# Semana\_1b

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# Capítulo 1

Comando: Is

# Comando: cp

```
Terminal -lucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ cp -R texto.txt

cp: missing destination file operand after 'texto.txt'

Try 'cp --help' for more information.

lucas@lucas-VirtualBox:~/Documents$ cp -R texto.txt texto_copia.txt

lucas@lucas-VirtualBox:~/Documents$ ls

texto_copia.txt texto.txt

lucas@lucas-VirtualBox:~/Documents$
```

### Comandos: cd e clear

```
Terminal - Jucas@Jucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ cd ..

lucas@lucas-VirtualBox:~$ ls

Desktop Documents Downloads Music Pictures Public Templates Videos

lucas@lucas-VirtualBox:~$ cd Do

Documents/ Downloads/
lucas@lucas-VirtualBox:~$ cd Documents/

lucas@lucas-VirtualBox:~/Documents$ clear
```

Comando: pwd

### Comando: echo

O comando echo é utilizado para imprimir variáveis de ambiente ou textos no terminal.

```
Terminal - lucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ echo $SHELL
/bin/bash
lucas@lucas-VirtualBox:~/Documents$
```

## Comando: cat

O comando cat é utilizado para concatenar arquivos, ou entrada padrão, e imprimir o resultado na saída padrão, sendo, muitas vezes utilizado para ler conteúdos de arquivos, visualizando-os no terminal

# Comando: history

O comando history pode ser executado para listar o histórico de comandos utilizados no Terminal.

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ history
   1 cd /media/lucas/VBox GAs 6.1.34/
   2 sudo ./VBoxLinuxAdditions.run
   3 sudo reboot
   4 login
   5 clear
  10 ls
  11 clear
  12 cd ~
  13 ls -IF
  14 ls
  15 clear
  16 ls
  17 cd Documents/
  18 clear
  19 ls
  20 clear
  21 touch texto.txt
  22 ls
  23 clear
```

# Comando: history | grep \${COMANDO}

Para procurar um determinado comando no history, basta usá-lo em combinação com o comando grep.

# Comando: echo \$HISTSIZE

Para listar o valor atual da variável de ambiente que define o tamanho máximo utiliza-se o comando echo para printar o valor da variável \$HISTSIZE

```
Terminal - Jucas@lucas-VirtualBox: ~/Documents — + × :

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ echo $HISTSIZE

1000

lucas@lucas-VirtualBox: ~/Documents$
```

### Comando: apt install

```
Terminal - lucas@lucas-VirtualBox: ~
 File
           View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ sudo apt install vim
[sudo] password for lucas:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 vim-runtime
Suggested packages:
 ctags vim-doc vim-scripts
The following NEW packages will be installed:
 vim vim-runtime
0 upgraded, 2 newly installed, 0 to remove and 145 not upgraded.
Need to get 7.110 kB of archives.
After this operation, 34,6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim-runtime a
ll 2:8.1.2269-1ubuntu5.7 [5.872 kB]
Get:2 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim amd64 2:8
.1.2269-1ubuntu5.7 [1.238 kB]
Fetched 7.110 kB in 9s (813 kB/s)
Selecting previously unselected package vim-runtime.
(Reading database ... 196968 files and directories currently installed.)
Preparing to unpack .../vim-runtime_2%3a8.1.2269-1ubuntu5.7_all.deb ...
Adding 'diversion of /usr/share/vim/vim81/doc/help.txt to /usr/share/vim/vim81/d
```

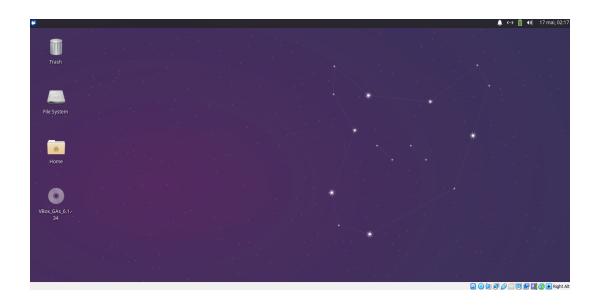
```
Terminal - lucas@lucas-VirtualBox: ~
                                                                         - + ×
 File Edit View Terminal Tabs Help
Adding 'diversion of /usr/share/vim/vim81/doc/tags to /usr/share/vim/vim81/doc/t
ags.vim-tiny by vim-runtime'
Unpacking vim-runtime (2:8.1.2269-1ubuntu5.7) ...
Selecting previously unselected package vim.
Preparing to unpack .../vim_2%3a8.1.2269-1ubuntu5.7_amd64.deb ...
Unpacking vim (2:8.1.2269-1ubuntu5.7) ...
Setting up vim-runtime (2:8.1.2269-lubuntu5.7) ...
Setting up vim (2:8.1.2269-1ubuntu5.7) ...
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vim (vim) in a
uto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vimdiff (vimdi
ff) in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rvim (rvim) in
auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rview (rview)
in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vi (vi) in aut
o mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/view (view) in
auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/ex (ex) in aut
o mode
Processing triggers for man-db (2.9.1-1) ...
lucas@lucas-VirtualBox:~$
```

# Capítulo 2

Comando: logout

Comando: exit

Após executar o comando no shell, o shell foi fechado



# Comando: sudo shutdown -h +60 " Desligando "

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ sudo shutdown -h +60 " Desligando "

[sudo] password for lucas:
Shutdown scheduled for Tue 2022-05-17 03:20:09 -03, use 'shutdown -c' to cancel.

lucas@lucas-VirtualBox:~$
```

### Comando: shutdown -c

```
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ sudo shutdown -h +60 " Desligando "
[sudo] password for lucas:
Shutdown scheduled for Tue 2022-05-17 03:20:09 -03, use 'shutdown -c' to cancel.
lucas@lucas-VirtualBox:~$ shutdown -c
lucas@lucas-VirtualBox:~$

Lucas@lucas-VirtualBox:~$
```

Comando: shutdown -r +3 " Reboot em 3 minutos "

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ shutdown -r +3 " Reboot em 3 minutos "

Shutdown scheduled for Tue 2022-05-17 02:25:23 -03, use 'shutdown -c' to cancel.

lucas@Jucas-VirtualBox:-$
```

### Comando: sudo shutdown -r +8:25 " Reboot as 08:25 h"

# Capítulo 3

Comando: Is -1

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ ls -1

Desktop

Documents

Downloads

Music

Pictures

Public

Templates

Videos

lucas@Jucas-VirtualBox:-$ ls

Desktop Documents Downloads Music Pictures Public Templates Videos

lucas@Jucas-VirtualBox:-$ 

Lucas@Jucas-VirtualBox:-$ 

Templates Videos
```

Comando: Is -I

```
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Desktop
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Downloads
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Music
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Pictures
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Public
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Public
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:20 Templates
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Videos
lucas@lucas-VirtualBox:~$
```

# Comando: Is -Id

```
Terminal - Jucas@Jucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ ls -ld

drwxr-xr-x 14 lucas lucas 4096 mai 17 02:04 .

lucas@Lucas-VirtualBox:~$ |
```

### Comando: Is -a

```
Terminal - lucas@lucas-VirtualBox: ~
                                                                        - + X
 File Edit View Terminal Tabs
                                Help
lucas@lucas-VirtualBox:~$ ls -a
                                         .vboxclient-display-svga-x11.pid
              .ICEauthority
                                         .vboxclient-draganddrop.pid
bash history .local
                                         .vboxclient-seamless.pid
bash logout
              Pictures
                                         .Xauthority
.bashrc
              .profile
                                         .Xdefaults
                                         .xscreensaver
              .sudo as_admin_successful
                                         .xsession-errors
                                         .xsession-errors.old
Downloads .vboxclient_clipboard.pid
lucas@lucas-VirtualBox:~$
```

#### Comando: Is -all

```
Terminal - lucas@lucas-VirtualBox: ~
            View
                    Terminal Tabs
                                      Help
lucas@lucas-VirtualBox:~$ ls -all
total 116
drwxr-xr-x 14 lucas lucas 4096 mai 17 02:04 .
drwxr-xr-x 3 root root 4096 mai 16 01:31 ...
-rw----- 1 lucas lucas 688 mai 17 02:17 .bash history
-rw-r--r-- 1 lucas lucas 220 mai 16 01:31 .bash logout
-rw-r--r-- 1 lucas lucas 3771 mai 16 01:31 .bashrc
drwxrwxr-x 9 lucas lucas 4096 mai 17 02:04 .cache
drwxr-xr-x 11 lucas lucas 4096 mai 16 02:55 .config
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Desktop
drwxr-xr-x 2 lucas lucas 4096 mai 16 15:40 Documents
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Downloads
drwx----- 3 lucas lucas 4096 mai 16 02:19 .gnupg
-rw----- 1 lucas lucas 0 mai 16 02:19 .ICEauthority
drwxrwxr-x 3 lucas lucas 4096 mai 16 02:19 .local
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Music
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Pictures
-rw-r--r-- 1 lucas lucas 807 mai 16 01:31 .profile
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Public
-rw-r--r-- 1 lucas lucas 0 mai 16 02:56 .sudo_as_admin_successful
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:20 Templates
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclier
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclier
                              5 mai 17 02:04 .vboxclient-clipboard.pid
5 mai 17 02:04 .vboxclient
                                  5 mai 17 02:04 .vboxclient-display-svga-x11.pid
 rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-draganddrop.pid
```

