

## Module 1

### MongoDB Installation Guide on Windows

To download and install MongoDB on your system follow the following steps:

**Step 1:** First check the Operating system architecture of your system, use the following command in cmd.

**“wmic os get osarchitecture”** will tell you whether your system is 32-bit or 64-bit.

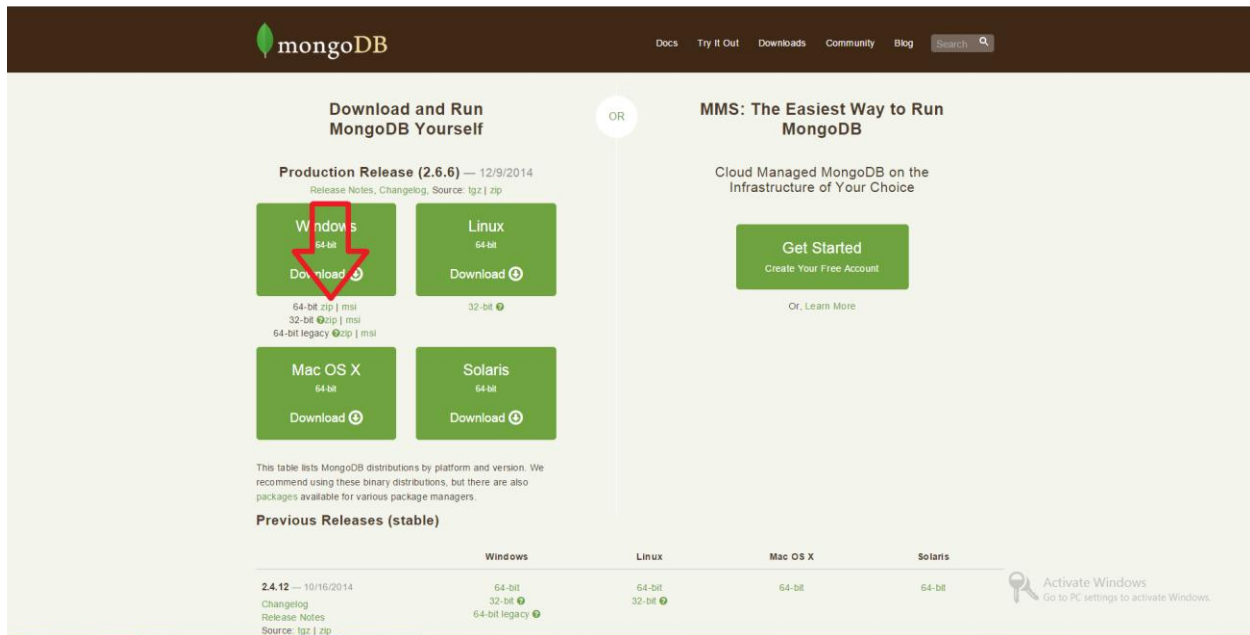


```
Command Prompt
Microsoft Windows [Version 6.2.9200]
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C:\Users\Admin>wmic os get osarchitecture
OSArchitecture
64-bit

C:\Users\Admin>
```

