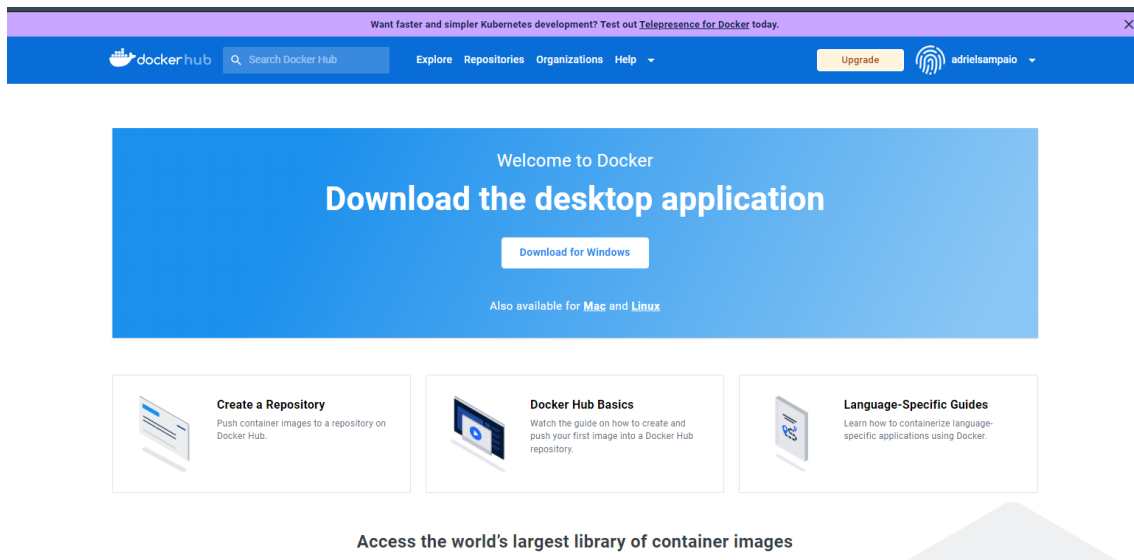ATIVIDADE 09 E 10 – S.O PARA REDES

1. CRIAR CONTA NO DOCKER HUB

2. Instalando pacotes para liberar o uso do HTTPs via o comando apt:

3. Adicionando a chave GPG para o repositório oficial do Docker no seu sistema


```
adriel@adriel-virtualbox: ~                          ×
A descompactar curl (7.81.0-1ubuntu1.10) ...
A preparar para desempacotar .../3-software-properties-common_0.99.22.6_all.d
eb ...
A descompactar software-properties-common (0.99.22.6) sobre (0.99.22.5) ...
A preparar para desempacotar .../4-software-properties-qt_0.99.22.6_all.deb .
..
A descompactar software-properties-qt (0.99.22.6) sobre (0.99.22.5) ...
A preparar para desempacotar .../5-python3-software-properties_0.99.22.6_all.
deb ...
A descompactar python3-software-properties (0.99.22.6) sobre (0.99.22.5) ...
Configurando apt-transport-https (2.4.9) ...
Configurando python3-software-properties (0.99.22.6) ...
Configurando libcurl4:amd64 (7.81.0-1ubuntu1.10) ...
Configurando curl (7.81.0-1ubuntu1.10) ...
Configurando software-properties-common (0.99.22.6) ...
Configurando software-properties-qt (0.99.22.6) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
A processar 'triggers' para man-db (2.10.2-1) ...
A processar 'triggers' para dbus (1.12.20-2ubuntu4.1) ...
A processar 'triggers' para mailcap (3.70+nmu1ubuntu1) ...
A processar 'triggers' para desktop-file-utils (0.26-1ubuntu3) ...
adriel@adriel-virtualbox:~$   curl -fsSL https://download.docker.com/l
inux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead
 (see apt-key(8)).
OK
adriel@adriel-virtualbox:~$
```

