

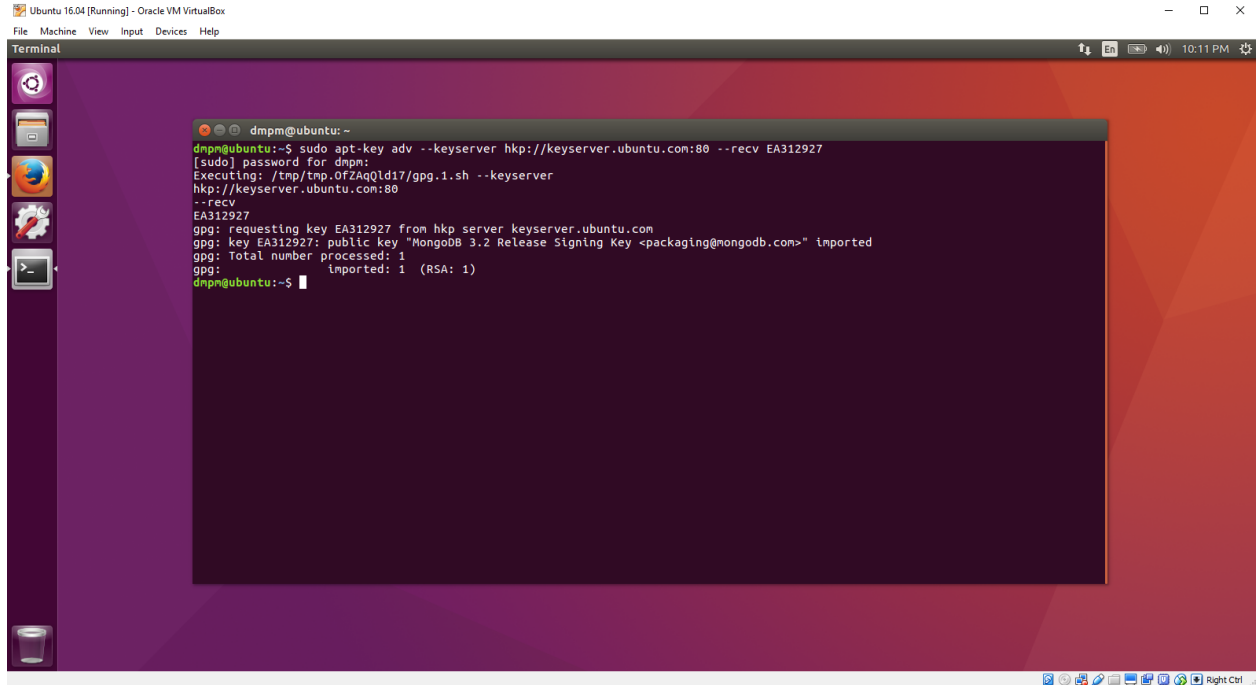


Data Science Academy

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Instalando o MongoDB no  
Linux Ubuntu 16.04

