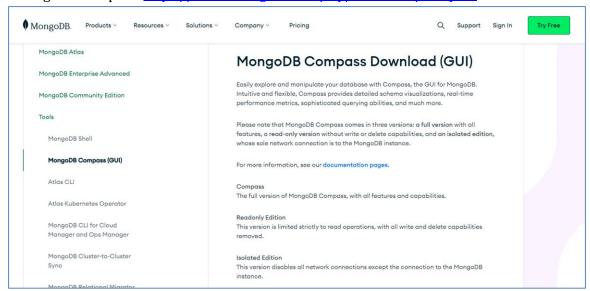
MongoDB to Power BI Connection - Step-by-Step Guide

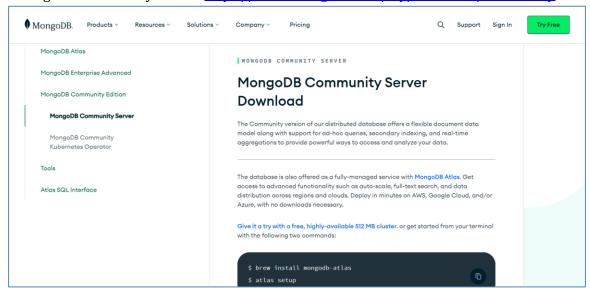
1. Install and Configure MongoDB (Compass) and MongoDB Server

Download and install MongoDB Compass and MongoDB Server from the links below:

- MongoDB Compass: https://www.mongodb.com/try/download/compass



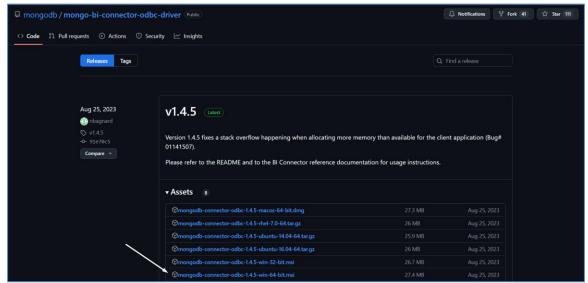
- MongoDB Community Server: https://www.mongodb.com/try/download/community



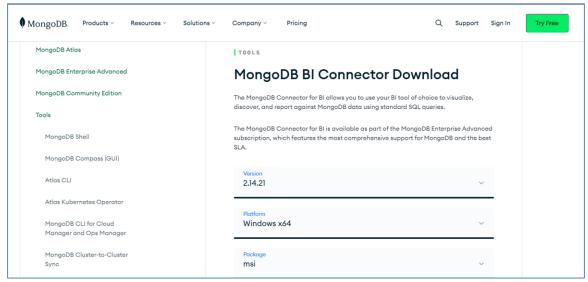
2. Download and Install MongoDB ODBC Driver & BI Connector

Download and install the required drivers and connectors from the following links:

- MongoDB ODBC Driver: https://github.com/mongodb/mongo-bi-connector-odbc-driver/releases/



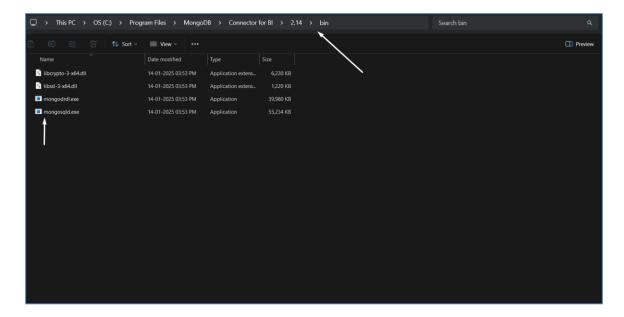
- MongoDB BI Connector: https://www.mongodb.com/try/download/bi-connector



3. Ensure MongoDB BI Connector is Running

Before configuring the DSN, ensure that **mongosqld.exe** is running. It is typically located at:

C:\Program Files\MongoDB\Connector for BI\2.14\bin

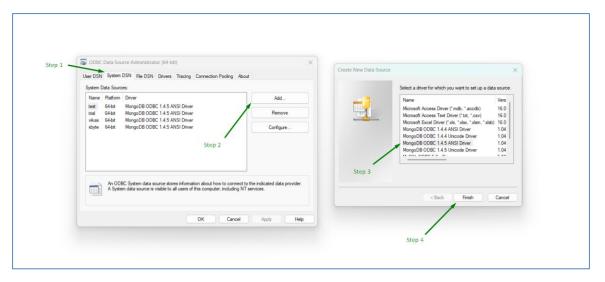


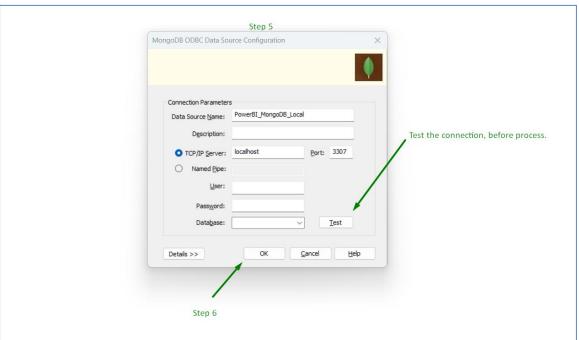
```
2025-02-19712:58:57.210-08500 I CONTROL
2025-02-19712:58:57.211-08500 I CONTROL
3.2 3 Sep 2024)
2025-02-19712:58:57.211-08500 I CONTROL
2025-02-19712:58:57.210-08500 I SCHEMA
2025-02-19712:58:57.203-08500 I SCHEMA
2025-02-19712:58:57.203-08500 I SCHEMA
2025-02-19712:58:57.263+08500 I
```

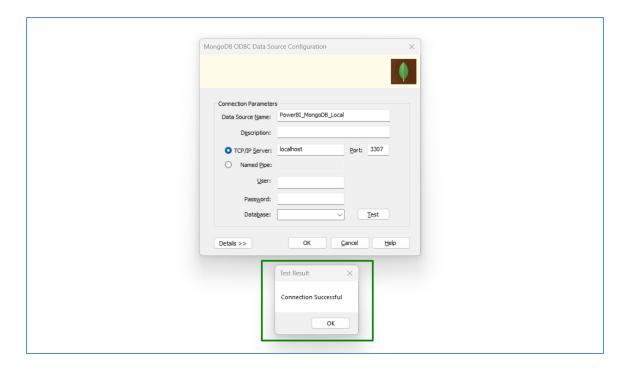
4. Create and Configure System DSN Driver (Localhost Connection)

For a localhost connection, follow these steps:

- 1. Open ODBC Data Source Administrator.
- 2. Go to the System DSN tab.
- 3. Click Add, select MongoDB ODBC Driver, and configure it accordingly.







4. Save the configuration.

5. Configure Remote Connection

Step 1: Modify mongod.cfg for Remote MongoDB Connection

The configuration file is located at:

 $C:\Program\ Files\MongoDB\Server\7.0\bin$

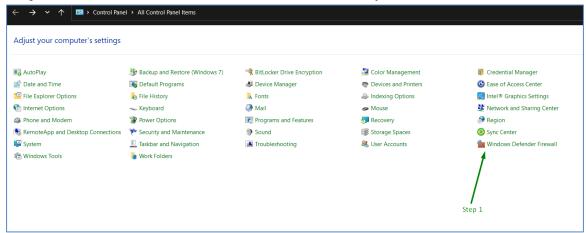
Modify it to allow remote connections.

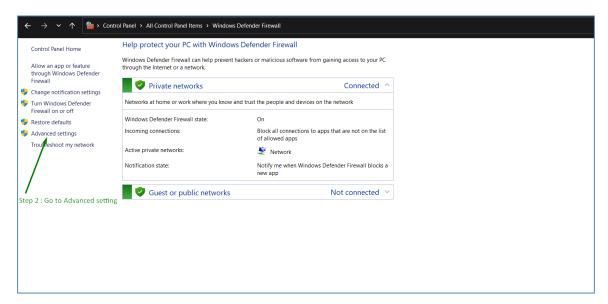
```
# mongod.conf
# for documentation of all options, see:
    http://docs.mongodb.org/manual/reference/configuration-options/
# Where and how to store data.
  dbPath: C:\Program Files\MongoDB\Server\7.0\data
# where to write logging data.
systemLog:
   destination: file
  logAppend: true
path: C:\Program Files\MongoDB\Server\7.0\log\mongod.log
 # network interfaces
  port: 27017
bindIp: 0.0.0.0
                                Change the bindlp to 0.0.0.0
#processManagement:
#security:
#operationProfiling:
#replication:
#sharding:
## Enterprise-Only Options:
#auditLog:
```

