Revision history

|  |  |  |
| --- | --- | --- |
| Revision # | Date of Revision | Changes Made |
| 1.0 | NA | First Release |
|  |  |  |

Reference documents

|  |  |  |
| --- | --- | --- |
| S.No | Document Title | Date |
| 1 |  | 05 Jun 2017 |

Glossary

| **Terms** | **Description** |
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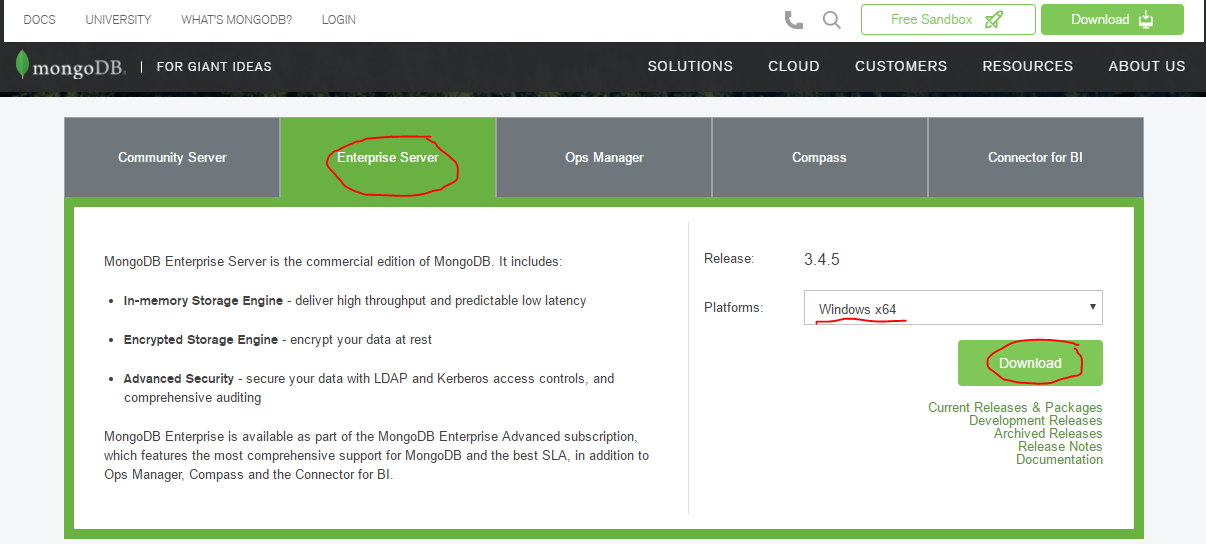
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# Installation Guide

## Download

1. Visit URL:
2. To download the latest version of MongoDB for Windows – 64 bit, click on “Download” button as shown below and it will download “mongodb-win32-x86\_64-enterprise-windows-64-3.4.5.zip” file to your PC.



## Install

1. Unzip the downloaded file to your chosen directory. For Ex: “D:\ge\mongodb\mongodb-win32-x86\_64-enterprise-windows-64-3.4.5”
2. MongoDB requires a [data directory](https://docs.mongodb.com/manual/reference/glossary/#term-dbpath) to store all data. MongoDB’s default data directory path is the absolute path \data\db on the drive from which you start MongoDB. So, create directory as: “D:\data\db”
3. **Optional**: If you want to choose different data directory for your mongoDB, you can specify an alternate path for data files using the --dbpath option to [mongod.exe](https://docs.mongodb.com/manual/reference/program/mongod.exe/#bin.mongod.exe), for example:

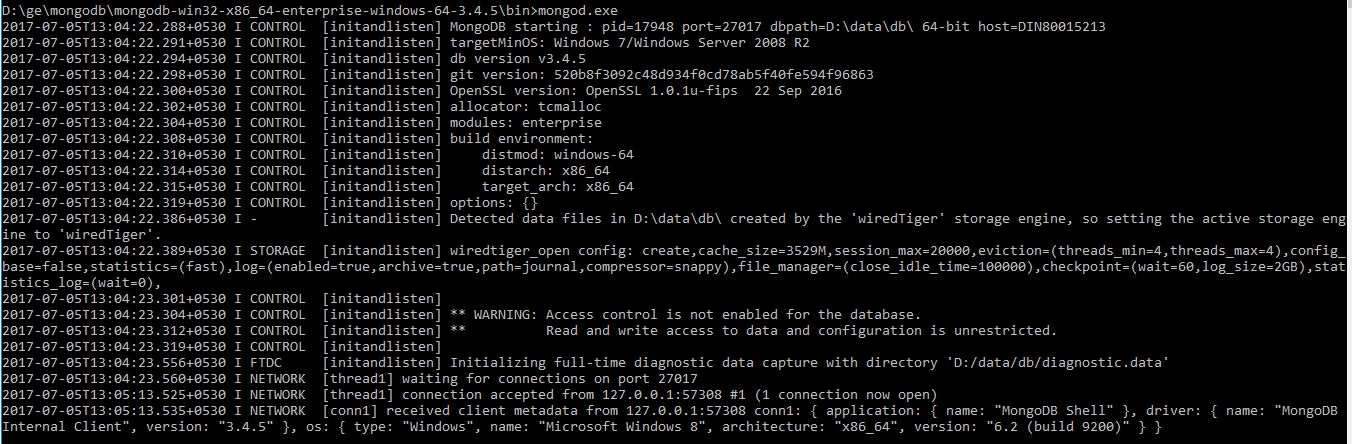
*"C:\Program Files\MongoDB\Server\3.4\bin\mongod.exe" --dbpath D:\data\db”*

