



NÚCLEO DE TECNOLOGIA DEPARTAMENTO ACADÊMICO DE CIÊNCIA DA COMPUTAÇÃO INSTITUTO ELDORADO DISCIPLINA: DESENVOLVIMENTO LINUX EMBARCADO LABORATÓRIOS PRÁTICOS - INTRODUÇÃO AO LINUX DOCENTE: LUCAS MARQUES DA CUNHA DISCENTE: JONATHAN OLIVEIRA PINHEIRO DA COSTA

A Seguir as imagens acerca dos tópicos feitos em sala, no módulo Desenvolvimento Linux embarcado, referente aos itens 1 até 7.

```
linkDrive.txt Música numeros.txt projetos ques
listabin.txt numeros1.txt palomakoba Público ques
ra modulo6 numeros2.txt palomakobabackups qualnome.txt snap
          onathan@jonathan:~$ pwd
     /nomer/joinathan:~$ cat /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=22.04
DISTRIB_CODENAME=jammy
DISTRIB_DESCRIPTION="Ubuntu 22.04.1 LTS"
jonathan@jonathan:~$
jonathan@jonathan:-$ ls -l /bin/ls
-rwxr-xr-x 1 root root 138208 fev 7 2022 /bin/ls
jonathan@jonathan:-$ ls /etc/host*
/etc/host.conf /etc/hostid /etc/hostame /etc/hosts /etc/hosts.allow /etc/hosts.deny jonathan@jonathan:-$ ls -l /etc/host*
-rw-r--r- 1 root root 92 out 15 2021 /etc/host.conf
-rw-r--r- 1 root root 4 ago 9 07:52 /etc/hostid
-rw-r--r- 1 root root 9 out 4 16:51 /etc/hostname
-rw-r--r- 1 root root 223 out 4 16:51 /etc/hostss
-rw-r--r- 1 root root 411 ago 9 07:50 /etc/hosts.allow
-rw-r--r- 1 root root 711 ago 9 07:50 /etc/hosts.allow
jonathan@jonathan:-$ ls -lh /bin/ls
-rwxr-xr-x 1 root root 135K fev 7 2022 /bin/ls
jonathan@jonathan:-$ ls -al
total 156
drwxr-x--- 21 jonathan jonathandicath
   .bash_history
.bash_logout
.bashrc
                                                                                     .lesshst
linkDrive.txt
listabin.txt
      drwxrwxr-x 3 jonathan jonathan drwxrwxr-x 2 jonathan jonathan -rw-rw-r-- 1 jonathan jonathan -rw-rw-rw-r 2 jonathan jonathan drwxrwxr-x 2 jonathan jonathan drwxrwxr-x 3 jonathan jonathan drwxrwxr-x 3 jonathan jonathan
                                                                                                                                                                                          numeros1.txt
numeros2.txt
```

```
jonathan@jonathan:~$ man ls
jonathan@jonathan:~$ tldr ls
Usage: tldr [OPTIONS] COMMAND [ARGS]...
Try 'tldr -h' for help.
Error: No such command 'ls'.
jonathan@jonathan:~$ <u>#</u> intalei aqui mas nāo foi....
jonathan@jonathan:~$
```

numeros.txt

12:07 21:01

4096 out 4096 out

```
jonathan@jonathan:~$ cd /var/lo
local/ lock/ log/
jonathan@jonathan:~$ cd /var/log
jonathan@jonathan:/var/log$ pwd
/var/log
jonathan@jonathan:/var/log$ cd ~
jonathan@jonathan:~$ pwd
/home/jonathan
jonathan@jonathan:~$ cd /var/log
jonathan@jonathan:/var/log$ cd
jonathan@jonathan:~$ pwd
/home/jonathan
jonathan@jonathan:~$ cd .
jonathan@jonathan:~$ pwd
/home/jonathan
jonathan@jonathan:~$ cd ..
jonathan@jonathan:/home$ pwd
jonathan@jonathan:/home$ cd -
/home/jonathan
jonathan@jonathan:~$ pwd
/home/jonathan
jonathan@jonathan:~$
```

```
jonathan@jonathan:~$ cat /etc/hostname
jonathan
jonathan@jonathan:~$ more /etc/login.defs
# /etc/login.defs - Configuration control definitions for the login package.
#
# Three items must be defined: MAIL_DIR, ENV_SUPATH, and ENV_PATH.
# If unspecified, some arbitrary (and possibly incorrect) value will
# be assumed. All other items are optional - if not specified then
# the described action or option will be inhibited.
# Comment lines (lines beginning with "#") and blank lines are ignored.
#
# Modified for Linux. --marekm
# REQUIRED for useradd/userdel/usermod
    Directory where mailboxes reside, _or_ name of file, relative to the
############
    home directory. If you _do_ define MAIL_DIR and MAIL_FILE,
    MAIL_DIR takes precedence.
    Essentially:
       - MAIL_DIR defines the location of users mail spool files
         (for mbox use) by appending the username to MAIL_DIR as defined
         below.
       - MAIL_FILE defines the location of the users mail spool files as the
         fully-qualified filename obtained by prepending the user home
         directory before $MAIL_FILE
 NOTE: This is no more used for setting up users MAIL environment variable
        which is, starting from shadow 4.0.12-1 in Debian, entirely the
        job of the pam_mail PAM modules
        See default PAM configuration files provided for
        login, su, etc.
# This is a temporary situation: setting these variables will soon
# move to /etc/default/useradd and the variables will then be
# no more supported
MAIL_DIR
                /var/mail
#MAIL_FILE
                .mail
jonathan@jonathan:~$ head -5 /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
```

```
justhamijastha: 5 tal. 4 / Nar/log/ys/log
Outsham kernel: [289.732186] audit: type-1400 audit(1665766899.750:14850): apparmon="DENIED" operation="ptrace" profile="snap.discord.discord" pid=19306 come-"Utils" requested_mask="read" denied_mask="read" denied_mask
```

```
jonathan@jonathan:~$ vi ArquivoTeste.txt
jonathan@jonathan:~$ cat ArquivoTeste.txt
Eu sou o arquivo de teste do vim
jonathan@jonathan:~$ nano ArquivoTeste.txt
jonathan@jonathan:~$ cat ArquivoTeste.txt
Eu sou o arquivo de teste do vim
Agora fui editado pelo nano
jonathan@jonathan:~$
```

```
jonathan@jonathan:~$ cp ArquivoTeste.txt ArquivoCopia.txt
jonathan@jonathan:~$ ls -lh Arquivo[C\|T]*.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:28 ArquivoCopia.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:25 ArquivoTeste.txt
jonathan@jonathan:~$ cp ArquivoTeste.txt /tmp/
jonathan@jonathan:~$ ls -lh ArquivoTeste.txt /tmp/ArquivoTeste.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:25 ArquivoTeste.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:29 /tmp/ArquivoTeste.txt
jonathan@jonathan:~$ mv ArquivoCopia.txt /tmp/
jonathan@jonathan:~$ ls -lh /tmp/ArquivoTeste.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:29 /tmp/ArquivoTeste.txt
jonathan@jonathan:~$ mv ArquivoTeste.txt ArquivoRenomeado.txt
jonathan@jonathan:~$ ls -lh ArquivoRenomeado.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:25 ArquivoRenomeado.txt
jonathan@jonathan:~$ mv ArquivoRenomeado.txt /tmp/ArquivoMovido.txt
jonathan@jonathan:~$ ls -lh /tmp/ArquivoMovido.txt
-rw-rw-r-- 1 jonathan jonathan 62 out 13 20:25 /tmp/ArquivoMovido.txt
jonathan@jonathan:~$
```

```
jonathan@jonathan:-$ #inicio do intem 1.10
jonathan@jonathan:-$ mkdir TesDir
jonathan@jonathan:-$ cd TesDir/
jonathan@jonathan:-/TesDir$ ls -al
drwxrwxr-x 2 jonathan jonathan 4096 out 13 20:34
drwxr-x--- 22 jonathan jonathan 4096 out 13 20:34
 | Irwxr-x-- 22 | Johatham | Johatham | 4990 Out | 13 20.54 | ... |
| Johatham@jonathan:-/Tesburs/ cd ... |
| Johatham@jonathan:-$ mkdtr TesteDtr2 |
| Johatham@jonathan:-$ cd TesteDtr2 |
| Johatham@jonathan:-/TesteDtr2$ echo "Jebediah Kerman" > ArquivoTeste.txt |
| Johatham@jonathan:-/TesteDtr2$ cat ArquivoTeste.txt |
| Johatham@jonathan:-/TesteDtr2$ cat ArquivoTeste.txt |
 ebediah Kerman
 Jebedian kerman
jonathangjonathan:~/TesteDir2$ cd ..
