


# Instalação do MongoDB e MongoDB Compass no Linux Mint

## 1. Pré-requisitos

Atualize o sistema e instale as dependências necessárias:

```
sudo apt update
sudo apt install curl gnupg -y
```

A screenshot of a Linux terminal window. The window title is 'jv\_l0pes@ATARA: ~'. The prompt is 'jv\_l0pes@ATARA:~\$'. The first command entered is 'sudo apt update', followed by 'sudo apt install curl gnupg -y'. The cursor is at the end of the second command. The terminal has a dark background and a light-colored cursor.

```
jv_l0pes@ATARA: ~
jv_l0pes@ATARA:~$ sudo apt update
sudo apt install curl gnupg -y
```

## 2. Instalação do MongoDB

Adicionar a chave GPG e o repositório oficial:

```
curl -fsSL https://www.mongodb.org/static/pgp/server-7.0.asc | sudo gpg --dearmor
-o /usr/share/keyrings/mongodb.gpg echo "deb [arch=amd64 signed-by=/usr/share/
keyrings/mongodb.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
```

Instalar os pacotes e iniciar o serviço:

```
sudo apt update
sudo apt install mongodb-org -y
sudo systemctl start mongod
sudo systemctl enable mongod
```

## 3. Instalação do MongoDB Compass

```
wget https://downloads.mongodb.com/compass/mongodb-compass_1.40.4_amd64.deb
sudo dpkg -i mongodb-compass_*.deb
sudo apt install -f
```

```
jv_l0pes@ATARA: ~  
jv_l0pes@ATARA:~$ # Adicionar repositório  
curl -fsSL https://www.mongodb.org/static/pgp/server-7.0.asc | \  
sudo gpg --dearmor -o /usr/share/keyrings/mongodb.gpg  
  
echo "deb [arch=amd64 signed-by=/usr/share/keyrings/mongodb.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  
  
# Instalar  
sudo apt update  
sudo apt install mongodb-org -y  
  
# Iniciar serviço  
sudo systemctl start mongod  
sudo systemctl enable mongod
```

## 4. Criação do Banco de Dados de Teste

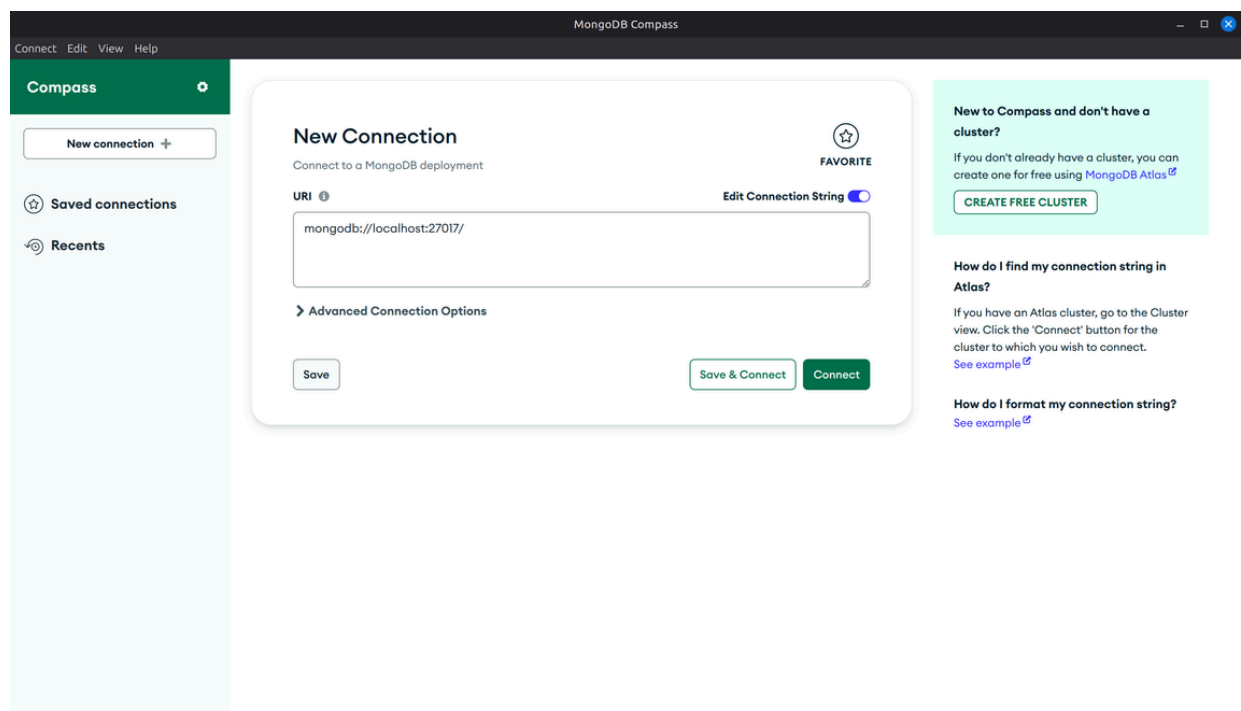
Execute **mongodb-compass**.