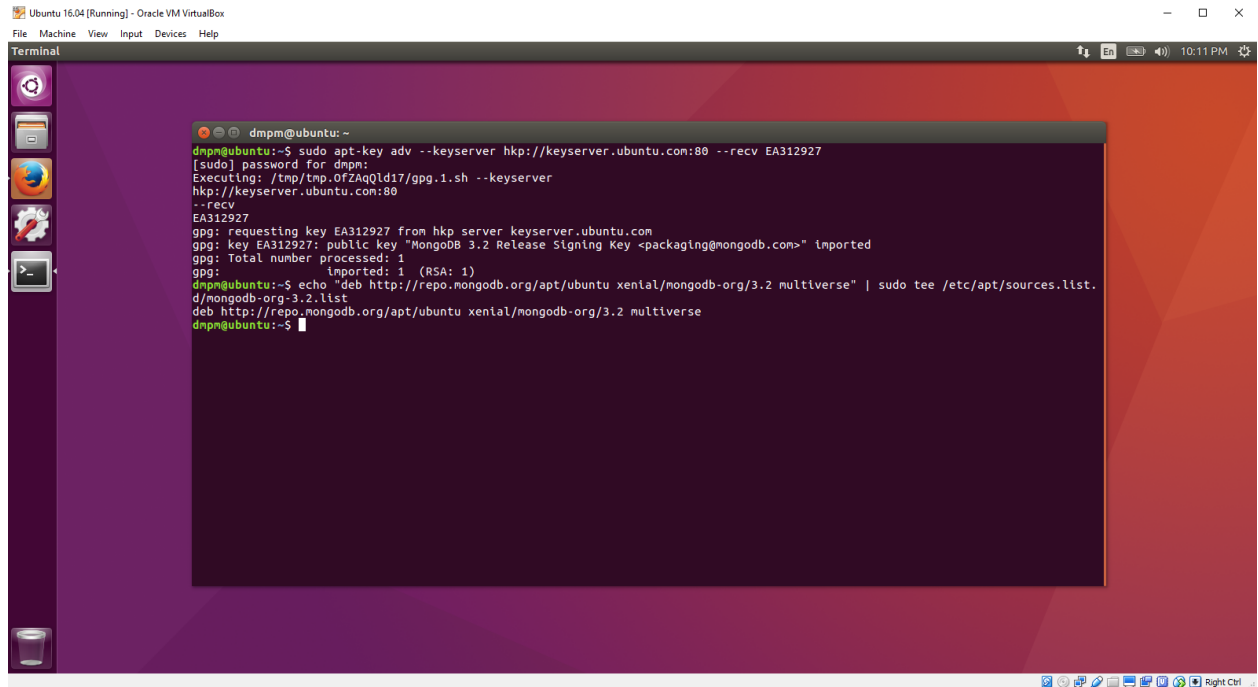
- 1- O MongoDB já está incluído nos repositórios de pacotes do Ubuntu, mas o repositório MongoDB oficial fornece a versão mais atualizada e é a maneira recomendada de instalar o software. Nesta etapa, adicionaremos este repositório oficial ao nosso servidor. O Ubuntu garante a autenticidade dos pacotes 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
10:11 PM

dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.0f2Aqld17/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:~$
```

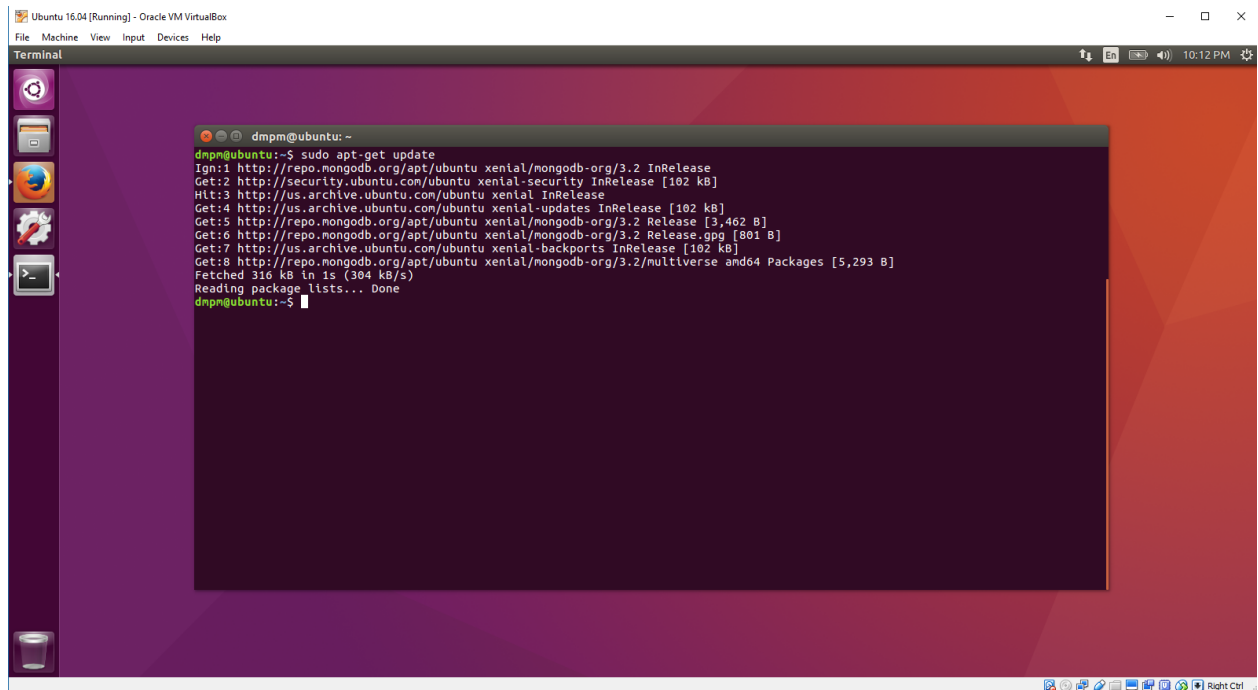
- 2- Chave adicionada com sucesso. Em seguida, temos que adicionar os detalhes do repositório do MongoDB, assim o apt saberá onde baixar os pacotes. Execute o seguinte comando para criar um arquivo de lista para o MongoDB.