#### Comando: Is -Is .?\*

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs
                                          Help
lucas@lucas-VirtualBox:~$ ls -ld .?*
drwxr-xr-x 3 root root 4096 mai 16 01:31 ...
-rw----- 1 lucas lucas 688 mai 17 02:17 .bash history
-rw-r--r-- 1 lucas lucas 220 mai 16 01:31 .bash logout
-rw-r--r-- 1 lucas lucas 3771 mai 16 01:31 .bashrc
drwxrwxr-x 9 lucas lucas 4096 mai 17 02:04 .cache
drwxr-xr-x 11 lucas lucas 4096 mai 16 02:55 .config
drwx----- 3 lucas lucas 4096 mai 16 02:19 .gnupg
 -rw----- 1 lucas lucas 0 mai 16 02:19 .ICEauthority
drwxrwxr-x 3 lucas lucas 4096 mai 16 02:19 .local
-rw-r--r-- 1 lucas lucas 807 mai 16 01:31 .profile
-rw-r--r-- 1 lucas lucas 0 mai 16 02:56 .sudo_as_admin_successful
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-clipboard.pid
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-display-svga-x11.pid
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-draganddrop.pid
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-seamless.pid
 -rw----- 1 lucas lucas 61 mai 17 02:04 .Xauthority
 -rw-r--r-- 1 lucas lucas 1600 mai 16 01:31 .Xdefaults
 -rw-r--r-- 1 lucas lucas 14 mai 16 01:31 .xscreensaver
 -rw------ 1 lucas lucas 6259 mai 17 02:04 .xsession-errors
 -rw----- 1 lucas lucas 6375 mai 16 17:04 .xsession-errors.old
lucas@lucas-VirtualBox:~$
```

# Comando: Is -F

### Comando: ls -s

#### Comando: Is -aIF

```
Terminal - lucas@lucas-VirtualBox: ~
        Edit
             View
                     Terminal Tabs Help
lucas@lucas-VirtualBox:~$ ls -alF
total 116
drwxr-xr-x 14 lucas lucas 4096 mai 17 02:04 ./
drwxr-xr-x 3 root root 4096 mai 16 01:31 ../
-rw------ 1 lucas lucas 688 mai 17 02:17 .bash_history

-rw-r--r-- 1 lucas lucas 220 mai 16 01:31 .bash_logout

-rw-r--r-- 1 lucas lucas 3771 mai 16 01:31 .bashrc

drwxrwxr-x 9 lucas lucas 4096 mai 17 02:04 .cache/
drwxr-xr-x 11 lucas lucas 4096 mai 16 02:55 .config/
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Desktop/
drwxr-xr-x 2 lucas lucas 4096 mai 16 15:40 Documents/
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Downloads/
drwx----- 3 lucas lucas 4096 mai 16 02:19 .gnupg/
 -rw----- 1 lucas lucas
                                0 mai 16 02:19 .ICEauthority
drwxrwxr-x 3 lucas lucas 4096 mai 16 02:19 .local/
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Music/
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Pictures/
-rw-r--r-- 1 lucas lucas 807 mai 16 01:31 .profile
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:19 Public/
 -rw-r--r-- 1 lucas lucas 0 mai 16 02:56 .sudo_as_admin_successful
drwxr-xr-x 2 lucas lucas 4096 mai 16 02:20 Templates/
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-clipboard.pid
-rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-display-svga-
                                   5 mai 17 02:04 .vboxclient-display-svga-x11.pid
 -rw-r---- 1 lucas lucas 5 mai 17 02:04 .vboxclient-draganddrop.pid
```

# Comando: Is -d

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ ls -d
.
lucas@lucas-VirtualBox: ~/Documents$
```

# Comando: Is -R

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ ls -R
.:
texto_copia.txt texto.txt
lucas@lucas-VirtualBox: ~/Documents$ |
```

### Comando: cd ~

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cd ~

lucas@lucas-VirtualBox: ~ cd Do

Documents/ Downloads/
lucas@lucas-VirtualBox: ~ cd Documents/

lucas@lucas-VirtualBox: ~/Documents$

■
```

# Comando: cd

### Comando: cd ..

```
Terminal - lucas@lucas-VirtualBox:/ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ cd ..

lucas@lucas-VirtualBox://home$ cd ..

lucas@lucas-VirtualBox:/$ |
```

Comando: echo ~

```
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ echo ~
/home/lucas
lucas@lucas-VirtualBox:~$
```

# Comando: pwd

```
Terminal - lucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ pwd

/home/lucas
lucas@lucas-VirtualBox:~$
```

### Comando: cp texto.txt ~/texto\_copia2.txt

```
Terminal - Iucas@Iucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ cd Documents/
lucas@lucas-VirtualBox:~/Documents$ ls

texto_copia.txt texto.txt

lucas@lucas-VirtualBox:~/Documents$ cd ..

lucas@lucas-VirtualBox:~$ ls

Desktop Downloads Pictures Templates Videos

Documents Music Public texto_copia2.txt

lucas@lucas-VirtualBox:~$ |

lucas@lucas-VirtualBox:~$ |
```

# Comando: cp texto\_copia2.txt ~/Documents/texto.txt ~/Desktop

### Comando: cp -i texto copia.txt ~/texto copia2.txt

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ ls
Desktop Downloads Pictures Templates
                                                       texto.txt
Documents Music Public texto copia2.txt Videos
lucas@lucas-VirtualBox:~$ cd Do
Documents/ Downloads/
lucas@lucas-VirtualBox:~$ cd Documents/
lucas@lucas-VirtualBox:~/Documents$ ls
texto copia.txt texto.txt
lucas@lucas-VirtualBox:~/Documents$ cp -i texto_copia.txt ~/texto_copia2.txt
cp: overwrite '/home/lucas/texto_copia2.txt'? y
lucas@lucas-VirtualBox:~/Documents$ cd ...
lucas@lucas-VirtualBox:~$ ls
Desktop Downloads Pictures Templates texto.t
Documents Music Public texto_copia2.txt Videos
                                                       texto.txt
lucas@lucas-VirtualBox:~$
```

# Comando: cp -r teste teste\_copia

#### Comando: rename texto.txt texto2.txt

```
Terminal -lucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt

lucas@lucas-VirtualBox:~/Documents$ rename texto.txt texto2.txt

Bareword "texto" not allowed while "strict subs" in use at (user-supplied code)

line 3.

lucas@lucas-VirtualBox:~/Documents$
```

### Comando: touch vazio.txt

```
Terminal - Jucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt

lucas@lucas-VirtualBox: ~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt vazio.txt

lucas@lucas-VirtualBox: ~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt vazio.txt

lucas@lucas-VirtualBox: ~/Documents$

I
```

# Comando: mktemp

### Comando: rm

```
Terminal -lucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt vazio.txt

lucas@lucas-VirtualBox:~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt

lucas@lucas-VirtualBox:~/Documents$ ls

teste veste_copia texto_copia.txt texto.txt

lucas@lucas-VirtualBox:~/Documents$

Terminal -lucas@lucas-VirtualBox:~/Documents$ ls

texto.txt
```

# Comando: rm \*.txt

```
Terminal - Jucas@Jucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt vazio.txt

lucas@Jucas-VirtualBox:~/Documents$ ls

teste teste_copia texto_copia.txt texto.txt

lucas@Jucas-VirtualBox:~/Documents$ rm *.txt

lucas@Jucas-VirtualBox:~/Documents$ ls

teste teste_copia

lucas@Jucas-VirtualBox:~/Documents$ ls

teste virtualBox:~/Documents$ ls

teste virtualBox:~/Documents$ ls
```

### Comando: rm -R

### Comando: rmdir

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ ls

teste teste_copia
lucas@lucas-VirtualBox: ~/Documents$ ls

teste_copia
lucas@lucas-VirtualBox: ~/Documents$ rmdir teste_copia/
lucas@lucas-VirtualBox: ~/Documents$ ls
lucas@lucas-VirtualBox: ~/Documents$ ls
lucas@lucas-VirtualBox: ~/Documents$ |
```

### Comando: mkdir

```
Terminal - Jucas@Jucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ mkdir tmp1 tmp2 tmp3

lucas@lucas-VirtualBox: ~/Documents$ ls

tmp1 tmp2 tmp3

lucas@lucas-VirtualBox: ~/Documents$
```

