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Informática - SOR2 - Taveira

Etapa 1 - Instalação do Docker

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Terminal - abraaorodrigues@abraaorodrigues:~  
Arquivo Editar Ver Terminal Abas Ajuda  
abraaorodrigues@abraaorodrigues:~$ sudo apt update  
[sudo] senha para abraaorodrigues:  
Atingido:1 https://download.docker.com/linux/ubuntu focal InRelease  
Atingido:2 http://br.archive.ubuntu.com/ubuntu jammy InRelease  
Atingido:3 http://br.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Atingido:4 http://br.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Atingido:5 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências... Pronto  
Lendo informação de estado... Pronto  
4 pacotes podem ser atualizados. Corra 'apt list --upgradable' para vê-los.  
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
abraaorodrigues@abraaorodrigues:~$ sudo apt install apt-transport-https ca-certificates curl software-properties-common  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências... Pronto  
Lendo informação de estado... Pronto  
ca-certificates já é a versão mais recente (20211016ubuntu0.22.04.1).  
curl já é a versão mais recente (7.81.0-1ubuntu1.10).  
software-properties-common já é a versão mais recente (0.99.22.6).  
apt-transport-https já é a versão mais recente (2.4.9).  
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 4 não atualizados.  
abraaorodrigues@abraaorodrigues:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).  
OK  
abraaorodrigues@abraaorodrigues:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"  
Repositório: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable'  
Descrição:  
Archive for codename: focal components: stable  
Mais informação: https://download.docker.com/linux/ubuntu  
A adicionar repositório.  
Prima [ENTER] para continuar ou Ctrl-C para cancelar.  
Found existing deb entry in /etc/apt/sources.list.d/archive uri=https download.docker.com linux ubuntu-jammy.list  
Adding deb entry to /etc/apt/sources.list.d/archive uri=https download.docker.com linux ubuntu-jammy.list  
Found existing deb-src entry in /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 download.docker.com linux ubuntu-jammy.list  
Atingido:1 https://download.docker.com/linux/ubuntu focal InRelease  
Atingido:2 http://br.archive.ubuntu.com/ubuntu jammy InRelease  
Atingido:3 http://br.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Atingido:4 http://br.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Atingido:5 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Lendo listas de pacotes... Pronto  
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
abraaorodrigues@abraaorodrigues:~$
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Arquivo Editar Ver Terminal Abas Ajuda  
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
abraaorodrigues@abraaorodrigues:~$ sudo apt update  
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Atingido:4 http://br.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Atingido:5 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências... Pronto  
Lendo informação de estado... Pronto  
4 pacotes podem ser atualizados. Corra 'apt list --upgradable' para vê-los.  
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
abraaorodrigues@abraaorodrigues:~$ apt-cache policy docker-ce  
docker-ce:  
  Instalado: 5:23.0.6-1-ubuntu.20.04-focal  
  Candidato: 5:23.0.6-1-ubuntu.20.04-focal  
Tabela de versão:  
*** 5:23.0.6-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
    100 /var/lib/dpkg/status  
5:23.0.5-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:23.0.4-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:23.0.3-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:23.0.2-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:23.0.1-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:23.0.0-1-ubuntu.20.04-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.24-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.23-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.22-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
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  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.19-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.18-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.17-3-0-ubuntu-focal 500  
    500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages  
5:20.10.16-3-0-ubuntu-focal 500
```

```
Terminal - abraaorodrigues@abraaorodrigues: ~
Arquivo Editar Ver Terminal Abas Ajuda
abraaorodrigues@abraaorodrigues:~$ sudo apt install docker-ce
Lendo listas de pacotes... Pronto
Construindo árvore de dependências... Pronto
Lendo informação de estado... Pronto
docker-ce já é a versão mais recente (5:23.0.6-1-ubuntu.20.04-focal).
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 4 não atualizados.
abraaorodrigues@abraaorodrigues:~$ 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 Thu 2023-05-11 09:55:16 -03; 25min ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 3938 (dockerd)
      Tasks: 7
     Memory: 26.4M
        CPU: 349ms
    CGroup: /system.slice/docker.service
            └─3938 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

mai 11 09:55:15 abraaorodrigues systemd[1]: Starting Docker Application Container Engine...
mai 11 09:55:15 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:15.999564431-03:00" level=info msg="Starting up"
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.000708916-03:00" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved"
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.195054376-03:00" level=info msg="Loading containers: start."
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.574163173-03:00" level=info msg="Loading containers: done."
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.643202312-03:00" level=info msg="Docker daemon" commit=9dbdbd4 graphdriver=overlay2 version=23.0.6
mai 11 09:55:16 abraaorodrigues systemd[1]: Started Docker Application Container Engine.
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.686880046-03:00" level=info msg="API listen on /run/docker.sock"
lines 1-21/21 (END)
```

