Trabalho 1 - Sistemas Embarcados 2

Aluno: Thiago Fernando Cuevas Mestanza

N: 11821EAU002

Comandos:

Echo \$SHELL

```
Terminal - feelt@ca; ~ − + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ echo $SHELL
/bin/bash
feelt@ca:~$ ■
```

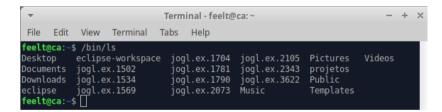
Echo /cat/shells

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ cat/etc/shells
bash: cat/etc/shells: No such file or directory
feelt@ca:~$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/bin/rbash
/bin/rbash
/bin/screen
feelt@ca:~$ [
```

/bin/ls



- Clear
- Echo/teste

```
Terminal - feelt@ca:~ - + X

File Edit View Terminal Tabs Help

feelt@ca:~$ echo teste

teste
feelt@ca:~$ [
```

• echo -e " string1 \ tstring2 \ nstring3 "

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ echo -e " string1 \ tstring2 \ nstring3 "

string1 \ tstring2 \ nstring3

feelt@ca:~$ [
```

clrt R

```
▼ Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

(reverse-i-search)`':
```

history

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

775 echo $SHELL
776 clear
777 echo $SHELL
778 clear
779 cat/etc/shells
780 cat /etc/shells
781 /bin/ls
782 ls
783 clear
784 /bin/ls
785 echo teste
786 echo oi thiago
787 clear
788 echo teste
789 clear
790 cls
791*
792 *echo -e " stringl \ tstring2 \ nstring3 "
793 echo -e " stringl \ tstring2 \ nstring3 "
794 clear
795 echo -e " stringl \ tstring2 \ nstring3 "
796 clear
797 history

feelt@ca:~$
```

• !4

```
feelt@ca:~$!4

ls
Desktop eclipse-workspace jogl.ex.1704 jogl.ex.2105 Pictures Videos
Documents jogl.ex.1502 jogl.ex.1781 jogl.ex.2343 projetos
Downloads jogl.ex.1534 jogl.ex.1790 jogl.ex.3622 Public
eclipse jogl.ex.1569 jogl.ex.2073 Music Templates
feelt@ca:-$
```

• History | grep echo

```
feelt@ca:~$ history | grep echo
510 echo $PATH
777 history | grep echo teste
778 history | grep echo
feelt@ca:~$ ☐
```

• History -c

```
Terminal - feelt@ca:~ - + X

File Edit View Terminal Tabs Help

feelt@ca:~$ history -c
feelt@ca:~$ history
    1 history
feelt@ca:~$ [
```

echo \$HITSIZE

```
feelt@ca:~$ echo $HISTSIZE
1000
feelt@ca:~$ [
```

export HITSIZE=1500

```
feelt@ca:-$ export HISTSIZE=1500
feelt@ca:-$ echo $HISTSIZE
1500
feelt@ca:-$ [
```

cat ~/. Bash_history

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

dir
cd GatewayModbus/
dir
cd qmodbus-master/
dir
./qmodbus
ssh - X root@192.168.7.2
ssh - X 192.168.7.2
ssh - X root@192.168.7.2
dir
ssh - X root@192.168.7.2
dir
cd Documents/
dir
cd GatewayModbus/
dir
cd GatewayModbus/
dir
cd qmodbus-master/
dir
cd build/
```

sudo apt install vim

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

cd ..

file Edit View Terminal Tabs Help

cd ..

gir ssh .X root@192.168.7.2

python --version

ssh .X root@192.168.7.2

ssh .X root@192.168.7.2

feelt@ca:~ cat /. Bash history

cat: /home/feelt/.: Is a directory

cat: /home/feelt/.: Done

Buldding package lists... Done

Buldding dependency tree

Reading state information... Done

The following additional packages will be installed:

vin-common vim-runtime vim-tiny

Suggested packages:

ctags vim-doc vim-scripts indent

The following NEW packages will be installed:

vin vin-runtime

The following packages will be upgraded:

vin-common vim-tiny

2 upgraded, 2 newly installed, 0 to remove and 622 not upgraded.

Need to get 7, 136 kB of archives.

After this operation, 32.0 MB of additional disk space will be used.

Do you want to continue? IY/n) Y

Get: 1 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 vim-runtime all 2:8.0.1453-1ubuntul.8 [71.1 kB]

Get: 2 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 vim-runtime all 2:8.0.1453-1ubuntul.8 [71.1 kB]

Get: 3 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 vim-runtime all 2:8.0.1453-1ubuntul.8 [5,43 5 kB]

Ols [3 vim-runtime 3,973 kB/5,435 kB 73%]
```

Capitulo 2

Logout/exit

```
▼ Terminal - feelt@ca: ~ - + ×

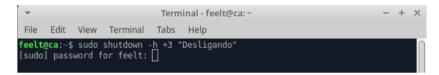
File Edit View Terminal Tabs Help

feelt@ca: ~$ logout
bash: logout: not login shell: use `exit'
feelt@ca: ~$ exit
```

Shutdown -h now



Sudo shutdown -h +3 "Desligando "



Sudo shutdown -h 10:10 "Desligando"

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:-$ sudo shutdown -h +3 "Desligando"

[sudo] password for feelt:
feelt@ca:-$ sudo shutdown -h 15:25 "desligando"

[sudo] password for feelt:
```

• Sudo shutdown -c

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:-$ sudo shutdown -h +3 "Desligando"
[sudo] password for feelt:
feelt@ca:-$ sudo shutdown -h 15:25 "desligando"
[sudo] password for feelt:
feelt@ca:-$ sudo shutdown -h 15:30 "desligando"
[sudo] password for feelt:
Shutdown scheduled for Thu 2022-05-19 15:30:00 -03, use 'shutdown -c' to cancel.
feelt@ca:-$ shutdown -c
feelt@ca:-$ shutdown -c
```

Sudo reboot

```
▼ Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ sudo reboot
```

Sudo shutdown -r +3 "Reboot em 3 minutos"