jonathangjonathan:~$ rmdir TesteDir2/
rmdir: falhou em remover 'TesteDir2/': Diretório não vazio
jonathangjonathan:~$ rm -rf TesteDir2/
jonathangjonathan:~$ ls
                                                   linkDrive.txt Música
listabin.txt numero
                                                                                                                                       questao34.sh sort
                                                                                          numeros.txt
                                                                       numeros1.txt
                                                                                                                                      questao35.sh
 onathan@jonathan:~$
jonathan@jonathan:~$ #iniciando o item 2.1
jonathan@jonathan:~$ ls -lh /usr/bin/ > ArquivosDoBin.txt
jonathan@jonathan:~$ tail -5 ArquivosDoBin.txt
-rwxr-xr-x 1 root root
                                          855K mar 24 2022 zstd
                                           4 out 4 16:48 zstdcat -> zstd
3,8K mar 24 2022 zstdgrep
30 mar 24 2022 zstdless
lrwxrwxrwx 1 root root
-rwxr-xr-x 1 root root
 -rwxr-xr-x 1 root root
(\(\
(-.-)
o_(")(")
jonathan@jonathan:~$ echo "primeira linha do arquivo" > ArquivoTeste.txt
jonathan@jonathan:~$ cat ArquivoTeste.txt
primeira linha do arquivo
jonathan@jonathan:-$ echo "segunda linha do arquivo (só que não)" > ArquivoTeste.txt
jonathan@jonathan:~$ cat ArquivoTeste.txt
segunda linha do arquivo (só que não)
jonathan@jonathan:~$ echo "segunda linha do arquivo (de verdade)" >> ArquivoTeste.txt
jonathan@jonathan:~$ cat ArquivoTeste.txt
segunda linha do arquivo (só que não)
segunda linha do arquivo (de verdade)
```

jonathan@jonathan:~\$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt

jonathan@jonathan:~\$ ls ArquivoInvalido.txt ArquivoTeste.txt 2> /dev/null

ArquivoTeste.txt

ArquivoTeste.txt jonathan@jonathan:~\$

jonathan@jonathan:~\$ cat LsStderr.txt

ls: não foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente jonathan@jonathan:~\$ ls ArquivoInvalido.txt ArquivoTeste.txt 2> LsStderr.txt

ls: nāo foi possível acessar 'ArquivoInvalido.txt': Arquivo ou diretório inexistente jonathan@jonathan:~\$ ls ArquivoInvalido.txt ArquivoTeste.txt > LsStdout.txt 2> LsStderr.txt

jonathan@jonathan:~\$ ls ArquivoInvalido.txt ArquivoTeste.txt &> LsStdoutStdErr.txt

```
jonathan@jonathan:~$ cat /etc/passwd | grep h | wc -l

12
jonathan@jonathan:~$ cat /etc/passwd | cut -d: -f1 | grep h
avahi-autoipd
avahi
cups-pk-helper
whoopsie
speech-dispatcher
hplip
jonathan
jonathan@jonathan:~$
```

```
[1] 6267
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps
PID TTY TIME CMD
5424 pts/0 00:00:00 bash
6267 pts/0 00:00:00 cat
      6268 pts/0
                                 00:00:00 ps
[1]+ Parado
                                                                                                 TIME CMD
                                                                                        00:00:00 bash
                                                                                        00:00:00 cat
                                                                                        00:00:00 ps -f
 aluno@LAB-DACC-08:~/Imagens/Lab2Ltnux$ ps -ef
UID PID PPID C STIME TTY
root 1 0 0 14:17 ? 00
                                                                                       TIME CMD

00:00:01 /sbin/init splash

00:00:00 [kthreadd]

00:00:00 [rcu_gp]

00:00:00 [rcu_par_gp]

00:00:00 [netns]

00:00:00 [kworker/0:0H-events_highpri]

00:00:00 [mm_percpu_wq]

00:00:00 [rcu_tasks_rude_]

00:00:00 [rcu_tasks_trace]

00:00:00 [ksoftirqd/0]

00:00:00 [figration/0]

00:00:00 [idle_inject/0]

00:00:00 [kworker/0:1-events]

00:00:00 [cpuhp/0]
UID
                                                                                                TIME CMD
 root
                                                0 0 14:17 ?
 root
                                               2 0 14:17 ?
2 0 14:17 ?
2 0 14:17 ?
 root
 root
 root
                                               2 0 14:17 ?
2 0 14:17 ?
 root
 root
 root
                                                2 0 14:17
                                               2 0 14:17
2 0 14:17
2 0 14:17
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2 0 14:17
2 0 14:17
2 0 14:17
 root
 root
 root
 root
 root
 root
                                                                                         00:00:00 [kworker/0:1-events]
00:00:00 [cpuhp/0]
00:00:00 [cpuhp/1]
00:00:00 [idle_inject/1]
00:00:00 [ksoftirqd/1]
00:00:00 [kworker/1:0H-events_highpri]
 root
                              17
 root
                              18
 root
                             20
 root
 root
                             23
 root
                                                                                                            [cpuhp/2]
[idle_inject/2]
 root
                             24
                                                                                          00:00:00
 root
                                                                                          00:00:00
                                                                                                            [migration/2]
 root
                             26
                                                                                          00:00:00
                             27
                                                                                          00:00:00
                                                                                                            [ksoftirqd/2]
 root
                                                                                         00:00:00 [ksorterq4/2]

00:00:00 [ksorterq2:0H-events_highpri]

00:00:00 [cpuhp/3]

00:00:00 [idle_inject/3]

00:00:00 [migration/3]
                             29
 root
                             30
 root
 root
                                                      0 14:17 ?
 root
```

```
00:00:00 [kworker/u24:0-events_power_efficient]
oot
                                                                                  00:00:13 /usr/libexec/gnome-terminal-server
00:00:00 bash
aluno
                      5302
                                                0 14:51 ?
