

UNIVERSIDADE FEDERAL DE UBERLÂNDIA FACULDADE DE ENGENHARIA MECÂNICA



Graduação em Engenharia Mecatrônica

Relatório Semana 01

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Uberlândia,

Comandos do linux:

ls: Lista arquivos e diretórios presentes no diretório atual:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01 Q = - □ ×

jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ ls

Semana01 Semana01.txt
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

mkdir: Cria um diretório

cd: Direciona para um diretório

pwd: exibe o diretório atual

whoami: exibe o nome do usuário logado

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ mkdir semana01_teste
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cd semana01_teste
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/semana01_teste$ pwd
/home/jmcxavier/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01_teste
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/semana01_teste$ whoami
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/semana01_teste$
```

Redirecionadores: "> (sobrescrever)": Envia um comando para um arquivo sobrescrevendo o tudo que se tem no arquivo, caso não exista o arquivo, ele será criado:

">>(Adicionar)": Adiciona ao conteúdo existente o comentário:



Criando uma pasta com nome composto dividido por espaço: basta colocar " " no nome, senão será criado duas pastas de nomes simples. Para acessar, basta usar "\ ":

```
rjmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ mkdir "JOAO MARCOS"
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cd JOAO\ MARCOS
imcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/JOAO MARCOS$
```

cat: usado para visualizar, criar, concatenar e redirecionar arquivos:

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cat
> new.txt
Add frase ao arquivo e ctrl+ d p/ sair
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cat
new.txt
Add frase ao arquivo e ctrl+ d p/ sair
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cat
> new2.txt
segundo arquivo p demonstração
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cat
new.txt new2.txt
Add frase ao arquivo e ctrl+ d p/ sair
segundo arquivo p demonstração
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

touch: cria um arquivo vazio:

nano: abre um arquivo para edição:



mv: pode mover um arquivo, renomear um arquivo e mover e renomear um arquivo. cp: copia arquivos e diretórios

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01 Q = - - ×
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ mv n
ew4.txt new3.txt
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cp n
ew3.txt newcopia.txt
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ ls
'JOAO MARCOS' new3.txt new.txt semana01_teste
new2.txt newcopia.txt Semana01 Semana01.txt
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

rm; rmdir; rm -rf: Remove arquivos, diretórios e diretórios com arquivos:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ la
                new3.txt
                               new.txt
new2.txt
                newcopia.txt
                               Semana01
                                          Semana01.txt
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ mkdi
r diretorio_p_excluir
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ la
                      new2.txt
                                  newcopia.txt
                                                  Semana01
                                                                   Semana01.txt
                                  new.txt
                       new3.txt
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ cd d
iretorio_p_excluir/
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/diret
orio_p_excluir$ touch arquivo_exlcuir1
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/diret
orio_p_excluir$ touch arquivo_exlcuir2
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/diret
orio_p_excluir$ rm arquivo_exlcuir1
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/diret
orio_p_excluir$ la
arquivo_exlcuir2
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01/diret
orio_p_excluir$ cd ..
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ la
                      new2.txt
                                                  Semana01
                                 newcopia.txt
                                                                   Semana01.txt
                                  new.txt
                       new3.txt
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ rm -
rf diretorio_p_excluir/
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ la
                               new.txt
               new3.txt
                newcopia.txt
                               Semana01
new2.txt
                                          Semana01.txt
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

hostname: usado para exibir ou alterar o hostname do sistema (identificador único para o sistema em uma rede) . hostname -i mostra o ip

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01 Q = - - ×

jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ host

name
jmcxavier-Aspire-A515-54
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ host
name -i
```

ip a: exibe informações detalhadas de todas as interfaces de redes disponíveis:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid lft forever preferred lft forever
2: enp1s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast state DOWN group d
efault glen 1000
    link/ether 70:69:79:ab:33:58 brd ff:ff:ff:ff:ff
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
qlen 1000
    link/ether a4:63:a1:6b:fc:46 brd ff:ff:ff:ff:ff
    inet 192.168.1.4/24 brd 192.168.1.255 scope global dynamic noprefixroute wlp2s0
       valid_lft 78828sec preferred_lft 78828sec
    inet6 2804:1c50:197:9000:1e6:e427:200f:781d/64 scope global temporary dynamic
       valid_lft 258805sec preferred_lft 78706sec
    inet6 2804:1c50:197:9000:855d:7d20:beec:2d2f/64 scope global dynamic mngtmpaddr noprefi
xroute
       valid lft 258805sec preferred lft 172405sec
    inet6 fe80::ed06:e53e:3228:17db/64 scope link noprefixroute
       valid lft forever preferred lft forever
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