Step 2: Create Inbound Rules for Remote Access

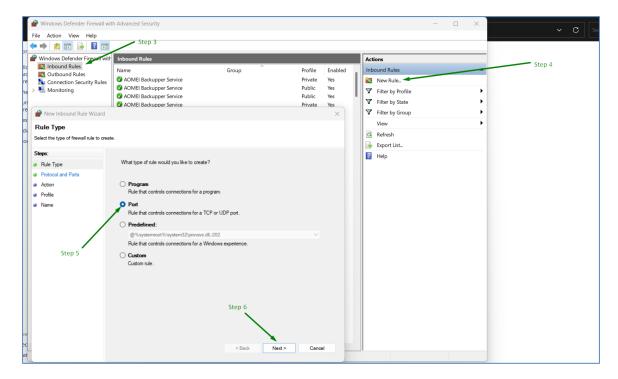
To allow remote access, configure Windows Firewall:

1. Open Windows Defender Firewall with Advanced Security.

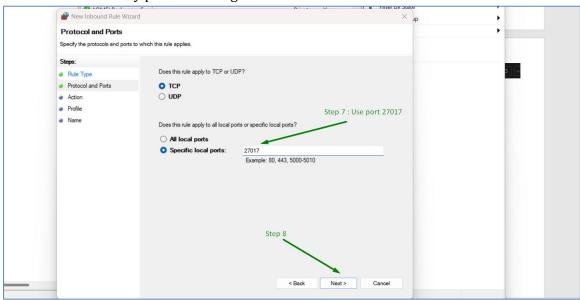


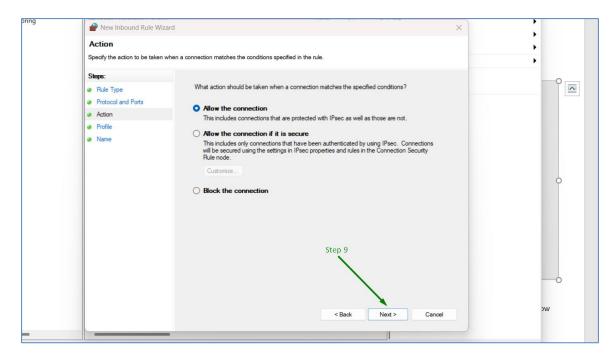


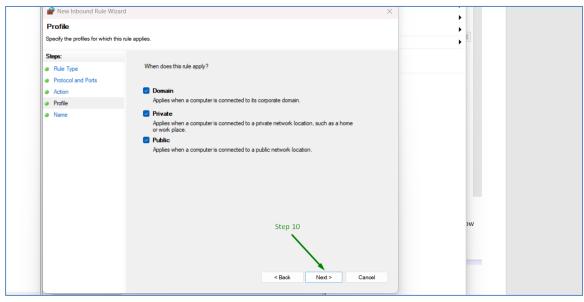
2. Create a new Inbound Rule.

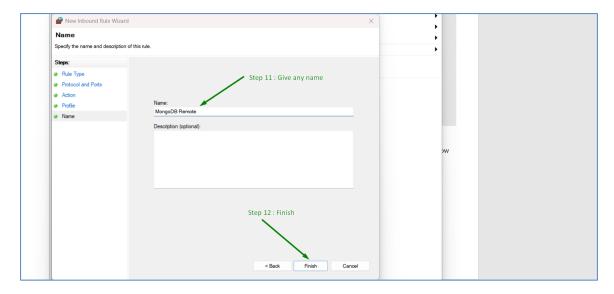


3. Allow the necessary ports for MongoDB.









Step 3: Modify example-mongosqld-config.yml

The configuration file is located at:

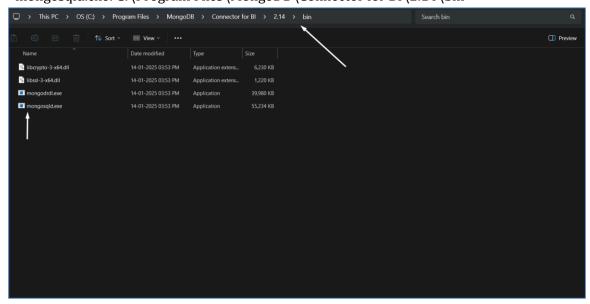
C:\Program Files\MongoDB\Connector for BI\2.14

Modify it to support remote connections.