                      5424
                                      5302
                                                0 14:51 pts/0
aluno
                      5504
                                                0 15:03 ?
                                                                                  00:00:00 [kworker/u24:1-events_unbound]
root
                                                                                 00:00:00 [kworker/J2:1-events_unbound]
00:00:00 [kworker/3:1-cgroup_destroy]
00:00:00 [kworker/1:1-mm_percpu_wq]
00:00:00 [kworker/u24:2-events_unbound]
00:00:00 bash
                                                0 15:32 ?
root
                      5862
                      5912
                                           2 0 15:36 ?
root
                                                0 15:37 ?
                      5946
 oot
                                     5302 0 15:40 pts/1
aluno
                      5969
                                                                                 00:00:00 Dasn
00:00:00 /usr/libexec/gvfsd-network --spawner :1.3 /org/gtk/gv
00:00:00 /usr/libexec/gvfsd-dnssd --spawner :1.3 /org/gtk/gvfs
00:00:00 [kworker/8:2-events]
00:00:00 cat
                                      1856 0 15:43 ?
                      6162
aluno
aluno
                                      1856 0 15:43 ?
                      6177
                      6251
                                       2 0 15:43 ?
 oot
 oluno 6267 5424 0 15:46 pts/0 00:00:00 cat
sluno 6275 5424 0 15:46 pts/0 00:00:00 ps -ef
sluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps -ef | wc -l
aluno
aluno
357
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ top
top - 15:47:37 up 1:30, 1 user, load average: 0,25, 0,18, 0,10
Tarefas: 355 total, 1 em exec., 353 dormindo, 1 parado, 0 zumbi
6CPU(s): 2,3 us, 0,9 sis, 0,0 ni, 96,7 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr
MB mem : 15808,5 total, 11761,6 livre, 2067,1 usados, 1979,8 buff/cache
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13359,9 mem dispon.
```

PID	USUARIO	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TEMPO+ COMANDO
1936	root	20	0	6750164	138980	80808 S	20,0	0,9	1:20.75 Xorg
6281	aluno	20	0	12304	4256	3392 R	13,3	0,0	0:00.02 top
1428	root	20	0	0	0	0 S	6,7	0,0	0:10.60 nv_queue
2336	aluno	20	0	1190900	193020	55992 S	6,7	1,2	0:04.36 snap-store
1	root	20	0	167892	11584	8124 S	0,0	0,1	0:01.40 systemd
2	root	20	0	0	0	0 S	0,0	0,0	0:00.00 kthreadd
3	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 rcu_gp
4	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 rcu_par_gp
5	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 netns
7	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 kworker/0:0H-events_highpri
9	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 mm_percpu_wq
10	root	20	0	0	0	0 S	0,0	0,0	0:00.00 rcu_tasks_rude_
11	root	20	0	0	0	0 S	0,0	0,0	0:00.00 rcu_tasks_trace
12	root	20	0	0	0	0 S	0,0	0,0	0:00.01 ksoftirqd/0
13	root	20	0	0	0	0 I	0,0	0,0	0:04.07
14	root	rt	0	0	0	0 S	0,0	0,0	0:00.02 migration/0
15	root	-51	0	0	0	0 S	0,0	0,0	0:00.00 idle_inject/0
	root	20	0	0	0	0 I	0,0	0,0	0:00.33 kworker/0:1-events
17	root	20	0	0	0	0 S	0,0	0,0	0:00.00 cpuhp/0
18	root	20	0	0	0	0 S	0,0	0,0	0:00.00 cpuhp/1
	root	-51	0	0	0	0 S	0,0	0,0	0:00.00 idle_inject/1
	root	rt	0	0	0	0 S	0,0	0,0	0:00.12 migration/1
	root	20	0	0	0	0 S	0,0	0,0	0:00.01 ksoftirqd/1
	root		- 20	0	0	0 I	0,0	0,0	0:00.00 kworker/1:0H-events_highpri
	root	20	0	0	0	0 S	0,0	0,0	0:00.00 cpuhp/2
	root	-51	0	0	0	0 S	0,0	0,0	0:00.00 idle_inject/2
	root	rt	0	0	0	0 S	0,0	0,0	0:00.12 migration/2
	root	20	0	0	0	0 S	0,0	0,0	0:00.01 ksoftirqd/2
	root	0	-20	0	0	0 I	0,0	0,0	0:00.00 kworker/2:0H-events_highpri
30	root	20	0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/3

```
0:00.00 idle_inject/5
0:00.12 migration/5
0:00.03 ksoftirqd/5
                                                                                                                                                                                             0 S
0 S
0 S
0 I
                                                                                                                                                                                                                       0,0
0,0
0,0
0,0
0,0
                                                                                                                                                                                                                                                0,0
0,0
0,0
0,0
0,0
                                                                          rt
20
0
                     44 root
                                                                                                                                  0 0
                                                                                                                                                                 0 0 0
                    45 root
47 root
                                                                                         -20
                                                                                                                                                                                                                                                                          0:00.00 kworker/5:0H-events highpri
                                                                                        0
                                                                                                                                                                                              0 S
0 S
                                                                                                                                                                                                                                                                          0:00.00 cpuhp/6
0:00.00 idle_inject/6
                                                                                                                                  0
                                                                                                                                                                 0
                                                                        -51
                    49 root
                                                             -08:~/Imagens/Lab2Linux$ top -o %MEM
top - 15:47:47 up 1:30, 1 user, load average: 0,19, 0,17, 0,10
Tarefas: 355 total, 1 em exec., 353 dormindo, 1 parado, 0 zumbi
%CPU(s): 1,4 us, 1,4 sis, 0,0 ni, 97,2 oc, 0,0 ag, 0,0 ih, 0,0 is 0,0 tr
MB mem : 15808,5 total, 11761,6 livre, 2067,1 usados, 1979,9 buff/cache
MB swap: 3906,0 total, 3906,0 livre, 0,0 usados, 13359,9 mem dispon.
