProfilingStatus() - returns if profiling is on and slow threshold
db.getReplicationInfo()
db.getSiblingDB(name) get the db at the same server as this one
db.hostInfo() get details about the server's host
db.isMaster() check replica primary status
db.killOp(opid) kills the current operation in the db
db.listCommands() lists all the db commands
db.loadServerScripts() loads all the scripts in db.system.js
db.logout()
                           db.logout()
db.printCollectionStats()
                           db.printReplicationInfo()
db.printShardingStatus()
                            db.printSlaveReplicationInfo()
                           db.removeUser(username)
                           db.repairDatabase()
db.resetError()
ub.resetError()
db.runCommand(cmd0bj) run a database command. if cmd0bj is a string, tu
rns it into { cmd0bj : 1 }
db.serverStatus()
db.setProfilingLevel(level, (slowms)) Ø=off 1=slow 2=all
db.setVerboseShell(flag) display extra information in shell output
db.shutdownServer()
                            db.stats()
                            db.version() current version of the server
```

# **Mongo DB Statistics**

To get stats about mong odb server type the command **db.stats()** in mong odb client. This will show the database name, cumber of collection and documents in the database. Output the command is shown below: