

1. INSTALLATION DU SERVEUR MONGOBD

A. 1ERE OPTION : SI VOUS CHOISISSEZ UNE INSTALLATION SUR VOTRE PROPRE MACHINE, INSTALLATION DE MONGODB 7 AVEC L'INTERFACE COMPASS

A partir de <https://www.mongodb.com/try/download/community> : MongoDB + COMPASS

The screenshot shows the MongoDB Community Server Download page. On the left sidebar, under 'MongoDB Community Server', the 'Community Server' option is selected. Below it, 'MongoDB Community Edition' is listed. The main content area is titled 'MongoDB Community Server Download'. It features two columns: 'Community Server' on the left and 'Try MongoDB Atlas' on the right. The 'Community Server' column contains a description of the database's features and a bulleted list of benefits. The 'Try MongoDB Atlas' column provides information about the managed service. At the bottom, there's a 'Select package' button and a section for Homebrew and other installation methods. On the far left, a sidebar displays the selected package details: Version 7.0.3 (current), Platform Windows x64, and Package msi. At the bottom, there are 'Download' and 'Copy link' buttons.

MongoDB. Products Solutions Resources Company Pricing

MongoDB Atlas

MongoDB Enterprise Advanced

MongoDB Community Edition

MongoDB Community Server

MongoDB Community Server

MongoDB Community Kubernetes Operator

Tools

Atlas SQL Interface

Mobile & Edge

MONGDB COMMUNITY SERVER

MongoDB Community Server Download

Community Server

The Community version of our distributed database offers a flexible document data model along with support for:

- Ad-hoc queries
- Secondary indexing
- Real-time aggregations to provide powerful ways to access and analyze your data

Try MongoDB Atlas

The database is also offered as a fully-managed service with [MongoDB Atlas](#). Get access to advanced functionality such as:

- Auto-scaling
- Serverless instances
- Full-text search, and data distribution across regions and clouds
- Multi-region and multi-cloud support

[Sign up here](#) or get started from your terminal:

Homebrew More

```
$ brew install mongodb-
```

Version
7.0.3 (current)

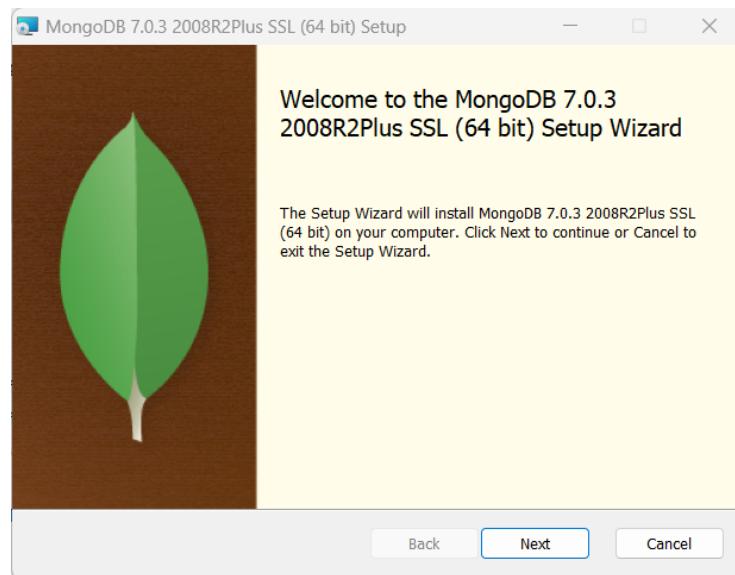
Platform
Windows x64

Package
msi

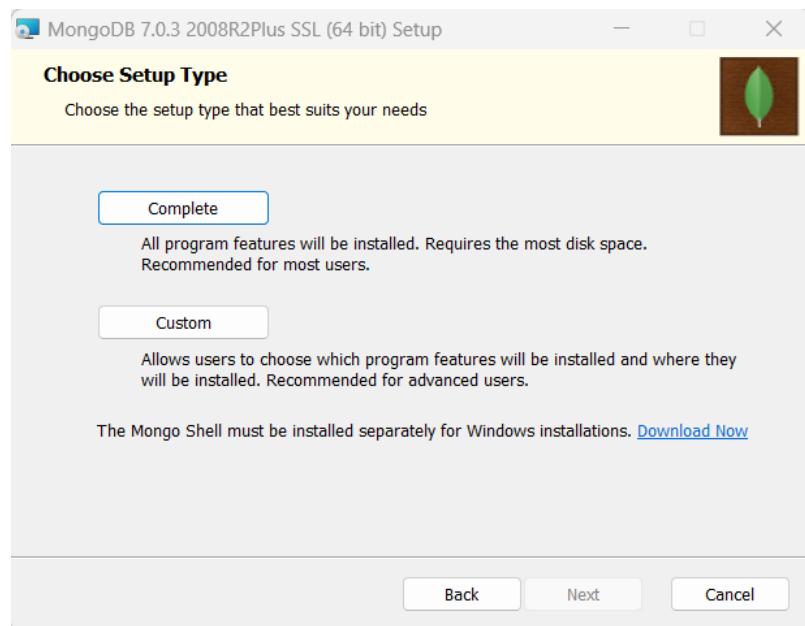
Download Copy link

➔ mongodb-windows-x86_64-7.0.3-signed.msi

- Installer le package téléchargé « mongodb-windows-x86_64-7.0.3-signed.msi »



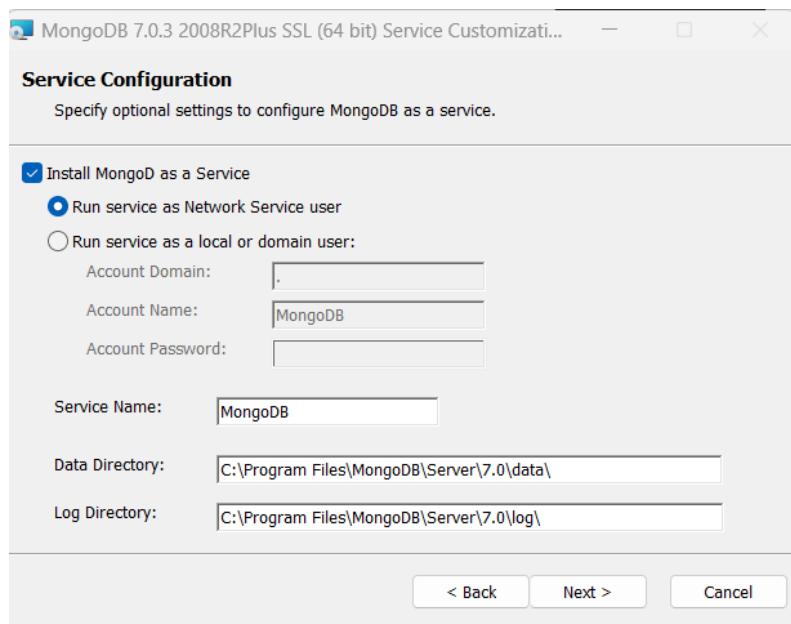
- Garder « service » dans la boite de dialogue :



Pour Windows, prévoir en parallèle l'installation du shell MongoDB

A screenshot of the MongoDB Shell download page. At the top is a navigation bar with a logo and "TOOLS". Below it is a section titled "MongoDB Shell Download". It contains a brief description of what the shell is and compatibility notes. A note also mentions that the shell is an open-source product developed separately from the MongoDB Server. Below this is a "Learn more" link. The main part of the page shows three dropdown menus for configuration: "Version" set to 2.0.2, "Platform" set to Windows x64 (10+), and "Package" set to zip. At the bottom are three buttons: a green "Download" button, a "Copy link" button, and a "More Options" button with a three-dot menu.

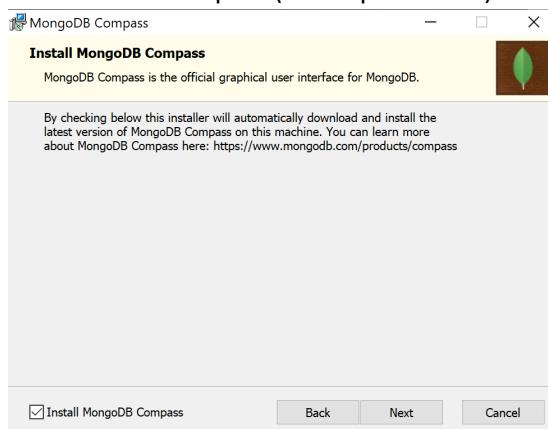
Installer MongoDB comme un service : « Run service settings to configure MongoDB as an service



Ajouter le répertoire bin de MongoDB dans le path de Windows

Lancer mongod (mongo deamon server) dans le répertoire bin.

