# Install MongoDB on Ubuntu 24.04 (Noble) -

⚠️ MongoDB does not **officially support Ubuntu 24.04 (noble)** yet.
👉 But we can install it using the **Ubuntu 22.04 (jammy)** repository, which works fine.

## 🔹 Step 1: Import GPG Key

**curl -fsSL https://pgp.mongodb.com/server-7.0.asc | sudo gpg --dearmor -o /usr/share/keyrings/mongodb-server-7.0.gpg**

Explanation:

- curl → Downloads the official MongoDB **GPG key**.
- gpg --dearmor → Converts the key into .gpg format.
- /usr/share/keyrings/mongodb-server-7.0.gpg → Saves the key here.

👉 This key is later used to verify the authenticity of MongoDB packages.

## 🔹 Step 2: Add MongoDB Repository

**echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-7.0.gpg ] https://repo.mongodb.org/apt/ubuntu jammy/mongodb-org/7.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-7.0.list**

Explanation:

- deb [...] → Defines a Debian/Ubuntu repository.
- arch=amd64,arm64 → Supported CPU architectures (64-bit Intel/AMD, ARM).
- signed-by=...gpg → Repository is signed by the key from Step 1.
- https://repo.mongodb.org/apt/ubuntu jammy/... → Official MongoDB repo URL.
- jammy → We use **jammy (22.04 codename)** instead of noble because noble is not supported yet.
- tee → Writes this line into /etc/apt/sources.list.d/mongodb-org-7.0.list.

👉 This tells Ubuntu where to fetch MongoDB packages from.

## 🔹 Step 3: Update Package List

**sudo apt-get update**

Explanation:

- Updates Ubuntu's local package index.
- Now it includes MongoDB repository info.

👉 Without this, Ubuntu wouldn't know MongoDB is available.

## 🔹 Step 4: Install MongoDB

**sudo apt-get install -y mongodb-org**

Explanation:

- mongodb-org → A **meta-package** that installs all MongoDB components:
  - mongod → MongoDB server
  - mongosh → MongoDB shell
  - Tools (import/export, backup/restore, etc.)
- -y → Automatically answers *yes* to confirmation prompts.

👉 This installs the complete MongoDB package.

## 🔹 Step 5: Start MongoDB Service

**sudo systemctl start mongod**

👉 Starts the MongoDB server (daemon).

## 🔹 Step 6: Enable Auto-Start on Boot

**sudo systemctl enable mongod**

👉 Ensures MongoDB automatically starts every time the system reboots.

## 🔹 Step 7: Check MongoDB Status

**sudo systemctl status mongod**

👉 You should see active (running).

## 🔹 Step 8: Open MongoDB Shell

**mongosh**

👉 Opens the MongoDB shell to interact with your databases.

# ✅ Quick Recap (One-Liner Install Commands)

# 1. Import GPG Key

**curl -fsSL https://pgp.mongodb.com/server-7.0.asc | sudo gpg --dearmor -o /usr/share/keyrings/mongodb-server-7.0.gpg**

# 2. Add Repository (use jammy instead of noble)

**echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-7.0.gpg ] https://repo.mongodb.org/apt/ubuntu jammy/mongodb-org/7.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-7.0.list**

# 3. Update

**sudo apt-get update**

# 4. Install

**sudo apt-get install -y mongodb-org**

# 5. Start Service

**sudo systemctl start mongod**

# 6. Enable Auto-Start

**sudo systemctl enable mongod**

# 7. Check Status

**sudo systemctl status mongod**

# 8. Open Shell

**mongosh**