               PTD LISUARTO
                                                                          PR NT
                                                                                            NI VIRT RES SHR S
0 3686280 579544 270364 S
0 5238440 378572 130156 S
0 7054092 256648 110444 S
0 1190900 193020 55992 S
0 2575252 186508 115640 S
0 3988032 175884 95912 S
0 6756164 138980 80808 S
0 2436468 121152 90632 S
0 6726492 119140 75240 S
0 2435844 99420 80004 S
0 2435844 99420 80004 S
0 2400464 76708 65412 S
                                                                                                                    VTRT
                                                                                                                                                      RES
                                                                                                                                                                                     SHR S %CPU %MEM
                                                                                                                                                                                                                                                                              TEMPO+ COMANDO
                                                                                                                                                                                                                                                                          2:52.92 firefox
1:14.73 gnome-shell
0:24.52 Isolated Web Co
            2071 aluno
4312 aluno
                                                                           20
20
                                                                                                                                                                                                                       0,0
                                                                                                                                                                                                                                                1.14.73 glione-shett
0:24.52 Isolated Web Co
0:04.36 snap-store
0:45.83 Isolated Web Co
0:04.32 gnome-shell
1:20.95 Xorg
0:02.07 Privileged Cont
0:03.71 Xorg
0:00.64 WebExtensions
0:00.15 Web Content
0:00.15 Nector N
                                                                                                                                                                                                                  0,0
0,0
0,0
20,0
            2336 aluno
4602 aluno
                                                                           20
20
20
20
20
20
20
20
20
20
            1534 gdm
             1936 root
            4186 aluno
                                                                                                                                                                                                                      0,0
0,0
0,0
0,0
0,0
0,0
0,0
0,0
0,0
             1311 root
            4227 aluno
             4808 aluno
                                                                                                                                                                        65412 S
65204 S
64824 S
49930 S
43420 S
44212 S
42024 S
40608 S
39868 S
36492 S
36188 S
31288 S
            4801 aluno
4803 aluno
                                                                                                0 2400464
0 2400464
                                                                                                                                              76484
76160
                                                                                                                                               73040
57916
            4379 aluno
                                                                                                 0 1200048
                                                                                                           641792
            2268 aluno
                                                                           20
20
20
20
                                                                                                            501232
862044
                                                                                                                                               55808
54020
             2243 aluno
                                                                                                0
            4906 aluno
5302 aluno
                                                                                                0 816420
0 316292
0 320488
0 202928
0 1835704
                                                                                                                                                53396
            4425 aluno
                                                                                                                                              49764
46008
43848
                                                                            20
20
            4420 aluno
            4141 aluno
1028 root
                                                                            20
20
                                                                                                                                                39176
                                                                                                                                                                            19540 S
31288 S
28528 S
28552 S
27464 S
19916 S
26692 S
22652 S
22072 S
                                                                                                                                                                                                                                                                         0:02.33 snapd

0:00.75 fwupd

0:00.03 goa-daemon

0:00.05 goa-daemon

0:00.07 evolution-calen

0:00.02 ibus-extension-

0:00.03 evolution-addre
                                                                                                                                               37304
34832
34820
            2502 root
1911 aluno
                                                                                                             393452
550428
                                                                           20
20
20
20
20
20
20
20
                                                                                                 0
                                                                                                                                                                                                                      0,0
0,0
0,0
0,0
0,0
0,0
            1394 gdm
2142 aluno
                                                                                                              550416
                                                                                                 0
0
                                                                                                              839864
                                                                                                                                                31660
            2100 aluno
2158 aluno
                                                                                                0
0
                                                                                                            276248
674504
                                                                                                                                               31132
30224
            2207 aluno
2200 aluno
                                                                                                 0
0
                                                                                                            687600
430064
                                                                                                                                               29812
28576
                                                                                                                                                                                                                                                                          0:00.21 gsd-media-keys
0:00.15 gsd-color
                                                                                                                                                                                                                                                                       0:00.15 gsd-color
0:00.20 xdg-desktop-por
0:00.17 gsd-ssettings
0:00.23 update-notifier
0:00.17 gsd-power
0:00.04 gjs
0:00.05 evolution-sourc
0:00.05 evolution-sourc
0:00.05 evolution-sourc
0:00.17 gsd-keyboard
0:00.15 gsd-wacom
0:00.13 ibus-x11
0:00.33 anydesk
0:00.05 smbd
0:00.11 tracker-miner-f
0:00.08 tracker-miner-f
0:00.09 gsd-media-keys
0:00.04 unattended-upgr
                                                                           20
20
20
20
20
                                                                                                                                                                                                                      0,0
0,0
0,0
            2490 aluno
2233 aluno
                                                                                                             494164
345996
                                                                                                                                               28468
28204
                                                                                                                                                                             22224 S
21120 S
                                                                                                0
0
            4565 aluno
2210 aluno
                                                                                                             419236
419248
                                                                                                                                               27992
27900
                                                                                                                                                                             21736 S
21208 S
            2174 aluno
2132 aluno
                                                                           20
20
20
                                                                                                0 2931108
0 940396
                                                                                                                                              27640
27100
                                                                                                                                                                            22048 S
23092 S
                                                                                                                                                                                                                      0,0
0,0
0,0
0,0
0,0
0,0
0,0
            1587 gdm
2205 aluno
                                                                                                0 2930860
0 345080
                                                                                                                                                26836
                                                                                                                                                                              21912 S
                                                                           20
20
20
20
                                                                                                                                                                             20308 S
                                                                                                                                                26672
                                                                                                                                                                          20076 S
20140 S
22312 S
22608 S
                                                                                                                                               26672
26528
             2227 aluno
                                                                                                              344492
            2102 aluno
                                                                                                              196960
             2245 aluno
                                                                                                               586832
                                                                                                                                                25908
                                                                           20
39
39
20
            1796 root
1845 aluno
                                                                                                                87204
                                                                                                                                                25668
                                                                                                                                             25068 22608 S
25340 16744 S
25032 16576 S
23196 20180 S
22524 14376 S
                                                                                           19
19
0
0
                                                                                                             512532
            1308 gdm
1615 gdm
                                                                                                              512320
                                                                                                                  s/Lab2Linux$ #fim do item 5.1
            1254 root
                                                                            20
                                                                                                              118140
```

```
luno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps | grep cat | xargs | cut -d" " -f1
6267
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ kill 6267
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps | grep cat
     6267 pts/0
                         00:00:00
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ kill -9 6267
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps | grep cat
 [1]+ Morto
                                              cat
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat &
 [1] 11496
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat &
 [2] 11510
[1]+ Parado
                                               cat
    uno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps | grep cat
   11496 pts/0 00:00:00
   11510 pts/0
                         00:00:00
 [2]+ Parado
                                               cat
   luno@LAB-DACC-08:~/Imagens/Lab2Linux$ killall -9 cat
 [1]- Morto
[2]+ Morto
                                              cat
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps | grep cat
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ #fim do item 5.2
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
   luno@LAB-DACC-08:~/Imagens/Lab2Linux$ #inicio do item 5.3
  aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ free
                                        usada
                      total
                                                            livre
                                                                          compart. buff/cache disponível
                                                                              61524
                                      2823384
 Mem.:
                 16187912
                                                        11170924
                                                                                               2193604
                                                                                                                12990868
 Swap: 3999740 0 3999740
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ free -h
 Swap:
                                                            livre
                                                                          compart. buff/cache disponível
                      total usada
                                        2,7Gi
                                                                                                 2,1Gi
 Mem.:
                       15Gi
                                                             10Gi
                                                                                60Mi
                                                                                                                       12Gi
                                                           3,8Gi
                                           0B
 Swap:
                      3,8Gi
  aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ #fim do item 5.3
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ #thecto do ctem 5.4
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ps -ef | grep -v grep | grep "systemd-udevd\|systemd-resolved\|systemd-tiesyncd\|systemd-logind\|rsyslogd\|atd\|thermald\|acpid\|cupsd\|Xorg"
root 395 1 0 14:17 ? 00:00:00 /lib/systemd/systemd-udevd
systemd+ 957 1 0 14:19 ? 00:00:00 /lib/systemd/systemd-resolved
root 990 1 0 14:19 ? 00:00:00 /usr/sbin/acpid
root 995 1 0 14:19 ? 00:00:00 /usr/sbin/zupsd -l
00:00:00 /usr/sbin/syslogd -n -iNONE
   luno@LAB-DACC-08:~/Imagens/Lab2Linux$ #incio do item 5.4
                               1 0 14:17 ?
