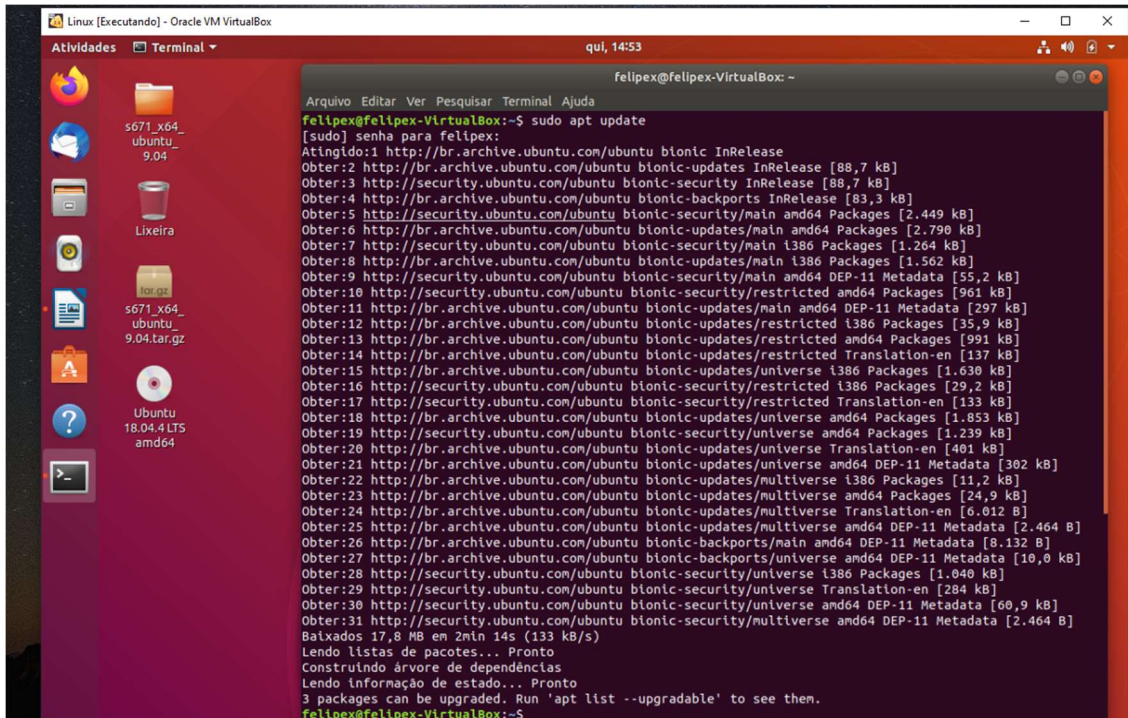


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Professor: Ricardo Duarte Taveira
Avaliação 7 – Docker

Instalação Docker

sudo apt update

A screenshot of a Linux terminal window titled "Linux [Executando] - Oracle VM VirtualBox". The terminal shows the command "sudo apt update" being executed. The output lists various Ubuntu repositories and the packages they contain, including bionic, bionic-security, and bionic-backports. It also shows the total size of the updates (17.8 MB) and the time taken (2 minutes and 14 seconds). The terminal prompt is "felipex@felipex-VirtualBox:~\$".

```
felipex@felipex-VirtualBox:~$ sudo apt update
[sudo] senha para felipex:
Atingido:1 http://br.archive.ubuntu.com/ubuntu bionic InRelease [88,7 kB]
Obter:2 http://br.archive.ubuntu.com/ubuntu bionic-updates InRelease [88,7 kB]
Obter:3 http://security.ubuntu.com/ubuntu bionic-security InRelease [88,7 kB]
Obter:4 http://br.archive.ubuntu.com/ubuntu bionic-backports InRelease [83,3 kB]
Obter:5 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2.449 kB]
Obter:6 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [2.790 kB]
Obter:7 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [1.264 kB]
Obter:8 http://br.archive.ubuntu.com/ubuntu bionic-updates/main i386 Packages [1.562 kB]
Obter:9 http://security.ubuntu.com/ubuntu bionic-security/main amd64 DEP-11 Metadata [55,2 kB]
Obter:10 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [961 kB]
Obter:11 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 DEP-11 Metadata [297 kB]
Obter:12 http://br.archive.ubuntu.com/ubuntu bionic-updates/restricted i386 Packages [35,9 kB]
Obter:13 http://br.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [991 kB]
Obter:14 http://br.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [137 kB]
Obter:15 http://br.archive.ubuntu.com/ubuntu bionic-updates/universe i386 Packages [1.630 kB]
Obter:16 http://security.ubuntu.com/ubuntu bionic-security/restricted i386 Packages [29,2 kB]
Obter:17 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [133 kB]
Obter:18 http://br.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1.853 kB]
Obter:19 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1.239 kB]
Obter:20 http://br.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [401 kB]
Obter:21 http://br.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 DEP-11 Metadata [302 kB]
Obter:22 http://br.archive.ubuntu.com/ubuntu bionic-updates/multiverse i386 Packages [11,2 kB]
Obter:23 http://br.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [24,9 kB]
Obter:24 http://br.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [6.012 B]
Obter:25 http://br.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 DEP-11 Metadata [2.464 B]
Obter:26 http://br.archive.ubuntu.com/ubuntu bionic-backports/main amd64 DEP-11 Metadata [8.132 B]
Obter:27 http://br.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 DEP-11 Metadata [10,0 kB]
Obter:28 http://security.ubuntu.com/ubuntu bionic-security/universe i386 Packages [1.040 kB]
Obter:29 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [284 kB]
Obter:30 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 DEP-11 Metadata [60,9 kB]
Obter:31 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 DEP-11 Metadata [2.464 B]
Baixados 17,8 MB em 2min 14s (133 kB/s)
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
felipex@felipex-VirtualBox:~$
```