4. Adicionando o repositório do Docker às fontes do APT:


```
Arquivo   Ações   Editar   Exibir   Ajuda
          adriel@adriel-virtualbox: ~                          ×
OK
adriel@adriel-virtualbox:~$     sudo add-apt-repository "deb [arch=amd64
] https://download.docker.com/linux/ubuntu focal stable"
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu focal
stable'
Description:
Archive for codename: focal components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker
_com_linux_ubuntu-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_do
wnload_docker_com_linux_ubuntu-jammy.list
Atingido:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Obter:2 https://download.docker.com/linux/ubuntu focal InRelease [57,7 kB]
Atingido:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Atingido:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Atingido:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
Obter:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
[28,0 kB]
Baixados 85,6 kB em 1s (131 kB/s)
Lendo listas de pacotes... Pronto
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is sto
red in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION
 section in apt-key(8) for details.
adriel@adriel-virtualbox:~$
```

5. Certifique-se de que você está prestes a instalar do repositório do Docker ao invés do repositório padrão do Ubuntu

6. Instalando o Docker:

7. Verificando se ele está funcionando:

```
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.servic
e → /lib/systemd/system/containerd.service.
Configurando docker-compose-plugin (2.17.3-1~ubuntu.20.04~focal) ...
Configurando docker-ce-cli (5:23.0.5-1~ubuntu.20.04~focal) ...
Configurando libslirp0:amd64 (4.6.1-1build1) ...
Configurando pigz (2.6-1) ...
Configurando docker-ce-rootless-extras (5:23.0.5-1~ubuntu.20.04~focal) ...
Configurando slirp4netns (1.0.1-2) ...
Configurando docker-ce (5:23.0.5-1~ubuntu.20.04~focal) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service →
/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib
/systemd/system/docker.socket.
A processar 'triggers' para man-db (2.10.2-1) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
adriel@adriel-virtualbox:~$        sudo systemctl status docker
● docker.service - Docker Application Container Engine
     Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor pre>
     Active: active (running) since Fri 2023-05-05 19:42:40 -03; 1min 10s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 7207 (dockerd)
      Tasks: 8
     Memory: 26.8M
        CPU: 228ms
     CGroup: /system.slice/docker.service
             └─7207 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/c>

mai 05 19:42:40 lucas-vmwarevirtualplatform systemd[1]: Starting Docker Appl>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
mai 05 19:42:40 lucas-vmwarevirtualplatform systemd[1]: Started Docker Appli>
mai 05 19:42:40 lucas-vmwarevirtualplatform dockerd[7207]: time="2023-05-05T>
lines 1-21/21 (END)
```

08. Verificando se pode acessar e baixar imagens do Docker Hub

```
lines 1-21/21 (END)
adriel@adriel-virtualbox:~$ docker run hello-world
docker: permission denied while trying to connect to the Docker daemon socket
 at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.2
4/containers/create": dial unix /var/run/docker.sock: connect: permission den
ied.
See 'docker run --help'.
adriel@adriel-virtualbox:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:9eabfcf6034695c4f6208296be9090b0a3487e20fb6a5cb0565252242621cf7
3d
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent i
t
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```

09. baixar a imagem oficial ubuntu no seu computador

```
ubuntu/mysql              MySQL open source fast, stable, multi-thread
    46
ubuntu/kafka              Apache Kafka, a distributed event streaming
    30
ubuntu/bind9              BIND 9 is a very flexible, full-featured DNS
    51
ubuntu/redis              Redis, an open source key-value store. Long-
    18
ubuntu/prometheus         Prometheus is a systems and service monitori
    40
ubuntu/postgres           PostgreSQL is an open source object-relation
    27
ubuntu/zookeeper          ZooKeeper maintains configuration informatio
    5
ubuntu/grafana            Grafana, a feature rich metrics dashboard &
    9
ubuntu/memcached          Memcached, in-memory keyvalue store for smal
    5
ubuntu/prometheus-alertmanager   Alertmanager handles client alerts from Prom
    8
ubuntu/dotnet-deps        Chiselled Ubuntu for self-contained .NET & A
    8
ubuntu/dotnet-runtime     Chiselled Ubuntu runtime image for .NET apps
    5
ubuntu/dotnet-aspnet      Chiselled Ubuntu runtime image for ASP.NET a
    6
ubuntu/cassandra          Cassandra, an open source NoSQL distributed
    2
ubuntu/telegraf           Telegraf collects, processes, aggregates & w
    4
adriel@adriel-virtualbox:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
dbf6a9befcde: Pull complete
```

10. Login no Docker Hub

```
adriel@adriel-virtualbox:~$ sudo docker login -u adrielsampaio
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
adriel@adriel-virtualbox:~$
```