```
Terminal -feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ sudo shutdown -r +3 "reboot em 3 minutos"

[sudo] password for feelt:

Shutdown scheduled for Thu 2022-05-19 15:41:38 -03, use 'shutdown -c' to cancel.

feelt@ca:~$ shutdown -c

feelt@ca:~$ [
```

Capitulo 3

Ls

```
Terminal - feelt@ca: ~ − + ×

File Edit View Terminal Tabs Help

feelt@ca: ~ $ ls

Desktop eclipse-workspace jogl.ex.1704 jogl.ex.2105 Pictures Videos

Documents jogl.ex.1502 jogl.ex.1781 jogl.ex.2343 projetos

Downloads jogl.ex.1534 jogl.ex.1790 jogl.ex.3622 Public

eclipse jogl.ex.1569 jogl.ex.2073 Music Templates

feelt@ca: ~ $ □
```

• Ls -1

```
feelt@ca:~$ |s -1
Desktop
Documents
Downloads
eclipse
eclipse
eclipse.workspace
jogl.ex.1502
jogl.ex.1534
jogl.ex.1569
jogl.ex.1794
jogl.ex.1781
jogl.ex.1790
jogl.ex.2073
jogl.ex.2073
jogl.ex.2343
jogl.ex.2343
jogl.ex.3622
Music
Pictures
projetos
Public
Templates
Videos
feelt@ca:~$
```

• Ls -l

```
File Edit View Terminal Tabs Help

feelt@ca:~$ ls -l
total 124
drwxr-xr-x 5 feelt feelt 4096 May 14 18:38 Desktop
drwxr-xr-x 5 feelt feelt 4096 Sep 24 2021 Documents
drwxr-xr-x 5 feelt feelt 4096 May 14 18:47 Downloads
drwxrwxr-x 3 feelt feelt 4096 Sep 26 2021 eclipse
drwxrwxr-x 7 feelt feelt 4096 Sep 26 2021 eclipse
drwxrwxr-x 7 feelt feelt 503 Aug 17 2018 jogl.ex.1502
-rw-rw-r-- 1 feelt feelt 503 Aug 17 2018 jogl.ex.1534
-rw-rw-r-- 1 feelt feelt 503 Aug 17 2018 jogl.ex.1569
-rw-rw-r-- 1 feelt feelt 503 Aug 17 2018 jogl.ex.1704
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.1704
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.1790
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.2073
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.2073
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.2043
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.2043
-rw-rw-r-- 1 feelt feelt 8463 Aug 17 2018 jogl.ex.2043
-rw-rw-r-- 1 feelt feelt 4096 Aug 16 2018 Music
drwxr-xr-x 2 feelt feelt 4096 Sep 12 2018 projetos
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Public
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
drwxr-xr-x 2 feelt feelt 4096 Aug 16 2018 Templates
```

Ls -ld/pasta especifica

```
feelt@ca:~/Documents$ ls -ld
drwxr-xr-x 6 feelt feelt 4096 Sep 24 2021 .
feelt@ca:~/Documents$ [
```

Ls -all

• Is -ld .?*

```
🔔 🖇 👣 🕢 🕪 19 May, 15:55 🐟
Terminal - feelt@ca: ~
                                                                     Terminal - feelt@ca: ~
 File Edit View Terminal Tabs Help
feelt@ca:~$ ls -ld
drwxr-xr-x
                 3 root
                              root
                  1 feelt feelt 12004 May 19 15:28 .bash_histor
1 feelt feelt 220 Aug 16 2018 .bash_logout
                                                                     .bash_history
-rw-r--r-- 1 feelt feelt
drwxrwxr-x 19 feelt feelt
                                         3771 Aug 16
                                         4096 May 19 15:33
drwxr-xr-x 21 feelt feelt
-rw-r--r-- 1 feelt feelt
drwxrwxr-x 6 feelt feelt
                                         4096 May
                                            26 Aug 16
                                         4096 Sep 26
                 2 feelt feelt
3 feelt feelt
                                         4096 Dec 16 21:20 .gconf
drwx----
                                         4096 Jun 16 2021
drwx----- 3 feelt feelt
-rw----- 1 feelt feelt
drwxrwxr-x 3 feelt feelt
drwxr-xr-x 3 feelt feelt
                                         4096 Aug 16
                                                       19 15:32 .ICEauthority
                                         9092 May
                                         4096 Aug 16
                                         4096 Aug 16
                  3 feelt feelt
                                         4096 Aug
drwxrwxr-x
                     feelt feelt
                                         4096 Aug 17
drwx-----
                                         4096 Sep 26
4096 Dec 12
                 6 feelt feelt
3 feelt feelt
1 feelt feelt
2 feelt feelt
2 feelt feelt
drwxrwxr-x
drwx----
                                         4096 Sep 24
4096 Jul 18
                                                             2021 .putty
2021 .ssh
drwx-----
drwx----
                     feelt feelt
feelt feelt
                                         4096 Aug 17
                                             0 Aug 16
                                                                     .sudo as admin successful
                 2 feelt feelt
3 feelt feelt
3 feelt feelt
                                         4096 Sep 26
drwxrwxr-x
                                         4096 Aug 16
                                         4096 Sep 12
drwxrwxr-x
                                                             2018 .vsco
                                         98 May 19 15:32 .Xauthority
1600 Aug 16 2018 .Xdefaults
14 Aug 16 2018 .xscreensaver
6715 May 19 15:55 .xsession-errors
6695 May 19 15:28 .xsession-errors.old
                     feelt feelt
                     feelt feelt
feelt feelt
feelt feelt
-rw----- 1
feelt@ca:~$
```

Ls -F