# Comando: mkdir -p

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ ls

tmp1 tmp2 tmp3
lucas@lucas-VirtualBox: ~/Documents$ ls tmp1 tmp2 tmp3
lucas@lucas-VirtualBox: ~/Documents$ ls tmp1/

tmp
lucas@lucas-VirtualBox: ~/Documents$ ls tmp1/
tmp
lucas@lucas-VirtualBox: ~/Documents$ ls tmp1/tmp/
tmptmp
lucas@lucas-VirtualBox: ~/Documents$ Is tmp1/tmp/
tmptmp
```

#### Comando: In -s

```
Terminal - Iucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ touch arq1
lucas@lucas-VirtualBox:~/Documents$ ccho 'Laranja ' >> arq1
lucas@lucas-VirtualBox:~/Documents$ ln -s arq1 arq1 - soft
ln: target 'soft' is not a directory
lucas@lucas-VirtualBox:~/Documents$ ln -s arq1 arq1-soft
lucas@lucas-VirtualBox:~/Documents$ ls -l arq1*
-rw-rw-rv--- 1 lucas lucas 15 mai 18 08:06 arq1
lrwxrwxrwx 1 lucas lucas 4 mai 18 08:06 arq1-soft -> arq1
lucas@lucas-VirtualBox:~/Documents$

| Tarpinal - Iucas | Iucas
```

#### Comando: cat

```
Terminal - Jucas@Jucas-VirtualBox:~/Documents

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~/Documents$ touch arq1
lucas@Jucas-VirtualBox:~/Documents$ echo 'Laranja ' >> arq1
lucas@Jucas-VirtualBox:~/Documents$ ln -s arq1 arq1 - soft
ln: target 'soft' is not a directory
lucas@Jucas-VirtualBox:~/Documents$ ls -l arq1*
-rw-rw-r-- 1 lucas lucas 15 mai 18 08:06 arq1
lrwxrwxrwx 1 lucas lucas 4 mai 18 08:06 arq1
lucas@Jucas-VirtualBox:~/Documents$ cat arq1-soft
'Laranja '
lucas@Jucas-VirtualBox:~/Documents$

Lucas@Jucas-VirtualBox:~/Documents$

Lucas@Jucas-VirtualBox:~/Documents$
```

#### Comando: mv

```
Terminal - Jucas@Jucas-VirtualBox:~/Documents

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~/Documents$ touch arq1

lucas@Jucas-VirtualBox:~/Documents$ ccho 'Laranja' >> arq1

lucas@Jucas-VirtualBox:~/Documents$ ln -s arq1 arq1 - soft

ln: target 'soft' is not a directory

lucas@Jucas-VirtualBox:~/Documents$ ls -s arq1 arq1-soft

lucas@Jucas-VirtualBox:~/Documents$ ls -l arq1*

-rw-rw-r-- 1 lucas lucas 15 mai 18 08:06 arq1

lrwxrwxrwx 1 lucas lucas 4 mai 18 08:06 arq1-soft

'Laranja'

lucas@Jucas-VirtualBox:~/Documents$ cat arq1-soft

'Laranja'

lucas@Jucas-VirtualBox:~/Documents$ ls

arq1-soft arq2 tmp1 tmp2 tmp3

lucas@Jucas-VirtualBox:~/Documents$ I
```

# Capítulo 4

Comando: echo -en

```
Terminal - Jucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ echo -en "olá\tAlessandro !"

olá Alessandro !lucas@lucas-VirtualBox:~/Documents$
```

#### Comando: cat

#### Comando: set

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
      Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ touch cidades.txt
lucas@lucas-VirtualBox:~/Documents$ echo Patrocinio >> cidades.txt
lucas@lucas-VirtualBox:~/Documents$ echo Uberlandia >> cidades.txt
lucas@lucas-VirtualBox:~/Documents$ echo Uberaba >> cidades.txt
lucas@lucas-VirtualBox:~/Documents$ cat cidades.txt
Patrocinio
Uberlandia
Uberaba
lucas@lucas-VirtualBox:~/Documents$ seq 6 10 > arquivo.txt
lucas@lucas-VirtualBox:~/Documents$ cat arquivo.txt cidades.txt
10
Patrocinio
Uberlandia
Uberaba
lucas@lucas-VirtualBox:~/Documents$
```

# Comando: cut

# Comando: expand

```
Terminal - Jucas@Jucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox: ~/Documents$ cat cidades.txt | expand -t 1

Patrocinio

Uberlandia

Uberaba

lucas@Jucas-VirtualBox: ~/Documents$

I
```

### Comando: tr

```
Terminal - Iucas@Iucas-VirtualBox: ~/Documents — + ×
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat cidades.txt

MG Patrocinio

MG Uberaba
lucas@lucas-VirtualBox: ~/Documents$ cat cidades.txt | tr "\t" " "

MG Patrocinio

MG Uberlandia

MG Uberlandia

MG Uberlandia

Lucas@lucas-VirtualBox: ~/Documents$ ■
```

# Comando: tr 'A-Z' 'a-z'

```
▼ Terminal - Iucas@Iucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ tr 'A-Z' 'a-z' < cidades.txt

mg patrocinio

mg uberlandia

mg uberaba

lucas@lucas-VirtualBox: ~/Documents$ ■
```

# Comando: fmt -w2

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ fmt -w2 cidades.txt

MG
Patrocinio
MG
Uberlandia
MG
Uberaba
lucas@lucas-VirtualBox: ~/Documents$
```

### Comando: fold -w 5

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ fold -w 5

olha só testando pelo texto no terminal

olha só t

estan

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minal

^C

lucas@lucas-VirtualBox: ~/Documents$ ■
```

# Comando: grep

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat lista.txt

SP Sao Paulo : pedro

SP Campinas : andre : (074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael

MG Bom Sucesso : lisa

RJ Rio de Janeiro : alexandro

lucas@lucas-VirtualBox: ~/Documents$ cat lista.txt | grep pedro

SP Sao Paulo : pedro

lucas@lucas-VirtualBox: ~/Documents$ ■
```

# Comando: grep '[0-9]'

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat lista.txt | grep '[0-9]'

SP Campinas : andre : (074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

lucas@lucas-VirtualBox: ~/Documents$
```

### Comando: dmesg

### Comando: egrep

#### Comando: head

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat lista.txt

SP Sao Paulo : pedro
SP Campinas : andre : (074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael
MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox: ~/Documents$ head -2 lista.txt

SP Sao Paulo : pedro
SP Campinas : andre : (074) 2233 -1111
lucas@lucas-VirtualBox: ~/Documents$
```

#### Comando: tail

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ cat lista.txt
SP Sao Paulo : pedro
SP Campinas : andre :(074) 2233 -1111
MG Belo Horizonte : marta :010 1222 0011
MG Diamantina : lucas :2
MG Lavras : rafael
MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$ head -2 lista.txt
SP Sao Paulo : pedro
SP Campinas : andre :(074) 2233 -1111
lucas@lucas-VirtualBox:~/Documents$ tail -2 lista.txt
MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$
```

# Comando: file

#### Comando: iconv

```
Terminal -lucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ file lista.txt
lista.txt: ASCII text
lucas@lucas-VirtualBox:~/Documents$ iconv -f iso -8859 -1 -t utf -8 cidades.txt
> cidadeutf8.txt
iconv: invalid option -- '8'
Try `iconv --help' or `iconv --usage' for more information.
lucas@lucas-VirtualBox:~/Documents$ iconv -f ascii -t utf -8 cidades.txt > cidad
eutf8.txt
iconv: invalid option -- '8'
Try `iconv --help' or `iconv --usage' for more information.
lucas@lucas-VirtualBox:~/Documents$

| Try `iconv --help' or `iconv --usage' for more information.
| Uccas@lucas-VirtualBox:~/Documents$
```

#### Comando: look

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat lista.txt

SP Sao Paulo : pedro
SP Campinas : andre : (074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael

MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox: ~/Documents$ look MG lista.txt

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael

MG Bom Sucesso : lisa
lucas@lucas-VirtualBox: ~/Documents$

Lucas@lucas-VirtualBox: ~/Documents$
```

### Comando: more

```
Terminal -lucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ more lista.txt

SP Sao Paulo : pedro
SP Campinas : andre : (074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael

MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$

I
```

### Comando: nl

#### Comando: paste

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ cat cidades.txt
        Patrocinio
MG
        Uberlandia
MG
        Uberaba
lucas@lucas-VirtualBox:~/Documents$ cat lista.txt
SP Sao Paulo : pedro
SP Campinas : andre :(074) 2233 -1111
MG Belo Horizonte : marta :010 1222 0011
MG Diamantina : lucas :2
MG Lavras : rafael
MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$ paste cidades.txt lista.txt
        Patrocinio SP Sao Paulo : pedro
Uberlandia SP Campinas : andre :(074) 2233 -1111
MG
MG
MG
        Uberaba MG Belo Horizonte : marta :010 1222 0011
        MG Diamantina : lucas :2
        MG Lavras : rafael
        MG Bom Sucesso : lisa
        RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$
```

