



Data Science Academy

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Instalando o MongoDB no Linux Ubuntu 16.04



- 1- O MongoDB já está incluído nos repositórios de pacotes do Ubuntu, mas o repositório MongoDB oficial fornece a versão mais atualizada e é a maneira recomendada de instalar o software. Nesta etapa, adicionaremos este repositório oficial ao nosso servidor. O Ubuntu garante a autenticidade dos pacotes de software, verificando que eles são assinados com chaves GPG, então primeiro precisamos importar a chave para o repositório MongoDB oficial.

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu: ~
dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.0fZAqld17/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80
--recv
EA312927
gpg: requesting key EA312927 from hkp server keyserver.ubuntu.com
gpg: key EA312927: public key "MongoDB 3.2 Release Signing Key <packaging@mongodb.com>" imported
gpg: Total number processed: 1
gpg:      imported: 1 (RSA: 1)
dmpm@ubuntu:~$
```

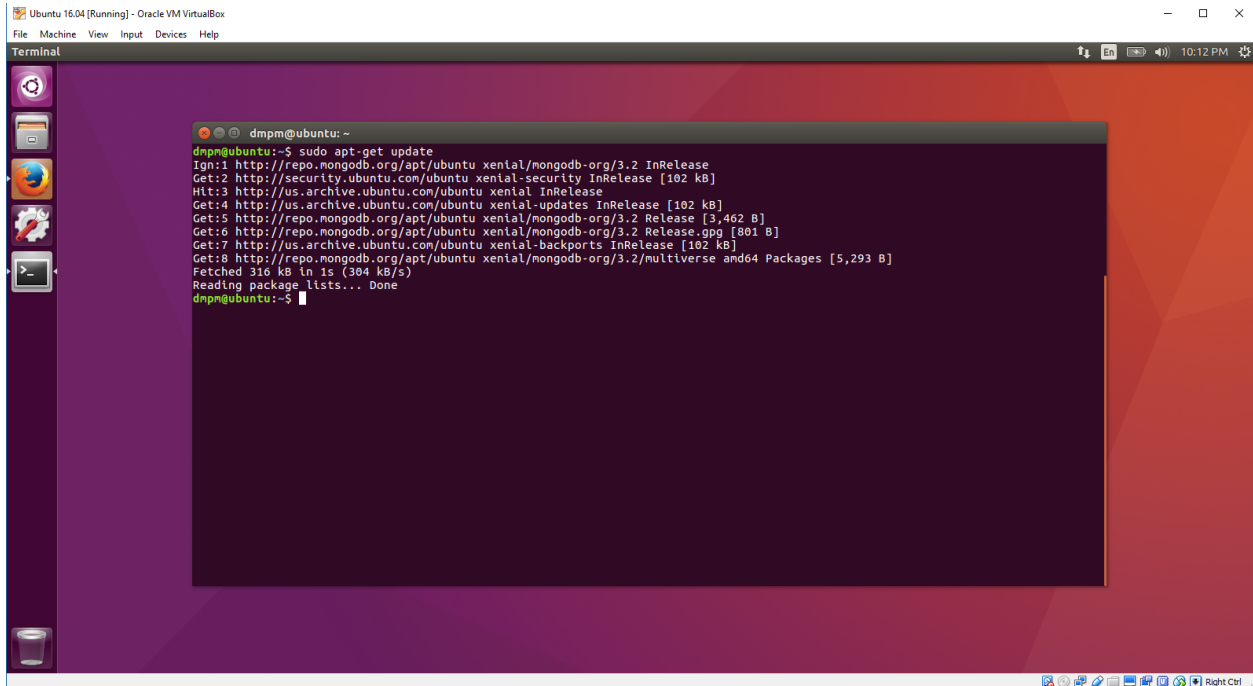


- 2- Chave adicionada com sucesso. Em seguida, temos que adicionar os detalhes do repositório do MongoDB, assim o apt saberá onde baixar os pacotes. Execute o seguinte comando para criar um arquivo de lista para o MongoDB.

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu: ~
dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.0fZAqQld17/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80
--recv
EA312927
gpg: requesting key EA312927 from hkp server keyserver.ubuntu.com
gpg: key EA312927: public key "MongoDB 3.2 Release Signing Key <packaging@mongodb.com>" imported
gpg: Total number processed: 1
gpg:      imported: 1 (RSA: 1)
dmpm@ubuntu:~$ echo "deb http://repo.mongodb.org/apt/ubuntu xential/mongodb-org/3.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list
deb http://repo.mongodb.org/apt/ubuntu xential/mongodb-org/3.2 multiverse
dmpm@ubuntu:~$
```



