

Installatie MongoDB

Er bevindt zich een tutorial op de volgende site:

<https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/#get-mongodb-community-edition>

1. msi-file downloaden

1.1. Vereisten

Voor MongoDB Community Edition is Windows Server 2008 R2, Windows 7 of hoger vereist. Het `.msi` installatieprogramma bevat alle andere softwareafhankelijkheden en zal automatisch een oudere versie van MongoDB upgraden die met behulp van een `.msi` bestand is geïnstalleerd.


Om te achterhalen welke versie van Windows je gebruikt, voer je de volgende opdrachten in de **opdrachtprompt** of **Powershell** in :

kopiëren

```
wmic os word ondertiteld
wmic os wordt osarchitecture
```

1.2. Downloaden

Klik op <MongoDB downloads page>.

 FOR GIANT IDEAS

SOLUTIONS

CLOUD

CUSTOMERS

RESOURCES

ABOUT US

Atlas

Community Server

Enterprise Server

Ops Manager

Compass

Connector for BI

MongoDB Atlas

Database as a Service

Deploy, operate, and scale a MongoDB database in the cloud with just a few clicks. MongoDB Atlas is fully elastic — seamlessly scale up or out — and highly available by default.

- **Available on AWS, GCP, Azure** — MongoDB Atlas is available on over 14 regions on AWS, 4 GCP regions, and 23 regions worldwide on Microsoft Azure.
- **Secure from the start** — Authentication, network isolation, encryption, and role-based access controls keep your data protected. MongoDB Atlas has been independently audited and confirmed to meet privacy and compliance standards.
- **Continuous backups** — MongoDB Atlas includes a continuous backup solution with point-in-time restores and queryable snapshots, which allow you to perform queries against your backup snapshots and restore data at the document level in minutes.
- **Comprehensive monitoring and customizable alerts** — Optimized dashboards highlight key historical metrics. View performance in real-time, customize alerts, or dig into the details with ease. Easily integrate with Datadog, New Relic, Sumo Logic and other monitoring tools.
- **Live migration** — Live migrate your data into MongoDB Atlas with minimal impact to your application.

[Click here](#) to learn more about MongoDB Atlas.

No download necessary

Deploy a free cluster now

☒ 8 characters minimum

☒ One number

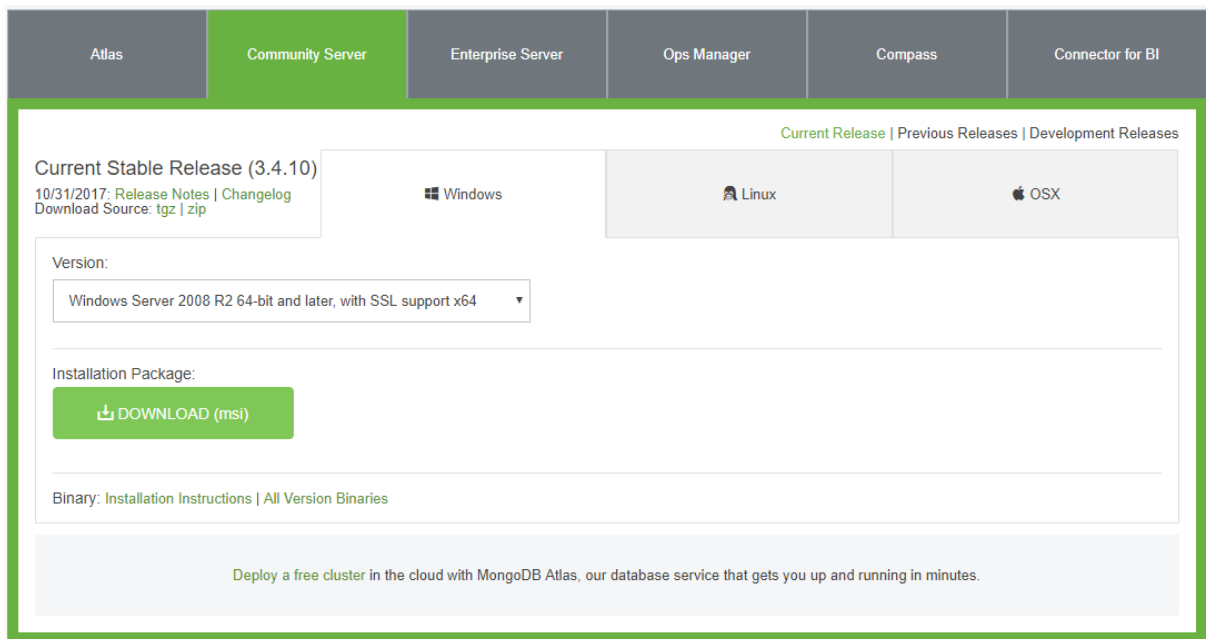
☒ One letter

☒ One special character

☐ I agree to the terms of service.