```

dmpm@ubuntu:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
[sudo] password for dmpm:
Executing: /tmp/tmp.OFZAQld17/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 xenial/mongodb-org/3.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list
deb http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2 multiverse
dmpm@ubuntu:~$
  
```

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



```

dmpm@ubuntu:~$ sudo apt-get update
Ign:1 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2 InRelease
Get:2 http://security.ubuntu.com/ubuntu xenal-security InRelease [102 kB]
Hit:3 http://us.archive.ubuntu.com/ubuntu xenal InRelease
Get:4 http://us.archive.ubuntu.com/ubuntu xenal-updates InRelease [102 kB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2 Release [3,462 B]
Get:6 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2 Release.gpg [801 B]
Get:7 http://us.archive.ubuntu.com/ubuntu xenal-backports InRelease [102 kB]
Get:8 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 Packages [5,293 B]
Fetched 316 kB in 1s (304 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 xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenal/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

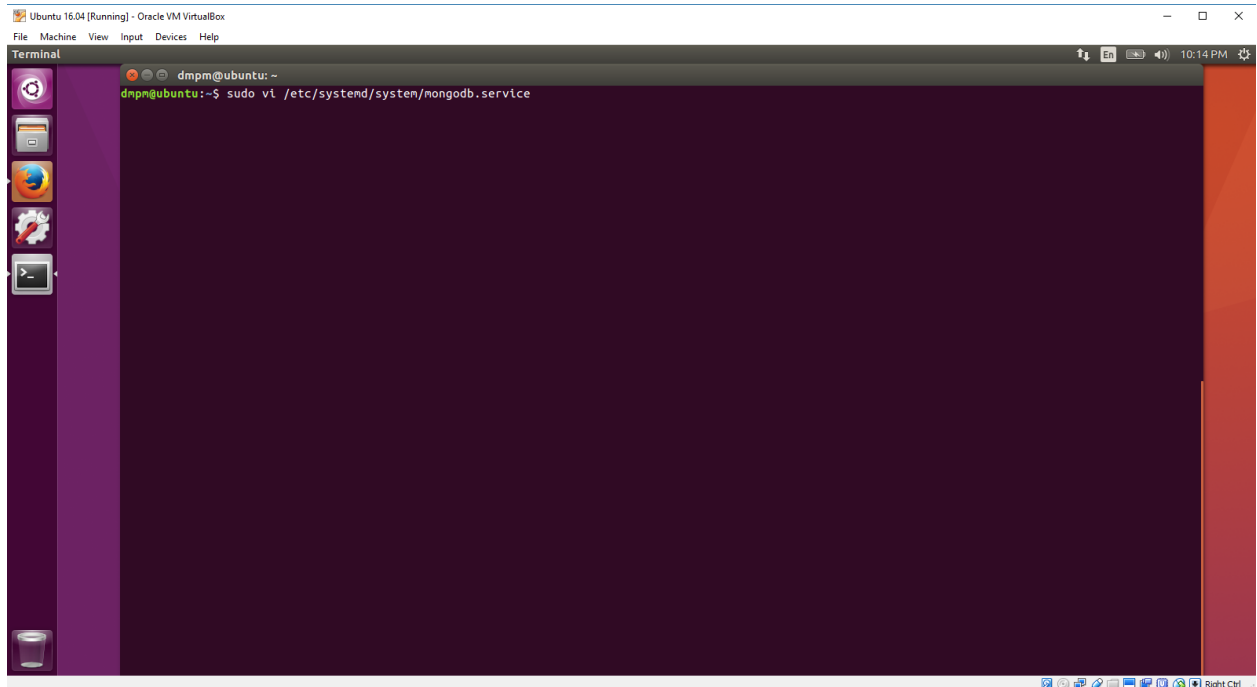
```

```

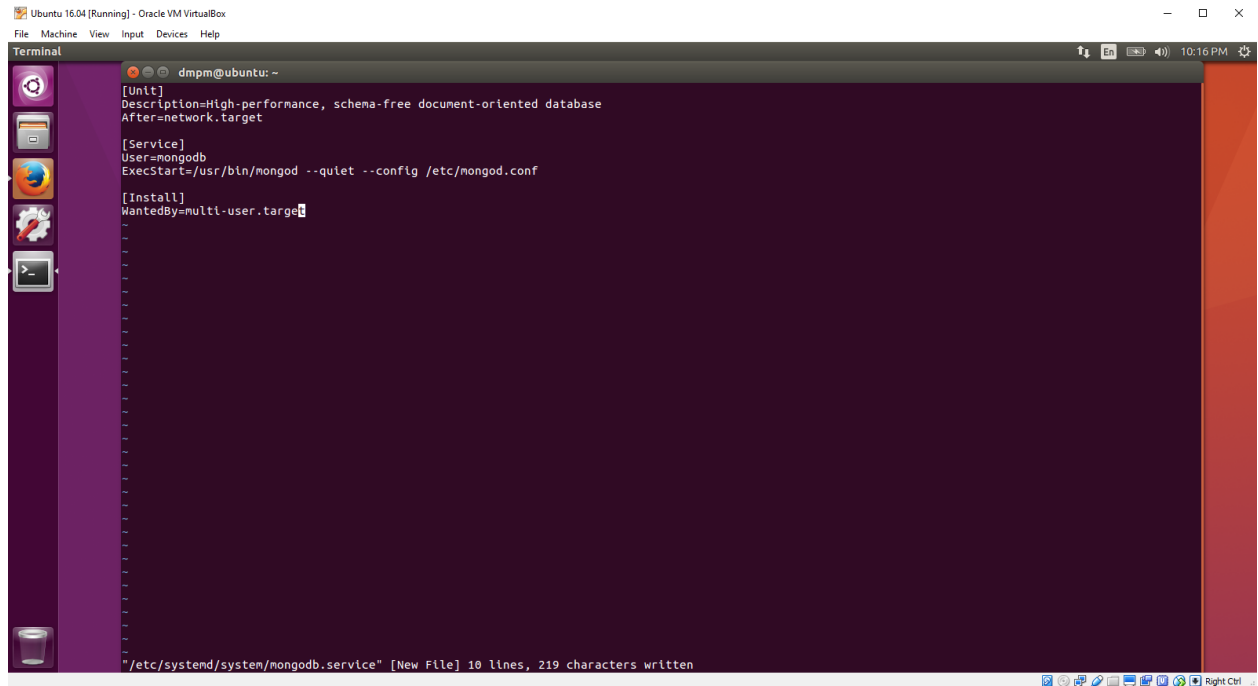
Ubuntu 16.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
dmpm@ubuntu:~$ sudo apt-get install -y mongodb-org
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will 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 xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.12 [5,254 kB]
Get:2 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.12 [9,964 kB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.12 [4,652 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenal/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.12 [31.7 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenal/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.