# Comando: rev

```
Terminal - Jucas@Jucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox: ~/Documents$ echo 'teste ' | rev
' etset'
lucas@Jucas-VirtualBox: ~/Documents$

| Terminal - Jucas@Jucas-VirtualBox: ~/Documents | Tester | Jucas@Jucas-VirtualBox: ~/Documents | Jucas@Jucas-VirtualBox: ~/Documents | Tester | Jucas@Jucas-VirtualBox: ~/Documents | Jucas-VirtualBox: ~/Documents | Jucas-Virtua
```

#### Comando: sort

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ cat lista.txt
SP Sao Paulo : pedro
SP Campinas : andre :(074) 2233 -1111
MG Belo Horizonte : marta :010 1222 0011
MG Diamantina : lucas :2
MG Lavras : rafael
MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$ sort lista.txt
MG Belo Horizonte : marta :010 1222 0011
MG Bom Sucesso : lisa
MG Diamantina : lucas :2
MG Lavras : rafael
RJ Rio de Janeiro : alexandro
SP Campinas : andre :(074) 2233 -1111
SP Sao Paulo : pedro
lucas@lucas-VirtualBox:~/Documents$
```

### Comando: wc

```
Terminal - lucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ cat lista.txt

SP Sao Paulo : pedro
SP Campinas : andre :(074) 2233 -1111

MG Belo Horizonte : marta :010 1222 0011

MG Diamantina : lucas :2

MG Lavras : rafael

MG Bom Sucesso : lisa
RJ Rio de Janeiro : alexandro
lucas@lucas-VirtualBox:~/Documents$ wc lista.txt

7  40 196 lista.txt
lucas@lucas-VirtualBox:~/Documents$
```

# Capítulo 5

Comando: compgen -c

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
                                                                           - + \times
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ compgen -c | grep sgt-*
sgt-loopy
sgt-fifteen
sgt-map
sgt-tracks
sgt-pegs
sgt-sixteen
sgt-signpost
sgt-palisade
sgt-twiddle
sgt-flip
sgt-net
sgt-netslide
sgt-rect
sgt-flood
sgt-guess
sgt-range
sgt-pearl
sgt-slant
sgt-pattern
sgt-launcher
sgt-unruly
sgt-dominosa
sgt-blackbox
```

## Comando: whoami

```
Terminal - lucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ whoami
lucas
lucas@lucas-VirtualBox:~/Documents$

I
```

### Comando: id

```
Terminal - lucas@lucas-VirtualBox:~/Documents — + x

File Edit View Terminal Tabs Help

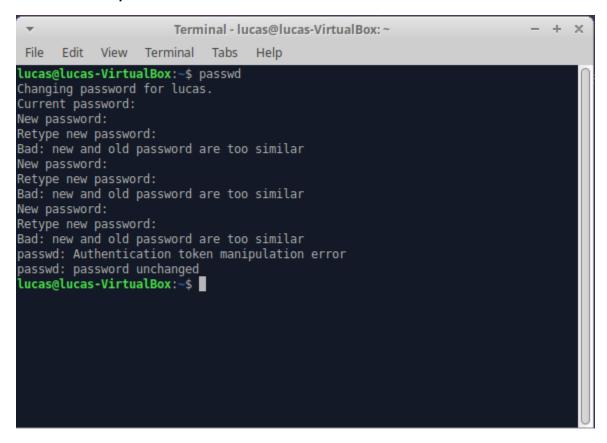
lucas@lucas-VirtualBox:~/Documents$ id

uid=1000(lucas) gid=1000(lucas) groups=1000(lucas),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),121(lpadmin),131(lxd),132(sambashare)

lucas@lucas-VirtualBox:~/Documents$

I
```

### Comando: passwd



## Comando: users

```
Terminal - lucas@lucas-VirtualBox:~ - + x

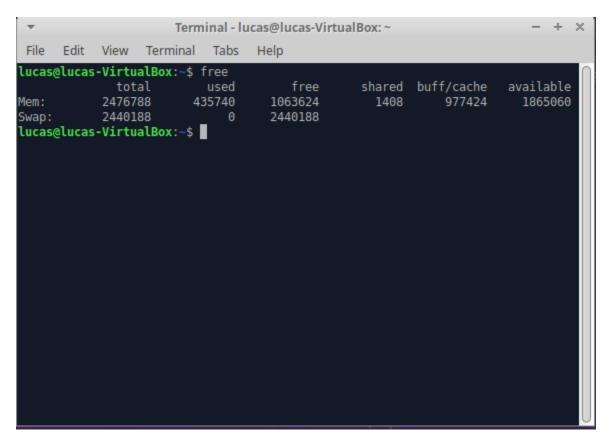
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ users
lucas
lucas@lucas-VirtualBox:~$
```

## Comando: finger \${USERNAME}

## Comando: finger

## Comando: free



## Comando: su

### Comando: uname

```
Terminal - lucas@lucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ uname -s
Linux
lucas@lucas-VirtualBox:~$ uname -n
lucas-VirtualBox
lucas@lucas-VirtualBox:~$ uname -a
Linux lucas-VirtualBox 5.13.0-41-generic #46~20.04.1-Ubuntu SMP Wed Apr 20 13:16
:21 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
lucas@lucas-VirtualBox:~$ ■
```

## Comando: uptime

```
Terminal - Jucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ uptime
21:17:30 up 57 min, 1 user, load average: 0,03, 0,08, 0,05

lucas@lucas-VirtualBox:-$ ■
```

## Comando: echo \$PATH

Comando: timeout

Comando: ping

```
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ timeout 5 ping www.google.com

PING www.google.com (142.250.79.196) 56(84) bytes of data.
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=1 ttl=56 time=
18.5 ms
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=2 ttl=56 time=
19.9 ms
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=3 ttl=56 time=
22.5 ms
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=4 ttl=56 time=
19.5 ms
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=4 ttl=56 time=
19.5 ms
64 bytes from gru06s59-in-f4.le100.net (142.250.79.196): icmp_seq=5 ttl=56 time=
19.10 ms
lucas@lucas-VirtualBox:-$
```

### Comando: w

## Comando: whereis gcc

### Comando: locate

```
Terminal - lucas@lucas-VirtualBox: ~
      Edit View
                 Terminal Tabs Help
lucas@lucas-VirtualBox:~$ locate passwd
/etc/passwd
/etc/passwd-
/etc/pam.d/chpasswd
/etc/pam.d/passwd
/etc/security/opasswd
/usr/bin/gpasswd
/usr/bin/grub-mkpasswd-pbkdf2
/usr/bin/passwd
/usr/include/rpcsvc/yppasswd.h
/usr/include/rpcsvc/yppasswd.x
/usr/lib/libreoffice/share/config/soffice.cfg/svx/ui/passwd.ui
/usr/lib/tmpfiles.d/passwd.conf
/usr/lib/x86 64-linux-gnu/samba/libsmbpasswdparser.so.0
/usr/sbin/chgpasswd
/usr/sbin/chpasswd
/usr/sbin/update-passwd
/usr/share/base-passwd
/usr/share/base-passwd/group.master
/usr/share/base-passwd/passwd.master
/usr/share/bash-completion/completions/chpasswd
/usr/share/bash-completion/completions/gpasswd
/usr/share/bash-completion/completions/grub-mkpasswd-pbkdf2
/usr/share/bash-completion/completions/htpasswd
```

## Comando: which

```
Terminal - lucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ which gcc
/usr/bin/gcc
lucas@lucas-VirtualBox:~$
```

## Comando: whatis

```
Terminal - lucas@lucas-VirtualBox:~ - + X

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ whatis gcc
gcc (1) - GNU project C and C++ compiler

lucas@lucas-VirtualBox:~$ |
```