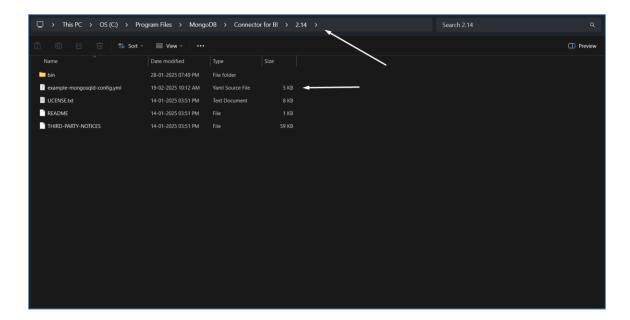
Step 4: Ensure mongosqld.exe and example-mongosqld-config.yml are Running

Run the following files on both local and remote **both systems**:

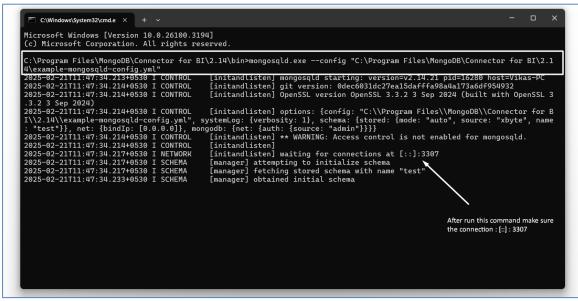
- mongosqld.exe: C:\Program Files\MongoDB\Connector for BI\2.14\bin



- example-mongosqld-config.yml: C:\Program Files\MongoDB\Connector for BI\2.14

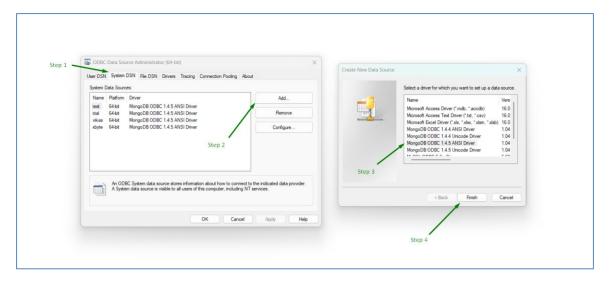


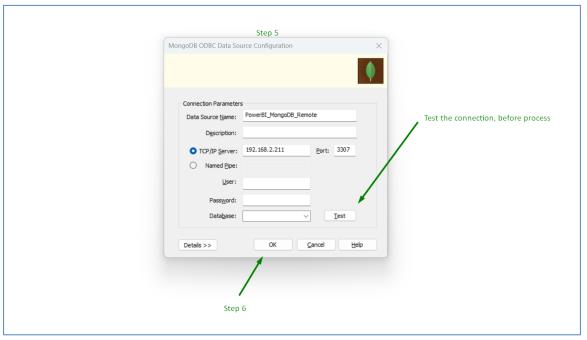
Now go to cmd and run the below command for the remote connection:

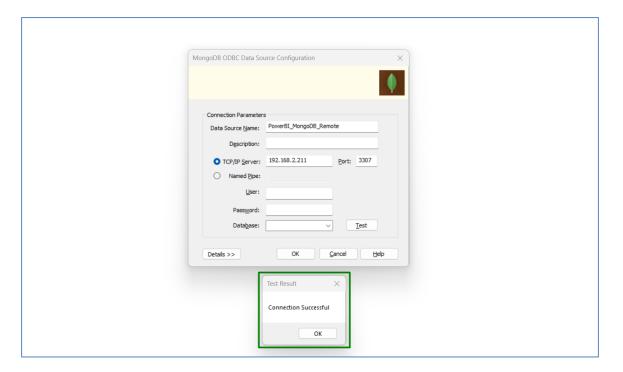


6. Create and Configure System DSN Driver (Remote Connection)

Follow the same steps as for the localhost connection but configure it for the remote data source.







7. Connect MongoDB to Power BI

- 1. Open Power BI Desktop.
- 2. Go to Get Data and search for ODBC.
- 3. Select ODBC, then choose the Data Source Name (DSN) configured earlier (e.g., PowerBI_MongoDB_Remote).
- 4. Load the data and start building reports.

Part 2: Automate the MongoDB cmd command process.

