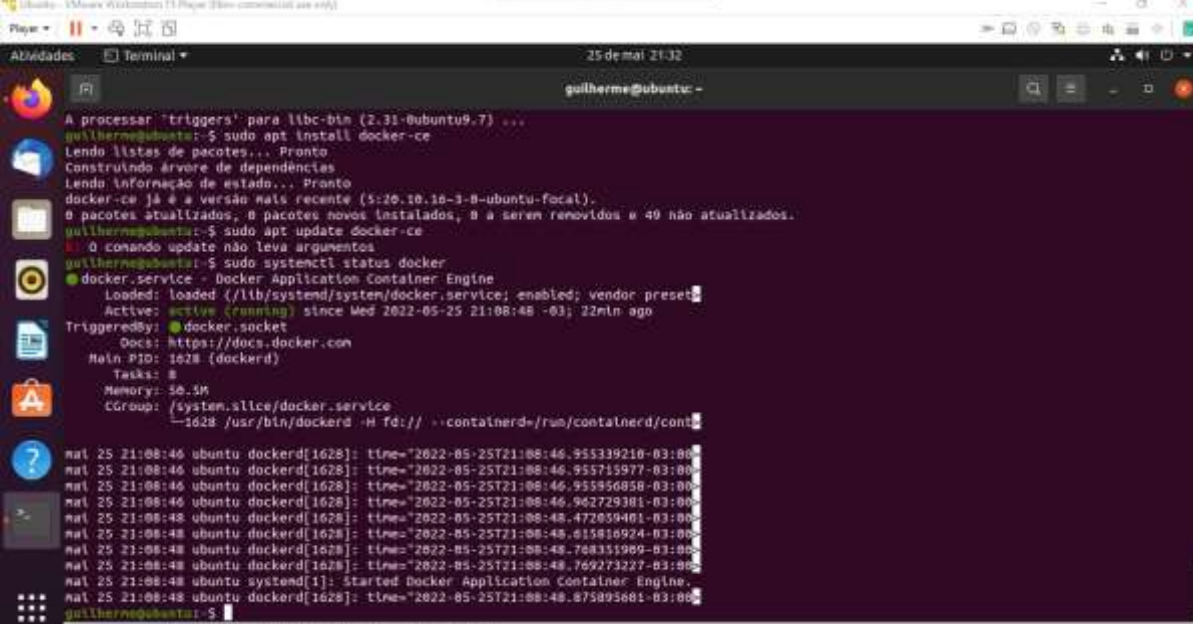


Avaliação 5 - SOR2

Guilherme Estevam de Castro e Rafael Alexandre Linhares

Instalando o Docker



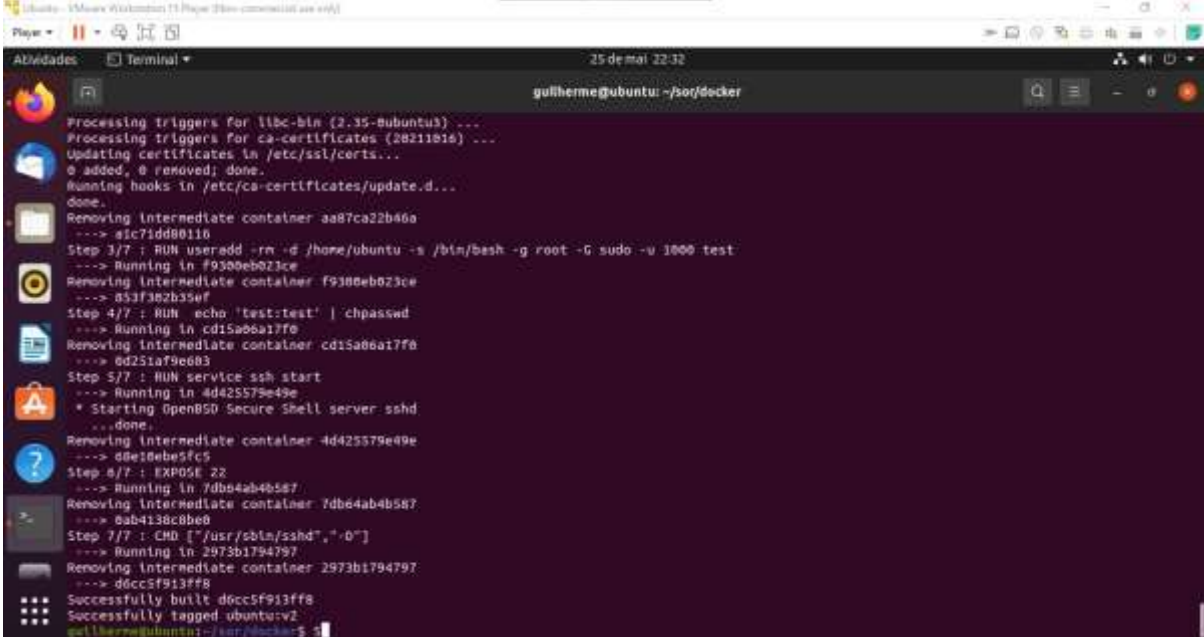
```
guilherme@ubuntu: ~$ sudo apt install docker-ce
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
docker-ce já é a versão mais recente (5:20.10.16-3-0-ubuntu-focal).
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem renovados e 49 não atualizados.
guilherme@ubuntu: ~$ sudo apt update docker-ce
E: O comando update não leva argumentos
guilherme@ubuntu: ~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset:
   Active: active (running) since Wed 2022-05-25 21:08:48 -03; 22min ago
   TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 1628 (dockerd)
   Tasks: 8
   Memory: 50.5M
   CGroup: /system.slice/docker.service
           └─1628 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont
   mai 25 21:08:46 ubuntu dockerd[1628]: time="2022-05-25T21:08:46.955319210-03:00"