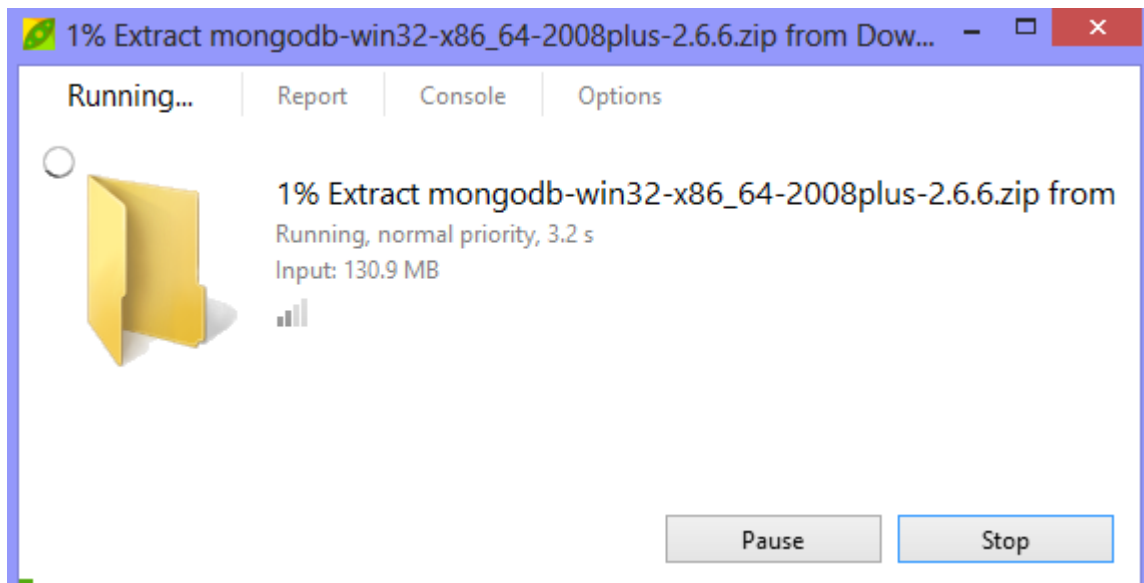
**Step 2:** Now you know your system architecture, to install the MongoDB on windows, first download the latest release of MongoDB from <http://www.mongodb.org/downloads>. Download 64-bit MongoDB for windows, as 32-bit versions of MongoDB will not work with 64-bit windows.



The image shows the MongoDB download page. On the left, under 'Download and Run MongoDB Yourself', there are buttons for Windows, Linux, Mac OS X, and Solaris. A red arrow points to the Windows button. Below these are links for 'Production Release (2.6.6)' and 'Previous Releases (stable)'. On the right, under 'MMS: The Easiest Way to Run MongoDB', there is a 'Get Started' button.

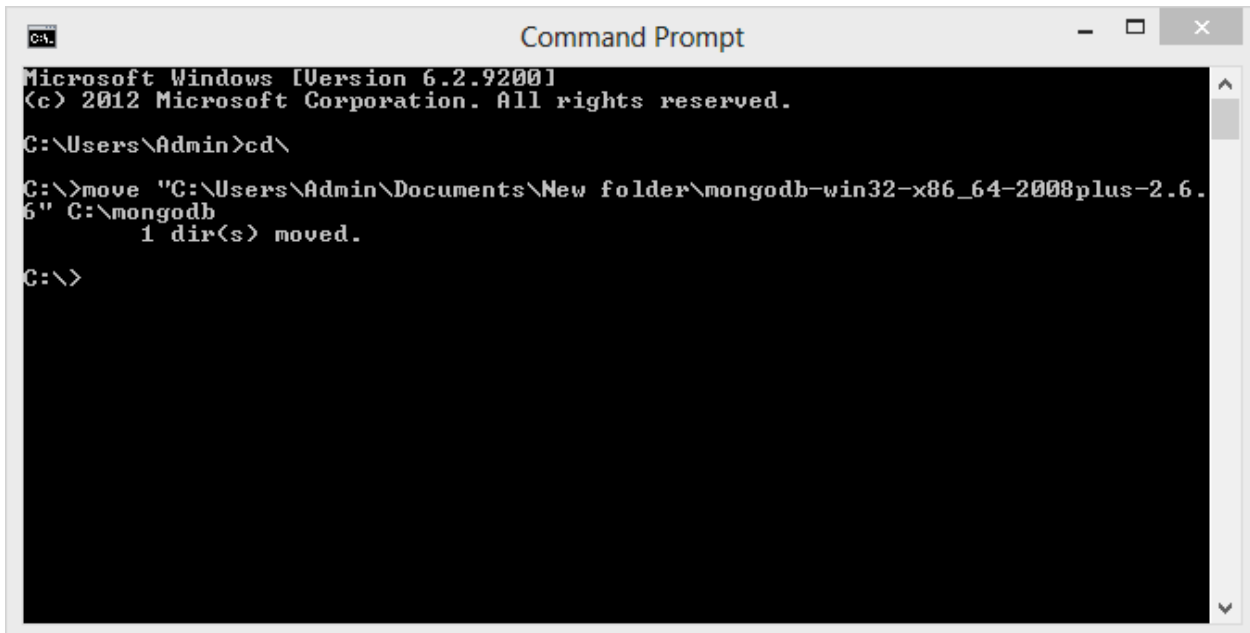
**Note:** 32-bit versions of MongoDB only support databases smaller than 2GB and suitable only for testing and evaluation purposes.

