

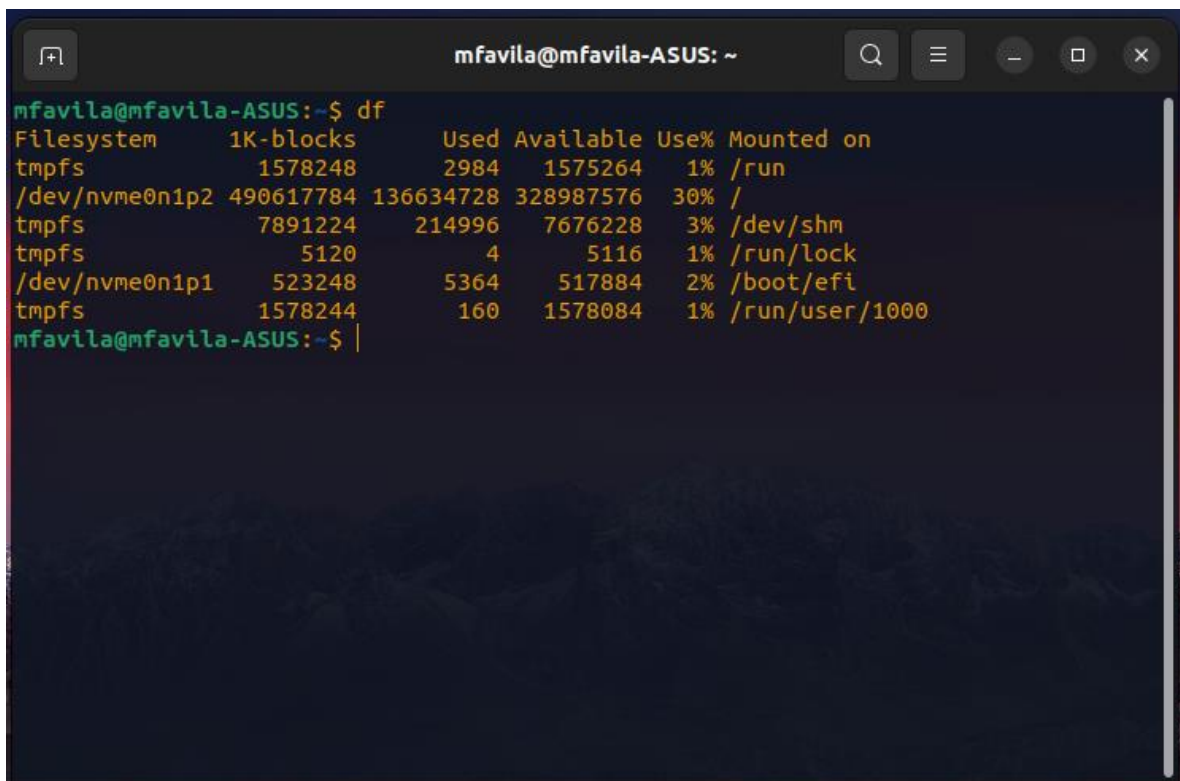
Introducción a la informática

Solución ejercitación segunda entrega

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1. Comando DF

Permite verificar las unidades de disco y su respectivo espacio.



A terminal window titled 'mfavila@mfavila-ASUS: ~' showing the output of the 'df' command. The output is a table with columns: Filesystem, 1K-blocks, Used, Available, Use%, and Mounted on. The data is as follows:

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
tmpfs	1578248	2984	1575264	1%	/run
/dev/nvme0n1p2	490617784	136634728	328987576	30%	/
tmpfs	7891224	214996	7676228	3%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
/dev/nvme0n1p1	523248	5364	517884	2%	/boot/efi
tmpfs	1578244	160	1578084	1%	/run/user/1000