## Comando: who

# Capítulo 6

Comando: ps -aef

<b>*</b>			Term	inal - lu	cas@lu	cas-VirtualBox: ~	- + ×
File	Edit	View	Terminal	Tabs	Help		
lucas(	alucas	-Virtu	alBox:~\$	os -aef			$\cap$
UID	_	PID			TTY	TIME CMD	
root		1	0 (	9 20:20	?	00:00:02 /sbin/init spl	ash
root		2	0 (	9 20:20	?	00:00:00 [kthreadd]	
root		3	2 (	9 20:20	?	00:00:00 [rcu_gp]	
root		4	2 (	9 20:20	?	00:00:00 [rcu_par_gp]	
root		6	2 (	9 20:20	?	00:00:00 [kworker/0:0H-	events_highpri
root		7	2 (	9 20:20	?	00:00:01 [kworker/0:1-e	vents]
root		9	2 (	9 20:20	?	00:00:00 [mm_percpu_wq]	
root		10	2 (	9 20:20	?	00:00:00 [rcu_tasks_rude	e_]
root		11	2 (	9 20:20	?	00:00:00 [rcu_tasks_tra	ce]
root		12	2 (	9 20:20	?	00:00:00 [ksoftirqd/0]	
root		13	2 (	9 20:20	?	00:00:00 [rcu_sched]	
root		14	2 (	9 20:20	?	00:00:00 [migration/0]	
root		15	2 (	9 20:20	?	00:00:00 [idle_inject/0	]
root		16	2 (	9 20:20	?	00:00:00 [cpuhp/0]	
root		17	2 (	9 20:20	?	00:00:00 [cpuhp/1]	
root		18		9 20:20	?	00:00:00 [idle_inject/1	]
root		19	2 (	9 20:20	?	00:00:00 [migration/1]	
root		20	2 (	9 20:20	?	00:00:00 [ksoftirqd/1]	
root		22		9 20:20	?	00:00:00 [kworker/1:0H-	events_highpri
root		23		9 20:20	?	00:00:00 [kdevtmpfs]	
root		24	2 (	9 20:20	?	00:00:00 [netns]	
root		25	2 (	9 20:20	?	00:00:00 [inet_frag_wq]	

### Comando: ps

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ ps
                   TIME CMD
   PID TTY
   1421 pts/0
                00:00:00 bash
                00:00:00 ps
   2292 pts/0
lucas@lucas-VirtualBox:~$ ps -u lucas
                   TIME CMD
    PID TTY
    797 ?
                00:00:00 systemd
    798 ?
                00:00:00 (sd-pam)
    803 ?
                00:00:00 pulseaudio
    804 ?
                00:00:00 xfce4-session
    818 ?
                00:00:03 dbus-daemon
    893 ?
                00:00:00 VBoxClient
    894 ?
                00:00:00 VBoxClient
    905 ?
                00:00:00 VBoxClient
                00:00:00 VBoxClient
    906 ?
    910 ?
                00:00:00 VBoxClient
    912 ?
                00:00:17 VBoxClient
    915 ?
                00:00:00 VBoxClient
    916 ?
                00:00:00 VBoxClient
    926 ?
                00:00:00 ssh-agent
                00:00:00 at-spi-bus-laun
    944 ?
    947 ?
                00:00:00 gvfsd
                00:00:00 gvfsd-fuse
    955 ?
                00:00:00 dbus-daemon
```

# Comando: ps -m | head -5

### Comando: pstree

```
Terminal - lucas@lucas-VirtualBox: ~
                        Terminal Tabs
 File Edit View
lucas@lucas-VirtualBox:~$ pstree
systemd—ModemManager—2*[{ModemManager}]
—NetworkManager—2*[{NetworkManager}]
—3*[VBoxClient—VBoxClient—2*[{VBoxClient}]]
—VBoxClient—VBoxClient—3*[{VBoxClient}]
—VBoxService—8*[{VBoxService}]
             -accounts-daemon---2*[{accounts-daemon}]
            —agetty
            —avahi-daemon——avahi-daemon
—blueman-tray——2*[{blueman-tray}]
—colord——2*[{colord}]
             -cron
             -cups-browsed--2*[{cups-browsed}]
            -cupsd--dbus
            -dbus-daemon
             -gnome-keyring-d---3*[{gnome-keyring-d}]
             -irqbalance---{irqbalance}
             -2*[kerneloops]
             −lightdm<del>-|-</del>Xorg----{Xorg}
                           -lightdm---xfce4-session---Thunar---2*[{Thunar}]
                                                               -applet.py
                                                              -blueman-applet--3*[{blueman-appl+
                                                              -nm-applet--3*[{nm-applet}]
```

# Comando: top

Ţ			Ter	minal - lu	cas@luc	as-Virtu	ıalB	Box: ~			- + :	× ]
File E	dit View	Ter	minal	Tabs	Help							
top - 21:35:37 up 1:15, 1 user, load average: 0,06, 0,06, 0,04 Tasks: 165 total, 1 running, 164 sleeping, 0 stopped, 0 zombie %Cpu(s): 6,7 us, 1,0 sy, 0,0 ni, 92,2 id, 0,0 wa, 0,0 hi, 0,2 si, 0,0 st MiB Mem : 2418,7 total, 1035,7 free, 424,3 used, 958,8 buff/cache MiB Swap: 2383,0 total, 2383,0 free, 0,0 used. 1821,0 avail Mem												
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND	П
781	root	20	0	268820	80596	39372	S	9,8	3,3	0:15.06	Xorg	П
1417	lucas	20	0	313360	38676	30272	S	3,6	1,6	0:07.02	xfce4-t+	
2309	lucas	20	Θ	11860	3736	3236	R	1,3	0,2	0:00.14	top	
1036	lucas	20	0	311628	41928	28560	S	1,0	1,7	0:02.92	xfdeskt+	
912	lucas	20	0	155380	2728	2356	S	0,7	0,1	0:18.61	VBoxCli+	
985	lucas	20	0	749480	84556	62408	S	0,7	3,4	0:03.40	xfwm4	
7	root	20	0	0	0	0	Ι	0,3	0,0	0:01.40	kworker+	Ш
366	root -	-51	0	0	0	0	S	0,3	0,0	0:00.20	irq/18-+	Ш
1010	lucas	20	0	316056	39176	30776	S	0,3	1,6	0:00.77	panel-1+	Ш
1	root	20	0	101524	11128	8312	S	0,0	0,4	0:02.08		Ш
2	root	20	0	0	0	0	S	0,0	0,0	0:00.00	kthreadd	ш
3	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00	rcu_gp	Ш
4	root		-20	0	0	0	Ι	0,0	0,0	0:00.00		
6	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00	kworker+	
9	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00		
10	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_tas+	Ш
11	root	20	0	0	0	0	S	0,0	0,0	0:00.00	rcu_tas+	U

### Comando: kill -l

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs
                                 Help
lucas@lucas-VirtualBox:~$ kill -l
1) SIGHUP
                                               4) SIGILL
             2) SIGINT 3) SIGQUIT
                                                               5) SIGTRAP
SIGABRT
                7) SIGBUS
                                8) SIGFPE
                                                9) SIGKILL
                                                               10) SIGUSR1
11) SIGSEGV
               12) SIGUSR2
                               13) SIGPIPE
                                                14) SIGALRM
                                                               15) SIGTERM
16) SIGSTKFLT
               17) SIGCHLD
                               18) SIGCONT
                                                19) SIGSTOP
                                                               20) SIGTSTP
21) SIGTTIN
               22) SIGTTOU
                                                24) SIGXCPU
                               23) SIGURG
                                                               25) SIGXFSZ
               27) SIGPROF
                                28) SIGWINCH
                                                29) SIGIO
26) SIGVTALRM
                                                               30) SIGPWR
31) SIGSYS
                34) SIGRTMIN
                               35) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRTMIN+3
38) SIGRTMIN+4 39) SIGRTMIN+5 40) SIGRTMIN+6 41) SIGRTMIN+7 42) SIGRTMIN+8
43) SIGRTMIN+9 44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9 56) SIGRTMAX-8 57) SIGRTMAX-7
58) SIGRTMAX-6 59) SIGRTMAX-5 60) SIGRTMAX-4 61) SIGRTMAX-3 62) SIGRTMAX-2 63) SIGRTMAX-1 64) SIGRTMAX
lucas@lucas-VirtualBox:~$
```

### Comando: ps -x --forest

```
Terminal - lucas@lucas-VirtualBox: ~
      Edit
           View
                 Terminal
                          Tabs
                                  Help
lucas@lucas-VirtualBox:~$ ps -x --forest
   PID TTY
                STAT
                      TIME COMMAND
   804 ?
                Ssl
                       0:00 xfce4-session
                             \ /usr/bin/ssh-agent /usr/bin/im-launch startxfce
   926 ?
                       0:00
   985 ?
                       0:03
                                 xfwm4 --replace
   995 ?
                       0:00
                                 xfce4-panel
                       0:00
  1010 ?
                                  \ /usr/lib/x86 64-linux-gnu/xfce4/panel/wrapp
                                  \_ /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
                       0:00
  1016 ?
                       0:00
                                  \_ /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
  1017 ?
  1018 ?
                       0:00
                                  \ /usr/lib/x86 64-linux-gnu/xfce4/panel/wrapp
  1019 ?
                       0:00
                                  \ /usr/lib/x86 64-linux-gnu/xfce4/panel/wrapp
  1022 ?
                       0:00
                                  \ /usr/lib/x86 64-linux-gnu/xfce4/panel/wrapp
  1023 ?
                       0:12
                                  \ /usr/lib/x86 64-linux-gnu/xfce4/panel/wrapp
  1011 ?
                       0:01
                                 Thunar --daemon
                              \_ xfdesktop
  1036 ?
                       0:03
                              \_ nm-applet
  1061 ?
                       0:00
                       0:00
  1088 ?
                              \ update-notifier
  1093 ?
                              \ /usr/bin/python3 /usr/share/system-config-print
                       0:00
                        0:01
                              \ /usr/bin/python3 /usr/bin/blueman-applet
  1123 ?
                sl
  1127 ?
                sl
                       0:00
                              \_ /usr/lib/policykit-1-gnome/polkit-gnome-authent
  1128 ?
                       0:00
                        0:07 /usr/bin/xfce4-terminal
  1417 ?
  1421 pts/0
                        0:00 \_ bash
  2336 pts/0
                       0:00
                                   ps -x --forest
```