1 0 14:19 ?
1 0 14:19 ?
1 0 14:19 ?
1 0 14:19 ?
1 0 14:19 ?
                                                                 00:00:00 /usr/sbin/rsys
00:00:00 /lib/systemd/
00:00:00 /usr/sbin/the
root
                   1036
                              1 0 14:19 ?
1309 0 14:19 tty1
root
                   1037
                                                                                                              --systemd --dbus-enable --adaptive
                   1311
                                                                 00:00:03 /usr/lib/xorg/
                                                                                                              vt1 -displayfd 3 -auth /run/user/1
 root
25/gdm/Xauthority -background none -noreset -keeptty -verbose 3 root 1936 1934 1 14:21 tty2 00:01:58 /usr/lib/xorg/
                                                                                                              vt2 -displayfd 3 -auth /run/user/1
001/gdm/Xauthority -background none -noreset -keeptty -verbose 3
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$  # fim do item 5.4
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ #inicio do item 5.5
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.15.0-48-generic root=UUID=bf741425-5ad0-4865-ad66-906781c30d34 ro quiet splash
 vt.handoff=7
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls -fd /sbin/init /etc/init /bin/init
ls: nāo foi possível acessar '/bin/init': Arquivo ou diretório inexistente
/sbin/init /etc/init
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
```

```
|luno@LAB-DACC-08:~/Imagens/Lab2Linux$ #inicio do item 5.6
|luno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls -lh /sbin/init
lrwxrwxrwx 1 root root 20 abr 2 19:41 /sbin/init -> /lib/systemd/systemd
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls /lib/systemp/system/cron.service
ls: nāo foi possível acessar '/lib/systemp/system/cron.service': Arquivo ou diretório inexistente
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls /lib/systemp/system/*.service
ls: nāo foi possível acessar '/lib/systemp/system/*.service': Arquivo ou diretório inexistente
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls /lib/systemd/system/*.service
/lib/systemd/system/accounts-daemon.service
/lib/systemd/system/acpid.service
 /lib/systemd/system/alsa-restore.service
 ,
/lib/systemd/system/alsa-state.service
 /lib/systemd/system/anacron.service
 /lib/systemd/system/apparmor.service
/lib/systemd/system/apport-autoreport.service
 /lib/systemd/system/apport-forward@.service
/lib/systemd/system/apt-daily.service
  lib/systemd/system/apt-daily-upgrade.service
                        /system/autovt@.service
/lib/systemd/system/avahi-daemon.service
/lib/systemd/system/binfmt-support.service
/lib/systemd/system/bluetooth.service
/lib/systemd/system/bolt.service
 /lib/systemd/system/brltty.service
/lib/systemd/system/brltty-udev.service
 /lib/systemd/system/clean-mount-point@.service
/lib/systemd/system/colord.service
/lib/systemd/system/cordinatervice
/lib/systemd/system/configure-printer@.service
/lib/systemd/system/console-getty.service
/lib/systemd/system/container-getty@.service
/lib/systemd/system/cron.service
 /lib/systemd/system/cron.service
/lib/systemd/system/cryptdisks-early.service
/lib/systemd/system/cryptdisks.service
/lib/systemd/system/cups-browsed.service
 /lib/systemd/system/cups.service
 /lib/systemd/system/dbus-org.freedesktop.hostname1.service
/lib/systemd/system/dbus-org.freedesktop.locale1.service
/lib/systemd/system/dbus-org.freedesktop.timedate1.service
/lib/systemd/system/dbus.service
/lib/systemd/system/debug-shell.service
/lib/systemd/system/dmesg.service
/lib/systemd/system/e2scrub_all.service
/lib/systemd/system/e2scrub_fail@.service
 /lib/systemd/system/e2scrub_reap.service
 /lib/systemd/system/e2scrub@.service
 /lib/systemd/system/emergency.service
 /lib/systemd/system/fprintd.service
 /lib/systemd/system/friendly-recovery.service
/lib/systemd/system/fstrim.service
/lib/systemd/system/fwupd-offline-update.service
```

```
/lib/systemd/system/systemd-random-seed.service
/lib/systemd/system/systemd-reboot.service
/lib/systemd/system/systemd-remount-fs.service
/lib/systemd/system/systemd-resolved.service
/lib/systemd/system/systemd-resolved.service
/lib/systemd/system/systemd-suspend.service
/lib/systemd/system/systemd-suspend-then-hibernate.service
/lib/systemd/system/systemd-sysctl.service
/lib/systemd/system/systemd-sysusers.service
/lib/systemd/system/systemd-timedated.service
/lib/systemd/system/systemd-timesyncd.service
/lib/systemd/system/systemd-time-wait-sync.service
/lib/systemd/system/systemd-tmpfiles-clean.service
/lib/systemd/system/systemd-tmpfiles-setup-dev.service
/lib/systemd/system/systemd-tmpfiles-setup.service
 /lib/systemd/system/systemd-udevd.service
/lib/systemd/system/systemd-udev-settle.service
 /lib/systemd/system/systemd-udev-trigger.service
 /lib/systemd/system/systemd-update-utmp-runlevel.service
 lib/systemd/system/systemd-update-utmp.service
/lib/systemd/system/systemd-user-sessions.service
 lib/systemd/system/systemd-volatile-root.service
 /lib/systemd/system/system-update-cleanup.service
 /lib/systemd/system/thermald.service
 /lib/systemd/system/ua-license-check.service
 /lib/systemd/system/ua-reboot-cmds.service
,
/lib/systemd/system/ua-timer.service
 /lib/systemd/system/udisks2.service
 /lib/systemd/system/ufw.service
/lib/systemd/system/unattended-upgrades.service
/lib/systemd/system/upower.service
/lib/systemd/system/usb_modeswitch@.service
 /lib/systemd/system/usbmuxd.service
,
/lib/systemd/system/user-runtime-dir@.service
/lib/systemd/system/user@.service
/lib/systemd/system/uuidd.service
/lib/systemd/system/vboxautostart-service.service
/lib/systemd/system/vboxballoonctrl-service.service
/lib/systemd/system/vboxballoonctrl-service.service
/lib/systemd/system/vboxdrv.service
/lib/systemd/system/vboxweb-service.service
/lib/systemd/system/wacom-inputattach@.service
/lib/systemd/system/whoopsie.service
/lib/systemd/system/wpa_supplicant-nl80211@.service
/lib/systemd/system/wpa_supplicant.service
/lib/systemd/system/wpa_supplicant@.service
/lib/systemd/system/wpa_supplicant.wired@.service
/lib/systemd/system/wpa_supplicant-wired@.service
 'lib/systemd/system/x11-common.service
pluno@LAB-DACC-08:~/Imagens/Lab2Linux$
pluno@LAB-DACC-08:~/Imagens/Lab2Linux$ ls /lib/systemd/system/cron.service
/lib/systemd/system/cron.service
 aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ #fim do item 5.6
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$
```

```
luno@LAB-DACC-08:~/Imagens/Lab2Linux$ #inicio do item 6
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ tail -5 /etc/passwd/^C
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ tail -5 /etc/passwd
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
aluno::1001:1001:Aluno,,,:/home/aluno:/bin/bash
lightdm:x:128:135:Light Display Manager:/var/lib/lightdm:/bin/false
 nvidia-persistenced:x:127:134:NVIDIA Persistence Daemon,,,:/nonexistent:/usr/sbin/nologin
 sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
  rluno@LAB-DACC-08:~/Imagens/Lab2Linux$
rluno@LAB-DACC-08:~/Imagens/Lab2Linux$ #inicio do item 6
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ tail -5 /etc/passwd
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
aluno::1001:1001:Aluno,,,:/home/aluno:/bin/bash
lightdm:x:128:135:Light Display Manager:/var/lib/lightdm:/bin/false
nvidia-persistenced:x:127:134:NVIDIA Persistence Daemon,,,:/nonexistent:/usr/sbin/nologin
 sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ head -1 /etc/passwd
  oot:x:0:0:root:/root:/bin/bash
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$
luno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat /etc/passwd | grep
Uso: grep [OPÇĀO]... PADRÕES [ARQUIVO]...
