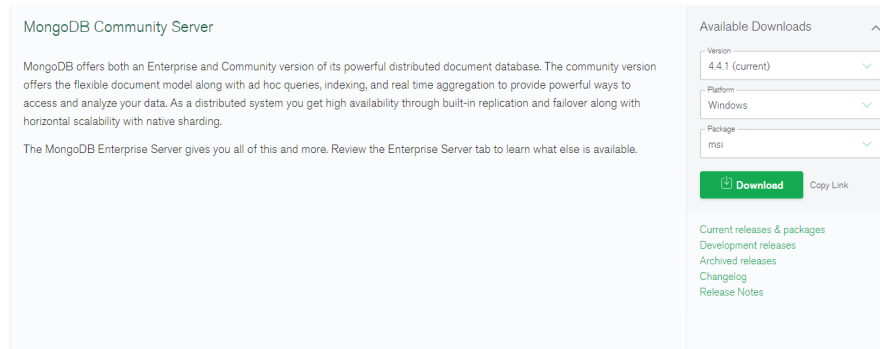


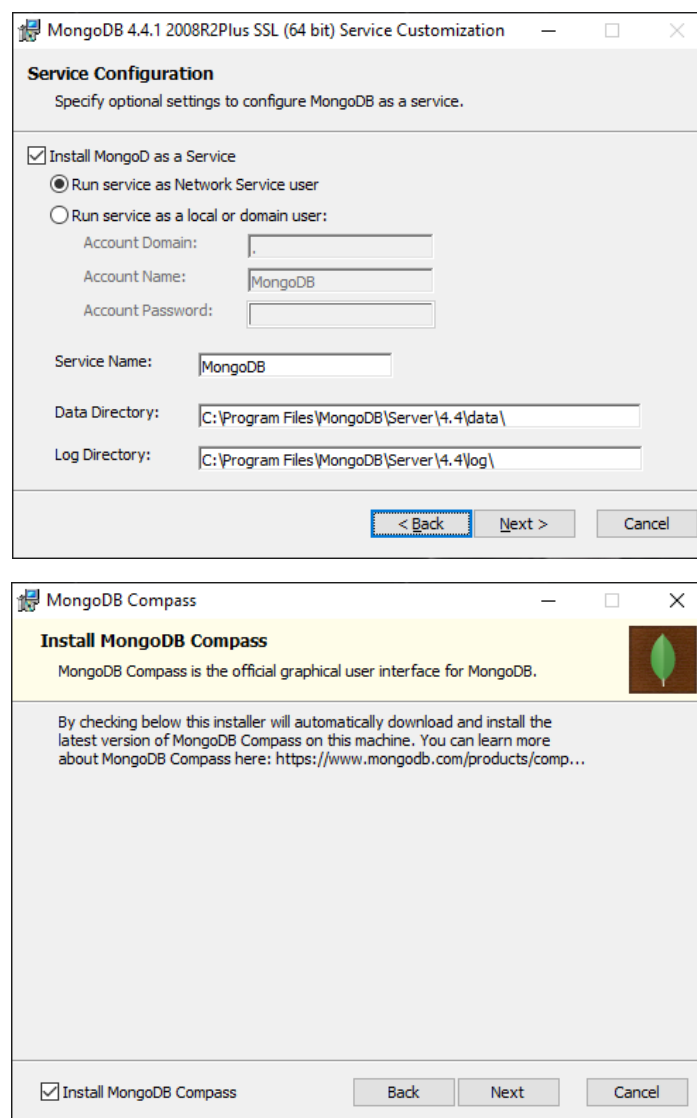
Install MongoDB and pymongo for windows:

Step 1: Download and Install mongoDB Community Server

<https://www.mongodb.com/try/download/community>



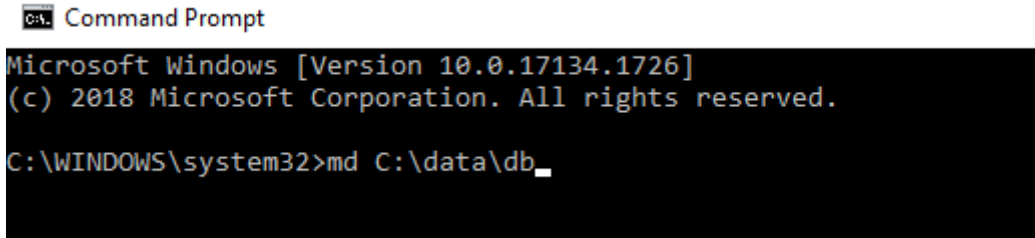
Step 2: Go through the installation process (If you want the GUI install mongoDB Compass)



Step 3: Create a directory in your C drive called “data”, and inside that create a directory called “db”

The full path of your directory should look like this: “C:\data\db”.