```
Terminal - abraaorodrigues@abraaorodrigues: ~
Arquivo Editar Ver Terminal Abas Ajuda
abraaorodrigues@abraaorodrigues:~$ sudo usermod -aG docker $(USER)
[sudo] senha para abraaorodrigues:
abraaorodrigues@abraaorodrigues:~$ su - $(USER)
Senha:
abraaorodrigues@abraaorodrigues:~$ id -nG
abraaorodrigues adm cdrom sudo dip plugdev lpadmin lxd sambashare docker
abraaorodrigues@abraaorodrigues:~$ docker

Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Common Commands:
run          Create and run a new container from an image
exec         Execute a command in a running container
ps           List containers
build        Build an image from a Dockerfile
pull         Download an image from a registry
push         Upload an image to a registry
images       List images
login        Log in to a registry
logout       Log out from a registry
search       Search Docker Hub for images
version      Show the Docker version information
info         Display system-wide information

Management Commands:
builder      Manage builds
buildx*      Docker Buildx (Docker Inc., v0.10.4)
compose*     Docker Compose (Docker Inc., v2.17.3)
container    Manage containers
context       Manage contexts
image        Manage images
manifest     Manage Docker image manifests and manifest lists
network      Manage networks
plugin       Manage plugins
system       Manage Docker
trust        Manage trust on Docker images
volume       Manage volumes

Swarm Commands:
swarm        Manage Swarm

Commands:
attach       Attach local standard input, output, and error streams to a running container
commit       Create a new image from a container's changes
cp           Copy files/folders between a container and the local filesystem
create       Create a new container
diff         Inspect changes to files or directories on a container's filesystem
events       Get real time events from the server
export       Export a container's filesystem as a tar archive
history      Show the history of an image
import       Import the contents from a tarball to create a filesystem image
inspect      Return low-level information on Docker objects
```

```
Terminal - abraaorodrigues@abraaorodrigues: ~
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abraaorodrigues@abraaorodrigues:~$ docker docker-subcommand --help
Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Common Commands:
run          Create and run a new container from an image
exec        Execute a command in a running container
ps          List containers
build       Build an image from a Dockerfile
pull       Download an image from a registry
push       Upload an image to a registry
images     List images
login      Log in to a registry
logout     Log out from a registry
search     Search Docker Hub for images
version    Show the Docker version information
info      Display system-wide information

Management Commands:
builder    Manage builds
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Swarm Commands:
swarm      Manage Swarm

Commands:
attach     Attach local standard input, output, and error streams to a running container
commit     Create a new image from a container's changes
cp         Copy files/folders between a container and the local filesystem
create     Create a new container
diff       Inspect changes to files or directories on a container's filesystem
events     Get real time events from the server
export     Export a container's filesystem as a tar archive
history    Show the history of an image
import     Import the contents from a tarball to create a filesystem image
inspect    Return low-level information on Docker objects
kill       Kill one or more running containers
load       Load an image from a tar archive or STDIN
logs       Fetch the logs of a container
pause      Pause all processes within one or more containers
port       List port mappings or a specific mapping for the container
rename     Rename a container
```

```
Terminal - abraaorodrigues@abraaorodrigues: ~
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abraaorodrigues@abraaorodrigues:~$ docker info
Client:
Context:    default
Debug Mode: false
Plugins:
  buildx: Docker Buildx (Docker Inc.)
    Version:  v0.10.4
    Path:     /usr/libexec/docker/cli-plugins/docker-buildx
  compose: Docker Compose (Docker Inc.)
    Version:  v2.17.3
    Path:     /usr/libexec/docker/cli-plugins/docker-compose
Server:
Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
Images: 0
Server Version: 23.0.6
Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
  Using metacopy: false
  Native Overlay Diff: true
  userxattr: false
Logging Driver: json-file
Cgroup Driver: systemd
Cgroup Version: 2
Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
Swarm: inactive
Runtimes: io.containerd.runc.v2 runc
Default Runtime: runc
Init Binary: docker-init
containerd version: 3dce8eb055cbb6872793272b4f20ed16117344f8
runc version: v1.1.7-0-g860f061
init version: de40ad0
Security Options:
  apparmor
  seccomp
  Profile: builtin
  cgroupns
Kernel Version: 5.19.0-41-generic
Operating System: Ubuntu 22.04.2 LTS
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 1.929GiB
Name: abraaorodrigues
ID: bc8aa188-df97-45e6-a738-693ab4bd612a
Docker Root Dir: /var/lib/docker
Debug Mode: false
```