

SÃO PAULO TECH SHCOOL



Sistemas Operacionais – 09 - Atividade - Comandos e Nmon

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- Instalando o NMON:

```
ubuntu@ip-172-31-94-161: ~  
ubuntu@ip-172-31-94-161:~$ sudo apt install nmon  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
nmon is already the newest version (16m+debian-1).  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
ubuntu@ip-172-31-94-161:~$ |
```

Utilizando o NMON:

```
ubuntu@ip-172-31-94-161: ~  
nmon-16k-----Hostname=ip-172-31-94-Refresh= 2secs ---00:24.36-----  
  
  nmon  
-----  
For help type H or ...  
nmon -? - hint  
nmon -h - full details  
To stop nmon type q to Quit  
  
Use these keys to toggle statistics on/off:  
c = CPU          l = CPU Long-term      - = Faster screen updates  
C = " WideView  U = Utilisation  + = Slower screen updates  
m = Memory      V = Virtual memory  j = File Systems  
d = Disks       n = Network        - = only busy disks/procs  
r = Resource    N = NFS             h = more options  
k = Kernel      t = Top-processes    q = Quit
```

Coletando informações da CPU:

```
ubuntu@ip-172-31-94-161: ~  
nmon-16k-----[H for help]-----Hostname=ip-172-31-94-Refresh= 2secs ---00:26.37-----  
CPU Utilisation  
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
CPU User% Sys% Wait% Idle|0          |25          |50          |75          |100|  
1  0.0  0.0  0.0 100.0|>  
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
|
```

Coletando informações da memória:

```
ubuntu@ip-172-31-94-161: ~  
nmon-16k-----Hostname=ip-172-31-94-Refresh= 2secs ---00:27.26-----  
Memory and Swap  
PageSize:4KB  RAM-Memory  Swap-Space      High-Memory      Low-Memory  
Total (MB)    966.2      0.0      - not in use    - not in use  
Free (MB)     79.0      0.0  
Free Percent  8.2%      0.0%  
Linux Kernel Internal Memory (MB)  
Cached=      579.9      Active=      314.6  
Buffers=     6.0      Swapcached=  0.0      Inactive =   344.5  
Dirty =      0.0      Writeback =  0.0      Mapped =    61.2  
Slab =       145.9      Commit_AS = 690.9      PageTables=   2.4
```

Instalando os pacotes ccrypt:

```

root@ip-172-31-94-161: /
root@ip-172-31-94-161:/# apt install ccrypt
Reading package lists... Done
Building dependency tree
Reading state information... Done
ccrypt is already the newest version (1.11-1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-94-161:/# |

```

Criando diretório arquivosProtegidos dentro do home:

```

root@ip-172-31-94-161:/# mkdir arquivosProtegidos
root@ip-172-31-94-161:/# dir
arquivosProtegidos bin boot dev etc home lib lib32 lib64 libx32
root@ip-172-31-94-161:/# ls -l
total 68
drwxr-xr-x  2 root root  4096 Sep 23 00:37 arquivosProtegidos
lrwxrwxrwx  1 root root    7 Jun 10 10:44 bin -> usr/bin
drwxr-xr-x  4 root root  4096 Sep 23 00:19 boot
drwxr-xr-x 17 root root 3220 Sep 23 00:15 dev
drwxr-xr-x 96 root root  4096 Sep 23 00:21 etc
drwxr-xr-x  5 root root  4096 Sep 16 16:59 home
lrwxrwxrwx  1 root root    7 Jun 10 10:44 lib -> usr/lib
lrwxrwxrwx  1 root root    9 Jun 10 10:44 lib32 -> usr/lib32
lrwxrwxrwx  1 root root    9 Jun 10 10:44 lib64 -> usr/lib64
lrwxrwxrwx  1 root root   10 Jun 10 10:44 libx32 -> usr/libx32
drwx----- 2 root root 16384 Jun 10 10:47 lost+found
drwxr-xr-x  2 root root  4096 Jun 10 10:44 media
drwxr-xr-x  2 root root  4096 Jun 10 10:44 mnt
drwxr-xr-x  2 root root  4096 Jun 10 10:44 opt
dr-xr-xr-x 162 root root    0 Sep 23 00:15 proc
drwx----- 4 root root  4096 Sep 16 16:28 root
drwxr-xr-x 24 root root   840 Sep 23 00:19 run
lrwxrwxrwx  1 root root    8 Jun 10 10:44/sbin -> usr/sbin
drwxr-xr-x  8 root root  4096 Jun 10 10:49 snap
drwxr-xr-x  2 root root  4096 Jun 10 10:44 srv
dr-xr-xr-x 13 root root    0 Sep 23 00:15 sys
drwxrwxrwt 12 root root  4096 Sep 23 00:35 tmp
drwxr-xr-x 14 root root  4096 Jun 10 10:46 usr
drwxr-xr-x 13 root root  4096 Jun 10 10:47 var
root@ip-172-31-94-161:/#