The screenshot shows a terminal window titled "Terminal" with the prompt "dmpm@ubuntu: ~". The terminal displays the following configuration for the MongoDB service file:

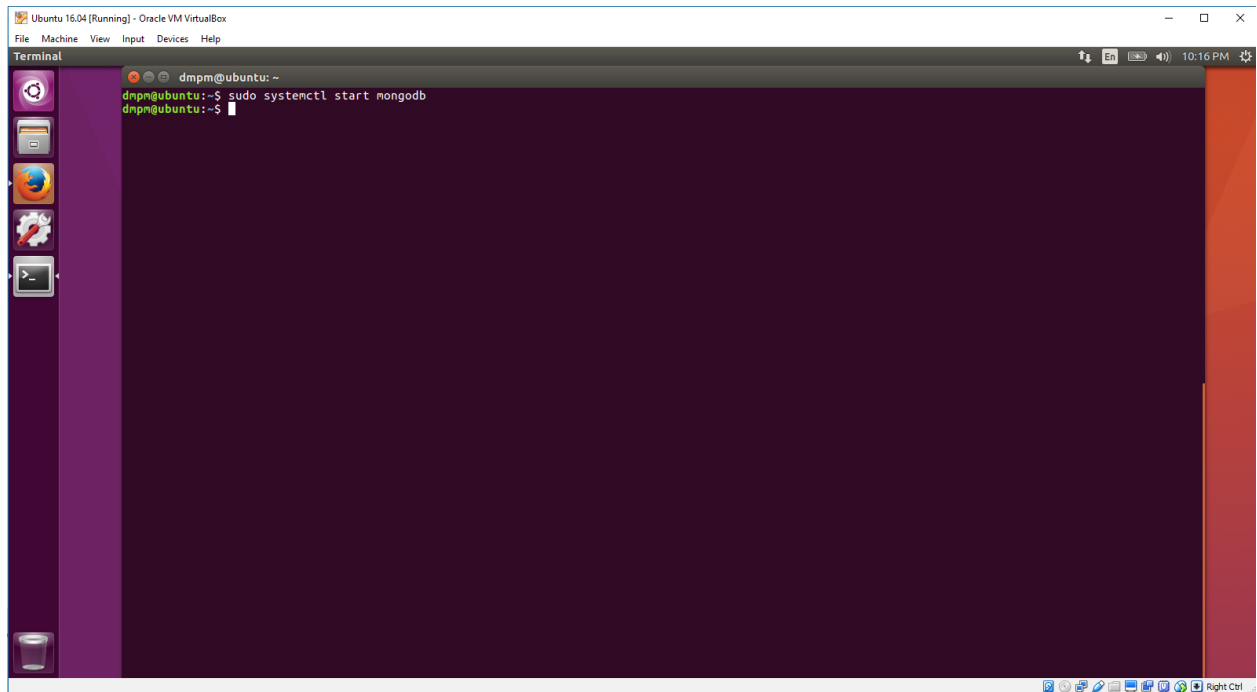
```
[Unit]
Description=High-performance, schema-free document-oriented database
After=network.target

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

[Install]
WantedBy=multi-user.target
```

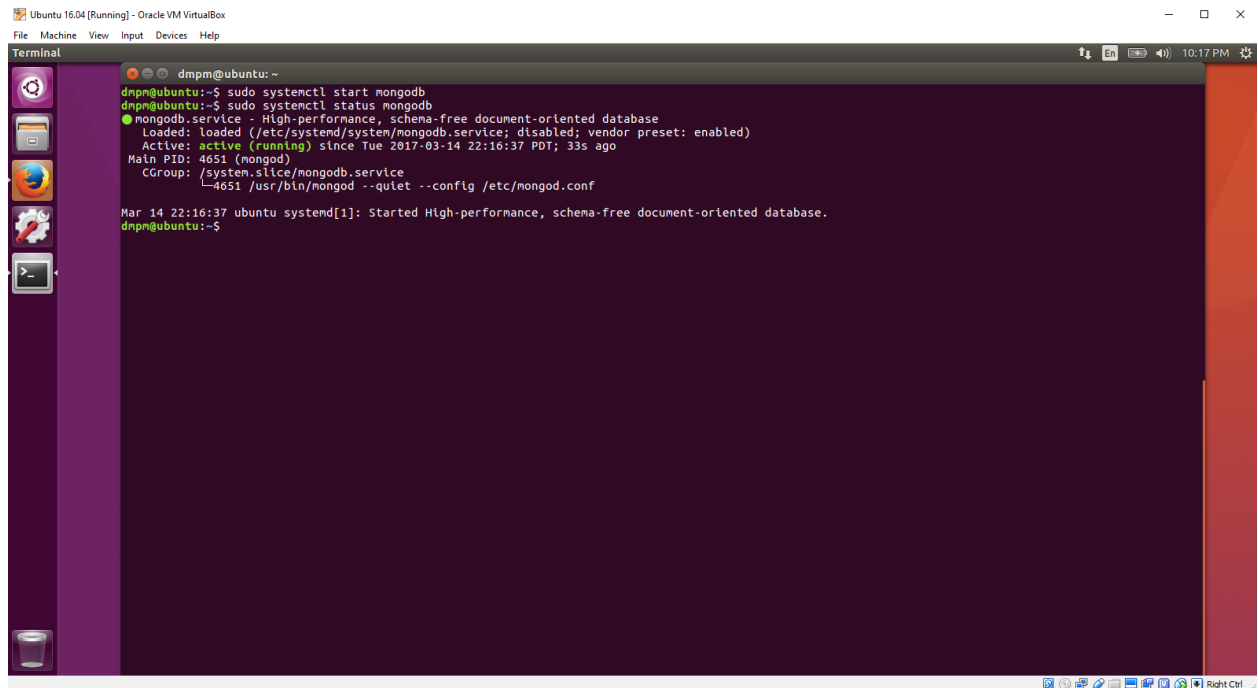
At the bottom of the terminal, a status message reads: "/etc/systemd/system/mongod.service" [New File] 10 lines, 219 characters written. The terminal window is part of an Oracle VM VirtualBox environment running Ubuntu 16.04.