```
projetos
                                                  jogl.ex.2073
                       .ICEauthority
                                                  jogl.ex.2343
jogl'.ex.1781
.Xdefaults
                                                  .gnupg
                       jogl.ex.1502
                                                                                                            jogl.ex.1704
                                                                                    .java
.oracle_jre_usage
                       .matlab
.bashrc
Downloads
                                                  .xsession-errors
                                                                                    Templates
                       .xsession-errors.old
                                                                                    Music
                                                  .gnome
                                                  .thumbnails
                                                  .gconf
Videos
                       Public
                                                                                                            subversion
jogl.ex.1569´
feelt@ca:~$ 🏻
                      Desktop
```

Ls -s

```
      feelt@ca:~$ ls -s

      total 124

      4 Desktop
      4 eclipse-workspace
      8 jogl.ex.1704
      8 jogl.ex.2105
      4 Pictures
      4 Videos

      4 Documents
      4 jogl.ex.1502
      4 jogl.ex.1781
      12 jogl.ex.2343
      4 projetos

      4 Downloads
      8 jogl.ex.1534
      12 jogl.ex.1790
      8 jogl.ex.3622
      4 Public

      4 eclipse
      4 jogl.ex.1569
      12 jogl.ex.2073
      4 Music
      4 Templates

      feelt@ca:~$ □
```

Ls -alF

```
Terminal - feelt@ca: ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     - + ×
     File Edit View Terminal Tabs Help
  feelt@ca:~$ ls -alF
total 276
total 276
drwxr-xr-x 32 feelt feelt 4096 May 19 15:32 ./
drwxr-xr-x 3 root root 4096 Aug 16 2018 ../
-rw------ 1 feelt feelt 12004 May 19 15:28 .bash_history
-rw-r--r-- 1 feelt feelt 220 Aug 16 2018 .bash_logout
-rw-r--r-- 1 feelt feelt 3771 Aug 16 2018 .bash_clogout
-rw-r--r-- 1 feelt feelt 4096 May 19 15:33 .cache/
drwxr-xr-x 21 feelt feelt 4096 May 19 15:33 .cache/
drwxr-xr-x 5 feelt feelt 4096 May 14 18:49 .config/
drwxr-xr-x 5 feelt feelt 4096 May 14 18:49 .config/
drwxr-xr-x 6 feelt feelt 4096 Sep 24 2021 Documents/
drwxr-xr-x 5 feelt feelt 4096 Sep 24 2021 Documents/
drwxrwxr-x 3 feelt feelt 4096 Sep 26 2021 eclipse/
drwxrwxr-x 7 feelt feelt 4096 Sep 26 2021 eclipse/
drwxr-xr-x 2 feelt feelt 4096 Sep 26 2021 eclipse/
drwxrwxr-x 3 feelt feelt 4096 Sep 26 2021 eclipse/
drwxr-xr-- 2 feelt feelt 4096 Dec 16 21:20 .gconf/
drwx----- 3 feelt feelt 4096 Jun 16 2021 .gnome/
drwxr-xr-x 6 feelt feelt drwxr-xr-x 5 feelt feelt drwxrwxr-x 3 feelt feelt drwxrwxr-x 6 feelt feelt drwxrwxr-x 7 feelt feelt drwxrwxr-x 7 feelt feelt drwx----- 7
                                                                                                                    4096 Jun 16
                                                   3 feelt feelt
1 feelt feelt
2 feelt feelt
1 feelt feelt
1 feelt feelt
1 feelt feelt
                                                                                                                   4096 Aug 16 2018 .gnupg/
9092 May 19 15:32 .ICEauthority
4096 Aug 16 2018 .java/
503 Aug 17 2018 jogl.ex.1502
7960 Aug 17 2018 jogl.ex.1534
                                                                                                                                                                         15:32 .ICEauthority

2018 .java/

2018 jogl.ex.1502

2018 jogl.ex.1569

2018 jogl.ex.1704

2018 jogl.ex.1790

2018 jogl.ex.1790

2018 jogl.ex.2073

2018 jogl.ex.2105

2018 jogl.ex.2343

2018 jogl.ex.3622

2018 .local/
     rwxrwxr-x
                                                                                                                   7960 Aug
503 Aug
      rw-rw-r--
                                                                                                                   7960 Aug 17
503 Aug 17
7960 Aug 17
503 Aug 17
8463 Aug 17
                                                    1 feelt feelt
1 feelt feelt
1 feelt feelt
                                                                                                                   8463 Aug
      rw-rw-r--
                                                           feelt feelt
feelt feelt
                                                                                                                    7960 Aug
     -rw-rw-r--
                                                                                                                    8463 Aug
                                                            feelt feelt
feelt feelt
                                                                                                                    7960 Aug
                                                                                                                                                                          2018 .local/
2018 .matlab/
2018 .mozilla/
2018 Music/
                                                                                                                   4096 Aug
                                                   3 feelt feelt
5 feelt feelt
2 feelt feelt
   drwxrwxr-x
                                                                                                                   4096 Aug
                                                                                                                   4096 Aug
4096 Aug
   drwx----
                                                                                                                     4096
```

Cd

```
feelt@ca:~$ cd Downloads
feelt@ca:~/Downloads$ [
```

Cd ~

```
feelt@ca:~$ cd Downloads
feelt@ca:~/Downloads$ cd ~
feelt@ca:~$ [
```

• Echo ~

```
feelt@ca:~/Downloads$ echo ~
/home/feelt
feelt@ca:~/Downloads$ []
```

• Ls –la.

• Ls -F ..

```
feelt@ca:~/Downloads$ ls -F .

arduino-1.8.15/
arduino-1.8.15-linux64.tar.xz
code_1.27.1-1536226049_amd64.deb
codeblocks_20.03_amd64_oldstable/
codeblocks_20.03_amd64_oldstable.tar.xz
feelt@ca:~/Downloads$ []

demo.c*
eclipse-installer/
eclipse-inst-jre-linux64.tar.gz
opera-stable_86.0.4363.59_amd64.deb
porttcp.c*
```

• Cd ..