Alternatively, you can run this command in command prompt: md C:\data\db

A screenshot of a Windows Command Prompt window. The title bar says "C:\ Command Prompt". The text inside shows the Windows version and copyright information: "Microsoft Windows [Version 10.0.17134.1726] (c) 2018 Microsoft Corporation. All rights reserved." The command prompt shows the current directory as "C:\WINDOWS\system32" and the command "md C:\data\db" has been entered, with a cursor at the end of the line.

```
C:\ Command Prompt

Microsoft Windows [Version 10.0.17134.1726]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>md C:\data\db_
```

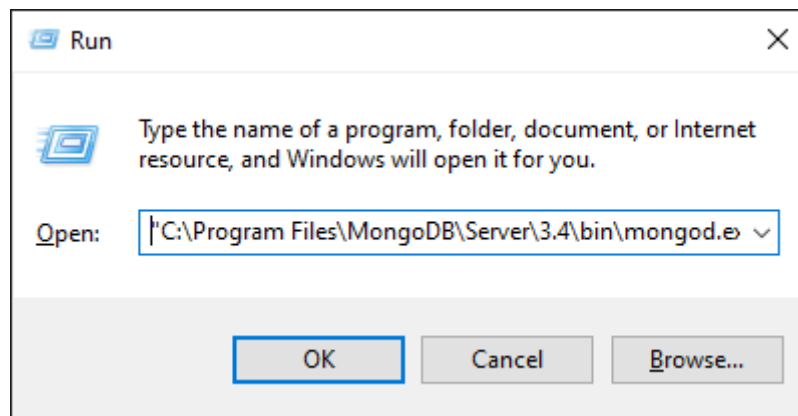
Step 4: Find your installation of mongoDB in program files and run “mongod”.

By default the location is: C:\Program Files\MongoDB\Server\4.4\bin

Double click on “mongod.exe” which should run a command prompt with lots of messages.

Alternatively, you can use the “run” command and run the exe directly:

Run -> Open: “C:\Program Files\MongoDB\Server\4.4\bin\mongod.exe”