   mai 25 21:08:46 ubuntu dockerd[1628]: time="2022-05-25T21:08:46.955715977-03:00"
   mai 25 21:08:46 ubuntu dockerd[1628]: time="2022-05-25T21:08:46.955956858-03:00"
   mai 25 21:08:46 ubuntu dockerd[1628]: time="2022-05-25T21:08:46.962729381-03:00"
   mai 25 21:08:48 ubuntu dockerd[1628]: time="2022-05-25T21:08:48.472859401-03:00"
   mai 25 21:08:48 ubuntu dockerd[1628]: time="2022-05-25T21:08:48.615816924-03:00"
   mai 25 21:08:48 ubuntu dockerd[1628]: time="2022-05-25T21:08:48.768351969-03:00"
   mai 25 21:08:48 ubuntu dockerd[1628]: time="2022-05-25T21:08:48.769273227-03:00"
   mai 25 21:08:48 ubuntu systemd[1]: Started Docker Application Container Engine.
   mai 25 21:08:48 ubuntu dockerd[1628]: time="2022-05-25T21:08:48.875895881-03:00"
guilherme@ubuntu: ~$
```



```
1 FROM ubuntu:latest
2
3 RUN apt update && apt install openssh-server sudo -y
4
5 RUN useradd -m -d /home/ubuntu -s /bin/bash -g root -G sudo -u 1000 test
6
7 RUN echo "test:test" | chpasswd
8
9 RUN service ssh start
10
11 EXPOSE 22
12
13 CMD ["usr/sbin/sshd", "-D"]
14
```