grep: procura por padrões específicos em arquivos e exibe as linhas correspondentes:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01 Q = - □ ×
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ grep
"fg" new3.txt
fg
afg
fg
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

ping: Mostra vários parâmetros utilizados em Arquitetura de Redes como: TTL (tempo de vida de um pacote) Latência (tempo de ida e resposta de um pacote) e a quantidade de pacotes enviados e recebidos:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ ping
google.com
PING google.com (2800:3f0:4001:81c::200e) 56 data bytes
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=1 ttl=116 time=29.2 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=2 ttl=116 time=26.2 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=3 ttl=116 time=27.3 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=4 ttl=116 time=25.5 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=5 ttl=116 time=27.6 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=6 ttl=116 time=27.9 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=7 ttl=116 time=28.3 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=8 ttl=116 time=26.5 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=9 ttl=116 time=26.5 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=10 ttl=116 time=27.6 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=11 ttl=116 time=30.4 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=12 ttl=116 time=28.4 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=13 ttl=116 time=33.2 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp_seq=14 ttl=116 time=27.6 ms
64 bytes from 2800:3f0:4001:81c::200e: icmp seq=15 ttl=116 time=24.7 ms
--- google.com ping statistics ---
15 packets transmitted, 15 received, 0% packet loss, time 14025ms
rtt min/avg/max/mdev = 24.683/27.783/33.239/2.007 ms
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

free-h & free-m: usados para exibir informações sobre o uso de memória do sistema:



top: exibe uma lista dinâmica de processos em execução, ordenados pela CPU "q" para sair; "k" para matar um processo (solicita PID); "r" altera prioridade;