Experimente "grep --help" para mais informações.
 :luno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat /etc/passwd | grep "mail\|www-data\|syslog\|sshd"
 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
nww-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
lunogLAB-DACC-08:-/Imagens/Labzlinux$
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat /etc/passwd | wc -l
aluno@LAB-DACC-08:~/Imagens/Lab2Linux$ cat /etc/passwd | cut -f1 -d: | sort | tr "\n" " " ; echo administrador aluno _apt avahi avahi-autoipd backup bin colord cups-pk-helper daemon dnsmasq games gdm ge oclue gnats gnome-initial-setup hplip irc kernoops lightdm list lp mail man messagebus news nm-openvpn no body nvidia-persistenced proxy pulse root rtkit saned speech-dispatcher sshd sssd sync sys syslog systemd-coredump systemd-network systemd-resolve systemd-timesync tcpdump tss usbmux uucp uuidd whoopsie www-dat
  luno@LAB-DACC-08:~/Imagens/Lab2Linux$
```

```
administrador@LAB-DACC-09:-$ sudo adduser derick
[sudo] senha para administrador:
Adicionando novo grupo 'derick' (1003) ...
Adicionando novo usuário `derick' (1002) ao grupo `derick' ...
Criando diretório pessoal '/home/derick' ...
Copiando arquivos de '/etc/skel' ...
Nova senha:
Redigite a nova senha:
passwd: senha atualizada com sucesso
Modificando as informações de usuário para derick
Informe o novo valor ou pressione ENTER para aceitar o padrão
Nome Completo []:
Número da Sala []:
Fone de Trabalho []:
Fone Residencial []:
Outro []:
A informação está correta? [S/n]
administrador@LAB-DACC-09:-$ S
S: comando não encontrado
administrador@LAB-DACC-09:-$ cat /etc/passwd | grep "derick"
Unrick:x:1002:1003:,,,:/home/marick:/bin/bash
administrador@LAB-DACC-09:-$ #fim do item 6.1
```

```
strador@LAB-DACC-09:~$ #iniciando o item 6.2
 dministrador@LAB-DACC-09:~$
 dministrador@LAB-DACC-09:~$ cat /etc/shadow
cat: /etc/shadow: Permissão negada
administrador@LAB-DACC-09:~$ sudo cat /etc/shadow
root:$6$fyU9Rw3N.LqItk0n$rjlAFkz9RkC7fÁ.S9É3oQAujB/W9Xgv9fOyPTV0rADqNc.oRjh7dtGjR20MikCpyrvS6t0/UGj14P60y
q2G0l0:19087:0:99999:7:::
daemon:*:19046:0:99999:7:::
bin:*:19046:0:99999:7:::
sys:*:19046:0:99999:7:::
sync:*:19046:0:99999:7:::
games:*:19046:0:99999:7:::
man:*:19046:0:99999:7:::
lp:*:19046:0:99999:7:::
mail:*:19046:0:99999:7:::
news:*:19046:0:99999:7:::
uucp:*:19046:0:99999:7:::
proxy:*:19046:0:99999:7:::
www-data:*:19046:0:99999:7:::
backup:*:19046:0:99999:7:::
list:*:19046:0:99999:7:::
irc:*:19046:0:99999:7:::
gnats:*:19046:0:99999:7:::
nobody:*:19046:0:99999:7:::
systemd-network:*:19046:0:99999:7:::
systemd-resolve:*:19046:0:99999:7:::
systemd-timesync:*:19046:0:99999:7:::
messagebus:*:19046:0:99999:7:::
syslog:*:19046:0:99999:7:::
apt:*:19046:0:99999:7:::
tss:*:19046:0:99999:7:::
uuidd:*:19046:0:99999:7:::
tcpdump:*:19046:0:99999:7:::
avahi-autoipd:*:19046:0:99999:7:::
usbmux:*:19046:0:99999:7:::
rtkit:*:19046:0:99999:7:::
dnsmasq:*:19046:0:99999:7:::
cups-pk-helper:*:19046:0:99999:7:::
speech-dispatcher:!:19046:0:99999:7:::
avahi:*:19046:0:99999:7:::
kernoops:*:19046:0:99999:7:::
saned:*:19046:0:99999:7:::
nm-openvpn:*:19046:0:99999:7:::
hplip:*:19046:0:99999:7:::
whoopsie:*:19046:0:99999:7:::
colord:*:19046:0:99999:7:::
geoclue:*:19046:0:99999:7:::
pulse:*:19046:0:99999:7:::
gnome-initial-setup:*:19046:0:99999:7:::
gdm:*:19046:0:99999:7:::
sssd:*:19046:0:99999:7:::
administrador:$6$jvGADAzfv03nfz6U$q8FjNcZsTtvHlINvwFDn.09jTPnMc7S84uqVv.N0lqelz4QEYBp0e.JLMDGnM7J5//v0zCK
p06B2wP0aalFkx.:19089:0:99999:7:::
systemd-coredump:!!:19084:::::
aluno:$6$27$PbiFDCh9c8HF7$daT7acC8pKC9xea39FGao1YP5DnTCFmP77XVvsV/20mClKk/L0I51aNOuakWw7a8brRm1vMzNKHWi
```

```
kernoops:*:19046:0:99999:7:::
saned:*:19046:0:99999:7:::
nm-openvpn:*:19046:0:99999:7:::
hplip:*:19046:0:99999:7:::
whoopsie:*:19046:0:99999:7:::
colord:*:19046:0:99999:7:::
geoclue:*:19046:0:99999:7:::
pulse:*:19046:0:99999:7:::
.