Get started free

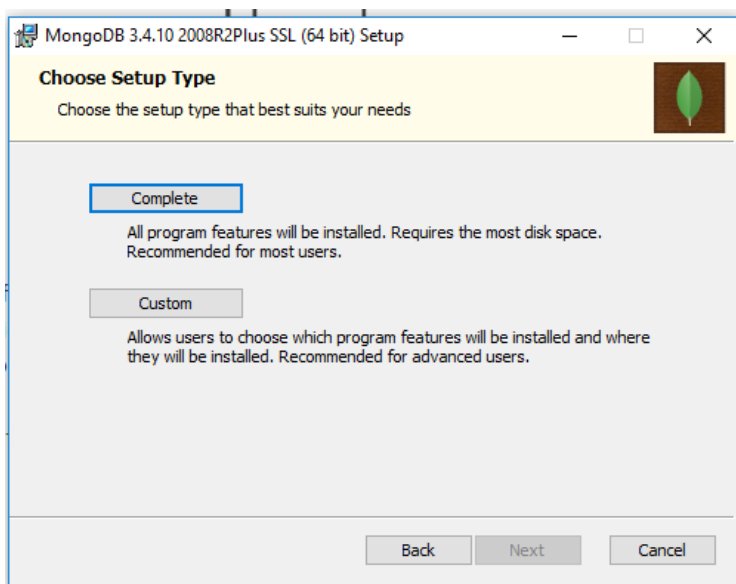
Klik op tab <Community Server>



Kies in de tab <Windows> voor de aangegeven versie en klik op de knop **DOWNLOAD(msi)**.

2. Installatie

Zoek in Windows Verkenner het gedownloade MongoDB- .msi bestand, dat zich meestal in de standaardmap **Downloads** bevindt. Dubbelklik op het .msi bestand. Er verschijnt een reeks schermen die u door het installatieproces leiden.



Kies bij Setup Type voor **Complete**

Het programma wordt geïnstalleerd in **C:\Program Files\MongoDB**

3. Run MongoDB

3.1. *Stel de MongoDB omgeving in*

MongoDB vereist een [gegevensdirectory](#) om alle gegevens op te slaan.

Maak een map voor de database bestanden:

C:\data\db

3.2. *Start MongoDB server*

Om MongoDB te starten:

- Ga naar C:\Program Files\MongoDB\Server\3.6\bin
- Voer het bestand Mongod.exe uit (dubbelklik)

Hiermee start je het hoofdproces van de MongoDB-database (instance).

3.3. *Controleer of MongoDB server is gestart*

Controleer of MongoDB is gestart door de procesuitvoer voor de volgende regel te controleren:

[initandlisten] wacht op verbindingen op poort 27017

De uitvoer moet zichtbaar zijn in het terminal- of shell-venster.

Mogelijk zie je niet-kritieke waarschuwingen in de procesuitvoer. Zolang je de bovenstaande logregel ziet, kan je deze waarschuwingen veilig negeren tijdens je eerste evaluatie van MongoDB.

Onderstaande scherm verschijnt:

```
Selecteren C:\Program Files\MongoDB\Server\3.6\bin\mongod.exe
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] ** Start the server with --bind
which IP
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] ** addresses it should serve re
bind_ip_all to
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] ** bind to all interfaces. If t
start the
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten] ** server with --bind_ip 127.0.
ing.
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] ** WARNING: The file system cache of thi
to be greater than 40% of the total memory. This can lead to increased memory pressure and poor
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] See http://dochub.mongodb.org/core/wt-w
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten]
2018-02-28T18:13:50.333+0100 W FTDC [initandlisten] Failed to initialize Performance Counter
ror: PdhExpandCounterPathW failed with 'The specified object was not found on the computer.' fo
ple Bytes'
2018-02-28T18:13:50.333+0100 I FTDC [initandlisten] Initializing full-time diagnostic data c
:/data/db/diagnostic.data'
2018-02-28T18:13:50.336+0100 I NETWORK [initandlisten] waiting for connections on port 27017
```

De WARNING geeft aan dat momenteel iedereen toegang heeft tot de DB. Dit is geen probleem op een stand-alone-systeem. Op een server moeten er toegangsrechten worden ingesteld.