htop: semelhante ao top, porém oferece uma interface interativa:

```
jmcxavier@jmcxavier-Aspire-A515-54: ~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01
top - 15:54:21 up 2:23, 1 user, load average: 0,08, 0,21, 0,24
Tarefas: 283 total, 1 em exec., 282 dormindo, 0 parado, 0 z
                                                                  0 zumbi
%CPU(s): 0,7 us, 0,2 sy, 0,0 ni, 99,0 id, 0,2 wa, 0,0 hi, 0,0 si, 0,0 st
                                            3967,4 used,
          19821,5 total, 14289,0 free,
MB mem :
                                                            3240,3 buff/cache
           8192,0 total,
                                                0.0 used.
                                                           15854,1 avail mem
MB swap:
                            8192,0 free,
    PID USUARIO PR NI
                                              SHR S %CPU
                                                                    TEMPO+ COMANDO
                             VIRT
                                      RES
                                                           %MEM
                                                                   4:42.14 gnome-shell
   2227 jmcxavi+
                   20
                        0 5095604 309536 131924 S
                                                             1,5
   5340 jmcxavi+
                   20
                        0
                           702636
                                   62580
                                           46948 S
                                                      2,7
                                                             0,3
                                                                   0:10.74 gnome-terminal-
    223 root
                  - 51
                        0
                                0
                                        0
                                                0 S
                                                      1,0
                                                            0,0
                                                                   0:01.27 irq/135-ELAN0504:00
   4627 jmcxavi+
                   20
                        0
                          1157,7g 261380
                                          126540
                                                      0,3
                                                             1,3
                                                                   3:06.20 chrome
                                            9216 S
                                                                   0:04.12 systemd
                   20
                                   13824
        root
                        0
                            23260
                                                      0,0
                                                             0,1
      2 root
                                                0 S
                                                                   0:00.01 kthreadd
                   20
                        0
                                        0
                                                      0,0
                                                            0,0
                                0
      3 root
                   20
                        0
                                 0
                                        0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.00 pool workqueue rel+
      4 root
                   0
                      - 20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                             0,0
                                                                   0:00.00 kworker/R-rcu_g
      5 root
                   0 -20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                            0,0
                                                                   0:00.00 kworker/R-rcu_p
      6 root
                   0 -20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                            0,0
                                                                   0:00.00 kworker/R-slub_
      7 root
                   0 -20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                            0,0
                                                                   0:00.00 kworker/R-netns
                                        0
                                                0 I
                                                                   0:00.00 kworker/0:0H-event+
      9 root
                   0 -20
                                 0
                                                      0,0
                                                            0,0
                                                0 I
     10 root
                   20
                       0
                                 0
                                        0
                                                      0,0
                                                            0,0
                                                                   0:00.61 kworker/0:1-events
                                        0
                                                0 I
                                                                   0:00.00 kworker/R-mm_pe
     12 root
                   0 -20
                                 0
                                                      0,0
                                                            0,0
                                        0
                                                0 I
                                                                   0:00.00 rcu_tasks_kthread
     13 root
                   20
                       0
                                 0
                                                      0,0
                                                            0,0
     14 root
                   20
                        0
                                0
                                        0
                                                0 I
                                                      0,0
                                                            0,0
                                                                   0:00.00 rcu tasks rude kth+
                                        0
                                                0 I
                                                                   0:00.00 rcu tasks trace kt+
     15 root
                   20
                       0
                                0
                                                      0,0
                                                            0,0
                        0
                                        0
                                                0 S
     16 root
                   20
                                 0
                                                      0,0
                                                            0,0
                                                                   0:00.06 ksoftirqd/0
                        0
                                        0
                                                0 I
                                 0
                                                      0,0
                                                            0,0
                                                                   0:04.06 rcu_preempt
     17 root
                        0
                                        0
                                                0 S
                                                                   0:00.02 migration/0
                   гt
                                 0
                                                      0,0
                                                            0,0
     18 root
     19 root
                  - 51
                        0
                                 0
                                        0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.00 idle_inject/0
     20 root
                   20
                        0
                                 0
                                        0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.00 cpuhp/0
                                                0 S
     21 root
                   20
                        0
                                 0
                                        0
                                                      0,0
                                                            0,0
                                                                   0:00.00 cpuhp/1
                                                0 S
                                                                   0:00.00 idle_inject/1
     22 root
                        0
                                        0
                                                      0,0
                                 0
                                                            0,0
                                        0
                                                0 S
                                                                   0:00.17 migration/1
     23 root
                  гt
                        0
                                 Θ
                                                      0,0
                                                            0,0
                                        0
     24 root
                   20
                        0
                                 0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.07 ksoftirad/1
                   0
                      - 20
                                 0
                                        0
                                                0 I
                                                             0,0
                                                                   0:00.00 kworker/1:0H-event+
     26 root
                                                      0,0
                                                0 S
     27 root
                   20
                        0
                                 0
                                        0
                                                      0,0
                                                            0,0
                                                                   0:00.00 cpuhp/2
                                        0
                  - 51
                        0
                                                0 S
                                                      0,0
                                                                   0:00.00 idle_inject/2
     28 root
                                 0
                                                            0,0
     29 root
                  гt
                        0
                                 0
                                        0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.17 migration/2
                                        0
                                                0 S
                                                                   0:00.04 ksoftirqd/2
     30 root
                   20
                       0
                                 0
                                                      0,0
                                                            0,0
     32 root
                                                                   0:00.00 kworker/2:0H-event+
                   0
                      - 20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                             0,0
                                        0
                                                0 S
                                                                   0:00.00 \text{ cpuhp/3}
     33 root
                   20
                        0
                                 0
                                                      0,0
                                                            0,0
                                        0
                                                                   0:00.00 idle inject/3
     34 root
                  - 51
                        0
                                 0
                                                0 S
                                                      0,0
                                                            0,0
                        0
                                 0
                                        0
                                                0 S
                                                      0,0
                                                            0,0
                                                                   0:00.17 migration/3
     35 root
                  гt
                                                0 S
                                                                   0:00.03 ksoftirqd/3
     36 root
                   20
                       0
                                 0
                                                      0,0
                                                             0,0
     38 root
                   0
                      - 20
                                 0
                                        0
                                                0 I
                                                      0,0
                                                             0,0
                                                                   0:00.00 kworker/3:0H-event+
                   20
                                                0 S
                                                                   0:00.00 cpuhp/4
                        0
                                 0
                                                      0,0
                                                            0,0
     39 root
```