# Capítulo 7

Comando: chmod

```
Terminal - Jucas@Jucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~/Documents$ ls -l cidades.txt
-rw-rw-r-- 1 lucas lucas 39 mai 18 08:19 cidades.txt
lucas@Jucas-VirtualBox:~/Documents$ ls -l cidades.txt
lucas@Jucas-VirtualBox:~/Documents$ chmod u-r cidades.txt
lucas@Jucas-VirtualBox:~/Documents$ ls -l cidades.txt
lucas@Jucas-VirtualBox:~/Documents$ ls -l cidades.txt
-rw-r-- 1 lucas lucas 39 mai 18 08:19 cidades.txt
lucas@Jucas-VirtualBox:~/Documents$ ls -l cidades.txt
-rw-ry-r-- 1 lucas lucas 39 mai 18 08:19 cidades.txt
lucas@Jucas-VirtualBox:~/Documents$

Lucas@Jucas-VirtualBox:~/Documents$

Lucas@Jucas-VirtualBox:~/Documents$
```

### Comando: chown

# Capítulo 8

### Comando: cut

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cut -d: -f1 /etc/passwd | head -10 root daemon bin sys sync games man lp mail news
lucas@lucas-VirtualBox: ~/Documents$ ■
```

## Comando: cat /etc/group | head -10

```
Terminal - lucas@lucas-VirtualBox: ~/Documents — + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ cat /etc/group | head -10
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog, lucas
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
lucas@lucas-VirtualBox: ~/Documents$ ■
```

### Comando: adduser

```
Terminal - lucas@lucas-VirtualBox: ~/Documents
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~/Documents$ sudo adduser aluno
 [sudo] password for lucas:
Adding user `aluno' ...

Adding new group `aluno' (1001) ...

Adding new user `aluno' (1001) with group `aluno' ...

Creating home directory `/home/aluno' ...

Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for aluno
Enter the new value, or press ENTER for the default
          Full Name []:
          Room Number []:
          Work Phone []:
          Home Phone []:
          Other []:
Is the information correct? [Y/n] y
lucas@lucas-VirtualBox:~/Documents$
```

## Comando: userdel

```
Terminal - Jucas@Jucas-VirtualBox: ~/Documents — + X

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ sudo userdel aluno

lucas@lucas-VirtualBox: ~/Documents$
```

# Comando: groupadd

```
Terminal - Iucas@lucas-VirtualBox: ~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox: ~/Documents$ sudo groupadd alunos

lucas@lucas-VirtualBox: ~/Documents$
```

## Comando: groupmod

```
Terminal - Jucas@lucas-VirtualBox:~/Documents — + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~/Documents$ sudo groupmod -n alunos estudantes
groupmod: group 'estudantes' does not exist
lucas@lucas-VirtualBox:~/Documents$ sudo groupmod -n estudantes alunos
lucas@lucas-VirtualBox:~/Documents$
```

# Comando: groupdel

# Capítulo 9

Comando: apt install net-tools

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are y
ou root?
lucas@lucas-VirtualBox:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 145 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://br.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+
git20180626.aebd88e-lubuntu1 [196 kB]
Fetched 196 kB in 0s (593 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 198825 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb .
Unpacking net-tools (1.60+git20180626.aebd88e-lubuntul) ...
Setting up net-tools (1.60+git20180626.aebd88e-lubuntul) ...
Processing triggers for man-db (2.9.1-1) ...
lucas@lucas-VirtualBox:~$
```

## Comando: hostname

```
Terminal - Jucas@Jucas-VirtualBox: ~ - + x

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ hostname
lucas-VirtualBox
lucas@Jucas-VirtualBox:~$

I
```

## Comando: arp -a

#### Comando: ifconfig

```
Terminal - lucas@lucas-VirtualBox: ~
 File
      Edit View Terminal Tabs
                                  Help
lucas@lucas-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
        inet6 fe80::80b2:9357:929e:33da prefixlen 64 scopeid 0x20<link>
        ether 08:00:27:06:27:4d txqueuelen 1000 (Ethernet)
        RX packets 256 bytes 240709 (240.7 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 204 bytes 20656 (20.6 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
RX packets 162 bytes 13568 (13.5 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 162 bytes 13568 (13.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lucas@lucas-VirtualBox:~$
```

#### Comando: ifconfig mtu

```
Terminal - lucas@lucas-VirtualBox: ~
 File
      Edit
           View
                 Terminal Tabs
                                  Help
lucas@lucas-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
        inet6 fe80::80b2:9357:929e:33da prefixlen 64 scopeid 0x20<link>
        ether 08:00:27:06:27:4d txqueuelen 1000 (Ethernet)
        RX packets 256 bytes 240709 (240.7 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 204 bytes 20656 (20.6 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
RX packets 162 bytes 13568 (13.5 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 162 bytes 13568 (13.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lucas@lucas-VirtualBox:~$ ifconfig enp0s3 mtu 1600
SIOCSIFMTU: Operation not permitted
lucas@lucas-VirtualBox:~$
```

#### Comando: ping

```
Terminal - lucas@lucas-VirtualBox: ~
            View
                   Terminal
                             Tabs
                                     Help
lucas@lucas-VirtualBox:~$ ping ww.ufu.com.br
PING ww.ufu.com.br (92.242.140.6) 56(84) bytes of data.
64 bytes from 92.242.140.6: icmp seq=1 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=2 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=3 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=4 ttl=54 time=216 ms
64 bytes from 92.242.140.6: icmp_seq=5 ttl=54 time=218 ms
64 bytes from 92.242.140.6: icmp_seq=6 ttl=54 time=216 ms
64 bytes from 92.242.140.6: icmp_seq=7 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=8 ttl=54 time=219 ms
64 bytes from 92.242.140.6: icmp seq=9 ttl=54 time=216 ms
64 bytes from 92.242.140.6: icmp seq=10 ttl=54 time=218 ms
64 bytes from 92.242.140.6: icmp seq=11 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=12 ttl=54 time=216 ms
64 bytes from 92.242.140.6: icmp_seq=13 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp_seq=14 ttl=54 time=218 ms
64 bytes from 92.242.140.6: icmp_seq=15 ttl=54 time=217 ms
64 bytes from 92.242.140.6: icmp seq=16 ttl=54 time=217 ms
--- ww.ufu.com.br ping statistics ---
16 packets transmitted, 16 received, 0% packet loss, time 15059ms rtt min/avg/max/mdev = 216.000/216.947/218.608/0.695 ms
lucas@lucas-VirtualBox:~$
```

### Comando: ping -c 3

# Comando: host \$SITE\_ANDRESS

```
Terminal - lucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ host www.ufu.br

www.ufu.br has address 200.19.145.55

lucas@lucas-VirtualBox:-$

lucas@lucas-VirtualBox:-$
```

## Comando: dig \$SITE\_ANDRESS

```
- + ×
                      Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ dig www.ufu.br
; <>>> DiG 9.16.1-Ubuntu <>>> www.ufu.br
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 43713
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;www.ufu.br.
                                IN
                                        Α
;; ANSWER SECTION:
www.ufu.br.
                        39
                                IN
                                        Α
                                                200.19.145.55
;; Query time: 12 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: qua mai 18 22:06:00 -03 2022
;; MSG SIZE rcvd: 55
lucas@lucas-VirtualBox:~$
```

# Comando: nslookup \$SITE\_ANDRESS

```
Terminal - lucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ nslookup www.ufu.br

Server: 127.0.0.53

Address: 127.0.0.53#53

Non-authoritative answer:
Name: www.ufu.br
Address: 200.19.145.55

lucas@lucas-VirtualBox:~$

Iucas@lucas-VirtualBox:~$
```