```
feelt@ca:~/Downloads$ cd ..
feelt@ca:~$ [
```

Pwd

```
feelt@ca:~$ pwd
/home/feelt_
```

- Cp
- Cp -r
- Rename

Touch

```
feelt@ca:~/Documents$ touch teste.txt
feelt@ca:~/Documents$ [
```

Mktemp

```
feelt@ca:~/Documents$ TMPFILE=$(mktemp)
feelt@ca:~/Documents$ echo $TMPFILE
/tmp/tmp.JHbcV8Yv2C
```

rm arquivo

```
- + \times
                       Terminal - feelt@ca: ~/Documents
      Edit View Terminal
                          Tabs Help
feelt@ca:~/Documents$ dir
arduino-1.8.15-linux64.tar.xz GatewayModbus RFF1 teste
                                             SDCA teste.txt
file.txt
                              IESCA
feelt@ca:~/Documents$ rm file.txt
feelt@ca:~/Documents$ dir
arduino-1.8.15-linux64.tar.xz IESCA SDCA
                                            teste.txt
GatewayModbus
                              RFF1
                                     teste
feelt@ca:~/Documents$
```

• Rm -R diretório

```
feelt@ca:~/Documents$ rm -R teste.txt
feelt@ca:~/Documents$ dir
arduino-1.8.15-linux64.tar.xz GatewayModbus IESCA RFF1 SDCA teste
feelt@ca:~/Documents$ ■
```

Rmdir

```
feelt@ca:~/Documents$ dir
arduino-1.8.15-linux64.tar.xz GatewayModbus IESCA RFF1 SDCA teste
feelt@ca:~/Documents$ rmdir teste
feelt@ca:~/Documents$ dir
arduino-1.8.15-linux64.tar.xz GatewayModbus IESCA RFF1 SDCA
feelt@ca:~/Documents$
```

• Mkdir -p temp/temp1/tempdir

Capitulo 4

Echo

```
▼ Terminal-feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ echo 'ola thiago'
ola thiago
feelt@ca:~$ ■
```

Cat

```
feelt@ca:~/Documents/GatewayModbus/LINUXTCP$ dir
demo.c demo.o Makefile Makefile.bkp Modbus port SlaveModbus
feelt@ca:~/Documents/GatewayModbus/LINUXTCP$ cat demo.c
/*
    * FreeModbus Libary: Win32 Demo Application
    * Copyright (C) 2006 Christian Walter <wolti@sil.at>
    *
    * This library is free software; you can redistribute it and/or
    * modify it under the terms of the GNU Lesser General Public
    * License as published by the Free Software Foundation; either
    * version 2.1 of the License, or (at your option) any later version.
    *
    * This library is distributed in the hope that it will be useful,
    * but WITHOUT ANY WARRANTY; without even the implied warranty of
    * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    * Lesser General Public License for more details.
    * You should have received a copy of the GNU Lesser General Public
    * License along with this library; if not, write to the Free Software
    * Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
    *
    * File: $Id: demo.c,v 1.1 2007/09/12 10:15:56 wolti Exp $
```

Seq

```
▼ Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ seq 10

1

2

3

4

5

6

7

8

9

10

feelt@ca:~$ ■
```

- Expand
- Tr
- Fmt

```
feelt@ca:~/Desktop$ fmt teste.txt
Antes da chegada dos colonizadores portgueses no Brasil...
feelt@ca:~/Desktop$
```

Fold

```
feelt@ca:~/Desktop$ fold -w 10 teste.txt
Antes da c
hegada dos
colonizad
ores portg
ueses no B
rasil...feelt@ca:~/Desktop$
```

Grep

```
feelt@ca:~/Desktop$ cat teste.txt | grep Brasil
Antes da chegada dos colonizadores portgueses no Brasil...
feelt@ca:~/Desktop$
```

Egrep

```
feelt@ca:~/Desktop$ dmesg | egrep " firmware | Brasild"
feelt@ca:~/Desktop$ dmesg | egrep " portugueses | Brasil"
feelt@ca:~/Desktop$ dmesg | egrep " Alemanha | Brasil"
feelt@ca:~/Desktop$ dmesg | egrep " Alemanha | Brasil"
```

• Fgrep

```
feelt@ca:~/Desktop$ dmesg | fgrep "@"
    0.000000] Linux version 4.15.0-34-generic (buildd@lgw01-amd64-047) (gcc ver
sion 7.3.0 (Ubuntu 7.3.0-16ubuntu3)) #37-Ubuntu SMP Mon Aug 27 15:21:48 UTC 2018
(Ubuntu 4.15.0-34.37-generic 4.15.18)
    0.000000] percpu: Embedded 46 pages/cpu @
                                                    (ptrval) s151552 r8192 d28
672 u262144
    0.081355] smpboot: CPU0: Intel(R) Core(TM) i5-4210U CPU @ 1.70GHz (family:
0x6, model: 0x45, stepping: 0x1)
    2.967821] agpgart-intel 0000:00:00.0: AGP aperture is 256M @ 0x0
    3.061582] device-mapper: ioctl: 4.37.0-ioctl (2017-09-20) initialised: dm-d
evel@redhat.com
    4.281196] ata3: SATA max UDMA/133 abar m4096@0xfd5ee000 port 0xfd5ee100 irg
57
    4.281198] ata4: SATA max UDMA/133 abar m4096@0xfd5ee000 port 0xfd5ee180 irq
    4.281199] ata5: SATA max UDMA/133 abar m4096@0xfd5ee000 port 0xfd5ee200 irg
    4.281201] ata6: SATA max UDMA/133 abar m4096@0xfd5ee000 port 0xfd5ee280 irg
```

Head

```
feelt@ca:~/Desktop$ head teste.txt
Antes da chegada dos colonizadores portgueses no Brasil...feelt@ca:~/Desktop$ ■
```

Tail

```
feelt@ca:~/Desktop$ tail teste.txt
Antes da chegada dos colonizadores portgueses no Brasil...feelt@ca:~/Desktop$ []
```

• File

```
feelt@ca:~/Desktop$ file teste.txt
teste.txt: ASCII text, with no line terminators
feelt@ca:~/Desktop$
```

Look