3.4. Maak verbinding met MongoDB server

Om met MongoDB te verbinden:

- Ga naar C:\Program Files\MongoDB\Server\3.6\bin
- Voer het bestand Mongo.exe uit (dubbelklik)

Daarna krijgen we het volgende scherm in Mongod.exe:

```
C:\Program Files\MongoDB\Server\3.6\bin\mongod.exe
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] ** Start the server with --bin
which IP
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] ** addresses it should serve r
bind_ip_all to
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] ** bind to all interfaces. If
start the
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten] ** server with --bind_ip 127.0.
ing.
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] ** WARNING: The file system cache of th
to be greater than 40% of the total memory. This can lead to increased memory pressure and poor
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] See http://dochub.mongodb.org/core/wt-w
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten]
2018-02-28T18:13:50.333+0100 W FTDC [initandlisten] Failed to initialize Performance Counte
ror: PdhExpandCounterPathW failed with 'The specified object was not found on the computer.' fo
ple Bytes'
2018-02-28T18:13:50.333+0100 I FTDC [initandlisten] Initializing full-time diagnostic data
:/data/db/diagnostic.data'
2018-02-28T18:13:50.336+0100 I NETWORK [initandlisten] waiting for connections on port 27017
2018-02-28T18:16:18.331+0100 I NETWORK [listener] connection accepted from 127.0.0.1:60162 #1
2018-02-28T18:20:24.533+0100 I NETWORK [conn1] end connection 127.0.0.1:60162 (0 connections n
2018-02-28T18:20:56.952+0100 I NETWORK [listener] connection accepted from 127.0.0.1:60203 #2
2018-02-28T18:20:56.952+0100 I NETWORK [conn2] received client metadata from 127.0.0.1:60203 c
e: "MongoDB Shell" }, driver: { name: "MongoDB Internal Client", version: "3.6.3" }, os: { type
soft Windows 10", architecture: "x86_64", version: "10.0 (build 15063)" } }
```

In Mongo.exe krijgen we:

```
C:\Program Files\MongoDB\Server\3.6\bin\mongo.exe
MongoDB shell version v3.6.3
connecting to: mongod://127.0.0.1:27017
MongoDB server version: 3.6.3
Server has startup warnings:
2018-02-28T09:13:50.075-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.075-0800 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] **      Read and write access to data and configuration is
unrestricted.
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] **      Remote systems will be unable to connect to this se
ver.
2018-02-28T09:13:50.076-0800 I CONTROL [initandlisten] **      Start the server with --bind_ip <address> to specif
which IP
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] **      addresses it should serve responses from, or with -
bind_ip_all to
2018-02-28T09:13:50.077-0800 I CONTROL [initandlisten] **      bind to all interfaces. If this behavior is desired
start the
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten] **      server with --bind_ip 127.0.0.1 to disable this war
ing.
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.078-0800 I CONTROL [initandlisten]
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] ** WARNING: The file system cache of this machine is configured
to be greater than 40% of the total memory. This can lead to increased memory pressure and poor performance.
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten] See http://dochub.mongodb.org/core/wt-windows-system-file-cache
2018-02-28T09:13:50.079-0800 I CONTROL [initandlisten]
>
```

TIP: “Later, to stop MongoDB, press Control+C in the terminal where the `mongod` instance is running.”

Dit is de Mongo-shell. Aan deze prompt kunnen we werken.

4. Importeren van gegevens

1. Creatie database in Mongo:

- Use mydb

2. Importeren gegevens in de database mydb:

Download de datafile *primer-dataset.json* vanuit BB (in map Downloads).

Open de **command prompt** van het systeem **als Administrator** en ga naar de bin-map van MongoDB:

```
Administrator: Opdrachtprompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. Alle rechten voorbehouden.
C:\windows\system32>cd ..
C:\Windows>cd..
C:\>cd..
C:\>cd "Program Files"
C:\Program Files>cd MongoDB
C:\Program Files\MongoDB>cd Server
C:\Program Files\MongoDB\Server>cd 3.6
C:\Program Files\MongoDB\Server\3.6>cd bin
```

Importeer de gegevens door het volgend commando uit te voeren aan de systeemprompt:

```
>mongoimport --db mydb --collection restaurant --drop --file c:\users\useraccount\downloads\primer-dataset.json
```

Useraccount is jouw studentnummer bij de laptops van de PXL.

```
C:\Program Files\MongoDB\Server\3.6\bin>mongoimport --db mydb --collection restaurant --drop --file c:\users\20002646\downloads\primer-dataset.json
2018-03-08T14:15:52.393+0100    connected to: localhost
2018-03-08T14:15:52.449+0100    dropping: mydb.restaurant
2018-03-08T14:15:54.371+0100    imported 25359 documents
```

3. Controleer of de collectie restaurant is toegevoegd vanuit Mongo:

- Show collections

```
> show collections
restaurant
```