gnome-initial-setup:*:19046:0:99999:7:::
gdm:*:19046:0:99999:7:::
sssd:*:19046:0:99999:7:::
administrador:$6$jvGADAzfv03nfz6U$q8FjNcZsTtvHlINvwFDn.09jTPnMc7S84uqVv.N0lqelz4QEYBp0e.JLMDGnM7J5//v0zCK
p06B2wP0aalFkx.:19089:0:99999:7:::
systemd-coredump:!!:19084:::::
aluno:$6$2ZSPbLEDCh9c8HFZ$daIZgcC8pKC9xeq39EGqo1YP5DnICFmP7ZXVysV/20mClKk/L0I51aNQugkWwZg8brRm1vMzNKHWinc
T8f7Hz0:19085:0:99999:7:::
lightdm:*:19085:0:99999:7:::
nvidia-persistenced:*:19086:0:99999:7:::
sshd:*:19086:0:99999:7:::
derick:$6$Sn8Td5d0dKJMoic4$RDnKPBZ4RWj4KpzU4jPn3NwVXQc3yt9ZpF0GS0ofhIWVloEPXiiPlHJD0rPzTa6ETZm2/XsCi2Xqp1
administrador@LAB-DACC-09:~$ sudo cat /etc/shadow | grep "derick"
administrador@LAB-DACC-09:~$ export HISTFILE=dev/null
administrador@LAB-DACC-09:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-512 --salt=".x7wn1nz7Y713A
tz"
Comando 'mkpasswd' não encontrado, mas poder ser instalado com:
sudo apt install whois
administrador@LAB-DACC-09:~$
 dministrador@LAB-DACC-09:~$ sudo apt install whois
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
Os NOVOS pacotes a seguir serão instalados:
0 pacotes atualizados, 1 pacotes novos instalados, 0 a serem removidos e 216 não atualizados.
É preciso baixar 44,7 kB de arquivos.
Depois desta operação, 279 kB adicionais de espaço em disco serão usados.
Obter:1 http://br.archive.ubuntu.com/ubuntu focal/main amd64 whois amd64 5.5.6 [44,7 kB]
Baixados 44,7 kB em 0s (236 kB/s)
A seleccionar pacote anteriormente não seleccionado whois.
A selectionar pacote anterformente nao selectionado whois.
(Lendo banco de dados ... 339887 ficheiros e directórios actualmente instalados.)
A preparar para desempacotar .../archives/whois_5.5.6_amd64.deb ...
A descompactar whois (5.5.6) ...
Configurando whois (5.5.6) ...
A processar 'triggers' para man-db (2.9.1-1) ...
administrador@LAB-DACC-09:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-512 --salt=".x7wn1nz7Y713A
tz"
$6$.x7wn1nz7Y713Atz$4eor9BMmiPRJQziHhc5nFQzgmgRRTzha/hvrp4vABIzdZasGffM02.uWWGU0nFp40hoBQ8KVvt3c0Za3qiFxs
administrador@LAB-DACC-09:~$ #fim do item 6.2
 dministrador@LAB-DACC-09:~$
 dministrador@LAB-DACC-09:~$
```

```
administrador@LAB-DACC-09:-$
administrador@LAB-DACC-09:-$ #iniciando o item 6.3
administrador@LAB-DACC-09:-$
administrador@LAB-DACC-09:-$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,administrador
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:administrador
floppy:x:25:
tape:x:26:
sudo:x:27:administrador
audio:x:29:pulse
dip:x:30:administrador
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:administrador
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
```

```
derick:x:1003:
 administrador@LAB-DACC-09:~$ head -3 /etc/group
 root:x:0:
daemon:x:1:
bin:x:2:
 administrador@LAB-DACC-09:~$ cat /etc/group | grep derick
 derick:x:1003:
administrador@LAB-DACC-09:~$ cat /etc/group | grep adm
adm:x:4:syslog,administrador
cdrom:x:24:administrador
sudo:x:27:administrador
sudo:x:27:administrador
dip:x:30:administrador
plugdev:x:46:administrador
lpadmin:x:120:administrador
lxd:x:132:administrador
administrador:x:1000:
sambashare:x:133:administrador
sambashare:x:133:administrador
mount-ntfs:x:1002:aluno,administrador
administrador@LAB-DACC-09:~$ sudo addgroup DrailtonPizza
addgroup: Insira um nome de usuário que combine com a expressão regular configurada
via variável de configuração NAME_REGEX[_SYSTEM]. Use a opção`--force-badname'
para relaxar essa verificação ou reconfigurar a variável NAME_REGEX.
administrador@LAB-DACC-09:~$ sudo addgroup drailtonpizza
Adicionando grupo `drailtonpizza' (GID 1004) ...
Concluído.
 administrador@LAB-DACC-09:~$ cat /etc/group | grep drailtonpizza
                            :x:1004:
 administrador@LAB-DACC-09:~$ sudo usermod -a -G drailtonpizza derick
administrador@LAB-DACC-09:~$ cat /etc/group | grep drailtonpizza
                       zza:x:1004:derick
```

```
administrador@LAB-DACC-09:~$ groups derick
derick : derick drailtonpizza
administrador@LAB-DACC-09:~$ #fim do item 6.3
```

```
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 6.4
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ id
uid=1000(administrador) gid=1000(administrador) grupos=1000(administrador),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),132(lxd),133(sambashare),1002(mount-ntfs) administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -l
total 0
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo '#!/bin/bash'
#!/bin/bash
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo '#!/bin/bash' > HelloBash.sh
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "Hello Bash ..." ' >> HelloBash.sh
> cat HelloBash.sh
> ^C
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ cat HelloBash.sh
#!/bin/bash
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "Hello Bash ..." ' >> HelloBash.sh
> ^C
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo 'echo "Hello Bash ..."' >> HelloBash.sh administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ cat HelloBash.sh
#!/bin/bash
echo "Hello Bash ..."
echo "Hello Bash ..."

administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -l HelloBash.sh

deigisterador 35 set 30 15:19 HelloBash
 rw-rw-r-- 1 administrador administrador 35 set 30 15:19 HelloBash.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./HelloBash.sh
bash: ./HelloBash.sh: Permissão negada
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ chmod u+x HelloBash.sh
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -l HelloBash.sh
 rwxrw-r-- 1 administrador administrador 35 set 30 15:19 HelloBash.sh
  dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./HelloBash.sh
Hello Bash ...