## 7- Inicialize o serviço.





## 8- Verifique o status.

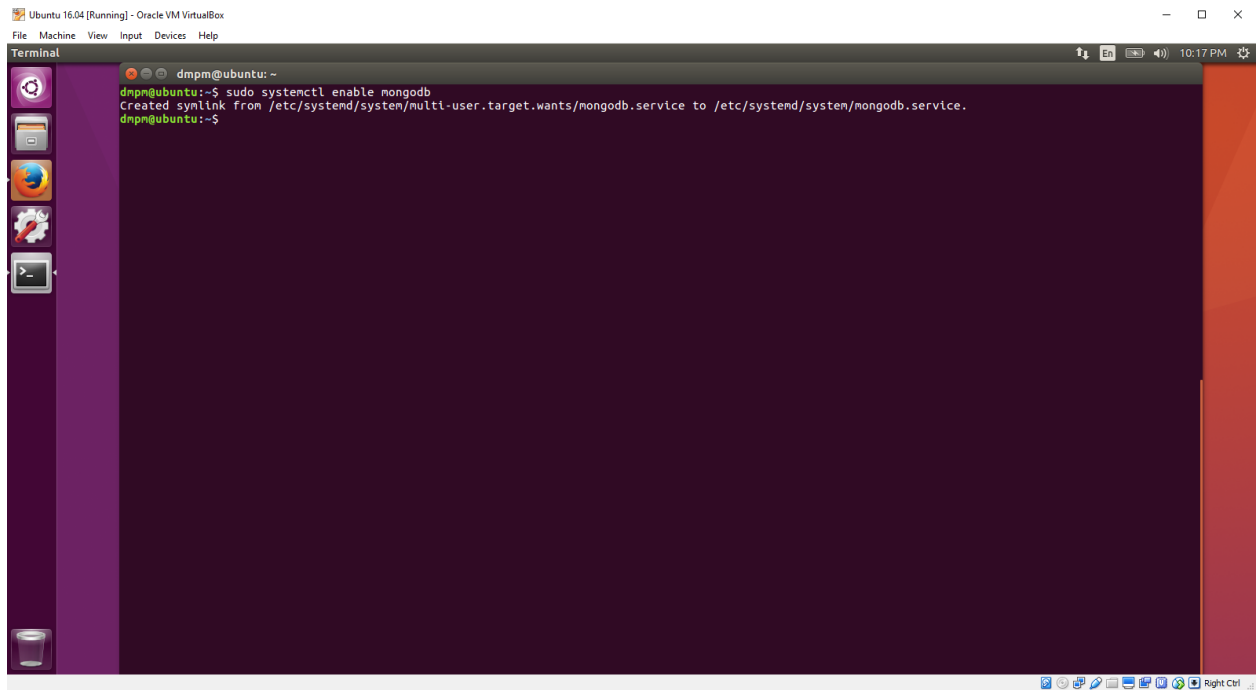


The screenshot shows a terminal window titled "Terminal" with the prompt "dmpm@ubuntu: ~". The user has executed the following commands and received the following output:

```
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:~$
```