2. Comando Top

Permite Verificar los procesos que se encuentran en ejecución en tiempo real

```
mfavila@mfavila-ASUS: ~  
top - 18:24:29 up 11:05, 1 user, load average: 1,01, 0,90, 0,81  
top - 18:24:29 up 11:05, 1 user, load average: 1,01, 0,90, 0,81  
top - 18:24:29 up 11:05, 1 user, load average: 1,01, 0,90, 0,81  
top - 18:24:29 up 11:05, 1 user, load average: 1,01, 0,90, 0,81  
top - 18:24:35 up 11:05, 1 user, load average: 1,01, 0,90, 0,81  
Tasks: 525 total, 1 running, 523 sleeping, 0 stopped, 1 zombie  
%Cpu(s): 1,6 us, 1,2 sy, 0,0 ni, 97,0 id, 0,1 wa, 0,0 hi, 0,1 si, 0,0 st  
MiB Mem : 15412,5 total, 244,0 free, 13516,2 used, 1652,4 buff/cache  
MiB Swap: 16384,0 total, 9387,5 free, 6996,5 used, 1480,4 avail Mem  


| PID    | USER     | PR  | NI | VIRT    | RES    | SHR    | S | %CPU | %MEM | TIME+    | COMMAND                  |
|--------|----------|-----|----|---------|--------|--------|---|------|------|----------|--------------------------|
| 2612   | mfavila  | 20  | 0  | 7261796 | 256592 | 57600  | S | 11,9 | 1,6  | 15:03.06 | gnome-shell              |
| 2145   | mfavila  | 20  | 0  | 25,9g   | 88388  | 25940  | S | 10,9 | 0,6  | 13:42.18 | Xorg                     |
| 8415   | mfavila  | 20  | 0  | 26,9g   | 4,0g   | 1824   | S | 4,3  | 26,6 | 20:00.64 | java                     |
| 13159  | mfavila  | 20  | 0  | 747744  | 32064  | 19932  | S | 4,3  | 0,2  | 0:08.21  | gnome-terminal-          |
| 6702   | mfavila  | 20  | 0  | 750716  | 129740 | 18032  | S | 3,3  | 0,8  | 17:12.36 | dockstation              |
| 1021   | root     | 20  | 0  | 2318636 | 21484  | 6224   | S | 2,6  | 0,1  | 19:17.82 | containerd               |
| 1743   | root     | 20  | 0  | 3009048 | 41968  | 7868   | S | 2,3  | 0,3  | 14:43.24 | dockerd                  |
| 8618   | mfavila  | 20  | 0  | 1392656 | 449440 | 9008   | S | 2,0  | 2,8  | 16:26.85 | node                     |
| 6585   | mfavila  | 20  | 0  | 904296  | 47336  | 24596  | S | 1,3  | 0,3  | 8:09.18  | dockstation              |
| 7150   | root     | 20  | 0  | 712656  | 5840   | 3188   | S | 1,0  | 0,0  | 2:15.87  | containerd-shim          |
| 8511   | root     | 20  | 0  | 712656  | 5492   | 2892   | S | 1,0  | 0,0  | 2:16.13  | containerd-shim          |
| 10494  | systemd+ | 20  | 0  | 1317044 | 97424  | 65868  | S | 1,0  | 0,6  | 5:16.16  | beam.smp                 |
| 63646  | mfavila  | 20  | 0  | 14,6g   | 349360 | 50400  | S | 1,0  | 2,2  | 9:42.59  | teams                    |
| 169292 | mfavila  | 20  | 0  | 3189532 | 55020  | 38904  | S | 1,0  | 0,3  | 0:00.69  | gjs                      |
| 669    | systemd+ | 20  | 0  | 14824   | 2228   | 1604   | S | 0,7  | 0,0  | 0:55.17  | systemd-oomd             |
| 4867   | mfavila  | 20  | 0  | 32,6g   | 197400 | 104048 | S | 0,7  | 1,3  | 11:45.55 | chrome                   |
| 7397   | root     | 20  | 0  | 712656  | 6308   | 3360   | S | 0,7  | 0,0  | 2:12.01  | containerd-shim          |
| 7413   | root     | 20  | 0  | 712656  | 5736   | 2864   | S | 0,7  | 0,0  | 2:13.14  | containerd-shim          |
| 7622   | 999      | 20  | 0  | 1545436 | 17344  | 1808   | S | 0,7  | 0,1  | 3:50.86  | mongod                   |
| 7757   | root     | 20  | 0  | 712656  | 6064   | 2992   | S | 0,7  | 0,0  | 2:12.05  | containerd-shim          |
| 14     | root     | 20  | 0  | 0       | 0      | 0      | I | 0,3  | 0,0  | 1:03.20  | rcu_sched                |
| 322    | root     | 20  | 0  | 0       | 0      | 0      | S | 0,3  | 0,0  | 0:52.18  | jbd2/nvme0n1p2-          |
| 603    | root     | -51 | 0  | 0       | 0      | 0      | S | 0,3  | 0,0  | 1:59.26  | irq/86-rtw88_pc          |
| 604    | root     | -2  | 0  | 0       | 0      | 0      | S | 0,3  | 0,0  | 0:38.52  | gfx                      |
| 613    | root     | -2  | 0  | 0       | 0      | 0      | S | 0,3  | 0,0  | 0:01.09  | sdma0                    |
| 6511   | mfavila  | 20  | 0  | 20,4g   | 468224 | 20080  | S | 0,3  | 3,0  | 15:31.21 | code                     |
| 6545   | mfavila  | 20  | 0  | 20,4g   | 661804 | 20568  | S | 0,3  | 4,2  | 3:43.65  | code                     |
| 7194   | 999      | 20  | 0  | 28968   | 1588   | 212    | S | 0,3  | 0,0  | 1:14.70  | redis-server             |
| 7207   | root     | 20  | 0  | 712400  | 5804   | 2720   | S | 0,3  | 0,0  | 2:10.75  | containerd-shim          |
| 7662   | root     | 20  | 0  | 712720  | 6336   | 2936   | S | 0,3  | 0,0  | 2:12.13  | containerd-shim          |
| 8117   | root     | 20  | 0  | 712656  | 7284   | 3924   | S | 0,3  | 0,0  | 3:00.51  | containerd-shim          |
| 17642  | root     | 20  | 0  | 0       | 0      | 0      | I | 0,3  | 0,0  | 0:02.89  | kworker/6:0-mm_percpu_wq |
| 31376  | mfavila  | 20  | 0  | 841920  | 14472  | 12200  | S | 0,3  | 0,1  | 0:07.88  | node                     |
| 52345  | root     | 20  | 0  | 0       | 0      | 0      | I | 0,3  | 0,0  | 0:01.14  | kworker/1:2-mm_percpu_wq |


```

3. Instalando Cowsay y ejecutándolo

Este comando es una utilidad para poder imprimir texto en pantalla y aparece la imagen de una vaca

```
mfavila@mfavila-ASUS: ~  
mfavila@mfavila-ASUS:~$ sudo apt install cowsay  
[sudo] password for mfavila:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
cowsay is already the newest version (3.03+dfsg2-8).  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
mfavila@mfavila-ASUS:~$ cowsay "hola mundo"  
  
< hola mundo >  
-----  
      \   ^__^  
       (oo)\_____  
        (__)\\       )\/\  
           ||----w |  
           ||     ||  
mfavila@mfavila-ASUS:~$
```