3- Depois de adicionar os detalhes do repositório, precisamos atualizar a lista de pacotes.



```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get update
Ign:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Hit:3 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:4 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 Release [3,462 B]
Get:6 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 Release.gpg [801 B]
Get:7 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:8 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 Packages [5,293 B]
Fetched 316 kB in 1s (384 kB/s)
Reading package lists... Done
dmpm@ubuntu:~$
```



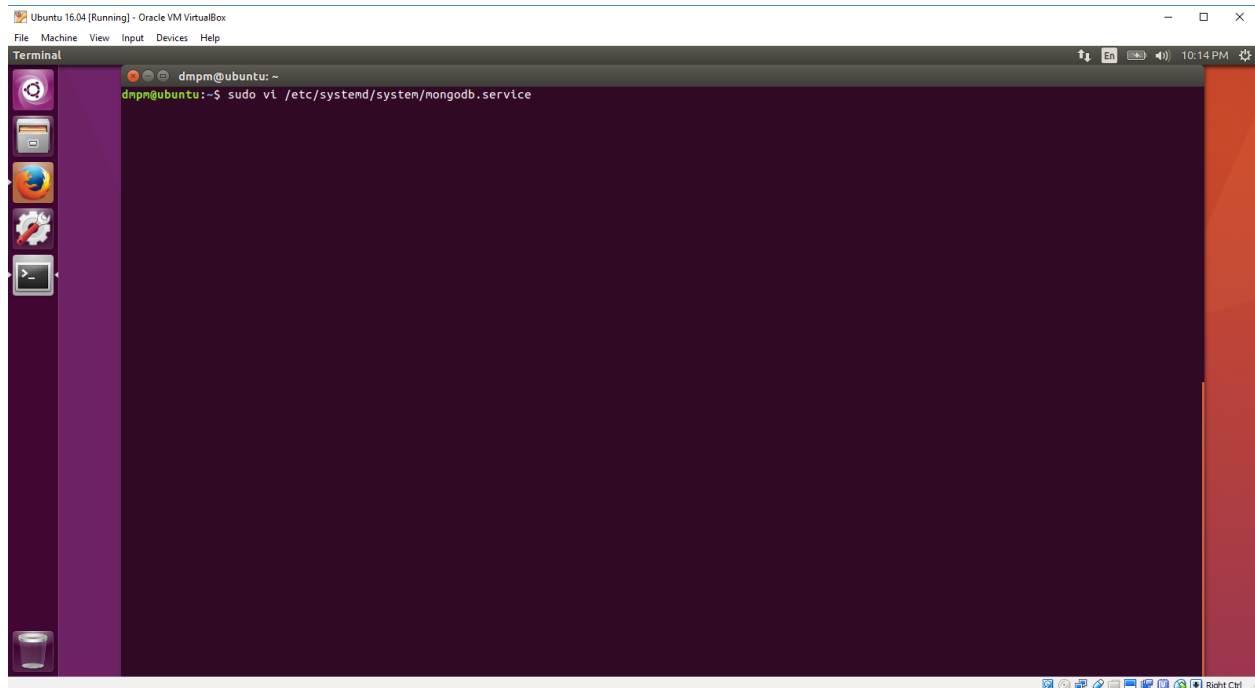
4- Instalando o MongoDB.