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ htop
Comando 'htop' n\u00e4o encontrado, mas poder ser instalado com:
sudo snap install htop # version 3.3.0, or
sudo apt install htop # version 3.2.2-2
Veja 'snap info htop' para vers\u00f3es adicionais.
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$
```

ps: exibe uma lista de processos em execução no terminal no momento em que o comando é executado

ps aux: exibe os processos independentemente ao terminal:

4	-0	: - A		AE4E E	i. Ici	- h h	/CETT Jose	Magaza	do Co	sto-Xavier/Semana01\$ ps
PID			TIME (F1~/GL					sto-xavter/semanaviş ps
	pts/0		9:00 t							
	pts/0		0:00 t							
					1. /644					sto-Xavier/Semana01\$ ps a
UX	וועשוייכאמע	ter-As	spere.	.W3T3-34	r:~/uti					sto-Mavter/Semanaviş ps a
USER	DID	%CPU	0/MEM	VSZ	DCC	TTY	STAT	START	TTME	COMMAND
root	1		0.0		13824		Ss	13:30		/sbin/init splash
root	2	0.0	0.0	23200	13024		3 S	13:30		[kthreadd]
root	3	0.0	0.0	9		?	S	13:30		[pool_workqueue_release]
root	4	0.0	0.0	0			I<	13:30		[kworker/R-rcu_g]
root	5	0.0	0.0	0			I<	13:30		[kworker/R-rcu_p]
root	6	0.0	0.0	9		?	I<	13:30		[kworker/R-slub_]
root	7	0.0	0.0	0		?	I<	13:30		[kworker/R-netns]
root	9	0.0	0.0	0		?	I<	13:30		[kworker/0:0H-events_hig
root	10	0.0	0.0	0			I	13:30		[kworker/0:1-events]
root	12	0.0	0.0	0	0		I<	13:30		[kworker/R-mm_pe]
root	13	0.0	0.0	0	9	?	I	13:30		[rcu_tasks_kthread]
root	14		0.0	0		?	I	13:30		[rcu_tasks_rude_kthread]
root	15	0.0	0.0	0			I	13:30		[rcu_tasks_trace_kthread
root	16	0.0	0.0	0		?	S	13:30		[ksoftirqd/0]
root	17		0.0	0			I	13:30		[rcu preempt]
root	18	0.0	0.0	0	0		Š	13:30		[migration/0]
root	19	0.0	0.0	0		?	S	13:30		[idle_inject/0]
root	20	0.0	0.0	0			S	13:30		[cpuhp/0]
root	21	0.0	0.0	0			S	13:30		[cpuhp/1]
root	22	0.0	0.0	0			S	13:30		[idle_inject/1]
root	23	0.0	0.0	0	0		S	13:30		[migration/1]
root	24	0.0	0.0	0	0	?	S	13:30		[ksoftirqd/1]
root	26	0.0	0.0	0	0	?	I<	13:30		[kworker/1:0H-events_hig
root	27	0.0	0.0	0	0	?	S	13:30		[cpuhp/2]
root	28	0.0	0.0	0			S	13:30		[idle_inject/2]
root	29	0.0	0.0	0			S	13:30		[migration/2]
root	30	0.0	0.0	0	Θ	?	S	13:30		[ksoftirqd/2]
root	32	0.0	0.0	0	0	?	I<	13:30		[kworker/2:0H-events_hig
root	33	0.0	0.0	0	Θ	?	S	13:30		[cpuhp/3]
root	34	0.0	0.0	0	Θ	?	S	13:30		[idle_inject/3]
root	35	0.0	0.0	0	0	?	S	13:30		[migration/3]
root	36	0.0	0.0	0	0	?	S	13:30		[ksoftirqd/3]
root	38	0.0	0.0	0	0	?	I<	13:30	0:00	[kworker/3:0H-events_hig
root	39	0.0	0.0	Θ	0	?	S	13:30		[cpuhp/4]
root	40	0.0	0.0	0	0	?	S	13:30	0:00	[idle_inject/4]
root	41	0.0	0.0	0	0	?	S	13:30	0:00	[migration/4]
root	42	0.0	0.0	0	0	?	S	13:30	0:00	[ksoftirqd/4]
	4.4	0 0	0 0	^	^	2	7	12.20	0.00	[]

kill: envia sinais para processos. Normalmente usado para encerrar processos:

df -h: exibe informações do disco. A saída -h formata a saída em kb, Gb, Mb; ndcu: igual ao df -h, porém com interface interativa. necessita permissão SUDO para instalação.

uname: exibe informações sobre o sistema:

- -s: Nome do kernel
- -r: versão do kernel
- -a: informações completas

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ df -
Sist. Arq.
                Tam. Usado Disp. Uso% Montado em
tmpfs
                2,0G 2,1M 2,0G
                                  1% /run
                                 46% /
/dev/nvme0n1p5
                40G
                      18G
                            21G
tmpfs
                9,7G
                       98M 9,6G
                                  1% /dev/shm
                                  1% /run/lock
tmpfs
                5,0M
                      8,0K
                           5,0M
                           100K
                                 45% /sys/firmware/efi/efivars
efivarfs
                184K
                      80K
/dev/nvme0n1p1
                96M
                      57M
                            40M
                                 59% /boot/efi
tmpfs
                2,0G 132K 2,0G
                                  1% /run/user/1000
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ unam
e
Linux
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ unam
e -s
Linux
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ unam
6.8.0-40-generic
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ unam
e -a
Linux jmcxavier-Aspire-A515-54 6.8.0-40-generic #40-Ubuntu SMP PREEMPT_DYNAMIC Fri Jul 5 1
0:34:03 UTC 2024 x86 64 x86 64 x86 64 GNU/Linux
```