```
▼ Terminal - feelt@ca: ~/Desktop — + ×

File Edit View Terminal Tabs Help

feelt@ca: ~/Desktop$ look Brasil teste.txt

feelt@ca: ~/Desktop$
```

• More

```
Terminal - feelt@ca: ~/Desktop — + ×

File Edit View Terminal Tabs Help

feelt@ca: ~/Desktop$ more teste.txt

Antes da chegada dos colonizadores portgueses no Brasil...

feelt@ca: ~/Desktop$
```

nl

```
▼ Terminal - feelt@ca: ~/Desktop − + ×

File Edit View Terminal Tabs Help

feelt@ca: ~/Desktop$ more teste.txt

Antes da chegada dos colonizadores portgueses no Brasil...

feelt@ca: ~/Desktop$ nl teste.txt

1 Antes da chegada dos colonizadores portgueses no Brasil...

2 0 Brasil eh um pais maravilhoso...

feelt@ca: ~/Desktop$
```

Paste

```
File Edit View Terminal Tabs Help

feelt@ca:~/Desktop$ cat teste.txt

Antes da chegada dos colonizadores portgueses no Brasil...

0 Brasil eh um pais maravilhoso...feelt@ca:~/Desktop$
feelt@ca:~/Desktop$ cat teste2.txt

A alemanha ganhou do Brasil de 7x1 feelt@ca:~/Desktop$ paste teste.txt teste2.txt

Antes da chegada dos colonizadores portgueses no Brasil... A alemanha ganhou do Brasil de 7x1

0 Brasil eh um pais maravilhoso...
feelt@ca:~/Desktop$
```

rev

Sort

```
feelt@ca:~/Desktop$ cat teste.txt | sort -n
Antes da chegada dos colonizadores portgueses no Brasil...
D Brasil eh um pais maravilhoso...
feelt@ca:~/Desktop$ ■
```

• Uniq

```
feelt@ca:~/Desktop$ uniq -c teste.txt
    1 Antes da chegada dos colonizadores portgueses no Brasil...
    1 O Brasil eh um pais maravilhoso...
feelt@ca:~/Desktop$ ■
```

• Wc

```
feelt@ca:~/Desktop$ wc teste.txt
1 14 93 teste.txt
feelt@ca:~/Desktop$ ■
```

CAPITULO 5

· Compgen.

```
Terminal - feelt@ca: ~/Desktop
                                                                                                                     - +
 File Edit View Terminal Tabs Help
udisksctl
psfxtable
xkbevd
chardetect3
xfce4-dict
xsetpointer
check-language-support
leaftoppm
arm-linux-gnueabihf-readelf
gpgv
pbmlife
setfacl
synclient
lsns
ppm3d
lzless
ppmtopgm
ppmquant
arm-linux-gnueabi-strings
pbmtog3
lintian-info
ps2pdfwr
.
systemd-mount
xfce4-terminal
```

Whoami

```
Terminal - feelt@ca: ~/Desktop — + ×

File Edit View Terminal Tabs Help

feelt@ca: ~/Desktop$ whoami
feelt
feelt@ca: ~/Desktop$
```

Passwd

```
feelt@ca:~/Desktop$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
news:x:9:9:news:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106::/home/syslog:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
```

Id

```
Terminal - feelt@ca: ~/Desktop — + ×
File Edit View Terminal Tabs Help

feelt@ca: ~/Desktop$ id
uid=1000(feelt) gid=1000(feelt) groups=1000(feelt),4(adm),5(tty),20(dialout),24(cdrom),27(sudo),30(dip),
46(plugdev),118(lpadmin),126(sambashare)
feelt@ca: ~/Desktop$
```

Finger

```
feelt@ca:~$ finger root
Login: root
Directory: /root
Never logged in.
No mail.
No Plan.
feelt@ca:~$ ■
```

Free

• Su

```
feelt@ca:~$ su -
Password:
root@ca:~#
```

Uname

```
▼ Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ uname -s

Linux
feelt@ca:~$
```

Uptime

```
▼ Terminal - feelt@ca: ~ - ÷ ×

File Edit View Terminal Tabs Help

feelt@ca:~$ uptime
22:39:55 up 1:43, 1 user, load average: 0.00, 0.02, 0.00

feelt@ca:~$ □
```

Lss –version

```
Terminal - feelt@ca;~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ ls --version
ls (GNU coreutils) 8.28

Copyright (C) 2017 Free Software Foundation, Inc.

License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>.

This is free software: you are free to change and redistribute it.

There is NO WARRANTY, to the extent permitted by law.

Written by Richard M. Stallman and David MacKenzie.

feelt@ca:~$
```

Timeout

```
File Edit View Terminal Tabs Help

feelt@ca:~$ timeout ping www.google.com.br
timeout: invalid time interval 'ping'
Try 'timeout --help' for more information.
feelt@ca:~$ timeout 5 ping www.google.com
PING www.google.com (142.250.218.228) 56(84) bytes of data.
feelt@ca:~$
```

W

```
Terminal - feelt@ca: ~
File
      Edit View Terminal Tabs
                                  Help
feelt@ca:~$ w
22:43:36 up 1:47, 1 user,
                              load average: 0.00, 0.00, 0.00
                                             IDLE JCPU PCPU WHAT
USER
        TTY
                  FROM
                                    LOGIN@
feelt tty7
feelt@ca:~$ ■
                                    21:05
                                             1:46m 36.91s 0.06s /bin/sh /etc/xd
                  :0
```

Whereis

```
Terminal - feelt@ca: ~ − + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ whereis gcc
gcc: /usr/bin/gcc /usr/lib/gcc /usr/share/man/man1/gcc.1.gz
feelt@ca:~$ ■
```

Locate