Criando o Dockerfile

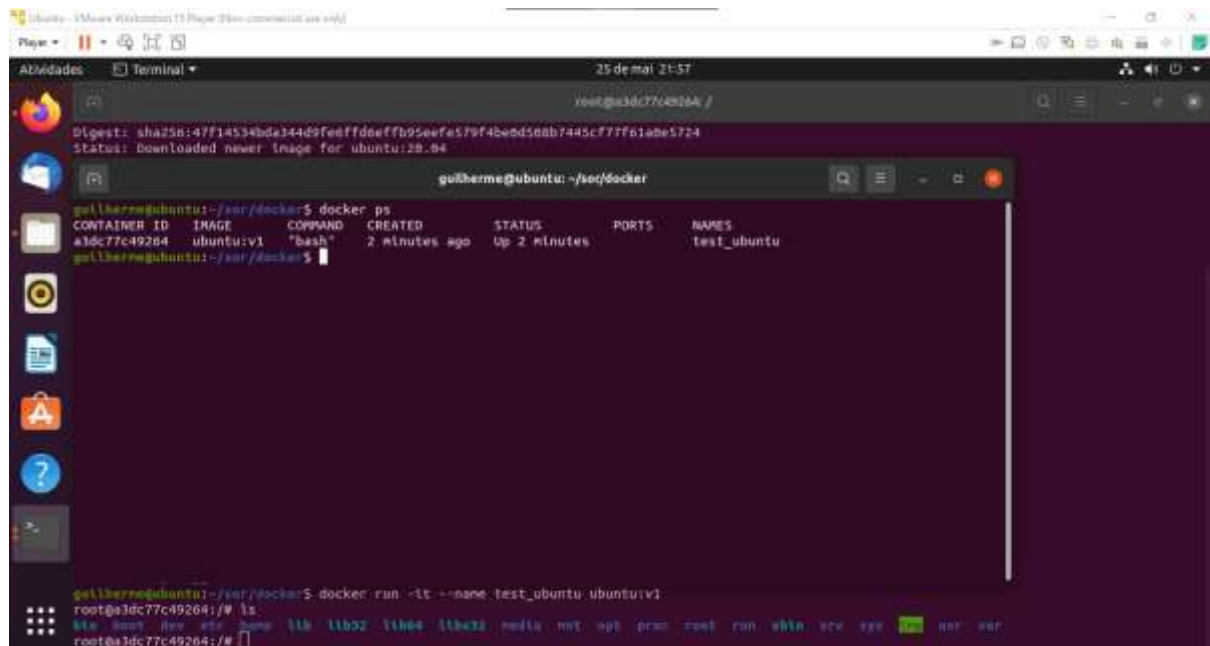
Buildando o container Ubuntu



The screenshot shows a terminal window titled "gullhermegubuntu: ~/src/docker" with a dark background. The terminal output displays the steps of a Docker build process. It starts with processing triggers for libc-bin and ca-certificates, then updates certificates. The build proceeds through several steps, including removing intermediate containers, running useradd, and setting up the SSH service. The final output indicates that the container was successfully built and tagged as "ubuntu:v2".

```
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Processing triggers for ca-certificates (20211016) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Removing intermediate container aa87ca22b46a
--> 41c7idd80116
Step 3/7 : RUN useradd -m -d /home/ubuntu -s /bin/bash -g root -G sudo -u 1000 test
--> Running in f9300eb023ce
Removing intermediate container f9300eb023ce
--> 853f3e2b35ef
Step 4/7 : RUN echo 'test:test' | chpasswd
--> Running in cd15a06a17f0
Removing intermediate container cd15a06a17f0
--> 0d251af9e683
Step 5/7 : RUN service ssh start
--> Running in 4d425579e49e
* Starting OpenSSH Secure Shell server sshd
   ...done.
Removing intermediate container 4d425579e49e
--> d0e10ebe5fcs
Step 6/7 : EXPOSE 22
--> Running in 7db64ab4b587
Removing intermediate container 7db64ab4b587
--> 0ab4130c0be0
Step 7/7 : CMD ["/usr/sbin/sshd", "-o"]
--> Running in 2973b1794797
Removing intermediate container 2973b1794797
--> d6cc5f913ff8
Successfully built d6cc5f913ff8
Successfully tagged ubuntu:v2
gullhermegubuntu:~/src/docker$
```

Container criado e acessando o container



The screenshot shows a terminal window with the following content:

```
Digest: sha256:47f14534bda344d9feff6effb95ee579f4be0d58b7445c777f61abe5724
Status: Downloaded newer image for ubuntu:20.04

guilherme@ubuntu: ~/src/docker

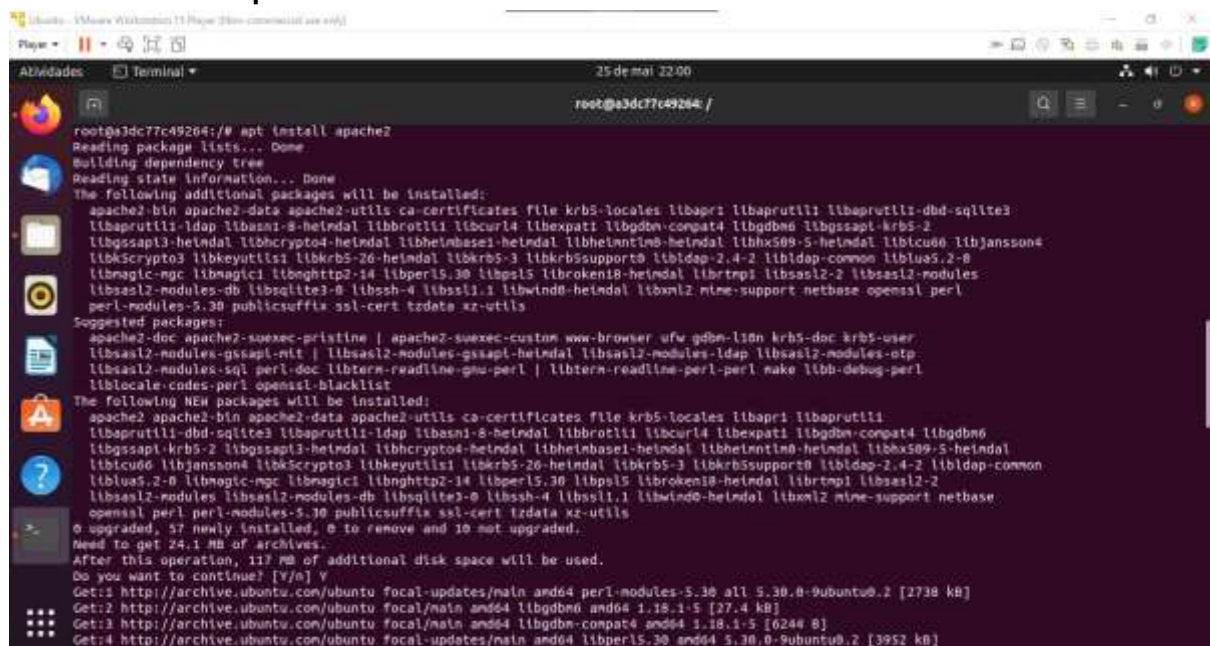
guilherme@ubuntu:~/src/docker$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
a1dc77c49264   ubuntu:v1 "bash"    2 minutes ago    Up 2 minutes    test_ubuntu

guilherme@ubuntu:~/src/docker$

guilherme@ubuntu:~/src/docker$ docker run -it --name test_ubuntu ubuntu:v1
root@a1dc77c49264:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbin  src  sys  usr  var

root@a1dc77c49264:/#
```