**Step 3:** When the download completes, show that in folder. Then extract that folder using “extract here”. File will be extracted there in the same folder.



**Step 4:** Files are extracted, now open cmd and write “**cd\**” to enter in the path. Then move that extracted file in “**mongodb**” folder of the C directory. Use the following command to move in C directory.

Write **move (space) paste the address of the extracted folder here (space) C:\mongodb**



```
Command Prompt
Microsoft Windows [Version 6.2.9200]
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C:\Users\Admin>cd\

C:\>move "C:\Users\Admin\Documents\New folder\mongodb-win32-x86_64-2008plus-2.6.6" C:\mongodb
1 dir(s) moved.

C:\>
```

**Note:** MongoDB is self-contained and does not have any other system dependencies. You can run MongoDB from any folder you choose. You may install MongoDB in any folder.

**Step 5:** MongoDB requires a data folder to store its files. MongoDB’s default data directory path is `\data\db`. Create this folder using the following command from a **Command Prompt**:

```

C:\Users\Admin>mkdir C:\mongodb
C:\Users\Admin>cd \
C:\>move "C:\Users\Admin\Documents\New folder\mongodb-win32-x86_64-2008plus-2.6.6" C:\mongodb
1 dir(s) moved.
C:\>md data\db
C:\>

```

**Step 6:** To connect to MongoDB through the **mongod.exe** shell, open another **Command Prompt**.

```

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

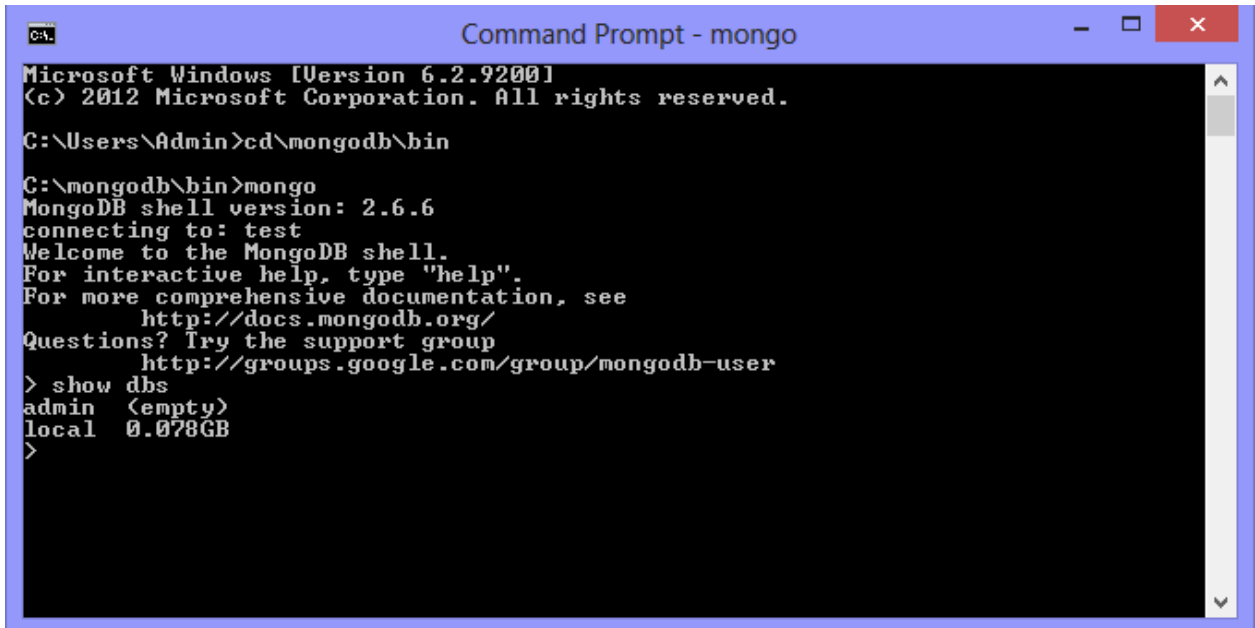
C:\Users\Admin>C:\mongodb\bin\mongod.exe
C:\mongodb\bin\mongod.exe --help for help and startup options
2014-12-13T16:56:37.648+0530 [initandlisten] MongoDB starting : pid=2808 port=27017 dbpath=\data\db\ 64-bit host=Gyansha20
2014-12-13T16:56:37.650+0530 [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2014-12-13T16:56:37.650+0530 [initandlisten] db version v2.6.6
2014-12-13T16:56:37.650+0530 [initandlisten] git version: 608e8bc319627693b04cc7da29ecc300a5f45a1f
2014-12-13T16:56:37.650+0530 [initandlisten] build info: windows sys.getwindowsversion(major=6, minor=1, build=7601, platform=2, service_pack='Service Pack 1')
BOOST_LIB_VERSION=1_49
2014-12-13T16:56:37.651+0530 [initandlisten] allocator: system
2014-12-13T16:56:37.651+0530 [initandlisten] options: {}
2014-12-13T16:56:37.688+0530 [initandlisten] journal dir=\data\db\journal
2014-12-13T16:56:37.688+0530 [initandlisten] recover : no journal files present, no recovery needed