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get install -y mongodb-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 3 not upgraded.
Need to get 51.6 MB of archives.
After this operation, 214 MB of additional disk space will be used.
Get:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org amd64 3.2.12 [3,558 B]
Fetched 51.6 MB in 5s (9,415 kB/s)
Selecting previously unselected package mongodb-org-shell.
(Reading database ... 208822 files and directories currently installed.)
Preparing to unpack .../mongodb-org-shell_3.2.12_amd64.deb ...
Unpacking mongodb-org-shell (3.2.12) ...
Selecting previously unselected package mongodb-org-server.
Preparing to unpack .../mongodb-org-server_3.2.12_amd64.deb ...
Unpacking mongodb-org-server (3.2.12) ...
Selecting previously unselected package mongodb-org-mongos.
Preparing to unpack .../mongodb-org-mongos_3.2.12_amd64.deb ...
Unpacking mongodb-org-mongos (3.2.12) ...
Selecting previously unselected package mongodb-org-tools.
Preparing to unpack .../mongodb-org-tools_3.2.12_amd64.deb ...
Unpacking mongodb-org-tools (3.2.12) ...
Selecting previously unselected package mongodb-org.
Preparing to unpack .../mongodb-org_3.2.12_amd64.deb ...
Unpacking mongodb-org (3.2.12) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up mongodb-org-shell (3.2.12) ...
Setting up mongodb-org-server (3.2.12) ...
Adding system user 'mongodb' (UID 121) ...
Adding new user 'mongodb' (UID 121) with group 'nogroup' ...
Not creating home directory '/home/mongodb'.
Adding group 'mongodb' (GID 129) ...
Done.
Adding user 'mongodb' to group 'mongodb' ...
Adding user mongodb to group mongodb
```

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get install -y mongodb-org
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 3 not upgraded.
Need to get 51.6 MB of archives.
After this operation, 214 MB of additional disk space will be used.
Get:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org amd64 3.2.12 [3,558 B]
Fetched 51.6 MB in 5s (9,415 kB/s)
Selecting previously unselected package mongodb-org-shell.
(Reading database ... 208822 files and directories currently installed.)
Preparing to unpack .../mongodb-org-shell_3.2.12_amd64.deb ...
Unpacking mongodb-org-shell (3.2.12) ...
Selecting previously unselected package mongodb-org-server.
Preparing to unpack .../mongodb-org-server_3.2.12_amd64.deb ...
Unpacking mongodb-org-server (3.2.12) ...
Selecting previously unselected package mongodb-org-mongos.
Preparing to unpack .../mongodb-org-mongos_3.2.12_amd64.deb ...
Unpacking mongodb-org-mongos (3.2.12) ...
Selecting previously unselected package mongodb-org-tools.
Preparing to unpack .../mongodb-org-tools_3.2.12_amd64.deb ...
Unpacking mongodb-org-tools (3.2.12) ...
Selecting previously unselected package mongodb-org.
Preparing to unpack .../mongodb-org_3.2.12_amd64.deb ...
Unpacking mongodb-org (3.2.12) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up mongodb-org-shell (3.2.12) ...
Setting up mongodb-org-server (3.2.12) ...
Adding system user 'mongodb' (UID 121) ...
Adding new user 'mongodb' (UID 121) with group 'nogroup' ...
Not creating home directory '/home/mongodb'.
Adding group 'mongodb' (GID 129) ...
Done.
Adding user 'mongodb' to group 'mongodb' ...
Adding user mongodb to group mongodb
Done.
Setting up mongodb-org-mongos (3.2.12) ...
Setting up mongodb-org-tools (3.2.12) ...
Setting up mongodb-org (3.2.12) ...
dmpm@ubuntu:~$
```



- 5- Criaremos um arquivo para gerenciar o serviço MongoDB. Crie um arquivo de configuração chamado `mongodb.service` no diretório `/etc/systemd/system` usando o `vi` ou seu editor de texto favorito.