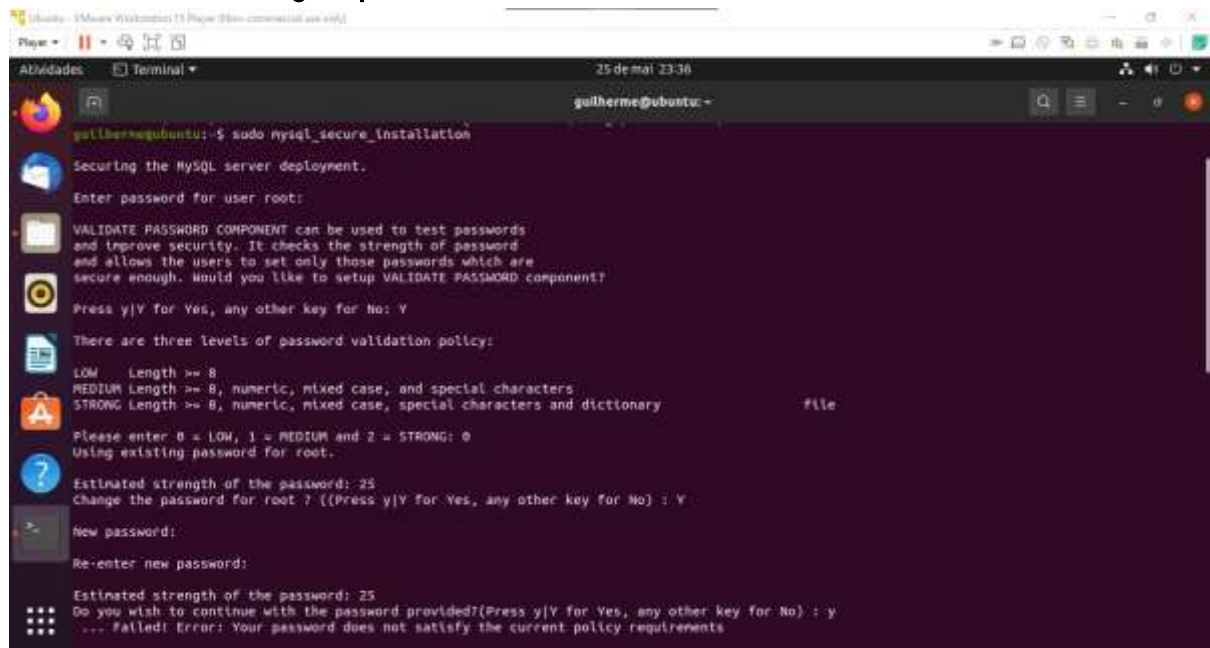
Instalando Apache2



The screenshot shows a terminal window with the following content:

```
root@a1dc77c49264:/# apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils ca-certificates file krb5-locales libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libasn1-8-heimdal libbrotli1 libcurl4 libexpat1 libgdbm-compat4 libgdbm6 libgssapi-krb5-2
  libgssapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal libicu66 libjansson4
  libk5crypto3 libkeyutils1 libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2 libldap-common liblua5.2-0
  libmagic-mgc libmagic1 libnghttp2-14 libperl5.30 libpsl5 libroken18-heimdal librtmp1 libsasl2-2 libsasl2-modules
  libsasl2-modules-db libsqlite3-0 libssh-4 libssl1.1 libwind0-heimdal libxml2 mime-support netbase openssl perl
  perl-modules-5.30 publicsuffix ssl-cert tzdata xz-utils
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw gdbm-l10n krb5-doc krb5-user
  libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2-modules-otp
  libsasl2-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libdb-dev-perl
  liblocale-codes-perl openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils ca-certificates file krb5-locales libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libasn1-8-heimdal libbrotli1 libcurl4 libexpat1 libgdbm-compat4 libgdbm6
  libgssapi-krb5-2 libgssapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal
  libicu66 libjansson4 libk5crypto3 libkeyutils1 libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2 libldap-common
  liblua5.2-0 libmagic-mgc libmagic1 libnghttp2-14 libperl5.30 libpsl5 libroken18-heimdal librtmp1 libsasl2-2
  libsasl2-modules libsasl2-modules-db libsqlite3-0 libssh-4 libssl1.1 libwind0-heimdal libxml2 mime-support netbase
  openssl perl perl-modules-5.30 publicsuffix ssl-cert tzdata xz-utils
0 upgraded, 37 newly installed, 0 to remove and 10 not upgraded.
Need to get 24.1 MB of archives.
After this operation, 117 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 perl-modules-5.30 all 5.30.0-9ubuntu0.2 [2738 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libgdbm6 amd64 1.18.1-5 [27.4 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal/main amd64 libgdbm-compat4 amd64 1.18.1-5 [6244 B]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libperl5.30 amd64 5.30.0-9ubuntu0.2 [3952 kB]
```