```
Terminal - feelt@ca: ~
     Edit View Terminal
                           Tabs Help
feelt@ca:~$ locate passwd
/etc/passwd
/etc/passwd-
/etc/cron.daily/passwd
/etc/pam.d/chpasswd
/etc/pam.d/passwd
/etc/security/opasswd
/snap/core20/1361/etc/passwd
/snap/core20/1361/etc/pam.d/chpasswd
/snap/core20/1361/etc/pam.d/passwd
/snap/core20/1361/etc/security/opasswd
/snap/core20/1361/usr/bin/gpasswd
/snap/core20/1361/usr/bin/passwd
snap/core20/1361/usr/lib/python3/dist-packages/cloudinit/sources/helpers/vmware/
/imc/config passwd.py
/snap/core20/1361/usr/lib/python3/dist-packages/cloudinit/sources/helpers/vmware
/imc/ pycache /config passwd.cpython-38.pyc
/snap/core20/1361/usr/lib/tmpfiles.d/passwd.conf
/snap/core20/1361/usr/sbin/chgpasswd
/snap/core20/1361/usr/sbin/chpasswd
/snap/core20/1361/usr/sbin/update-passwd
/snap/core20/1361/usr/share/base-passwd
/snap/core20/1361/usr/share/base-passwd/group.master
/snap/core20/1361/usr/share/base-passwd/passwd.master
```

Which

```
feelt@ca:~$ which ls
/bin/ls
feelt@ca:~$
```

Whatis

Who

```
Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca: ~$ who
feelt tty7 2022-05-19 21:05 (:0)
feelt@ca: ~$
```

Emacs

```
feelt@ca:~$ emacs &
[1] 2656
feelt@ca:~$
Command 'emacs' not found, but can be installed with:
sudo apt install emacs25
sudo apt install emacs25-nox
sudo apt install e3
sudo apt install emacs25-lucid
sudo apt install jove
```

os

```
- + \times
                              Terminal - feelt@ca: ~
 File
      Edit View Terminal Tabs
                                   Help
feelt@ca:~$ ps -aef
            PID PPID C STIME TTY
                                               TIME CMD
UID
root
                     0 0 20:56 ?
                                           00:00:03 /sbin/init auto noprompt
                     0 0 20:56 ?
root
                                           00:00:00 [kthreadd]
                      2 0 20:56 ?
root
              4
                                           00:00:00 [kworker/0:0H]
                      2 0 20:56 ?
                                           00:00:00 [mm percpu_wq]
root
                                           00:00:00 [ksoftirqd/0]
root
                      2 0 20:56 ?
                     2 0 20:56 ?
2 0 20:56 ?
2 0 20:56 ?
2 0 20:56 ?
root
                                           00:00:01 [rcu sched]
                                           00:00:00 [rcu bh]
root
             10
                                           00:00:00 [migration/0]
root
             11
                                           00:00:00 [watchdog/0]
root
                      2 0 20:56 ?
                                           00:00:00 [cpuhp/0]
root
             13
                      2 0 20:56 ?
                                           00:00:00 [cpuhp/1]
root
                      2 0 20:56 ?
                                           00:00:00 [watchdog/1]
root
             15
                      2 0 20:56 ?
                                           00:00:00 [migration/1]
root
             16
                      2 0 20:56 ?
                                           00:00:00 [ksoftirqd/1]
root
                                           00:00:00 [kworker/1:0H]
             18
                      2 0 20:56 ?
root
                      2 0 20:56 ?
                                           00:00:00 [kdevtmpfs]
root
             20
                      2 0 20:56 ?
                                           00:00:00 [netns]
root
             21
                      2 0 20:56 ?
                                           00:00:00 [rcu tasks kthre]
root
             22
                      2 0 20:56 ?
                                           00:00:00 [kauditd]
root
root
             25
                      2 0 20:56 ?
                                           00:00:00 [khungtaskd]
root
             26
                      2 0 20:56 ?
                                           00:00:00 [oom reaper]
```

Pstree

```
eelt@ca:~$ pstree
systemd——ModemManager——2*[{ModemManager}]
          -NetworkManager ___dhclient
_2*[{NetworkManager}]
           -Thunar---2*[{Thunar}]
          -VGAuthService
           -accounts-daemon---2*[{accounts-daemon}]
           -acpid
          -agetty
          -avahi-daemon---avahi-daemon
           -cups-browsed---2*[{cups-browsed}]
           -cupsd---2*[dbus]
           -dbus-daemon
           -gnome-keyring-d---3*[{gnome-keyring-d}]
-irqbalance---{irqbalance}
           -2*[kerneloops]
           -lightdm<del> _ </del>Xorg-
                               -{Xorq}
                                    -sh-__ssh-ayene
-xfce4-session-
                       —ligȟtdm<del>-</del>
                                                              -applet.py---{applet.py}
                                                              —blueman-applet——3*[{blueman+
—light-locker——3*[{light-loc+
```

top