```

Acessando o diretório criado e criando arquivo dentro dele:

```

root@ip-172-31-94-161:/# cd /arquivosProtegidos
root@ip-172-31-94-161:/arquivosProtegidos# cat > arquivoCriptografado
Senha do banco = 3489564
^C
root@ip-172-31-94-161:/arquivosProtegidos# ls
arquivoCriptografado
root@ip-172-31-94-161:/arquivosProtegidos# |

```

Verificando texto do arquivo:

```

root@ip-172-31-94-161:/arquivosProtegidos# cat arquivoCriptografado
Senha do banco = 3489564
root@ip-172-31-94-161:/arquivosProtegidos# |

```

Criptografando arquivo:

```

root@ip-172-31-94-161: /arquivosProtegidos
root@ip-172-31-94-161:/arquivosProtegidos# cccrypt arquivoCriptografado
Enter encryption key:
Enter encryption key: (repeat)
root@ip-172-31-94-161:/arquivosProtegidos# ls
arquivoCriptografado.cpt
root@ip-172-31-94-161:/arquivosProtegidos#

```

Abrindo arquivo criptografado:

```

root@ip-172-31-94-161:/arquivosProtegidos# cat arquivoCriptografado.cpt
E
g5M]bK{z'vxHbZroot@ip-172-31-94-161:/arquivosProtegidos# |

```

Lendo arquivo inserindo a senha criada:

```

root@ip-172-31-94-161:/arquivosProtegidos# cccrypt -c arquivoCriptografado.cpt
Enter decryption key:
Senha do banco = 3489564
root@ip-172-31-94-161:/arquivosProtegidos#

```

Descriptografando o arquivo:

```

root@ip-172-31-94-161:/arquivosProtegidos# cccrypt -d arquivoCriptografado.cpt
Enter decryption key:
root@ip-172-31-94-161:/arquivosProtegidos# cat arquivoCriptografado
Senha do banco = 3489564
root@ip-172-31-94-161:/arquivosProtegidos#

```

- Utilizando comando kill:

O processo top está acontecendo:

```

root@ip-172-31-94-161: /arquivosProtegidos
root@ip-172-31-94-161:/arquivosProtegidos# ps
  PID TTY          TIME CMD
 14704 pts/0    00:00:00 su
  14705 pts/0    00:00:00 bash
  14809 pts/0    00:00:00 top
  14811 pts/0    00:00:00 ps
root@ip-172-31-94-161:/arquivosProtegidos# |

```

Encerrando o processo top com kill:

```

root@ip-172-31-94-161:/arquivosProtegidos# kill -9 14809
root@ip-172-31-94-161:/arquivosProtegidos# ps
  PID TTY          TIME CMD
  14704 pts/0    00:00:00 su
  14705 pts/0    00:00:00 bash
  14815 pts/0    00:00:00 ps
[1]+  Killed                  top
root@ip-172-31-94-161:/arquivosProtegidos# |

```