lscpu: exibe informações como arquitetura, número de CPUs e threads por núcleo:

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ lscp
Arquitetura:
                              x86 64
  Modo(s) operacional da CPU: 32-bit, 64-bit
  Address sizes:
                              39 bits physical, 48 bits virtual
                              Little Endian
  Ordem dos bytes:
CPU(s):
 Lista de CPU(s) on-line:
                              0-7
ID de fornecedor:
                              GenuineIntel
  Nome do modelo:
                              Intel(R) Core(TM) i5-10210U CPU @ 1.60GHz
    Família da CPU:
    Modelo:
                              142
    Thread(s) per núcleo:
    Núcleo(s) por soquete:
    Soquete(s):
                              12
    Step:
    CPU(s) scaling MHz:
                              69%
    CPU MHz máx.:
                              4200,0000
    CPU MHz min.:
                              400,0000
                              4199,88
    BogoMIPS:
    Opções:
                              fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
                               pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe sy
                              scall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs
                               bts rep good nopl xtopology nonstop tsc cpuid aperfmperf pni
                               pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3 sdbg fma c
                              x16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_dead
                              line timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetc
                              h cpuid_fault epb ssbd ibrs ibpb stibp ibrs_enhanced tpr_shad
                              ow flexpriority ept vpid ept ad fsgsbase tsc adjust bmi1 avx2
                               smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_
                              pt xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp
                               hwp_act_window hwp_epp vnmi md_clear flush_l1d arch_capabili
                              ties
Virtualization features:
  Virtualização:
                              VT-x
Caches (sum of all):
  L1d:
                              128 KiB (4 instances)
  L1i:
                              128 KiB (4 instances)
  L2:
                              1 MiB (4 instances)
                              6 MiB (1 instance)
  L3:
NUMA:
  Nó(s) de NUMA:
```

lsusb: exibe uma lista de dispositivos USB

history: exibe o histórico de comandos executados no terminal

```
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ lsus
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 248a:8514 Maxxter Wireless Receiver
Bus 001 Device 003: ID 0408:a061 Quanta Computer, Inc. HD User Facing
Bus 001 Device 004: ID 04ca:3015 Lite-On Technology Corp. Qualcomm Atheros QCA9377 Bluetoot
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
jmcxavier@jmcxavier-Aspire-A515-54:~/Github/SEII-Joao-Marcos-de-Casto-Xavier/Semana01$ hist
огу
    1 shutdown
    2 shudown -h now
    3 shutdown -h now
    4 apt install gdebi
    5 sudo apt install gdebi
    6 exit
       whoami
    8
      clear
    9
   10 ls
   11 cd Jāo/
   12 ls
   13 cd ..
   14 cd ~
   16 Jāo/
   17 mkdir 'jmcxavier teste'
18 deldir 'jmcxavier teste'
19 rmdir 'jmcxavier teste' 'Jāo'
   20 sl
   21 sudo apt install sl
   22 sl
   23 sudo apt update
   24 apt list --upgradable
   25 apt --help
   26 shutdown -h now
   27
       sudo apt-get update
   28 sudo apt-get upgrade
   29 sudo apt-get install git-all
   30 sudo apt-get remove git
   31 git rev-parse --show-toplevel
   32 ~git rev-parse --show-toplevel
   33 cd
```