Clique em **Create Database**.

Nome do banco: **meubanco**.

Collection inicial: **usuarios**.

Confirme em **Create Database**.



## Create Database

Database Name

meubanco

Collection Name

usuarios

☐ Time-Series

Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

> Additional preferences

(e.g. Custom collation, Capped, Clustered collections)

Cancel

Create Database

Documento para inserção:

```
{ "nome": "João Silva", "email": "joao@email.com", "idade": 30, "cidade": "São Paulo", "ativo": true, "data_cadastro": { "$date": "2024-01-15T10:30:00Z" } }
```

## Insert Document

To collection meubanco.usuarios

VIEW

{ }

≡

```
1 {
2   "nome": "João Silva",
3   "email": "joao@email.com",
4   "idade": 30,
5   "cidade": "São Paulo",
6   "ativo": true,
7   "data_cadastro": {
8     "$date": "2024-01-15T10:30:00Z"
9   }
10 }
```

Cancel

Insert

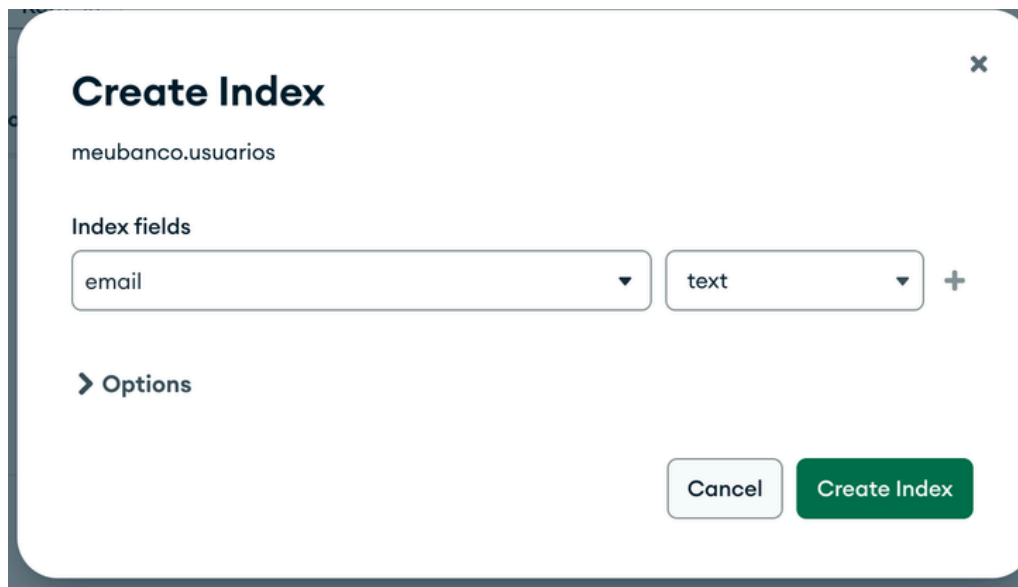
Criação de índice único no campo **email**:

Aba **Indexes**.

Field: **email**.

Unique: **true**.

Name: **idx\_email\_unico**.



The screenshot shows the 'Create Index' dialog box in MongoDB Compass. The dialog is titled 'Create Index' and has a close button (X) in the top right corner. Below the title, the database name 'meubanco.usuarios' is displayed. Under the 'Index fields' section, there is a dropdown menu showing 'email' and another dropdown menu showing 'text', followed by a plus sign (+). Below this, there is a link that says '> Options'. At the bottom right, there are two buttons: 'Cancel' and 'Create Index'.

## 5. Criação do Banco de Dados de Teste com Index