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ chmod 700 HelloBash.sh
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -l HelloBash.sh
 rwx----- 1 administrador administrador 35 set 30 15:19 HelloBash.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 ddministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ chmod 755 HelloBash.sh
ddministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -l HelloBash.sh
 rwxr-xr-x 1 administrador administrador 35 set 30 15:19 HelloBash.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #fim do item 6.4
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 6.5
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ sudo chgrp derick HelloBash.sh
[sudo] senha para administrador:
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
```

```
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 6.6
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ sudo cat /etc/sudoers
# This file MUST be edited with the 'visudo' command as root.
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
Defaults
                      env_reset
mail_badpass
Defaults
                      secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin"
Defaults
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification root ALL=(ALL:ALL) ALL
# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL
# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
# See sudoers(5) for more information on "#include" directives:
#includedir /etc/sudoers.d
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #fim do item 6.6 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 7.1
 ndministrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ cat /etc/passwd | cut -f 7 -d: | sort | uniq -c
      3 /bin/bash
        7 /bin/false
        1 /bin/sync
      40 /usr/sbin/nologin
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ /bin/false
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo $?
-
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ /bin/true
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo $?
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ /usr/sbin/nologin
This account is currently not available.
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo $?
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ cat /var/log/auth.log | grep nologin | tail -1
Sep 30 16:03:11 LAB-DACC-08 nologin: Attempted login by administrador (UID: 1000) on /dev/pts/0
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
   ninistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 7.2
administrador@LAB-DACC-08:-/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ add
                                           addr2line
add-apt-repository addgroup addr2line adduser
addgnupghome addpart add-shell
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ cat /etc/adduser.conf
6.4.png 6.5.png 6.6.png 7.1.png
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
                                                                                                  HelloBash.sh
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #fim do item 7.2 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
```

```
ninistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 7.3
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ head -1 /etc/init.d/cron
#!/bin/sh
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ nano HelloWorld.sh
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ chmod 700 HelloWorld.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./HelloWorld.sh
Hello World!
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ nano HelloWorld.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./HelloWorld.sh
Hello, Barney Calhoun!
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ nano EstruturaCondicional.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ chmod 700 EstruturaCondicional.sh
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./EstruturaCondicional.sh
Digite um número: 4
o número 4 é maior que zero!
 dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ./EstruturaCondicional.sh
Digite um número: 5
o número 5 é maior que zero!
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "5" | ./EstruturaCondicional.sh
Digite um número: o número 5 é maior que zero!
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "0" | ./EstruturaCondicional.sh
Digite um número: ./EstruturaCondicional.sh: linha 5: [0: comando não encontrado
O número 0 é menor que zero!
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "-8" | ./EstruturaCondicional.sh
Digite um número: ./EstruturaCondicional.sh: linha 5: [-8: comando não encontrado
O número -8 é menor que zero!
     nistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ While [ 1 ] ; do
bash: erro de sintaxe próximo ao token inesperado `do
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ echo "Loop infinito..."
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ sleep 1
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ while [ 1 ] ; do > echo "Loop infinito..."
> sleep 1
> done
"Loop infinito..."
"Loop infinito…"
"Loop infinito..."
 'Loop infinito…"
"Loop infinito..."
 "Loop infinito..."
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ grep -r "^#\!/bin/sh" /etc 2> /dec/null
bash: /dec/null: Arquivo ou diretório inexistente
 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ grep -r "^#\!/bin/sh" /etc 2> /dev/null
```

```
inistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ nano ~/.bashrc
inistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ source ~/.bashrc
inistrador@LAB-DACC-08:~/Imagens/Lab4Linux$ nano ~/.bashrc
                                                                      @LAB-DACC-08:~/Imagens/Lab4Linux$ source ~/.bashrc
                                                                          LAB-DACC-08:~/Imagens/Lab4Linux$ sudo apt install fortune cowsay
  administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ sudo aj [sudo] senha para administrador: Lendo listas de pacotes... Pronto Construindo árvore de dependências Lendo informação de estado... Pronto Note, a seleccionar 'fortune-mod' em vez de 'fortune' Os pacotes adicionais seguintes serão instalados: fortunes-min librecode0 Pacotes sugeridos: filters cowsay-off fortunes
Os NOVOS pacotes a seguir serão instalados: cowsay fortune-mod fortunes-min librecode0 o pacotes atualizados, 4 pacotes novos instalados, 0 a
         pacotes atualizados, 4 pacotes novos instalados, 0 a serem removidos e 91 não atualizados.
E preciso baixar 634 kB de arquivos.
0 pacotes atualizados, 4 pacotes novos instalados, 0 a serem removidos e 91 não atualizados.
É preciso baixar 634 kB de arquivos.
Depois desta operação, 2.228 kB adicionais de espaço em disco serão usados.
Você quer continuar? [5/n] S
Obter:1 http://br.archive.ubuntu.com/ubuntu focal/universe amd64 cowsay all 3.03+dfsg2-7 [18,5 kB]
Obter:2 http://br.archive.ubuntu.com/ubuntu focal/main amd64 librecode0 amd64 3.6-24 [523 kB]
Obter:3 http://br.archive.ubuntu.com/ubuntu focal/universe amd64 fortune-mod amd64 1:1.99.1-7build1 [37,3 kB]
Obter:4 http://br.archive.ubuntu.com/ubuntu focal/universe amd64 fortune-mod amd64 1:1.99.1-7build1 [55,1 kB]
Baixados 634 kB em 1s (922 kB/s)
A seleccionar pacote anteriormente não seleccionado cowsay.
(Lendo banco de dados ... 344645 ficheiros e directórios actualmente instalados.)
A preparar para desempacotar .../cowsay_3.03+dfsg2-7_all.deb ...
A descompactar cowsay (3.03+dfsg2-7) ...
A seleccionar pacote anteriormente não seleccionado librecode0:amd64.
A preparar para desempacotar .../librecode0_3.6-24_amd64.deb ...
A seleccionar pacote anteriormente não seleccionado fortune-mod.
A preparar para desempacotar .../fortune-mod_1%3a1.99.1-7build1_amd64.deb ...
A descompactar fortune-mod (1:1.99.1-7build1) ...
A seleccionar pacote anteriormente não seleccionado fortunes-min.
A preparar para desempacotar .../fortune-mod_1%3a1.99.1-7build1_all.deb ...
A descompactar fortune-min (1:1.99.1-7build1) ...
Configurando fortunes-min (1:1.99.1-7build1) ...
Configurando fortunes-min (1:1.99.1-7build1) ...
Configurando fortune-mod (1:1.99.1-7build1) ...
Configurando f
                                                    What do you call the money you pay to the government when you ride into the country on the back of an elephant? A howdah duty.
            Q:
            A:
                                                             (00)\_____)\/\
||----w|
|| ||
           dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #fim do item 7.4
dministrador@LAB-DACC-08:~/Imagens/Lab4Linux$
       administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #inicio do item 7
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ ls -lh /bin/sh
   Irwxrwxrwx 1 root root 4 abr 2 19:41 /bin/sh -> dash administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ administrador@LAB-DACC-08:~/Imagens/Lab4Linux$ #fim do item 7 administrador@LAB-DACC-08:~/Imagens/Lab4Linux$
```