Exercicios Práticos Comandos Linux 7



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1 - Monitorização de Recursos

```
correia@correia-VirtualBox:~/Documents$ top
top - 22:28:34 up 1:31, 1 user, load average: 0,00, 0,00, 0,00
Tasks: 198 total, 2 running, 196 sleeping, 0 stopped, 0 zombie
%Cpu(s): 21,1 us, 7,9 sy, 0,0 ni, 71,1 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
MiB Mem :
          3906,7 total, 1523,8 free,
                                          792,1 used,
                                                       1590,9 buff/cache
                                                       2838,0 avail Mem
MiB Swap:
           3750,0 total,
                          3750,0 free,
                                            0,0 used.
                 PR NI VIRT RES
   PID USER
                                         SHR S %CPU %MEM
                                                              TIME+ COMMAND
                    0 5092468 366608 138532 S 109,1
   948 correia
                 20
                                                            3:05.99 gnome-shell
                                              27,3
  3804 correia
                 20
                    0 562156 52152 39952 R
                                                       1,3
                                                            0:03.19 gnome-terminal-
                                                18,2
  3979 correia 20
                    0
                         21876
                                3968
                                        3328 R
                                                            0:00.22 top
                                                      0,1
     1 root
                 20
                        167772
                               12700
                                        8220 S
                                                 0,0
                                                            0:01.84 systemd
                     0
                                                       0,3
     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
                             0
                  0 -20
                                    0
                                           0 I
                                                 0,0
                                                      0.0
                                                            0:00.00 rcu par qp
```

```
correia@correia-VirtualBox:~/Documents$ du -h /home
4,0K /home/correia/Downloads
4,0K /home/correia/Music
4,0K /home/correia/Pictures
4,0K /home/correia/Public
8,0K /home/correia/.cache/ubuntu-pro
392K /home/correia/.cache/gstreamer-1.0
```

2 - Cron Jobs

```
correia@correia-VirtualBox:~/Documents$ crontab -e
no crontab for correia - using an empty one
crontab: installing new crontab
correia@correia-VirtualBox:~/Documents$ crontab -l
```

3 - Histórico de Comandos

* * * * * touch ~/Documents/teste.txt

```
correia@correia-VirtualBox:~/Documents$ history
    1 vim
    2 ls
    3 sudo apt update
    4 **
```

```
correia@correia-VirtualBox:~/Documents$ !2
ls
arquivo_copiado.txt arquivo.txt exercicio_linux_compactado_tar.gz
arquivo_permissao.txt exercicio_linux teste.txt
```

4 - Filtros e Redirecionamento

5 - Usuários e Grupos

```
correia@correia-VirtualBox:~/Documents$ cut -d: -f1 /etc/passwd

mpttp
gdm

correia
```

```
correia@correia-VirtualBox:~/Documents$ sudo addgroup meugrupo
[sudo] password for correia:
Adding group `meugrupo' (GID 1001) ...
Done.
correia@correia-VirtualBox:~/Documents$ sudo usermod -aG meugrupo correia
correia@correia-VirtualBox:~/Documents$ groups correia
correia : correia adm cdrom sudo dip plugdev lpadmin lxd sambashare meugrupo
```

6 - SSH

```
correia@correia-VirtualBox:~/Documents$ sudo systemctl status ssh
ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2024-02-26 22:55:51 WET; 27s ago
       Docs: man:sshd(8)
             man:sshd config(5)
   Main PID: 4615 (sshd)
      Tasks: 1 (limit: 4598)
     Memory: 1.7M
        CPU: 21ms
     CGroup: /system.slice/ssh.service
              -4615 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
fev 26 22:55:51 correia-VirtualBox systemd[1]: Starting OpenBSD Secure Shell server...
fev 26 22:55:51 correia-VirtualBox sshd[4615]: Server listening on 0.0.0.0 port 22.
fev 26 22:55:51 correia-VirtualBox sshd[4615]: Server listening on :: port 22.
fev 26 22:55:51 correia-VirtualBox systemd[1]: Started OpenBSD Secure Shell server.
correia@correia-VirtualBox:~/Documents$ ssh localhost
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:7sGxyXmkM+K4Phv2zl3XsewMWGGiRfkTsiMUxDiuAHk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'localhost' (ED25519) to the list of known hosts.
correia@localhost's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-21-generic x86 64)
```

7 - Firewall(UFW)

```
correia@correia-VirtualBox:~$ sudo ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
correia@correia-VirtualBox:~$ sudo ufw allow ssh
Rule added
Rule added (v6)
correia@correia-VirtualBox:~$ sudo ufw status
Status: active
То
                           Action
                                       From
22/tcp
                           ALLOW
                                       Anywhere
22/tcp (v6)
                           ALLOW
                                       Anywhere (v6)
```

8 - Visualização de Logs

correia@correia-VirtualBox:~\$ tail -n 10 /var/log/syslog | grep "error"
Feb 26 23:00:06 correia-VirtualBox tracker-extract[5453]: Task for 'file:///usr/share/ap
plications/htop.desktop.dpkg-new' finished with error: Error when getting information fo
r file "/usr/share/applications/htop.desktop.dpkg-new": No such file or directory

9 - Instalação de Pacotes

```
correia@correia-VirtualBox:~$ sudo apt install nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  hunspell
The following NEW packages will be installed:
  nano
```

```
correia@correia-VirtualBox:~$ sudo apt install htop
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
    lm-sensors
The following NEW packages will be installed:
    htop
```

10 - Variáveis de Ambiente

```
correia@correia-VirtualBox:~$ export MEU_DIRETORIO=$HOME
correia@correia-VirtualBox:~$ cd $MEU_DIRETORIO
correia@correia-VirtualBox:~$ cd Documents/
correia@correia-VirtualBox:~/Documents$ cd $MEU_DIRETORIO
```