sudo apt install apt-transport-https ca-certificates curl software-properties-common

```
felipex@felipex-VirtualBox:~$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
ca-certificates is already the newest version (20211016-18.04.1).
ca-certificates configurado para instalar manualmente.
software-properties-common is already the newest version (0.96.24.32.18).
software-properties-common configurado para instalar manualmente.
Os seguintes pacotes foram instalados automaticamente e já não são necessários:
  efibootmgr libegl1-mesa libfhwup1 libllvm9 libwayland-egl1-mesa
Utilize 'sudo apt autoremove' para os remover.
The following additional packages will be installed:
  libcurl4
Os NOVOS pacotes a seguir serão instalados:
  apt-transport-https curl libcurl4
0 pacotes atualizados, 3 pacotes novos instalados, 0 a serem removidos e 3 não atualizados.
É preciso baixar 383 kB de arquivos.
Depois desta operação, 1.206 kB adicionais de espaço em disco serão usados.
Você quer continuar? [S/n] s
Obter:1 http://br.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 apt-transport-https all 1.6.14
[4.348 B]
Obter:2 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd64 7.58.0-2ubuntu3.21
[220 kB]
Obter:3 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 curl amd64 7.58.0-2ubuntu3.21 [159
kB]
Baixados 383 kB em 3s (153 kB/s)
A seleccionar pacote anteriormente não seleccionado apt-transport-https.
(Lendo banco de dados ... 173248 ficheiros e directórios actualmente instalados.)
A preparar para descompactar .../apt-transport-https_1.6.14_all.deb ...
A descompactar apt-transport-https (1.6.14) ...
A seleccionar pacote anteriormente não seleccionado libcurl4:amd64.
A preparar para descompactar .../libcurl4_7.58.0-2ubuntu3.21_amd64.deb ...
A descompactar libcurl4:amd64 (7.58.0-2ubuntu3.21) ...
A seleccionar pacote anteriormente não seleccionado curl.
A preparar para descompactar .../curl_7.58.0-2ubuntu3.21_amd64.deb ...
A descompactar curl (7.58.0-2ubuntu3.21) ...
Configurando apt-transport-https (1.6.14) ...
Configurando libcurl4:amd64 (7.58.0-2ubuntu3.21) ...
Configurando curl (7.58.0-2ubuntu3.21) ...
A processar 'triggers' para man-db (2.8.3-2ubuntu0.1) ...
A processar 'triggers' para libc-bin (2.27-3ubuntu1.6) ...
felipex@felipex-VirtualBox:~$
```


curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

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

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"

```
felipex@felipex-VirtualBox:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
Atingido:1 http://br.archive.ubuntu.com/ubuntu bionic InRelease
Obter:2 https://download.docker.com/linux/ubuntu focal InRelease [57,7 kB]
Atingido:3 http://br.archive.ubuntu.com/ubuntu bionic-updates InRelease
Atingido:4 http://br.archive.ubuntu.com/ubuntu bionic-backports InRelease
Obter:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88,7 kB]
Obter:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [20,8 kB]
Obter:7 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [1.264 kB]
Obter:8 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2.449 kB]
Obter:9 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1.239 kB]
Obter:10 http://security.ubuntu.com/ubuntu bionic-security/universe i386 Packages [1.040 kB]
Baixados 6.158 kB em 10s (610 kB/s)
Lendo listas de pacotes... Pronto
felipex@felipex-VirtualBox:~$
```