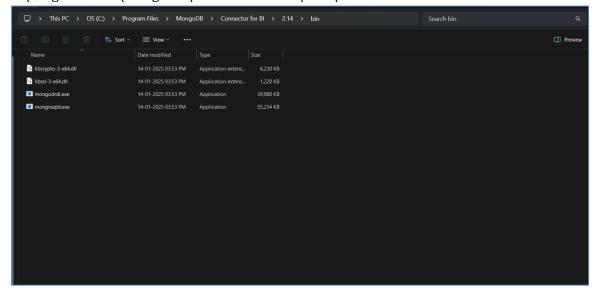
How to automate the mongosqld.exe and example-mongosqld-config.yml running process:

- 1. Create a Notepad++ file.
- 2. Save the below code with .vbs format.

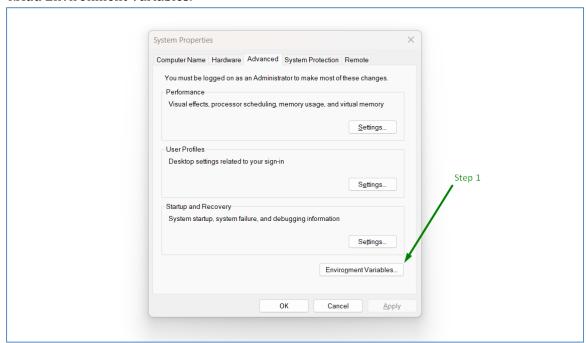
```
Set objShell = CreateObject("WScript.Shell")
' Command to run
command = "mongosqld.exe --config ""C:\Program Files\MongoDB\Connector for BI\2.14\example-mongosqld-config.yml"""
' Run the command in the background
objShell.Run command, 0, False
' Check process status
processName = "mongosqld.exe"
    WScript.Echo processName & " is running."
```

3. Copy the path is located at:

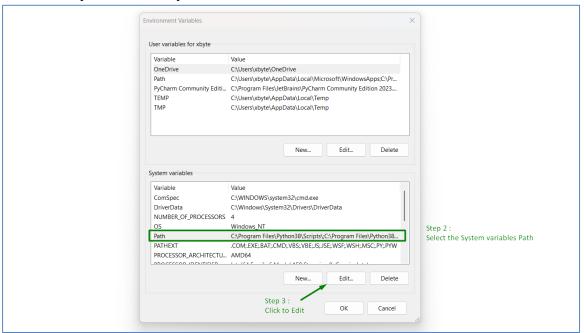
C:\Program Files\MongoDB\Connector for BI\2.14\bin

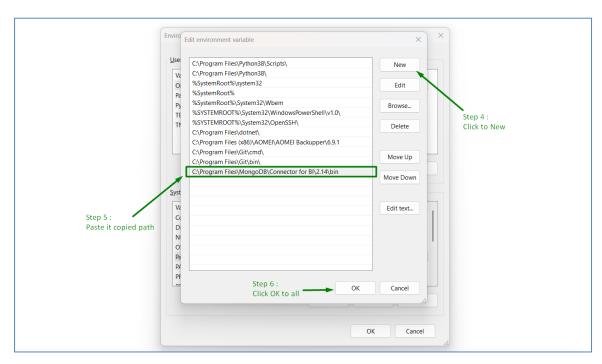


4.Add Environment Variables.

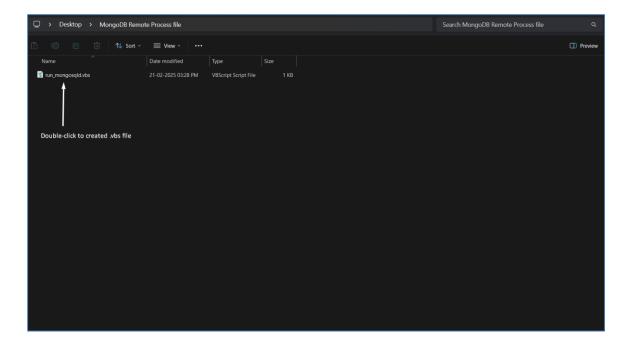


5. Edit new system variable path.

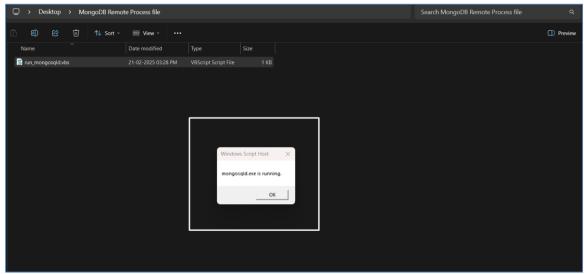




6. Run the created .vbs file



7. File status updated and Running.



(Note: Above all automate running process steps need to configure on both local and remote systems.)

Thank you!