L'installation installe MongoDB et l'outil Compass (coché par défaut)



 MongoDB.



MongoDB Compass is being installed.

It will launch once it is done.

B. 2^{EME} OPTION : S'INSCRIRE SUR ATLAS (ATTENTION RESEAU FILAIRE SORBONNE RESTREINT L'ACCES MAIS WIFI OK)

1) Créez votre compte ATLAS

Sur <https://cloud.mongodb.com>

2) Ajuster les autorisations d'accès

Patrick's Org - 2018-12-19 > PROJECT 0

Network Access

IP Access List Peering Private Endpoint

You will only be able to connect to your cluster from the following list of IP Addresses:

IP Address	Comment	Status	Actions
0.0.0.0/0 (includes your current IP address)	Tous peuvent accéder	Active	EDIT DELETE
91.160.29.194/32 (includes your current IP address)		Active	EDIT DELETE
188.165.4.35/32	projet-web-training.ovh cluster026.hosting.ovh.net	Active	EDIT DELETE

C. 3^{EME} OPTION UTILISATION AVEC LES MACHINES DE LA PPTI

MongoDB a été installé sur les machines de la salle. Cependant, pour des questions de droits d'accès, pour pouvoir l'utiliser il y a quelques lignes à taper :

1. Créez un répertoire data/db dans votre home par la suite de commandes . . .
 - (a) cd
 - (b) mkdir data
 - (c) mkdir data/db
2. Lancez le serveur en tapant en ligne de commande mongod --dbpath ~/data/db –port XXX

D. DRIVER MONGODB DEPUIS NODE.JS SUR VOTRE PROPRE MACHINE

1) Rappel d'un premier router express, Reprendre votre TM6

- Placez-vous avec vos dernières réalisations du TM6 , à l'aide du router express
- Si nodemon installé avec la ligne "scripts": { "start": "nodemon index.js", Alors lancer le serveur par : >npm start
- Puis tester vos routes, par exemple : <http://localhost:8000/test.html>

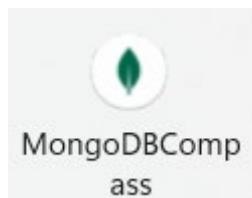
2) Driver MongoDB

Pour installer les drivers MongoDB dans Node.js : npm install mongodb

2. COMPASS, EQUIVALENT DE PHPMYADMIN

Compass est l'équivalent pour MongoDB de l'outil PHPMyAdmin pour SQL

Lancer, après installation <https://www.mongodb.com/try/download/community> de mongoDB , incluant l'outil Compass, lancer votre interface Compass



A. CONNEXION SOUS COMPASS AU SERVEUR MONGODB LOCAL

Compass propose l'interface d'accueil suivante et propose par défaut une connexion au serveur MongoDB local :

A screenshot of the MongoDB Compass application. The left sidebar shows 'Saved connections' with one entry: 'localhost' (1 août 2023, 07:23) and 'Recents' with one entry: 'localhost:27017' (22 mars 2024, 13:54). The main area is titled 'New Connection' with the sub-instruction 'Connect to a MongoDB deployment'. It contains a 'URI' field with the value 'mongodb://localhost:27017/' and an 'Edit Connection String' toggle switch. Below the URI is a link to 'Advanced Connection Options'. At the bottom are 'Save', 'Save & Connect', and 'Connect' buttons. A green info box at the bottom left says 'New to Compass and don't have a cluster? If you don't already have a cluster, you can create one for free using MongoDB Atlas'.