apt-cache policy docker-ce

```
felipex@felipex-VirtualBox: ~
Arquivo Editar Ver Pesquisar Terminal Ajuda
felipex@felipex-VirtualBox:~$ apt-cache policy docker-ce
docker-ce:
  Instalado: (nenhum)
  Candidato: 5:20.10.21~3-0~ubuntu-focal
  Tabela de versão:
    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
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.15~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.14~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.13~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.12~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.11~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.10~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.9~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.8~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.7~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.6~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.5~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.4~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.3~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.2~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.1~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:20.10.0~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
    5:19.03.15~3-0~ubuntu-focal 500
```

sudo apt install docker-ce

```
felipex@felipex-VirtualBox: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
felipex@felipex-VirtualBox:~$ sudo apt install docker-ce  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
Os seguintes pacotes foram instalados automaticamente e já não são necessários:  
  efibootmgr libegl1-mesa libfwup1 libllvm9 libwayland-egl1-mesa  
Utilize 'sudo apt autoremove' para os remover.  
The following additional packages will be installed:  
  containerd.io docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl  
  pigz  
Pacotes sugeridos:  
  aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc git-el  
  git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn  
Pacotes recomendados:  
  slirp4netns  
Os NOVOS pacotes a seguir serão instalados:  
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man  
  liberror-perl pigz  
0 pacotes atualizados, 9 pacotes novos instalados, 0 a serem removidos e 9 não atualizados.  
É preciso baixar 107 MB de arquivos.  
Depois desta operação, 417 MB adicionais de espaço em disco serão usados.  
Você quer continuar? [S/n] s  
Obter:1 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.6.9-1 [27,7 MB  
]  
Obter:2 http://br.archive.ubuntu.com/ubuntu bionic/universe amd64 pigz amd64 2.4-1 [57,4 kB]  
Obter:3 http://br.archive.ubuntu.com/ubuntu bionic/main amd64 liberror-perl all 0.17025-1 [22,8 kB]  
Obter:4 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git-man all 1:2.17.1-1ubuntu0.13 [805 kB]  
Obter:5 http://br.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git amd64 1:2.17.1-1ubuntu0.13 [3.923 kB]  
Obter:6 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.21~3-0~ubuntu-focal [41,5 MB]  
Obter:7 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.21~3-0~ubuntu-focal [20,5 MB]  
Obter:8 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-rootless-extras amd64 5:20.10.21~3-0~ubuntu-focal [8.394 kB]  
Obter:9 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-scan-plugin amd64 0.21.0~ubuntu-focal [3.622 kB]  
Baixados 107 MB em 4min 10s (427 kB/s)  
A seleccionar pacote anteriormente não seleccionado pigz.  
(Lendo banco de dados ... 173265 ficheiros e directórios actualmente instalados.)  
A preparar para desempacotar .../0-pigz_2.4-1_amd64.deb ...  
A descompactar pigz (2.4-1) ...  
A seleccionar pacote anteriormente não seleccionado containerd.io.  
A preparar para desempacotar .../1-containerd.io_1.6.9-1_amd64.deb ...  
A descompactar containerd.io (1.6.9-1) ...  
A seleccionar pacote anteriormente não seleccionado docker-ce-cli.  
A preparar para desempacotar .../2-docker-ce-cli_5%3a20.10.21~3-0~ubuntu-focal_amd64.deb ...  
A descompactar docker-ce-cli (5:20.10.21~3-0~ubuntu-focal) ...  
A seleccionar pacote anteriormente não seleccionado docker-ce.
```



```
sudo systemctl status docker
```

```

felipe@felipe-VirtualBox: ~
Arquivo Editar Ver Pesquisar Terminal Ajuda
felipe@felipe-VirtualBox:~$ 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 2022-11-10 15:17:37 -03; 1min 37s ago
     Docs: https://docs.docker.com
    Main PID: 3847 (dockerd)
      Tasks: 8
     CGroup: /system.slice/docker.service
             └─3847 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907289388-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907383427-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907406663-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907762062-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.110472021-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.308895796-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.412500823-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.414827600-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox systemd[1]: Started Docker Application Container Engine.
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.531489889-03:00" level=info
...skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-11-10 15:17:37 -03; 1min 37s ago
     Docs: https://docs.docker.com
    Main PID: 3847 (dockerd)
      Tasks: 8
     CGroup: /system.slice/docker.service
             └─3847 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907289388-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907383427-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907406663-03:00" level=warni
nov 10 15:17:36 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:36.907762062-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.110472021-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.308895796-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.412500823-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.414827600-03:00" level=info
nov 10 15:17:37 felipe-VirtualBox systemd[1]: Started Docker Application Container Engine.
nov 10 15:17:37 felipe-VirtualBox dockerd[3847]: time="2022-11-10T15:17:37.531489889-03:00" level=info
~
~
~
~
~
~
~

```