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Informática - SOR2 - Taveira

Etapa 1 - Instalação do Docker

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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-resolve
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 versi
mai 11 09:55:16 abraaorodrigues dockerd[3938]: time="2023-05-11T09:55:16.643644960-03:00" level=info msg="Daemon has completed initialization"
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)
```

```
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
```

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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
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Management Commands:
  builder   Manage builds
  buildx*   Docker Buildx (Docker Inc., v0.10.4)
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  container Manage containers
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  image   Manage images
  manifest   Manage Docker image manifests and manifest lists
  network   Manage networks
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  attach   Attach local standard input, output, and error streams to a running container
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  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

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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
```