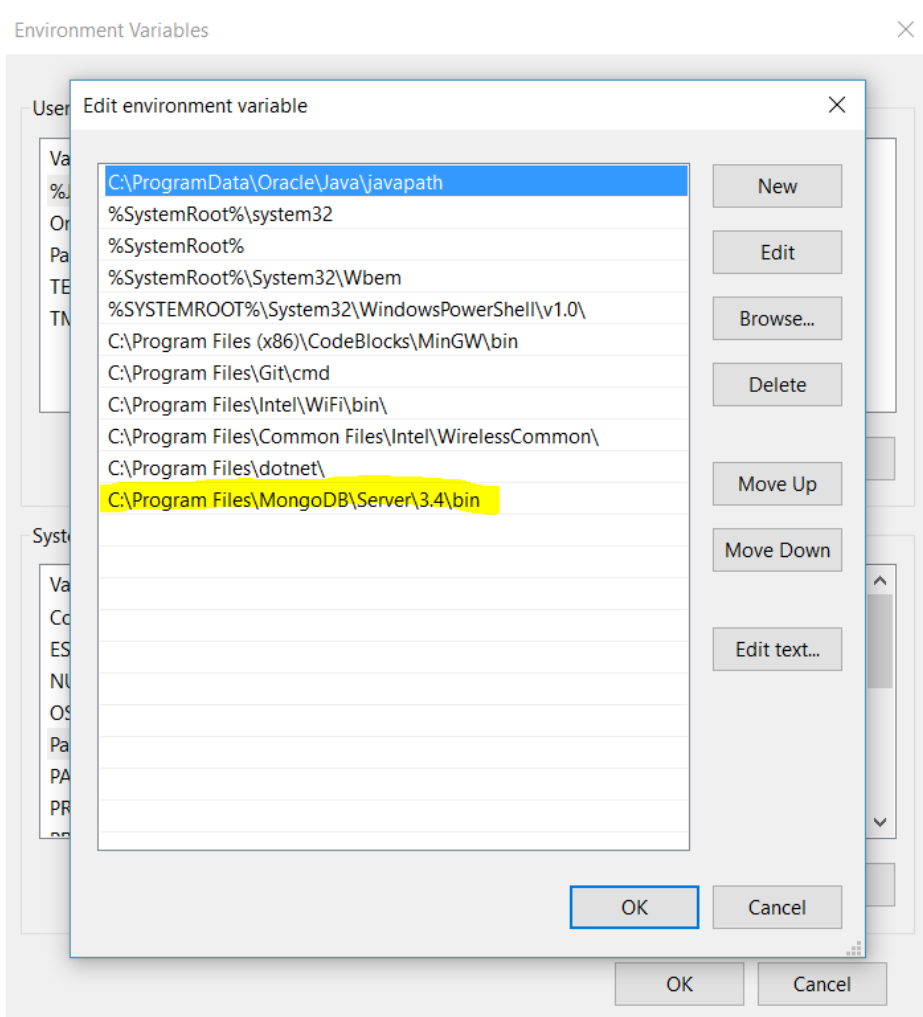
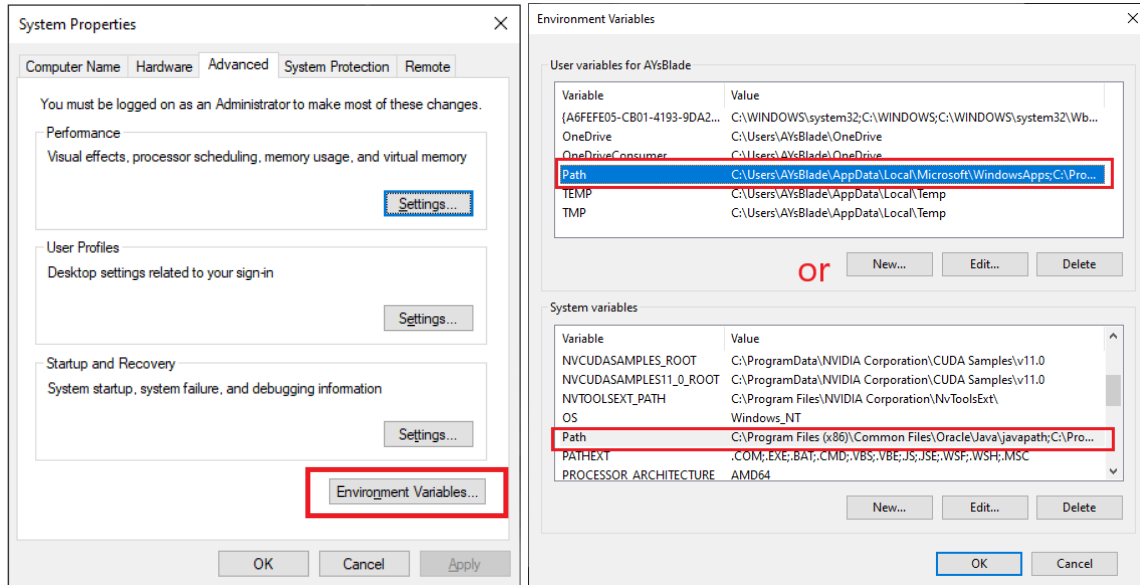


Wait till the connection message completes. You can close the command prompt for now.

Step 5: Update Environment path (This step is crucial as it allows applications to find mongoDB):

Open environment variable, simply by searching with windows search/cortana.

Inside environmental variables, add “C:\Program Files\MongoDB\Server\4.4\bin” to the **path** variable. (You can add it to user path or system path, choose one)



Step 6: Run mongoDB:

