

Avaliação 5 - SOR2

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Instalando o Docker

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
Player
Atividades Terminal 25 de mai 21:32
guilherme@ubuntu: ~
A processar 'triggers' para libc-bin (2.31-0ubuntu9.7) ...
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 removidos 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: enabled)
   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/containerd.sock

mai 25 21:08:46 ubuntu dockerd[1628]: time="2022-05-25T21:08:46.955339210-03:00"
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="2022-05-25T21:08:48.472059401-03:00"
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="2022-05-25T21:08:48.768351909-03:00"
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="2022-05-25T21:08:48.875895601-03:00"
guilherme@ubuntu:~$
```

Criando o Dockerfile

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
Player
Atividades Editor de texto 25 de mai 22:31
* Dockerfile
~/sor/docker
Salvar
1 FROM ubuntu:latest
2
3 RUN apt update && apt install openssh-server sudo -y
4
5 RUN useradd -rm -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
```

Buildando o container Ubuntu

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
25 de mai 22:32
guilherme@ubuntu: ~/sor/docker

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
--> a1c71dd80116
Step 3/7 : RUN useradd -rm -d /home/ubuntu -s /bin/bash -g root -G sudo -u 1000 test
--> Running in f9300eb023ce
Removing intermediate container f9300eb023ce
--> 853f302b35ef
Step 4/7 : RUN echo 'test:test' | chpasswd
--> Running in cd15a06a17f0
Removing intermediate container cd15a06a17f0
--> 0d251af9e603
Step 5/7 : RUN service ssh start
--> Running in 4d425579e49e
* Starting OpenSSH Secure Shell server sshd
...done.
Removing intermediate container 4d425579e49e
--> 68e10ebe5fc5
Step 6/7 : EXPOSE 22
--> Running in 7db64ab4b587
Removing intermediate container 7db64ab4b587
--> 0ab4138c8be0
Step 7/7 : CMD ["/usr/sbin/sshd","-D"]
--> Running in 2973b1794797
Removing intermediate container 2973b1794797
--> d6cc5f913ff8
Successfully built d6cc5f913ff8
Successfully tagged ubuntu:v2
guilherme@ubuntu:~/sor/docker$
```

Container criado e acessando o container

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
25 de mai 21:57
root@a3dc77c49264: /

Digest: sha256:47f14534bda344d9fe6ffd6effb95eefe579f4be0d508b7445cf77f61a0e5724
Status: Downloaded newer image for ubuntu:20.04

guilherme@ubuntu: ~/sor/docker

guilherme@ubuntu:~/sor/docker$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
a3dc77c49264   ubuntu:v1 "bash"    2 minutes ago    Up 2 minutes    test_ubuntu

guilherme@ubuntu:~/sor/docker$

guilherme@ubuntu:~/sor/docker$ docker run -it --name test_ubuntu ubuntu:v1
root@a3dc77c49264:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
root@a3dc77c49264:/#
```

Instalando Apache2

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
25 de mai 22:00
root@a3dc77c49264: /
root@a3dc77c49264:/# 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
  libgssapi-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 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 libb-debug-perl
  liblocale-codes-perl openssl-blacklist
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 libb-debug-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 libgssapi-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 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 libb-debug-perl
  liblocale-codes-perl openssl-blacklist
0 upgraded, 57 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

```
Ubuntu - VMware Workstation 15 Player (Non-commercial use only)
25 de mai 23:36
guilherme@ubuntu: ~
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
```

```

guilherme@ubuntu: ~
query_attributes Sets string parameters (name1 value1 name2 value2 ...) for the next query to pi
ck up.
ssl_session_data_print Serializes the current SSL session data to stdout or file

For server side help, type 'help contents'

-> exit
->
-> exit
-> q
->

[1]+  Parado                               sudo mysql -p
guilherme@ubuntu:~$ php -v
PHP 7.4.3 (cli) (built: Mar  2 2022 15:36:52) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
    with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
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:~$
  
```

The screenshot displays the phpMyAdmin web interface. The top navigation bar includes links for Databases, SQL, Status, User accounts, Export, Import, Settings, Binary log, and More. The left sidebar shows a tree view of the database structure, including information_schema, mysql, performance_schema, phpmyadmin, and sys. The main content area is divided into several sections:

- General settings:** Includes a "Change password" link and a "Server connection collation" dropdown set to "utf8mb4_unicode_ci".
- Appearance settings:** Includes a "Language" dropdown set to "English", a "Theme" dropdown set to "pmahomme", and a "Font size" dropdown set to "82%". A "More settings" link is also present.
- Database server:** Lists server configuration details:
 - Server: Localhost via UNIX socket
 - Server type: MySQL
 - Server connection: SSL is not being used
 - Server version: 8.0.19-0ubuntu5 - (Ubuntu)
 - Protocol version: 10
 - User: sammy@localhost
 - Server charset: UTF-8 Unicode (utf8mb4)
- Web server:** Lists web server configuration details:
 - Apache/2.4.41 (Ubuntu)
 - Database client version: libmysql - mysqlnd 7.4.3
 - PHP extension: mysqli, curl, mbstring
 - PHP version: 7.4.3
- phpMyAdmin:** Lists phpMyAdmin configuration details:
 - Version information: 4.9.5deb2
 - Documentation
 - Official Homepage
 - Contribute
 - Get support
 - List of changes