```

Start mongo shell on another **command prompt** using the following command:

```
>cd\mongodb\bin
```

```
>mongo
```



```

Microsoft Windows [Version 6.2.9200]
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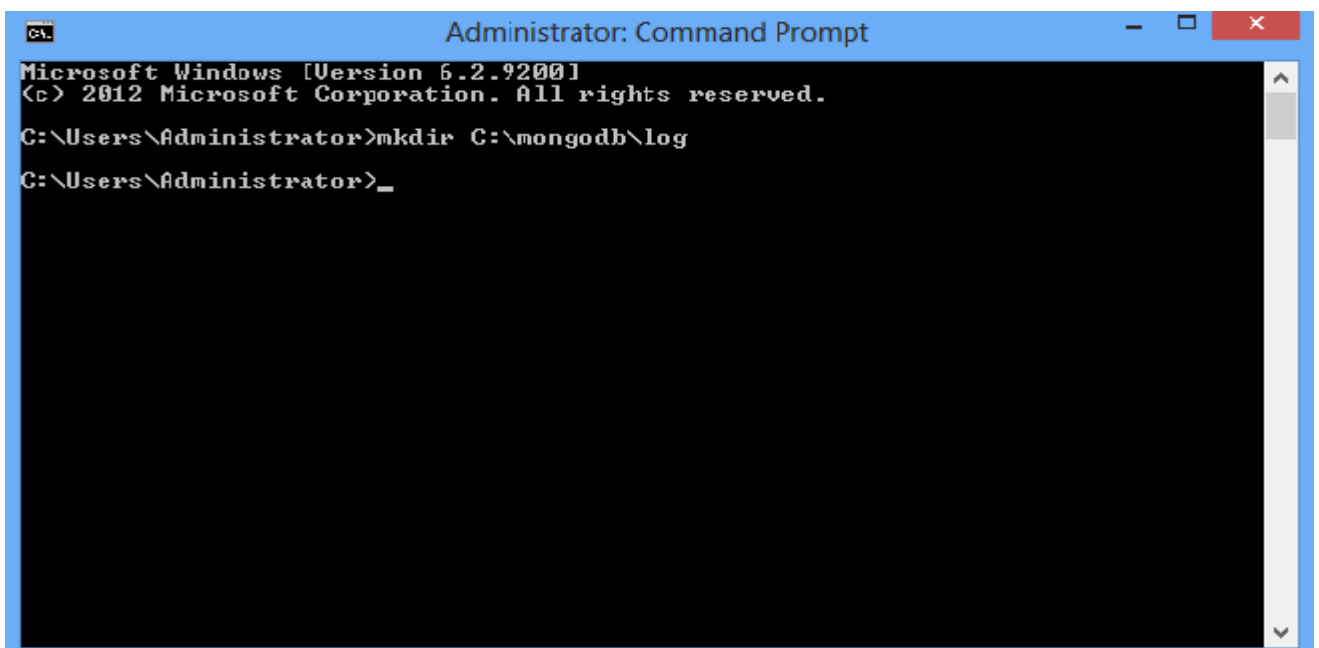
C:\Users\Admin>cd\mongodb\bin

C:\mongodb\bin>mongo
MongoDB shell version: 2.6.6
connecting to: test
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
    http://docs.mongodb.org/
Questions? Try the support group
    http://groups.google.com/group/mongodb-user
> show dbs
admin   <empty>
local   0.078GB
>
  
