

Mongodb Lab Guide

Lab 1.a: Setting Up the Environment.

Download Mongodb 3.2 Community server version *mongodb-win32-x86_64-3.2.4-signed.msi* (version subject to change) from <https://www.mongodb.com/download-center#community>

- Run the mongodb-win32-x86_64-3.2.4-signed.msi file to start the installation
- Choose the path C:\Program Files to extract the files so that the path appears as given below
- C:\Program Files\MongoDB\Server\3.2\bin
- Set this path in Computer → System → Advanced System Settings → Advanced → Environment Variables → System Variables → Path

Set up configuration parameters and start and stop Mongodb Server

We can setup the config parameters using the two ways

- Using command line options or
- Using config file

Using Command line option:

Create a directory d:\data\db in D drive

- Go to command prompt and execute the below command to start the server
- `mongod --dbpath d:\data\db` (see the mongodb server output given below)

Open another command prompt and type *mongo* to start the mongo client

C:\users\srsenthi>mongo

Using Config File Option

a. Create a mongodb file as *mongod.conf* and save the configuration file in the path *d:\data\db* #where files reside

```
dbpath=d:\data\db
port = 27018
#where the logfile will be stored
logpath=d:\data\db\mongo-server.log
#how verbose the server will be logging
verbose=vvvvv
```

b. Start the mongodb server using the config file.

```
mongod -f d:\data\db\mongod.conf
```

Install mongod as a service**Open a command prompt and type the following**

- `mongod -f d:\data\db\mongod.conf --install`
- `net status mongodb` (To check the status of the service)
- `net start mongodb` (To start the server)
- `net start | findstr mongo` (To find and start the mongodb service)

Open another terminal invoke the mongo client – mongo.exe**In the command prompt, type the following commands**

- ✓ ➤ Creating an empty database called mydb
 - `use mydb`
- ✓ ➤ List the databases
 - `show dbs`
- ✓ ➤ Create a collection myCollection and insert a document in it.
 - `db.createCollection ("mycol")`
 - `db.newcollection.save ()`
- ✓ ➤ Display the collections
 - `show collections`
- ✓ ➤ Display the methods in the collection
 - `db.newcoll.help ()`
- ✓ ➤ Add the document using insert method
 - `db.newcoll.insert ({id:1,name:"ravi"})`
- ✓ ➤ Query the document
 - `db.newcoll.find ()`
- ✓ ➤ Get the number of documents in a collection
 - `db.newcoll.count ()`
- ✓ ➤ Delete documents from the collections using remove method
 - `db.newcoll.remove ({})`
- ✓ ➤ Remove a document satisfying the criteria salary as 1000
 - `db.newcoll.remove ({id: 1});`
- ✓ ➤ How to drop the entire collection
 - `db.newcoll.drop ()`
- ✓ ➤ Delete the current database
 - Set the current database and then drop it
 - `use mydb`
 - `db.dropDatabase()`