## Comando: traceroute \$SITE\_ANDRESS

# Comando: tracepath \$SITE\_ANDRESS

```
File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ tracepath www.ufu.br

1?: [LOCALHOST] pmtu 1500

1: _gateway 7.159ms

1: _gateway 1.002ms

2: no reply

3: no reply

4: _gateway 1.582ms !N

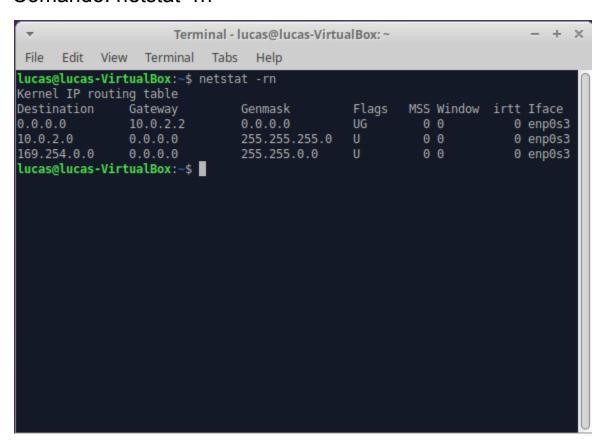
Resume: pmtu 1500

lucas@lucas-VirtualBox:~$
```

#### Comando: netstat -s

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ netstat -s
Ip:
    Forwarding: 2
   476 total packets received
    1 with invalid addresses
   0 forwarded
    0 incoming packets discarded
    473 incoming packets delivered
   623 requests sent out
Icmp:
    34 ICMP messages received
    0 input ICMP message failed
    ICMP input histogram:
       destination unreachable: 2
       timeout in transit: 8
       echo replies: 24
    50 ICMP messages sent
    0 ICMP messages failed
    ICMP output histogram:
        destination unreachable: 2
        echo requests: 48
IcmpMsg:
        InType0: 24
        InType3: 2
```

#### Comando: netstat -rn



## Comando: nmap \$SITE\_ANDRESS

```
Terminal - Jucas@Jucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ nmap www.ufu.br

Starting Nmap 7.80 ( https://nmap.org ) at 2022-05-18 22:11 -03

Nmap scan report for www.ufu.br (200.19.145.55)

Host is up (0.042s latency).

rDNS record for 200.19.145.55: bulma.dr.ufu.br

Not shown: 997 filtered ports

PORT STATE SERVICE

800/tcp open http

443/tcp open http

443/tcp open http

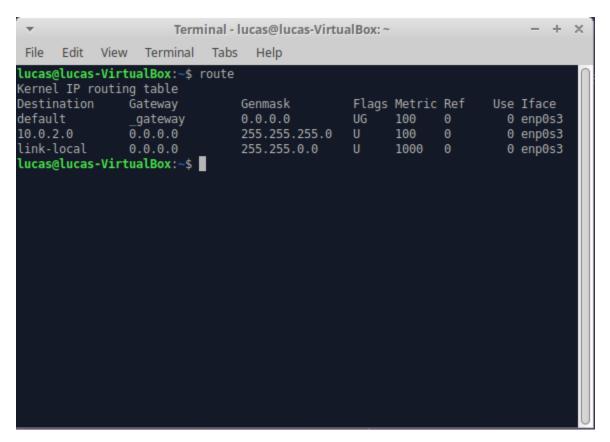
Nmap done: 1 IP address (1 host up) scanned in 5.34 seconds

lucas@lucas-VirtualBox:~$ ■
```

#### Comando: nmap -v localhost

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ nmap -v localhost
Starting Nmap 7.80 ( https://nmap.org ) at 2022-05-18 22:12 -03
Initiating Ping Scan at 22:12
Scanning localhost (127.0.0.1) [2 ports]
Completed Ping Scan at 22:12, 0.00s elapsed (1 total hosts)
Initiating Connect Scan at 22:12
Scanning localhost (127.0.0.1) [1000 ports]
Discovered open port 631/tcp on 127.0.0.1
Completed Connect Scan at 22:12, 0.04s elapsed (1000 total ports)
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00031s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
631/tcp open ipp
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1_host up) scanned in 0.18 seconds
lucas@lucas-VirtualBox:~$
```

### Comando: route



### Comando: telnet

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

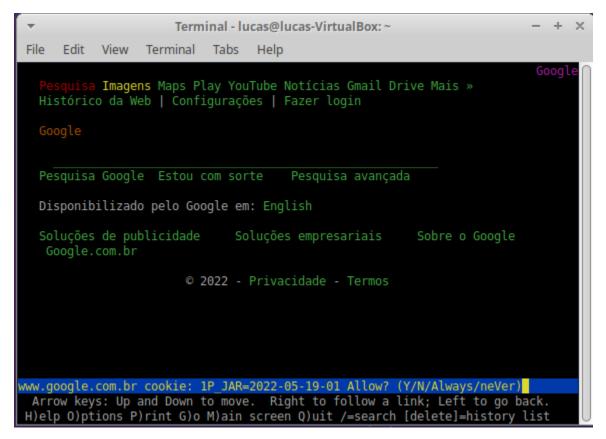
lucas@Jucas-VirtualBox:~$ telnet www.vivas.eng.br 80

Trying 92.242.140.6...
Connected to www.vivas.eng.br.
Escape character is '^]'.

^CConnection closed by foreign host.
lucas@Jucas-VirtualBox:~$

I
```

### Comando: lynx \$SITE\_ANDRESS



# Capítulo 10

Comando: apt update

```
Terminal - lucas@lucas-VirtualBox: ~
          View
                 Terminal Tabs Help
lucas@lucas-VirtualBox:~$ sudo apt update
Hit:1 http://br.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://br.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://br.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1.7
94 kB1
Get:6 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1.45]
Get:7 http://br.archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [652
Get:8 http://br.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [330
kB]
Get:9 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metada
ta [278 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/main i386 Packages [434
Get:11 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metada
ta [15,2 kB]
Get:12 http://br.archive.ubuntu.com/ubuntu focal-updates/restricted i386 Package
s [24,3 kB]
Get:13 http://br.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packag
es [976 kB]
Get:14 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [250
```

#### Comando: apt list --upgradable

```
Terminal - lucas@lucas-VirtualBox: ~
 File
      Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ apt list --upgradable
Listing... Done
alsa-ucm-conf/focal-updates,focal-updates 1.2.2-lubuntu0.13 all [upgradable from
: 1.2.2-1ubuntu0.11]
apport-gtk/focal-updates,focal-updates,focal-security,focal-security 2.20.11-0ub
untu27.24 all [upgradable from: 2.20.11-0ubuntu27.21]
apport/focal-updates,focal-updates,focal-security,focal-security 2.20.11-0ubuntu
27.24 all [upgradable from: 2.20.11-0ubuntu27.21]
apt-utils/focal-updates 2.0.8 amd64 [upgradable from: 2.0.6]
apt/focal-updates 2.0.8 amd64 [upgradable from: 2.0.6]
bash/focal-updates,focal-security 5.0-6ubuntul.2 amd64 [upgradable from: 5.0-6ub
untu1.11
bind9-dnsutils/focal-updates,focal-security 1:9.16.1-0ubuntu2.10 amd64 [upgradab
le from: 1:9.16.1-0ubuntu2.9]
bind9-host/focal-updates,focal-security 1:9.16.1-0ubuntu2.10 amd64 [upgradable :
rom: 1:9.16.1-0ubuntu2.9]
bind9-libs/focal-updates,focal-security 1:9.16.1-Oubuntu2.10 amd64 [upgradable f
rom: 1:9.16.1-0ubuntu2.9]
bolt/focal-updates 0.9.1-2~ubuntu20.04.1 amd64 [upqradable from: 0.8-4ubuntu1]
command-not-found/focal-updates,focal-updates 20.04.6 all [upgradable from: 20.0
4.5]
dbus-user-session/focal-updates,focal-security 1.12.16-2ubuntu2.2 amd64 [upgrada
ble from: 1.12.16-2ubuntu2.1]
dbus-x11/focal-updates,focal-security 1.12.16-2ubuntu2.2 amd64 [upgradable from:
```

#### Comando: apt upgrade

```
Terminal - lucas@lucas-VirtualBox: ~
 File
      Edit
          View
                  Terminal Tabs Help
lucas@lucas-VirtualBox:~$ apt upgrade
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission d
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are y
lucas@lucas-VirtualBox:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
 libfwupdplugin1
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
 libfwupdplugin5 libopengl0
The following packages will be upgraded:
  alsa-ucm-conf apport apport-gtk apt apt-utils bash bind9-dnsutils bind9-host
  bind9-libs bolt command-not-found dbus dbus-user-session dbus-x11
  distro-info-data dnsmasq-base firefox fonts-opensymbol fwupd fwupd-signed
  gir1.2-gtk-3.0 gir1.2-javascriptcoregtk-4.0 gir1.2-polkit-1.0
  girl.2-webkit2-4.0 gtk-update-icon-cache gvfs gvfs-backends gvfs-common
  gvfs-daemons gvfs-fuse gvfs-libs gzip klibc-utils libapt-pkg6.0 libarchivel3
  libc-bin libcurl3-gnutls libcurl4 libdbus-1-3 libdrm-amdgpul libdrm-common
  libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libdrm2 libegl-mesa0 libegl1
```

#### Comando: dnf install Ishw