```

## Step 7: Configure a Windows Service for MongoDB

**Configuring directories and files:** Create a Configuration file and a data directory path for MongoDB log output (logpath):

Create a specific directory for MongoDB log files:



```

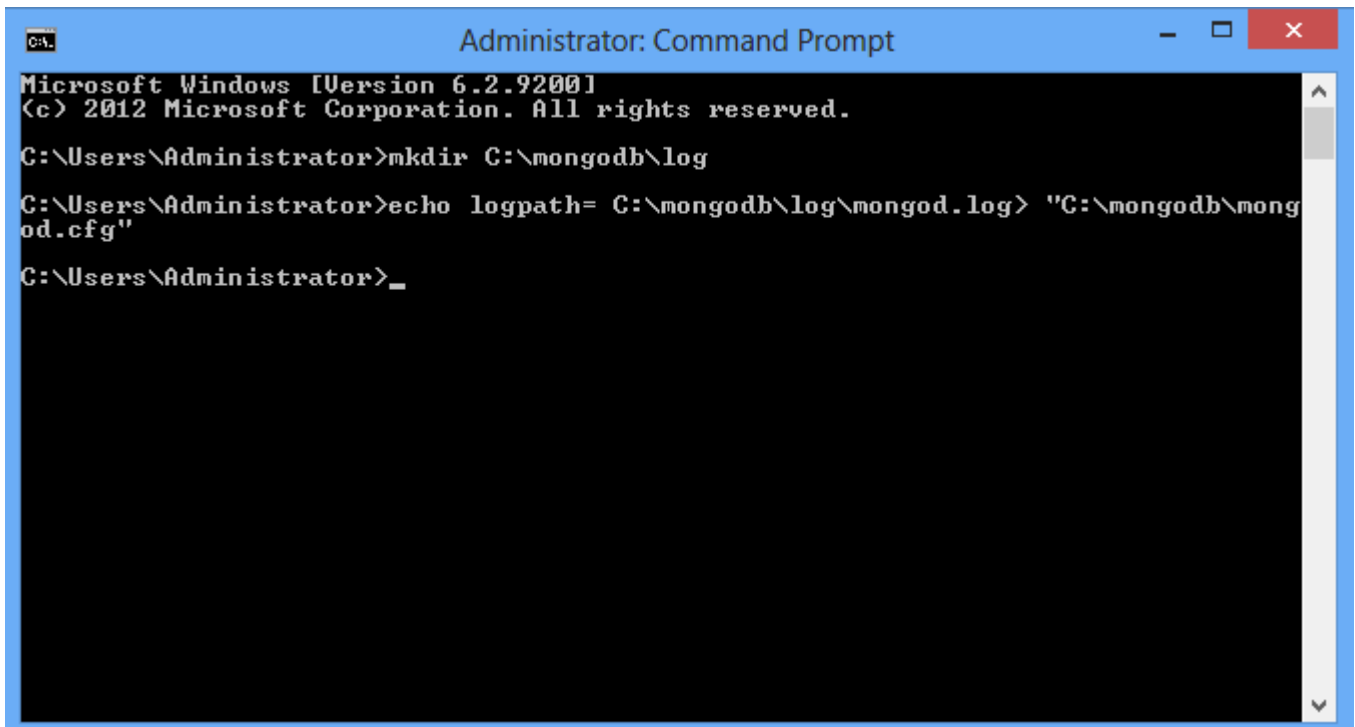
Administrator: Command Prompt

Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>mkdir C:\mongodb\log

C:\Users\Administrator>_
  