B. CONNEXION SOUS COMPASS A VOTRE CLOUD MONGODB ATLAS

Définir le hostname

The screenshot shows the MongoDB Compass interface. On the left, there's a sidebar with a dark green header labeled "Compass". It has three sections: "Saved connections" (with one entry: "Local_20221228" from "26 déc. 2022, 10:10"), "Recents" (empty), and "New connection +". The main area is titled "New Connection" with the sub-instruction "Connect to a MongoDB deployment". It features a "URI" input field containing "mongodb+srv://cluster0-ofqos.mongodb.net/?authMechanism=DEFAULT". To the right of the URI is a "Edit Connection String" button with a gear icon and a "FAVORITE" button with a star icon. Below the URI is a section titled "Advanced Connection Options" with tabs for General (selected), Authentication, TLS/SSL, Proxy/SSH, In-Use Encryption, and Advanced. Under "Connection String Scheme", two options are shown: "mongodb" and "mongodb+srv", with "mongodb+srv" being highlighted with a green border. A note below explains the "+srv" format: "DNS Seed List Connection Format. The +srv indicates to the client that the hostname that follows corresponds to a DNS SRV record." There's also a "Hostname" input field containing "cluster0-ofqos.mongodb.net". At the bottom are three buttons: "Save", "Save & Connect" (highlighted with a green border), and "Connect".

Préciser le login/pw de l'onglet authentification, avec la qualité d'admin

The screenshot shows the MongoDB Compass interface. On the left, the sidebar displays 'Saved connections' (Atlas Clust0, Local_20221228) and 'Recents' (cluster0-ofqos.mongodb.net). The main area is titled 'New Connection' with the sub-instruction 'Connect to a MongoDB deployment'. It includes a 'URI' field containing the connection string: `mongodb+srv://:login:pw@cluster0-ofqos.mongodb.net/?authMechanism=DEFAULT&authSource=admin`. A 'Edit Connection String' button is next to it. A 'FAVORITE' button with a star icon is also present. Below the URI, there's a section for 'Advanced Connection Options' with tabs for General, Authentication (selected), TLS/SSL, Proxy/SSH, In-Use Encryption, and Advanced. Under 'Authentication Method', 'Username/Password' is selected. The 'Username' field contains 'sorbonne' and the 'Password' field contains '*****'. The 'Authentication Database' field contains 'admin' with an 'Optional' note. At the bottom are 'Save', 'Save & Connect', and 'Connect' buttons.

Après l'envoi du « Connect »

The screenshot shows the MongoDB Compass interface connected to a cluster named "cluster0-ofqos....". The top navigation bar includes "MongoDB Compass - cluster0-ofqos.mongodb.net", "Connect", "Edit", "View", and "Help". The main menu tabs are "My Queries", "Databases", and "Performance", with "My Queries" being the active tab.

The left sidebar displays a list of databases:

- My Queries
- Databases
 - Search
 - admin
 - air
 - config
 - eboutique
 - gymnase2020
 - gymnase2021
 - gymnasebson
 - local
 - sample_airbnb
 - sample_geospatial
 - sample_mflix
 - sample_supplies
 - sample_training
 - sample_weatherdata

The central area shows three aggregate queries:

- Nb_dispo_en_2023**:
.AGGREGATE
Last modified: August 1, 2023
Collections: mongoDBeval, interimaires
- Q3_solution3réponse**:
.AGGREGATE
Last modified: August 9, 2023
Collections: interim, clients
- Q3_solution3réponse3**:
.AGGREGATE
Last modified: August 9, 2023
Collections: interim, clients

The bottom status bar indicates the connection is "MONGOSH".

Connectez localement au serveur local proposé et ajouter une première base de données avec une collection comme ci-dessous :

The screenshot shows the MongoDB Compass interface. A modal window titled "Create Database" is open in the center. It contains fields for "Database Name" (set to "forum") and "Collection Name" (set to "users"). There is also a checkbox for "Time-Series" which is unchecked. At the bottom right of the modal are two buttons: "Cancel" and "Create Database". The background of the interface shows a list of databases: Gymnase2021, Gymnases2023, admin, config, eboutique, local, and forum. The "forum" database is expanded, showing its collections: users, interim, and clients. The "users" collection is highlighted with a green bar at the bottom.

Une nouvelle base est créée :

This screenshot shows the "Databases" list in MongoDB Compass. The "forum" database is listed and expanded, revealing its collections: users, interim, and clients. The "users" collection is highlighted with a green bar at the bottom of the list.