```
Terminal - Jucas@Jucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ dnf install lshw

Command 'dnf' not found, did you mean:

command 'df' from deb coreutils (8.30-3ubuntu2)

Try: sudo apt install <deb name>

lucas@lucas-VirtualBox:~$ sudo dnf install lshw

[sudo] password for lucas:
sudo: dnf: command not found

lucas@lucas-VirtualBox:~$ |
```

# Capítulo 14

#### Comando: uname

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ uname -a
Linux lucas-VirtualBox 5.13.0-41-generic #46~20.04.1-Ubuntu SMP Wed Apr 20 13:16
:21 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
lucas@Jucas-VirtualBox:~$ uname -r
5.13.0-41-generic
lucas@Jucas-VirtualBox:~$ uname -s
Linux
lucas@Jucas-VirtualBox:~$ uname -n
lucas-VirtualBox
lucas@Jucas-VirtualBox:~$ uname -v
#46~20.04.1-Ubuntu SMP Wed Apr 20 13:16:21 UTC 2022
lucas@Jucas-VirtualBox:~$
```

## Comando: head -n1 /etc/issue

```
Terminal - lucas@lucas-VirtualBox:~ - + x

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:-$ head -n1 /etc/issue

Ubuntu 20.04.4 LTS \n \l
lucas@lucas-VirtualBox:-$

I
```

### Comando: Iscpu

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ lscpu
Architecture:
                                 x86 64
CPU op-mode(s):
                                 32-bit, 64-bit
Byte Order:
                                 Little Endian
                                 39 bits physical, 48 bits virtual
Address sizes:
CPU(s):
On-line CPU(s) list:
                                 0,1
Thread(s) per core:
Core(s) per socket:
Socket(s):
NUMA node(s):
Vendor ID:
                                 GenuineIntel
CPU family:
Model:
                                 61
Model name:
                                 Intel(R) Core(TM) i7-5500U CPU @ 2.40GHz
Stepping:
CPU MHz:
                                 2394.454
BogoMIPS:
                                 4788.90
Hypervisor vendor:
                                 KVM
Virtualization type:
                                 full
L1d cache:
                                 64 KiB
Lli cache:
                                 64 KiB
L2 cache:
                                 512 KiB
L3 cache:
                                 8 MiB
```

# Comando: grep "model name" /proc/cpuinfo

```
Terminal - Jucas@Jucas-VirtualBox:~ - + X

File Edit View Terminal Tabs Help

lucas@Jucas-VirtualBox:~$ grep "model name" /proc/cpuinfo
model name : Intel(R) Core(TM) i7-5500U CPU @ 2.40GHz
model name : Intel(R) Core(TM) i7-5500U CPU @ 2.40GHz
lucas@Jucas-VirtualBox:~$

Lucas@Jucas-VirtualBox:~$
```

### Comando: Isusb

```
Terminal - Jucas@Jucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ lsusb

Bus 001 Device 002: ID 80ee:0021 VirtualBox USB Tablet

Bus 001 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub

lucas@lucas-VirtualBox:~$
```

#### Comando: Ispci

```
Terminal - lucas@lucas-VirtualBox: ~
 File
      Edit View
                   Terminal
                                     Help
lucas@lucas-VirtualBox:~$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controll
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Contr
oller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Cont
roller [AHCI mode] (rev 02)
lucas@lucas-VirtualBox:~$
```

### Comando: Isblk

```
Terminal - lucas@lucas-VirtualBox:~ - + ×

File Edit View Terminal Tabs Help

lucas@lucas-VirtualBox:~$ lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 150G 0 disk

-sda1 8:1 0 2,3G 0 part [SWAP]
-sda2 8:2 0 147,7G 0 part /

sr0 11:0 1 58,7M 0 rom

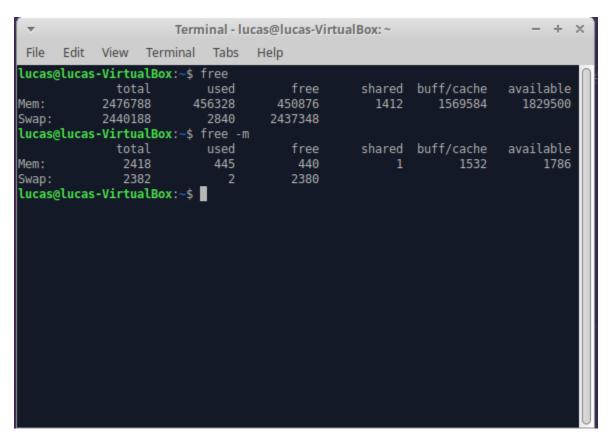
lucas@lucas-VirtualBox:~$
```

# Comando: cat /proc/partitions

#### Comando: fdisk -l

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ sudo fdisk -l
[sudo] password for lucas:
Disk /dev/sda: 150 GiB, 161061273600 bytes, 314572800 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x6c1cf350
Device
           Boot Start
                                                 Size Id Type
                            End Sectors
                  2048 4882431 4880384 2,3G 82 Linux swap / Solaris
/dev/sdal
/dev/sda2 * 4882432 314570751 309688320 147,7G 83 Linux lucas@lucas-VirtualBox:~$ ■
```

## Comando: free

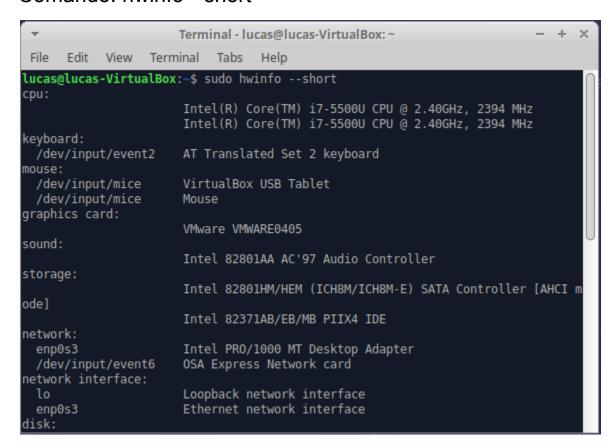


### Comando: dmidecode -t 17

#### Comando: hwinfo

```
Terminal - lucas@lucas-VirtualBox: ~
 File Edit View Terminal Tabs Help
 SysFS ID: /class/net/lo
  Hardware Class: network interface
  Model: "Loopback network interface"
  Device File: lo
  Link detected: yes
  Config Status: cfg=new, avail=yes, need=no, active=unknown
32: None 00.0: 10701 Ethernet
  [Created at net.126]
  Unique ID: wbsj.ndpeucax6V1
  Parent ID: Fybr.GkSpXDNdaaB
  SysFS ID: /class/net/enp0s3
  SysFS Device Link: /devices/pci0000:00/0000:00:03.0
  Hardware Class: network interface
  Model: "Ethernet network interface"
Driver: "e1000"
  Driver Modules: "e1000"
  Device File: enp0s3
  HW Address: 08:00:27:06:27:4d
  Permanent HW Address: 08:00:27:06:27:4d
  Link detected: yes
  Config Status: cfg=new, avail=yes, need=no, active=unknown Attached to: #15 (Ethernet controller)
lucas@lucas-VirtualBox:~$
```

#### Comando: hwinfo --short



# Comando: eject

#### Comando: wget --recursive \$SITE\_ANDRESS

```
Terminal - lucas@lucas-VirtualBox: ~
 File
     Edit View Terminal Tabs Help
lucas@lucas-VirtualBox:~$ wget --recursive www.google.com
--2022-05-18 22:22:34-- http://www.google.com/
Resolving www.google.com (www.google.com)... 142.250.79.196, 2800:3f0:4001:808::
Connecting to www.google.com (www.google.com)|142.250.79.196|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'www.google.com/index.html'
www.google.com/inde [ <=>
                                           ] 14,18K --.-KB/s in 0,001s
2022-05-18 22:22:34 (14,3 MB/s) - 'www.google.com/index.html' saved [14518]
Loading robots.txt; please ignore errors.
--2022-05-18 22:22:34-- http://www.google.com/robots.txt
Reusing existing connection to www.google.com:80.
HTTP request sent, awaiting response... 200 OK
Length: 7221 (7,1K) [text/plain]
Saving to: 'www.google.com/robots.txt'
www.google.com/robo 100%[============>] 7,05K --.-KB/s in 0,002s
2022-05-18 22:22:34 (3,21 MB/s) - 'www.google.com/robots.txt' saved [7221/7221]
```