```

In the Command Prompt, create a configuration file for the logpath option for MongoDB:



```

Administrator: Command Prompt
Microsoft Windows [Version 6.2.9200]
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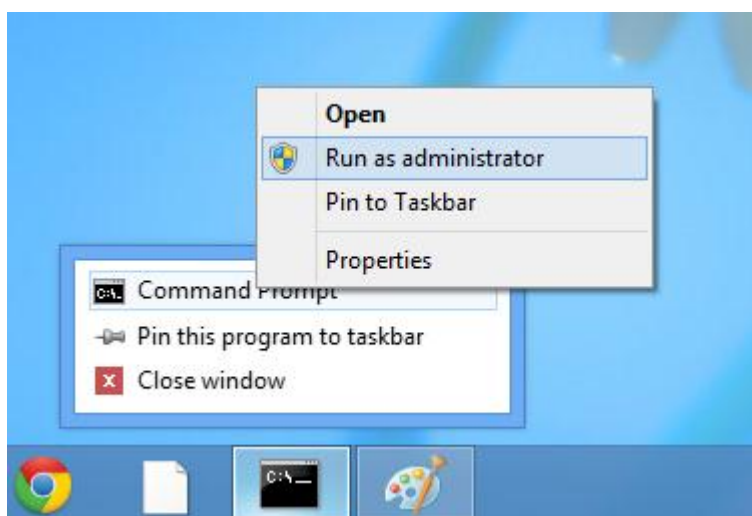
C:\Users\Administrator>mkdir C:\mongodb\log

C:\Users\Administrator>echo logpath= C:\mongodb\log\mongod.log> "C:\mongodb\mongod.cfg"

C:\Users\Administrator>_
  
```

## Step 8: Install and Run the MongoDB service

Run all of the following commands in Command Prompt with  
**“Administrative Privileges:”**