Run “mongod” again.

```
Administrator: Command Prompt - mongod
886:534115][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 2 through 3"}
{"t":{"$date":"2020-11-05T10:23:06.578-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:577956][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 3 through 3"}
{"t":{"$date":"2020-11-05T10:23:06.625-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:624785][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Main recovery loop: starting at 2/4096 to 3/256"}
{"t":{"$date":"2020-11-05T10:23:06.709-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:709476][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 2 through 3"}
{"t":{"$date":"2020-11-05T10:23:06.765-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:765308][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 3 through 3"}
{"t":{"$date":"2020-11-05T10:23:06.805-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:805160][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Set global recovery timestamp: (0, 0)}
{"t":{"$date":"2020-11-05T10:23:06.805-08:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":["1604600
586:805160][21060:140717127912528], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Set global oldest timestamp: (0, 0)}
{"t":{"$date":"2020-11-05T10:23:06.818-08:00"},"s":"I", "c":"STORAGE", "id":4795906, "ctx":"initandlisten","msg":"WiredTiger opened","attr":{"durationMillis":306
}}
{"t":{"$date":"2020-11-05T10:23:06.818-08:00"},"s":"I", "c":"RECOVERY", "id":23987, "ctx":"initandlisten","msg":"WiredTiger recoveryTimestamp","attr":{"recovery
timestamp":{"timestamp":{"t":0,"i":0}}}}
{"t":{"$date":"2020-11-05T10:23:06.822-08:00"},"s":"I", "c":"STORAGE", "id":22262, "ctx":"initandlisten","msg":"Timestamp monitor starting"}
{"t":{"$date":"2020-11-05T10:23:06.824-08:00"},"s":"W", "c":"CONTROL", "id":22120, "ctx":"initandlisten","msg":"Access control is not enabled for the database.
Read and write access to data and configuration is unrestricted","tags":["startupWarnings"]}
{"t":{"$date":"2020-11-05T10:23:06.824-08:00"},"s":"W", "c":"CONTROL", "id":22140, "ctx":"initandlisten","msg":"This server is bound to localhost. Remote syste
as will be unable to connect to this server. Start the server with --bind ip <address> to specify which IP addresses it should serve responses from, or with --bind
ip all to bind to all interfaces. If this behavior is desired, start the server with --bind ip 127.0.0.1 to disable this warning","tags":["startupWarnings"]}
{"t":{"$date":"2020-11-05T10:23:06.829-08:00"},"s":"I", "c":"STORAGE", "id":20536, "ctx":"initandlisten","msg":"Flow Control is enabled on this deployment"}
{"t":{"$date":"2020-11-05T10:23:07.388-08:00"},"s":"I", "c":"FTDC", "id":20625, "ctx":"initandlisten","msg":"Initializing full-time diagnostic data capture"
"attr":{"dataDirectory":"C:/data/db/diagnostic.data"}}
{"t":{"$date":"2020-11-05T10:23:07.391-08:00"},"s":"I", "c":"NETWORK", "id":23015, "ctx":"listener","msg":"Listening on","attr":{"address":"127.0.0.1"}}
{"t":{"$date":"2020-11-05T10:23:07.391-08:00"},"s":"I", "c":"NETWORK", "id":23016, "ctx":"listener","msg":"Waiting for connections","attr":{"port":27017,"ssl":
"off"}}
```

“mongod” is the mongoDB server and it has to be running for mongoDB to work. Therefore, **DO NOT CLOSE the command prompt shown above when using mongoDB.**

Step 7: Try to run mongoDB shell:

By default the location is: C:\Program Files\MongoDB\Server\4.4\bin

Double click on “mongo.exe” which should run a command prompt with lots of messages.

Alternatively, you can use the “run” command and run the exe directly:

Run -> Open: “C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe”

```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe
MongoDB shell version v4.4.1
connecting to: mongod://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
Implicit session: session { "id" : UUID("9f9674da-b1a5-4969-bb44-b83c525fd614") }
MongoDB server version: 4.4.1
---
The server generated these startup warnings when booting:
  2020-11-05T18:13:01.644+00:00: ***** SERVER RESTARTED *****
  2020-11-05T18:13:03.000+00:00: Access control is not enabled for the database. Read and write access to data and
configuration is unrestricted
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
>
```

You can now run mongoDB commands on here. It is easier to use pymongo, therefore we don't really need the shell, and you can close it if you want.

Step 8: Setting up mongoDB on Python with pymongo:

Simply: [pip install pymongo](#)

If you use anaconda: [conda install -c anaconda pymongo](#)

(Remember to conda install in the correct environment when using anaconda)

Step 9: Verify Installation

Open up python/ any IDE you like/ any text editor you like.

Type the following commands:

```
1 import pymongo
2 from pymongo import MongoClient
3
4 client = MongoClient()
5
6 print(client.list_database_name())
```

Output should be the following: ['admin', 'config', 'local']

The installation is all done!

For a tutorial of how to use pymongo:

<https://api.mongodb.com/python/current/tutorial.html>

(Optional): you can use mongoDBCompass to quickly view your database.

Simply just open the “mongoDBCompass.exe” and press “connect”. The rest is self-explanatory.

