Exercicios Práticos Comandos Linux 9

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1 - Pesquisa de Arquivos

```
correia@correia-VirtualBox:~$ locate example
/etc/alsa/conf.d/99-pulseaudio-default.conf.example
/etc/udisks2/mount_options.conf.example
/etc/vmware-tools/tools.conf.example
/snap/core22/1122/usr/lib/systemd/network/80-wifi-ap.network.example
/snap/core22/1122/usr/lib/systemd/network/80-wifi-station.network.example
/snap/core22/1122/usr/share/doc/adduser/examples
/snap/core22/1122/usr/share/doc/adduser/examples/adduser.local.conf.examples
```

2 - Backup Incremental

```
correia@correia-VirtualBox:~/Documents$ rsync -av --delete ./exercicio_linux ./b
ackup_de_exercicios
sending incremental file list
created directory ./backup_de_exercicios
exercicio_linux/
exercicio_linux/meu_script.sh
exercicio_linux/teste.txt
rsync: [sender] send_files failed to open "/home/correia/Documents/exercicio_lin
ux/teste3.txt": Permission denied (13)
exercicio_linux/teste_2.txt

sent 369 bytes  received 141 bytes  1.020,00 bytes/sec
total size is 36  speedup is 0,07
rsync error: some files/attrs were not transferred (see previous errors) (code 2
3) at main.c(1338) [sender=3.2.7]
correia@correia-VirtualBox:~/Documents$ ls
backup_de_exercicios  exercicio_linux                     teste.txt
backup.tar.gz         exercicio_linux_compactado_tar.gz
correia@correia-VirtualBox:~/Documents$ cd backup_de_exercicios/
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ ls
exercicio_linux
```

3 - Controlo de Serviços

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ systemctl list-unit
s --type=service
  UNIT                                              LOAD    ACTIVE SUB       D>
  accounts-daemon.service                           loaded  active running   A>
  acpid.service                                     loaded  active running   A>
  alsa-restore.service                              loaded  active exited    S>
  anacron.service                                   loaded  active running   R>
  apparmor.service                                  loaded  active exited    L>
  apport.service                                    loaded  active exited    L>
  avahi-daemon.service                              loaded  active running   A>
  colord.service                                    loaded  active running   M>
  console-setup.service                             loaded  active exited    S>
  cron.service                                      loaded  active running   R>
  cups-browsed.service                              loaded  active running   M>
  cups.service                                      loaded  active running   C>
  dbus.service                                      loaded  active running   D>
  gdm.service                                       loaded  active running   G>
```
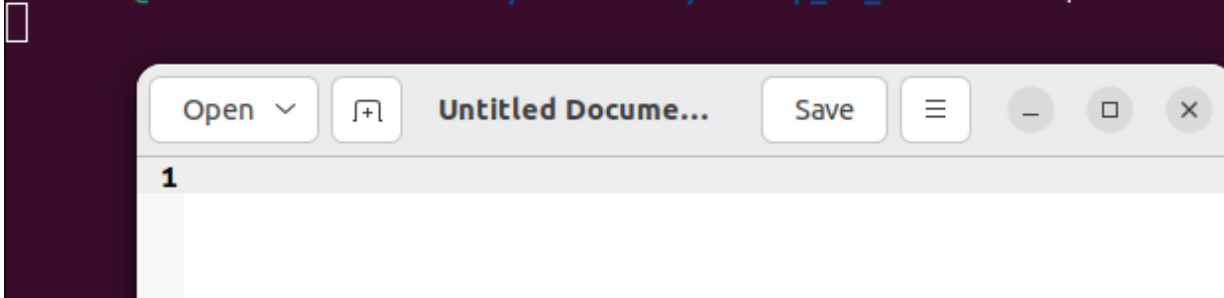
```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ sudo systemctl rest
art ssh
```

4 - Limpeza de Disco

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ sudo apt autoremove
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 17 not upgraded.
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ sudo apt clean
```