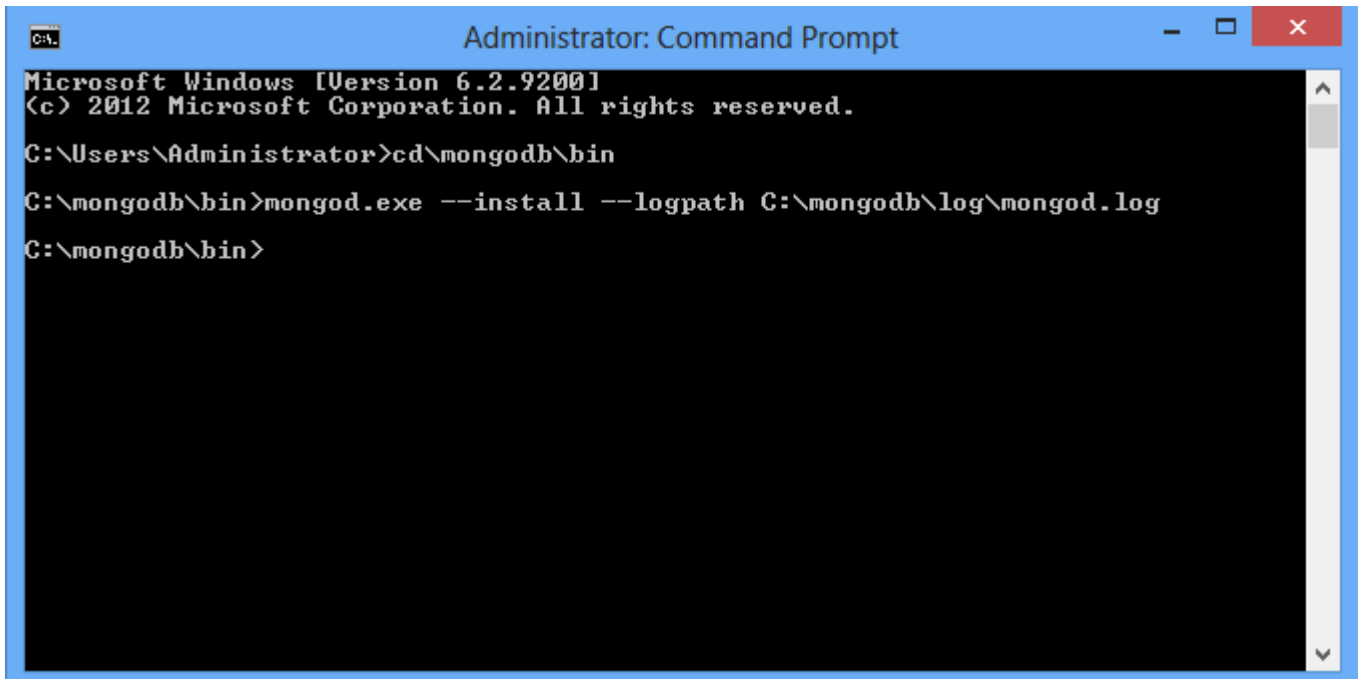


**Step 9:** Go to mongodb\bin folder using the following command:

**cd\mongodb\bin**

Then install MongoDB service. For --install to succeed, you must specify the logpath run-time option.

**mongod.exe --install --logpath C:\mongodb\log\mongod.log**

A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt". The window shows the following text:

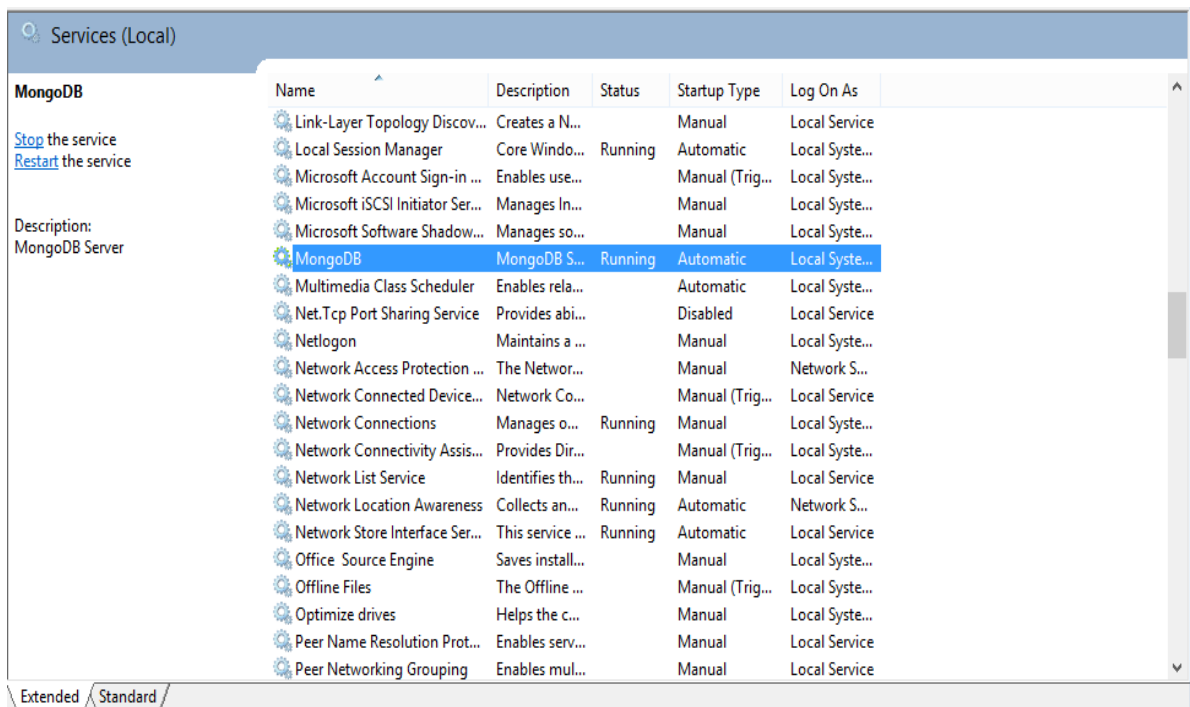
```
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>cd\mongodb\bin
C:\mongodb\bin>mongod.exe --install --logpath C:\mongodb\log\mongod.log
C:\mongodb\bin>
```

