1. Install MongoDB Community Server (Database)

Step 1: Download the installer

1. Open the official **MongoDB Community Server Download** page.
2. In the page:
    - **Edition / Product**: *Community Server*
    - **Version**: keep the latest stable (e.g. 7.x)
    - **Platform**: Windows x64
    - **Package**: msi
3. Click **Download** to get a file like:

    mongodb-windows-x86_64-7.0.x-signed.msi

Step 2: Run the installer

1. Double-click the .msi file from your **Downloads** folder.
2. Click **Next** on the welcome screen.
3. Accept the license → **Next**.
4. Choose **Complete** setup type (recommended).

Step 3: Configure as a Windows Service

During the install wizard you'll see **"Service Configuration"**:

1. Tick **"Run service as Network Service user"** (default & recommended).
2. Keep default:
    - **Service Name**: MongoDB
    - **Data Directory**: C:\Program Files\MongoDB\Server\<version>\data (or similar)
    - **Log Directory**: C:\Program Files\MongoDB\Server\<version>\log
3. Make sure **"Install MongoDB as a Service"** is selected.
4. Click **Next** then **Install**.
5. When it finishes, click **Finish**.

MongoDB will now run in the background as a **Windows service** each time Windows starts.

💡 Alternative (ZIP)
If you ever need a no-installer ZIP version (e.g., no admin rights), you can use the official ZIP procedure.

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2. Add MongoDB to PATH (so mongod / tools work from any folder)

If the installer didn't add it automatically:

1. Find install path, e.g.:

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

2. Press **Win** key → search **"Environment Variables"** → open **"Edit the system environment variables"**.
3. Click **Environment Variables…**.
4. Under **System variables**, select **Path** → **Edit**.
5. Click **New** → paste the bin path above → **OK**, **OK**.

Now a new **Command Prompt** window will recognise mongod and other tools.

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3. Install MongoDB Shell (mongosh)

Recent MongoDB versions ship with **mongosh**, but you can also install it separately.

Step 1: Download mongosh

1. Open the official **MongoDB Shell download page**.
2. Choose:
   - **Version**: latest
   - **Platform**: Windows x64
   - **Package**: msi (recommended)
3. Click **Download**.

Step 2: Install mongosh

1. Run the downloaded .msi file.
2. Click through **Next** → **Next** → **Install** → **Finish** (defaults are fine).

Step 3: Add mongosh to PATH (if needed)

If mongosh is not recognised from Command Prompt:

1. Find its install path, usually:

   C:\Program Files\MongoDB\mongosh\<version>\bin

2. Add this to **Environment Variables** → **Path** using the same steps as above.

Step 4: Test mongosh

1. Open **Command Prompt**.
2. Run:

```
mongosh
```

2.
3. You should see a prompt like:

```
test>
```

3. That means mongosh is working and connected to your local MongoDB instance.

If it can't connect, ensure the **MongoDB service** is running:

- Press **Win+R** → type services.msc → Enter.
- Find **MongoDB** → Right-click → **Start**.

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4. Install MongoDB Compass (GUI)

MongoDB Compass is the official GUI to visually explore databases.

Step 1: Download Compass

1. Go to **MongoDB Compass Download (GUI)** page.
2. Make sure **Platform** = Windows x64.
3. Choose **Compass** (full version).
4. Click **Download** to get something like:

   mongodb-compass-<version>-winx64.exe

Step 2: Install Compass

1. Double-click the .exe file.
2. Follow the wizard:
   - Accept license.
   - Keep default install location.
   - Click **Install** → **Finish**.

(Older guides mention a ZIP + Extract method; the .exe installer is simpler now.)

Step 3: Launch Compass and connect to local MongoDB

1. Open **MongoDB Compass** from Start Menu.
2. In the **New Connection** window, for local default install, use connection string:

mongodb://localhost:27017

2.
3. Click **Connect**.
4. You should now see your **databases**, **collections**, and can run queries via the GUI.

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5. Quick “Everything works?” checklist

In order:

1. **MongoDB Service**
    - Open services.msc.
    - Ensure **MongoDB** status is **Running**.
2. **mongosh from Command Prompt**

```
mongosh
```

2.
    - If you see a test> prompt → OK.
3. **Create a test database + collection**

    In mongosh:

```
use labdb
db.students.insertOne({ name: "Surendra", course: "MongoDB Basics" })
db.students.find()
```

3.
4. **View the same data in Compass**
    - Open Compass → connect to mongodb://localhost:27017.
    - Open **labdb** → **students** collection → you should see that document.

If all four are fine, your **Community Server + shell + Compass** setup on **Windows 10** is complete.