Instalando o MySQL



```
guilherme@ubuntu:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Enter password for user root:

VALIDATE PASSWORD COMPONENT can be used to test passwords
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: Y

There are three levels of password validation policy:

LOW      Length >= 8
MEDIUM  Length >= 8, numeric, mixed case, and special characters
STRONG Length >= 8, numeric, mixed case, special characters and dictionary

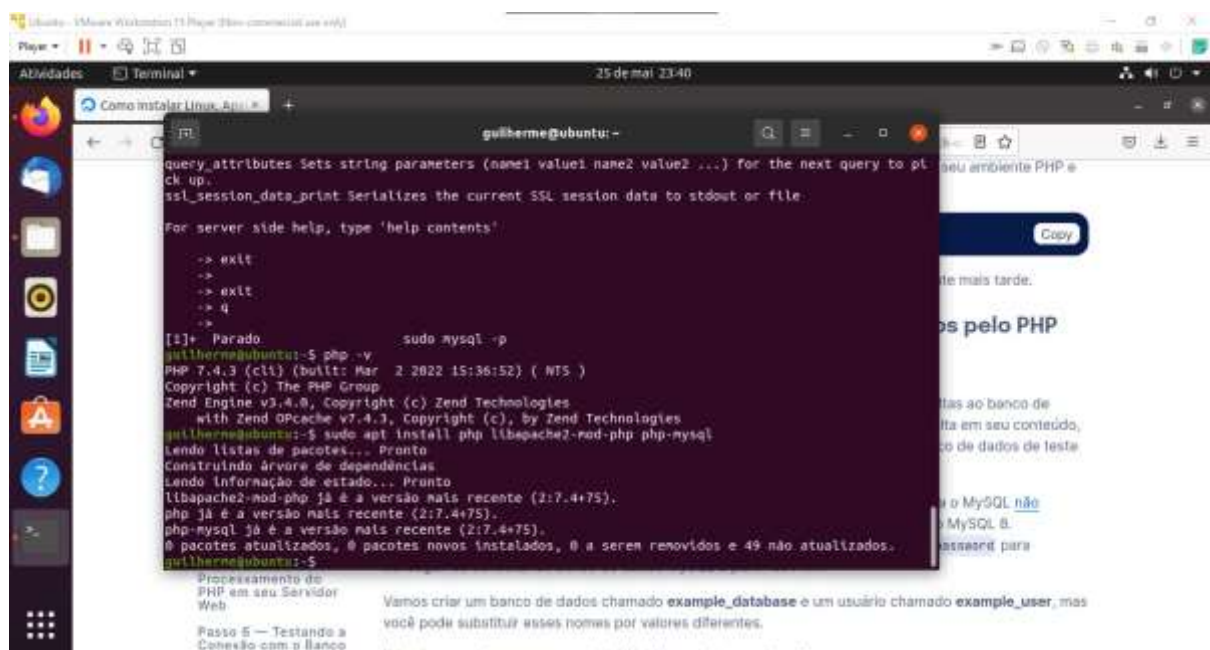
Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0
Using existing password for root.

Estimated strength of the password: 25
Change the password for root ? ((Press y|Y for Yes, any other key for No) : Y

New password:
Re-enter new password:

Estimated strength of the password: 25
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
... Failed! Error: Your password does not satisfy the current policy requirements
```

Instalando o PHP



```
guilherme@ubuntu:~$ sudo apt install php libapache2-mod-php php-mysql

Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
libapache2-mod-php já é a versão mais recente (2:7.4+75).
php já é a versão mais recente (2:7.4+75).
php-mysql já é a versão mais recente (2:7.4+75).
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 49 não atualizados.
guilherme@ubuntu:~$
```

Processamento de
PHP em seu Servidor
Web

Vamos criar um banco de dados chamado **example_database** e um usuário chamado **example_user**, mas
você pode substituir esses nomes por valores diferentes.

Passo 5 — Testando a
Conexão com o Banco

phpMyAdmin

