ATIVIDADE SOR2:

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- INSTALANDO DOCKER:

- SUDO APT UPDATE

```
joaopedro@DESKTOP-F8DLV22:~$ sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
```

- INSTALANDO PACOTES NECESSÁRIOS

```
joaopedro@DESKTOP-F8DLV22:~$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
ca-certificates is already the newest version (20211016~20.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.68.0-1ubuntu2.14).
curl set to manually installed.
software-properties-common is already the newest version (0.99.9.8).
software-properties-common set to manually installed.
The following packages were automatically installed and are no longer required:
  libfwupdplugin1 libxmlb1
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 1704 B of archives.
After this operation, 162 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 apt-transport-https all 2.0.9 [1704 B]
Fetched 1704 B in 1s (2495 B/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 32649 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.0.9_all.deb ...
Unpacking apt-transport-https (2.0.9) ...
Setting up apt-transport-https (2.0.9) ...
joaopedro@DESKTOP-F8DLV22:~$
```

- GPG

```
joaopedro@DESKTOP-F8DLV22:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
joaopedro@DESKTOP-F8DLV22:~$
```

- REPOSITÓRIO DOCKER

```
joaopedro@DESKTOP-F8DLV22:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal st
able"
Hit:1 https://download.docker.com/linux/ubuntu focal InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Get:3 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [20.8 kB]
Hit:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:6 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Fetched 135 kB in 1s (140 kB/s)
Reading package lists... Done
W: Skipping acquire of configured file 'steble/binary-amd64/Packages' as repository 'https://download.docker.com/linux/u
buntu focal InRelease' doesn't have the component 'steble' (component misspelt in sources.list?)
W: Skipping acquire of configured file 'steble/i18n/Translation-en' as repository 'https://download.docker.com/linux/ubu
ntu focal InRelease' doesn't have the component 'steble' (component misspelt in sources.list?)
W: Skipping acquire of configured file 'steble/cnf/Commands-amd64' as repository 'https://download.docker.com/linux/ubun
tu focal InRelease' doesn't have the component 'steble' (component misspelt in sources.list?)
joaopedro@DESKTOP-F8DLV22:~$
```

- VERIFICANDO INSTALAÇÃO

```
joaopedro@DESKTOP-F8DLV22:~$ apt-cache policy docker-ce
docker-ce:
  Installed: (none)
  Candidate: 5:20.10.21~3-0~ubuntu-focal
  Version table:
     5:20.10.21~3-0~ubuntu-focal 500
        500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
     5:20.10.20~3-0~ubuntu-focal 500
```

- INSTALANDO DOCKER

```
joaopedro@DESKTOP-F8DLV22:~$ sudo apt install docker-ce
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfwupdplugin1 libxmlb1
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  containerd.io docker-ce-cli docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns
0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.
Need to get 102 MB of archives.
After this operation, 383 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.6.9-1 [27.7 MB]
Get:2 http://archive.ubuntu.com/ubuntu focal/universe amd64 pigz amd64 2.4-1 [57.4 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal/universe amd64 slirp4netns amd64 0.4.3-1 [74.3 kB]
Get:4 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.21~3-0~ubuntu-focal [41.5
MB]
Get:5 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.21~3-0~ubuntu-focal [20.5 MB]
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-rootless-extras amd64 5:20.10.21~3-0~ubuntu-
focal [8394 kB]
Get:7 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-scan-plugin amd64 0.21.0~ubuntu-focal [3622 kB]
Fetched 102 MB in 6s (18.2 MB/s)
Selecting previously unselected package pigz.
(Reading database ... 32653 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.4-1_amd64.deb ...
```

- INICIANDO O DOCKER

-

```
joaopedro@DESKTOP-F8DLV22:~$ sudo service docker start
 * Starting Docker: docker
joaopedro@DESKTOP-F8DLV22:~$ sudo service docker status
 * Docker is running
joaopedro@DESKTOP-F8DLV22:~$
```

EXECUTANDO O COMANDO DOCKER SEM SUDO:

- MODIFICANDO E VERIFICANDO

```
joaopedro@DESKTOP-F8DLV22:~$ sudo usermod -aG docker ${USER}
joaopedro@DESKTOP-F8DLV22:~$ su - ${USER}
Password:
joaopedro@DESKTOP-F8DLV22:~$ groups
joaopedro adm dialout cdrom floppy sudo audio dip video plugdev netdev docker
joaopedro@DESKTOP-F8DLV22:~$
```

- USANDO O COMANDO DOCKER:

```
joaopedro@DESKTOP-F8DLV22:~$ docker

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
      --config string      Location of client config files (default "/home/joaopedro/.docker")
  -c, --context string     Name of the context to use to connect to the daemon (overrides DOCKER_HOST env var and
                           default context set with "docker context use")
  -D, --debug              Enable debug mode
  -H, --host list          Daemon socket(s) to connect to
  -l, --log-level string   Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
      --tls                Use TLS; implied by --tlsverify
      --tlscacert string   Trust certs signed only by this CA (default "/home/joaopedro/.docker/ca.pem")
      --tlscert string     Path to TLS certificate file (default "/home/joaopedro/.docker/cert.pem")
      --tlskey string      Path to TLS key file (default "/home/joaopedro/.docker/key.pem")
      --tlsverify          Use TLS and verify the remote
  -v, --version            Print version information and quit

Management Commands:
  app*        Docker App (Docker Inc., v0.9.1-beta3)
  builder     Manage builds
  buildx*     Docker Buildx (Docker Inc., v0.9.1-docker)
  config      Manage Docker configs
  container   Manage containers
  context     Manage contexts
  image       Manage images
  manifest    Manage Docker image manifests and manifest lists
  network     Manage networks
```

- EXIBINDO HELLO WORLD

```
joaopedro@DESKTOP-F8DLV22:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fccceeec2398ec8a5759259f94d99078f264e9d7af
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 it
    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/

joaopedro@DESKTOP-F8DLV22:~$
```