1. **Optional**: You may also specify the dbpath in a [configuration file](https://docs.mongodb.com/manual/reference/configuration-options/). For more details please refer: <https://docs.mongodb.com/manual/reference/configuration-options/>
2. Installation Done.

## Start MongoDB

1. To start MongoDB, run [mongod.exe](https://docs.mongodb.com/manual/reference/program/mongod.exe/#bin.mongod.exe). For example, from the Command Prompt:

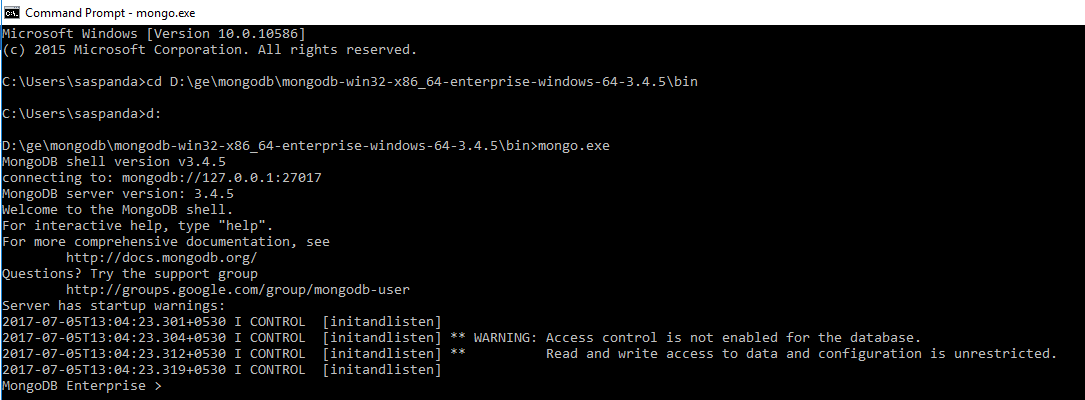
*"C:\Program Files\MongoDB\Server\3.4\bin\****mongod.exe****"*



## Connect mongoDB from Client

1. To connect to MongoDB through the [mongo.exe](https://docs.mongodb.com/manual/reference/program/mongo/#bin.mongo) shell, open another Command Prompt.

*"C:\Program Files\MongoDB\Server\3.4\bin\****mongo.exe****”*

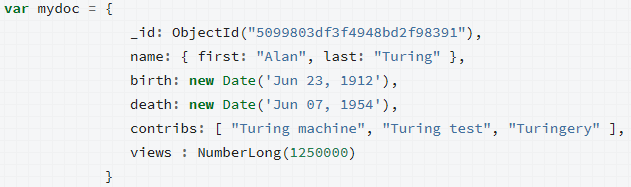


## Database & Collections

In MongoDB, databases holds collections of documents. i.e MongoDB stores [BSON documents](https://docs.mongodb.com/v3.2/core/document/#bson-document-format), i.e. data records, in [collections](https://docs.mongodb.com/v3.2/reference/glossary/#term-collection); the collections in databases.

BSON Documents:

1. This is equivalent to records in RDBMS tables.
2. BSON stands for binary JSON.
3. BSON Structure



Collections:

1. Collections are analogous to tables in relational databases.
2. If a collection does not exist, MongoDB creates the collection when you first store data for that collection.

Database:

1. In MongoDB, databases hold collections of documents.

## Mongo Shell Commands

|  |  |
| --- | --- |
| **Operation** | **Command** |
| Create Database | *use db\_name* |
| Check currently selected database | db |
| Check the database list | show dbs |
| Drop database | db.dropDatabase() |
| Create Collection | *db.createCollection("people", { size: 2147483648 } )*  Note: Also, insert() and createIndex() operations will created collection if they do not already exist. |
| Check created collections | show collections |
| Drop Collection | db.collection\_name.drop() |
| Insert document | db.COLLECTION\_NAME.insert(document) |
| Check the inserted documents | Db.collection\_name.find() |
| Insert multiple documents | Create and array of documents and pass to insert() command |
| Insert multiple documents with Bulk | 1. Initialize bulk operation builder   var bulk = db.javatpoint.initializeUnorderedBulkOp();   1. bulk.insert(   {  course: "java",  details: {  duration: "6 months",  Trainer: "Sonoo jaiswal"  },  Batch: [ { size: "Small", qty: 15 }, { size: "Medium", qty: 25 } ],  category: "Programming language"  }  );   1. bulk.execute(); |