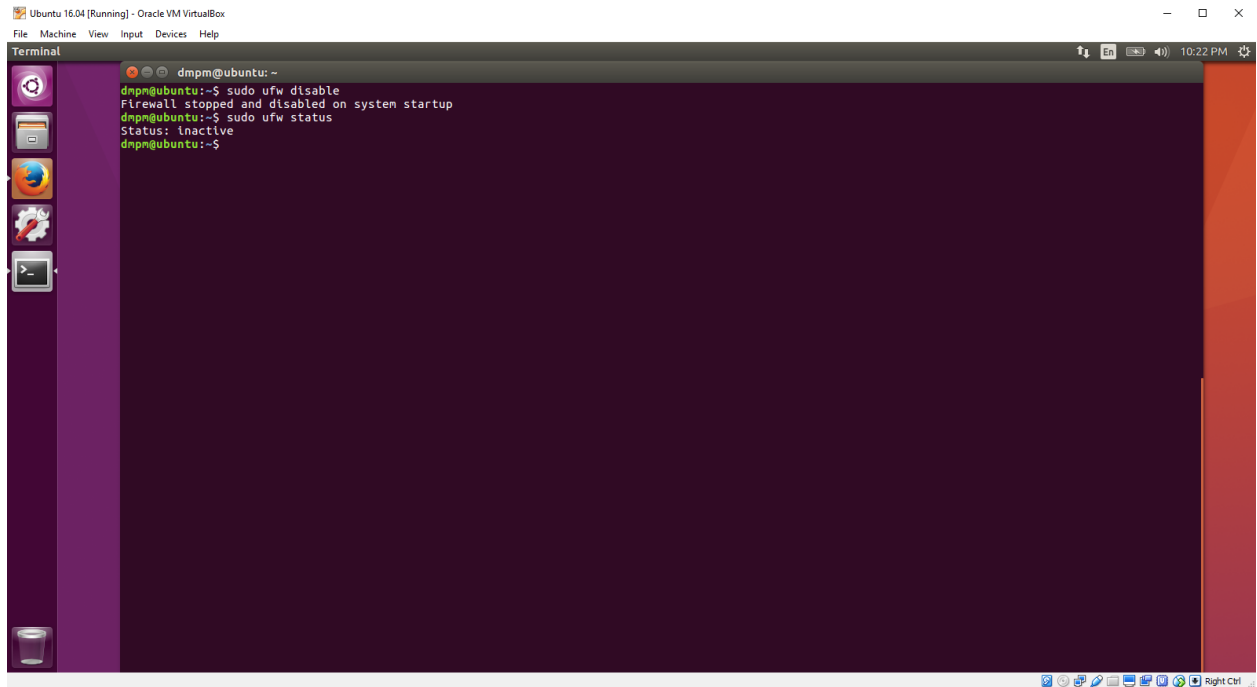
9- Habilite o serviço para ser inicializado automaticamente.



The screenshot shows a terminal window titled 'Terminal' within an 'Ubuntu 16.04 [Running] - Oracle VM VirtualBox' environment. The terminal prompt is 'dmpm@ubuntu: ~'. The user has entered the command 'sudo systemctl enable mongodb', and the system has responded with 'Created symlink from /etc/systemd/system/multi-user.target.wants/mongodb.service to /etc/systemd/system/mongodb.service.' The terminal window has a dark purple background and a light blue border. The top of the window shows the menu bar with 'File', 'Machine', 'View', 'Input', 'Devices', and 'Help'. The bottom of the window shows the system tray with various icons and the time '10:17 PM'.

```
dmpm@ubuntu: ~  
dmpm@ubuntu:~$ sudo systemctl enable mongodb  
Created symlink from /etc/systemd/system/multi-user.target.wants/mongodb.service to /etc/systemd/system/mongodb.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:~$ 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.