```
Terminal - feelt@ca: ~
       Edit View
                  Terminal Tabs Help
                     2:00, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 215 total, 1 running, 148 sleeping, %Cpu(s): 1.5 us, 3.0 sy, 0.0 ni, 95.5 id, KiB Mem : 4015688 total, 2996064 free, 41
                                                    0 stopped, 0 zombie
                                              id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
413184 used, 606440 buff/cache
KiB Swap: 1942896 total,
                             1942896 free,
                                                      0 used. 3364136 avail Mem
                                               SHR S %CPU %MEM
                                                                       TIME+ COMMAND
  PID USER
                  PR NI
                              VIRT
                                       RES
                                                                    0:42.55 Xorg
   866 root
                   20
                            367624
                                     63164
                                             33432 S
                                                        5.9
                                                             1.6
  1185 feelt
                                     7716
                                                        1.0 0.2
                                                                    0:00.06 gnome-key+
                   20
                            288816
                                              6760 S
  1303 feelt
                   20
                            194404
                                     23256
                                             18260 S
                                                        1.0
                                                             0.6
                                                                    0:06.16 xfwm4
                                                                    0:01.91 xfce4-pan+
  1307 feelt
                            274956
                                     22156
                                             17796 S
                                                        1.0
                   20
                                                             0.6
  1311 feelt
                   20
                            503776
                                     35500
                                             25288 S
                                                        1.0
                                                             0.9
                                                                    0:06.23 xfdesktop
                                Θ
                                        0
                                                 0 I
                                                        1.0
                                                             0.0
                                                                    0:00.86 kworker/1+
  2586 feelt
                            536992
                                     34156
                                             25856 S
                                                        1.0
                                                             0.9
                                                                    0:02.66 xfce4-ter+
  2675 feelt
                                                        1.0
                                                                    0:00.09 top
                   20
                        Θ
                            51752
                                      4148
                                              3428 R
                                                             0.1
                                                                    0:03.90 systemd
     1 root
                            159868
                                      9308
                                              6856 S
                                                        0.0
                                                             0.2
                                                 0 S
                                                                    0:00.02 kthreadd
                   20
                                 Θ
                                         Θ
                                                        0.0 0.0
     4 root
                      -20
                                                        0.0
                                                             0.0
                                                                    0:00.00 kworker/0+
                                                                    0:00.00 mm percpu+
                                                        0.0
     6 root
                    0
                      -20
                                 Θ
                                         Θ
                                                             0.0
                                                 0 S
                                                                    0:00.11 ksoftirgd+
                   20
                                 0
                                         0
                                                        0.0
                                                             0.0
     8 root
                   20
                                                 0 T
                                                        0.0 0.0
                                                                    0:01.14 rcu_sched
                   20
                                                        0.0
                                                             0.0
                                                                    0:00.00 rcu bh
     9 root
                                                                    0:00.00 migration+
                                                 0 S
                                                        0.0
                                                             0.0
    10 root
                                 0
                                                        0.0
                                                             0.0
                                                                    0:00.01 watchdog/0
    11 root
                        0
```

Kill

```
Terminal - feelt@ca: ~
                                                                                                                               - + \times
 File Edit View Terminal Tabs Help
 eelt@ca:~$ kill
                             2) SIGINT7) SIGBUS
 1) SIGHUP
                                                         SIGQUIT
                                                                                    4) SIGILL
                                                                                                                SIGTRAP
 6) SIGABRT
                                                        8) SIGFPE
                                                                                    9) SIGKILL
                                                                                   14) SIGALRM
                           12) SIGUSR2
                                                       13) SIGPIPE
                                                                                                               15) SIGTERM
                           17) SIGCHLD
16) SIGSTKFLT
                                                                                                              25) SIGXFSZ
30) SIGPWR
                           22) SIGTTOU
27) SIGPROF
                                                       23) SIGURG
                                                       28) SIGWINCH
26) SIGVTALRM
     SIGRYMIN+2 27) SIGRTMIN 25) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRTMIN+3 SIGRTMIN+4 39) SIGRTMIN+5 40) SIGRTMIN+6 41) SIGRTMIN+7 42) SIGRTMIN+8 SIGRTMIN+9 44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13 SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMIN+14 51) SIGRTMIN-13 52) SIGRTMIN+12
31) SIGSYS
43)
48)
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
feelt@ca:~$
```

Capitulo 9

Hostname

```
▼ Terminal - feelt@ca; ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ hostname
ca
feelt@ca:~$ ■
```

Arp

Ifconfig

```
Terminal - feelt@ca: ~
                                                                         + ×
File Edit View Terminal Tabs Help
feelt@ca:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.100.130 netmask 255.255.255.0 broadcast 192.168.100.255
       inet6 fe80::e27e:61ef:330a:3ce9 prefixlen 64 scopeid 0x20<link>
       ether 00:0c:29:f4:2f:06 txqueuelen 1000 (Ethernet)
       RX packets 1931 bytes 197602 (197.6 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 571 bytes 69204 (69.2 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,L00PBACK,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 11319 (11.3 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 162 bytes 11319 (11.3 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
feelt@ca:~$
```

Ping

```
feelt@ca:~$ ping www.ufu.br
PING www.ufu.br (200.19.145.55) 56(84) bytes of data.
64 bytes from www.ufu.br (200.19.145.55): icmp_seq=1 ttl=128 time=40.5 ms
64 bytes from www.ufu.br (200.19.145.55): icmp_seq=2 ttl=128 time=34.7 ms
64 bytes from www.ufu.br (200.19.145.55): icmp_seq=3 ttl=128 time=33.8 ms
```

dig

```
feelt@ca:~$ dig www.google.com

; <<>> DiG 9.11.3-lubuntu1.1-Ubuntu <<>> www.google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 54546
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
; wwww.google.com. IN A

;; Query time: 97 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Thu May 19 23:03:10 -03 2022
;; MSG SIZE rcvd: 44</pre>
```

nslookup

```
feelt@ca:~$ nslookup www.google.com
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:
Name: www.google.com
Address: 142.250.218.228
Name: www.google.com
Address: 2800:3f0:4001:82e::2004
```

Traceroute

```
Terminal - feelt@ca: ~
                                                                             - + ×
 File
      Edit View Terminal Tabs
feelt@ca:~$ sudo apt install traceroute
[sudo] password for feelt:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
 traceroute
0 upgraded, 1 newly installed, 0 to remove and 622 not upgraded.
Need to get 45.4 kB of archives.
After this operation, 152 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu bionic/universe amd64 traceroute amd64
1:2.1.0-2 [45.4 kB]
Fetched 45.4 kB in 1s (50.3 kB/s)
Selecting previously unselected package traceroute.
(Reading database ... 205630 files and directories currently installed.)
Preparing to unpack .../traceroute 1%3a2.1.0-2 amd64.deb ...
Unpacking traceroute (1:2.1.0-2) ...
Processing triggers for man-db (2.8.3-2) ...
Setting up traceroute (1:2.1.0-2) ...
update-alternatives: using /usr/bin/traceroute.db to provide /usr/bin/traceroute
 (traceroute) in auto mode
update-alternatives: using /usr/bin/lft.db to provide /usr/bin/lft (lft) in auto
 mode
```

Tracepath