6- Edite o arquivo e inclua as linhas conforme abaixo. Salve e feche o arquivo.

```
Terminal
dmpm@ubuntu: ~
[Unit]
Description=High-performance, schema-free document-oriented database
After=network.target

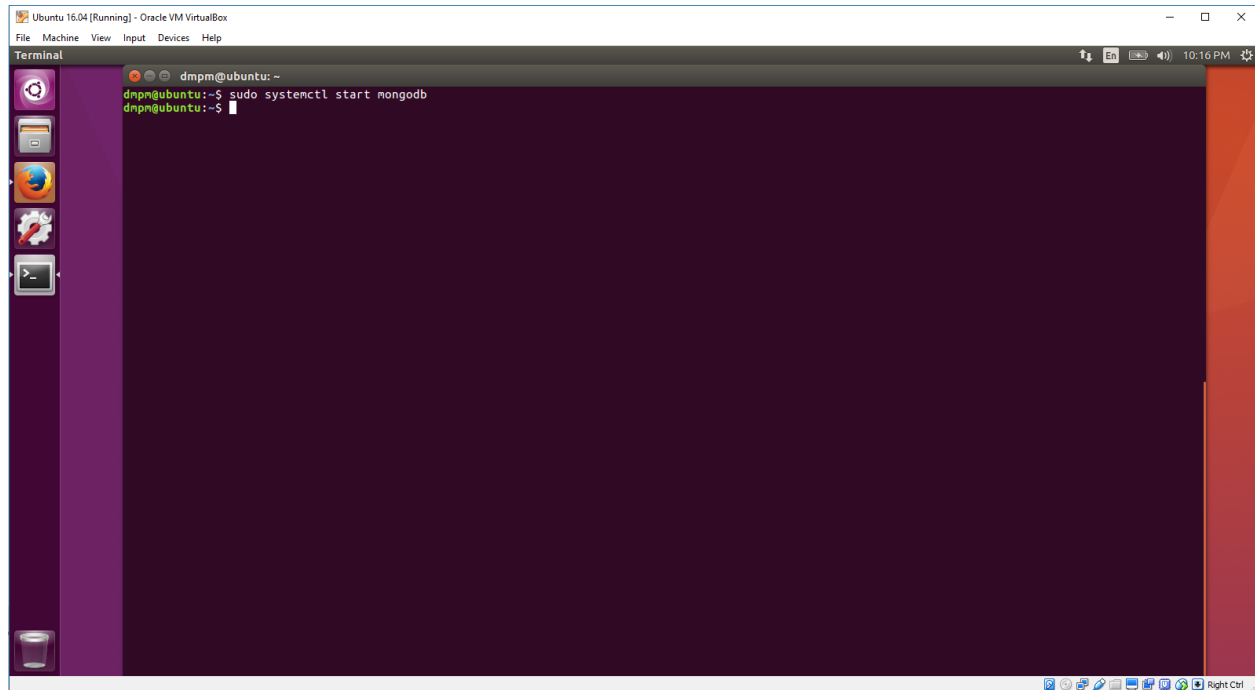
[Service]
User=mongodb
ExecStart=/usr/bin/mongod --quiet --config /etc/mongod.conf

[Install]
WantedBy=multi-user.target

/etc/systemd/system/mongodb.service" [New File] 10 lines, 219 characters written
```



7- Inicialize o serviço.





8- Verifique o status.

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu: ~
dmpm@ubuntu:~$ sudo systemctl start mongod
dmpm@ubuntu:~$ sudo systemctl status mongod
● mongod.service - High-performance, schema-free document-oriented database
   Loaded: loaded (/etc/systemd/system/mongod.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2017-03-14 22:16:37 PDT; 33s ago
     Main PID: 4651 (mongod)
       CGroup: /system.slice/mongod.service
              └─4651 /usr/bin/mongod --quiet --config /etc/mongod.conf

Mar 14 22:16:37 ubuntu systemd[1]: Started High-performance, schema-free document-oriented database.
dmpm@ubuntu:~$
```



9- Habilite o serviço para ser inicializado automaticamente.

```
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu: ~
dmpm@ubuntu:~$ sudo systemctl enable mongod
Created symlink from /etc/systemd/system/multi-user.target.wants/mongod.service to /etc/systemd/system/mongod.service.
dmpm@ubuntu:~$
```



10- Se estiver em uma rede doméstica, desabilite o firewall.

The screenshot shows a terminal window titled 'Terminal' within an 'Ubuntu 16.04 [Running] - Oracle VM VirtualBox' environment. The terminal output is as follows:

```
dmpm@ubuntu: ~  
dmpm@ubuntu:~$ sudo ufw disable  
Firewall stopped and disabled on system startup  
dmpm@ubuntu:~$ sudo ufw status  
Status: inactive  
dmpm@ubuntu:~$
```

Digite **mongo** no terminal e acesse o console do MongoDB.