5 - Filtragem de Saída

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ nice -n 10 gedit
```

Open ∨	⊞	**Untitled Docume...**	Save	≡	—	□	✕
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6 - Controle de Uso de Recursos

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ top
```

```
top - 16:46:13 up 18 min,  1 user,  load average: 0,06, 0,09, 0,12
Tasks: 197 total,   1 running, 196 sleeping,   0 stopped,   0 zombie
%Cpu(s):  3,8 us,  2,3 sy,  0,0 ni, 93,7 id,  0,0 wa,  0,0 hi,  0,3 si,  0,0 st
MiB Mem :   3906,7 total,   1733,7 free,    709,1 used,   1463,9 buff/cache
MiB Swap:   3750,0 total,   3750,0 free,      0,0 used.   2912,1 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1081 correia   20   0 4864432 328144 132004 S  23,2   8,2   0:59.16 gnome-s+
   1748 correia   20   0  563276  51952  39500 S   5,6   1,3   0:09.54 gnome-t+
   1644 correia   20   0 2930496  60780  44676 S   1,3   1,5   0:02.73 gjs
   3343 correia   20   0   21732   4096   3328 R   0,7   0,1   0:00.22 top
     52 root      20   0       0      0      0 I   0,3   0,0   0:00.25 kworker+
    317 root      20   0       0      0      0 I   0,3   0,0   0:00.46 kworker+
   1608 correia   39  19  656616  35092  22912 S   0,3   0,9   0:01.98 tracker+
      1 root      20   0  167904  13008   8272 S   0,0   0,3   0:17.22 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+
      5 root       0 -20       0      0      0 I   0,0   0,0   0:00.00 slub_fl+
      6 root       0 -20       0      0      0 I   0,0   0,0   0:00.00 netns
      8 root       0 -20       0      0      0 I   0,0   0,0   0:00.00 kworker+
     11 root       0 -20       0      0      0 I   0,0   0,0   0:00.00 mm_perc+
     12 root      20   0       0      0      0 I   0,0   0,0   0:00.00 rcu_tas+
     13 root      20   0       0      0      0 I   0,0   0,0   0:00.00 rcu_tas+
```

7 - Manipulação de Data e Hora

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ date
qua 06 mar 2024 16:47:46 WET
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ sudo date -s "2024-
03-06 15:47:46"
qua 06 mar 2024 15:47:46 WET
```

8 - Monitoramento de Recursos htop

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ htop
```

```
  0[|                           0.7%]   Tasks: 110, 258 thr; 2 running
  1[|                           0.7%]   Load average: 0.30 0.16 0.12
  2[|                           0.7%]   Uptime: 00:25:33
  3[||                          2.0%]
Mem[||||||||||||||||||||| 736M/3.82G]
Swp[                        0K/3.66G]

  PID USER       PRI  NI  VIRT   RES   SHR S  CPU%▽MEM%   TIME+   Command
 2334 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.22 /usr/lib/snapd/
 2335 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.12 /usr/lib/snapd/
 2336 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.65 /usr/lib/snapd/
 2337 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.00 /usr/lib/snapd/
 2339 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.35 /usr/lib/snapd/
 2340 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.00 /usr/lib/snapd/
 2349 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.37 /usr/lib/snapd/
 2399 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.51 /usr/lib/snapd/
 2432 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.57 /usr/lib/snapd/
 2800 root        20   0 15436  9088  7552 S  0.0  0.2  0:00.01 sshd: /usr/sbin
 3584 correia     20   0  558M 54532 40324 S  0.0  1.4  0:00.98 /usr/bin/gedit
 3585 correia     20   0  558M 54532 40324 S  0.0  1.4  0:00.00 /usr/bin/gedit
 3586 correia     20   0  558M 54532 40324 S  0.0  1.4  0:00.01 /usr/bin/gedit
 3588 correia     20   0  558M 54532 40324 S  0.0  1.4  0:00.00 /usr/bin/gedit
F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
```

Usando o F9(Kill) para matar o processo do gedit:

```
  0[||                          1.3%]   Tasks: 109, 256 thr; 1 running
  1[||                          2.6%]   Load average: 0.18 0.14 0.11
  2[                            0.0%]   Uptime: 00:26:03
  3[|                           0.6%]
Mem[|||||||||||||||||||||| 736M/3.82G]
Swp[                        0K/3.66G]

  PID USER       PRI  NI  VIRT   RES   SHR S  CPU%▽MEM%   TIME+   Command
 2334 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.22 /usr/lib/snapd/
 2335 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.12 /usr/lib/snapd/
 2336 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.65 /usr/lib/snapd/
 2337 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.00 /usr/lib/snapd/
 2339 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.35 /usr/lib/snapd/
 2340 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.00 /usr/lib/snapd/
 2349 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.37 /usr/lib/snapd/
 2399 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.51 /usr/lib/snapd/
 2432 root        20   0 1432M 32008 20096 S  0.0  0.8  0:00.57 /usr/lib/snapd/
 2800 root        20   0 15436  9088  7552 S  0.0  0.2  0:00.01 sshd: /usr/sbin
 3616 correia     20   0  745M 13952 11776 S  0.0  0.3  0:00.00 /usr/libexec/xd
 3618 correia     20   0  532M  7296  6656 S  0.0  0.2  0:00.00 /usr/libexec/xd

F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
```

9 - Manipulação de Strings

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ stringTeste="Olá Mu
ndo"
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ echo ${#stringTeste
}
9
```

```
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ stringTeste="${stri
ngTeste^^}"
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ echo $stringTeste
OLÁ MUNDO
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ stringTeste="${stri
ngTeste,,}"
correia@correia-VirtualBox:~/Documents/backup_de_exercicios$ echo $stringTeste
olá mundo
```

10 - Uso Avançado do find

```
correia@correia-VirtualBox:~$ find . -maxdepth 1 -type f -mtime -5 -exec ls -l {
} \;
-rw------- 1 correia correia 20 mar  6 16:36 ./.lesshst
```