```
      feelt@ca:~$ tracepath www.ufu.br

      17: [LOCALHOST]
      pmtu 1500

      1: _gateway
      0.153ms

      1: _gateway
      0.220ms

      2: no reply
```

Netsat

```
- + ×
                               Terminal - feelt@ca: ~
 \overline{\mathbf{v}}
 File Edit View Terminal Tabs Help
feelt@ca:~$ netstat -s
Ip:
    Forwarding: 2
    926 total packets received
    3 with invalid addresses
    0 forwarded
    0 incoming packets discarded
    921 incoming packets delivered
    781 requests sent out
Icmp:
    89 ICMP messages received
0 input ICMP message failed
    ICMP input histogram:
        timeout in transit: 2
        echo requests: 1
        echo replies: 86
    87 ICMP messages sent
    0 ICMP messages failed
    ICMP output histogram:
        echo requests: 86
        echo replies: 1
IcmpMsg:
         InType0: 86
        InType8:
```

Nmap

```
feelt@ca:~$ nmap wwww.ufu.br

Starting Nmap 7.60 ( https://nmap.org ) at 2022-05-19 23:10 -03
Failed to resolve "wwww.ufu.br".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 1.57 seconds
feelt@ca:~$ ■
```

Route

```
Terminal - feelt@ca: ~
                                                                               - + ×
 File Edit View Terminal Tabs Help
feelt@ca:~$ route
Kernel IP routing table
Destination
               Gateway
                                  Genmask
                                                   Flags Metric Ref
                                                                         Use Iface
default
link-local
                                  0.0.0.0
                                                                           0 ens33
                 _gateway
                 0.0.0.0
                                  255.255.0.0
                                                          1000
                                                                           0 ens33
192.168.100.0
                 0.0.0.0
                                  255.255.255.0
                                                                           0 ens33
feelt@ca:~$
```

telnet

```
feelt@ca:~$ telnet www.ufu.br
Trying 200.19.145.55...
telnet: Unable to connect to remote host: Connection refused
feelt@ca:~$ ■
```

Tcpdump

```
feelt@ca:~$ tcpdump -D
1.ens33 [Up, Running]
2.any (Pseudo-device that captures on all interfaces) [Up, Running]
3.lo [Up, Running, Loopback]
4.nflog (Linux netfilter log (NFLOG) interface)
5.nfqueue (Linux netfilter queue (NFQUEUE) interface)
6.usbmon1 (USB bus number 1)
7.usbmon2 (USB bus number 2)
feelt@ca:~$ ■
```

Lynx

```
www.google.com cookie: 1P_JAR=2022-05-20-02 Allow? (Y/N/Always/neVer)
```

• uname -s/ uname -n/ uname -r/ uname -v

```
Terminal - feelt@ca:~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ uname -s

Linux
feelt@ca:~$ uname -n

ca
feelt@ca:~$ uname -r

4.15.0-34-generic
feelt@ca:~$ uname -v
#37-Ubuntu SMP Mon Aug 27 15:21:48 UTC 2018
feelt@ca:~$
```

Head

```
▼ Terminal - feelt@ca: ~ - + ×

File Edit View Terminal Tabs Help

feelt@ca:~$ head - n1 / etc / issue

==> standard input <==
```

Lspci

```
- + ×
                                Terminal - feelt@ca: ~
      Edit View
                   Terminal Tabs Help
feelt@ca:~$ lspci
00:00.0 Host bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX Host bridge
rev 01)
00:01.0 PCI bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge (re
v 01)
00:07.0 ISA bridge: Intel Corporation 82371AB/EB/MB PIIX4 ISA (rev 08)
00:07.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:07.3 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:07.7 System peripheral: VMware Virtual Machine Communication Interface (rev 1
00:0f.0 VGA compatible controller: VMware SVGA II Adapter
00:10.0 SCSI storage controller: LSI Logic / Symbios Logic 53c1030 PCI-X Fusion-
MPT Dual Ultra320 SCSI (rev 01)
00:11.0 PCI bridge: VMware PCI bridge (rev 02)
00:15.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.1 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.2 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.3 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.4 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.5 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.6 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.7 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.1 PCI bridge: VMware PCI Express Root Port (rev 01)
```

Lsblk

```
feelt@ca:~$ lsblk
NAME
      MAJ:MIN RM
                   SIZE RO TYPE MOUNTPOINT
             0 61.9M 1 loop /snap/core20/1405
loop0
               0 61.9M 1 loop /snap/core20/1434
loop1
               0 65.2M 1 loop /snap/gtk-common-themes/1519
loop2
               0 248.8M 1 loop /snap/gnome-3-38-2004/99
loop3
        7:4
               0 61.9M 1 loop /snap/core20/1361
loop4
               0 81.3M 1 loop /snap/gtk-common-themes/1534
loop5
         7:6
                     4K 1 loop /snap/bare/5
loop6
        8:0
                    50G 0 disk
sda
∟sda1
        8:1
                    40G 0 part /
sr0
       11:0
                  1024M 0 rom
feelt@ca:~$
```

Hwinfo / Ishw

```
elt@ca:~$ sudo hwinfo --short
                        Intel(R) Core(TM) i5-4210U CPU @ 1.70GHz, 2400 MHz
                        Intel(R) Core(TM) i5-4210U CPU @ 1.70GHz, 2400 MHz
eyboard:
 /dev/input/event1
                        AT Translated Set 2 keyboard
ouse:
 /dev/input/mice
                        VMware Virtual Mouse
 /dev/input/mice
/dev/input/mice
                        VirtualPS/2 VMware VMMouse
VirtualPS/2 VMware VMMouse
raphics card:
                        VMware VMWARE0405
ound:
                        Ensoniq Audio PCI 64V/128/5200 / Creative CT4810/CT5803/C
T5806 [Sound Blaster PCI]
torage:
                        VMware SATA AHCI controller
                        VMware Virtual Machine Chipset
                        VMware LSI Logic Parallel SCSI Controller
etwork:
                        VMware PRO/1000 MT Single Port Adapter
etwork interface:
```

• Eject

```
feelt@ca:~$ eject
eject: unable to eject, last error: Inappropriate ioctl for device
feelt@ca:~$ ■
```