**Now if you go to Control Panel > All Control Panel Items >**

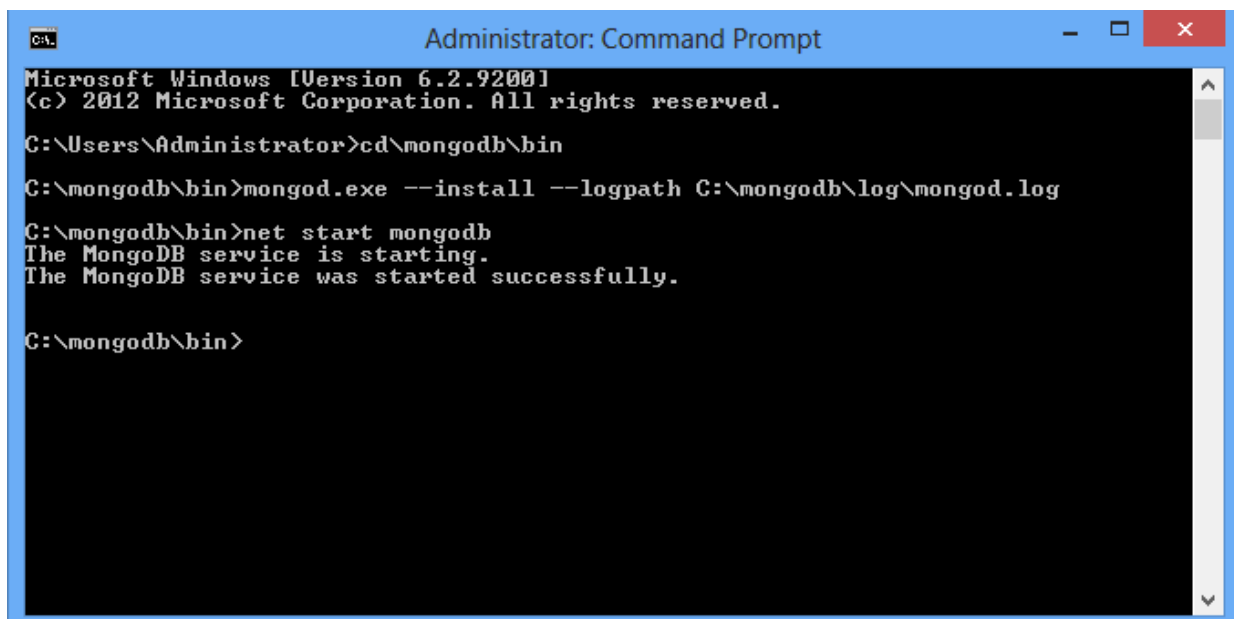
**Administrative Tools > Services**

You can see service MongoDB has been added to the services list and at the each boot of the system MongoDB service will restart automatically.



**To start the MongoDB service:**

Use **“net start mongodb”**



And to stop or remove the MongoDB service use:

Stop: **“net stop mongodb”**

Remove: **C:\mongodb\bin\mongo.exe --remove**