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COMANDO DF:

```
user_intro@ubuntuintro:~$ df
Filesystem                         1K-blocks    Used Available Use% Mounted on
tmpfs                                 201140    1324    199816   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv    7865580 4187064   3257448  57% /
tmpfs                                1005696       0   1005696   0% /dev/shm
tmpfs                                   5120       0      5120   0% /run/lock
/dev/vda2                            1768056  132784   1527140   8% /boot
/dev/vda1                             549804    6452    543352   2% /boot/efi
tmpfs                                 201136       4    201132   1% /run/user/1000
```

Este comando nos permite ver el espacio del disco, muestra el espacio disponible y utilizado.

COMANDO TOP:

```
top - 14:45:23 up 6 min,  1 user,  load average: 0.02, 0.52, 0.39
Tasks: 115 total,   1 running, 114 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.2 us,  1.1 sy,  0.0 ni, 98.6 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1964.3 total,   1486.6 free,    155.7 used,    322.0 buff/cache
MiB Swap:   1255.0 total,   1255.0 free,      0.0 used.   1725.8 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1054 user_in+  20   0    9952   3412   2820 R   4.7   0.2   0:02.32 top
    454 root      rt   0  289664  25668   7392 S   0.6   1.3   0:02.08 multipathd
     13 root      20   0       0      0      0 S   0.3   0.0   0:00.37 ksoftirqd/0
     14 root      20   0       0      0      0 I   0.3   0.0   0:01.44 rcu_sched
     17 root      20   0       0      0      0 I   0.3   0.0   0:00.23 kworker/0:1-events
     29 root      20   0       0      0      0 I   0.3   0.0   0:01.47 kworker/2:0-events
    111 root      20   0       0      0      0 I   0.3   0.0   0:00.36 kworker/u8:2-events_power_efficient
      1 root      20   0  166572  10780   7516 S   0.0   0.5   0:15.74 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.04 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_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
      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/0:0H-events_highpri
      9 root      20   0       0      0      0 I   0.0   0.0   0:03.19 kworker/u8:0-flush-253:0
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     12 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
     15 root      rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/0
     16 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     20 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
     21 root      rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/1
     22 root      20   0       0      0      0 S   0.0   0.0   0:00.12 ksoftirqd/1
     24 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
     25 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/2
     26 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/2
     27 root      rt   0       0      0      0 S   0.0   0.0   0:00.02 migration/2
     28 root      20   0       0      0      0 S   0.0   0.0   0:00.10 ksoftirqd/2
     30 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
     31 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/3
     32 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/3
     33 root      rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/3
     34 root      20   0       0      0      0 S   0.0   0.0   0:00.10 ksoftirqd/3
     36 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
     37 root      20   0       0      0      0 S   0.0   0.0   0:00.02 kdevtmpfs
     38 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 inet_frag_wq
     41 root      20   0       0      0      0 I   0.0   0.0   0:00.14 kworker/3:1-events
     42 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kauditd
     43 root      20   0       0      0      0 S   0.0   0.0   0:00.00 khungtaskd
     44 root      20   0       0      0      0 S   0.0   0.0   0:00.00 oom_reaper
     45 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 writeback
```

Este comando nos muestra en tiempo real la actividad de nuestro procesador, las tareas que hacen un uso más intensivo de este.

COWSAY

```
user_intro@ubuntuintro:~$ apt install cowsay
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
user_intro@ubuntuintro:~$ cowsay "hola mundo"
Command 'cowsay' not found, but can be installed with:
sudo apt install cowsay
user_intro@ubuntuintro:~$ sudo apt install cowsay
[sudo] password for user_intro:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  filters cowsay-off
The following NEW packages will be installed:
  cowsay
0 upgraded, 1 newly installed, 0 to remove and 16 not upgraded.
Need to get 18.6 kB of archives.
After this operation, 93.2 kB of additional disk space will be used.
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy/universe arm64 cowsay all 3.03+dfsg2-8 [18.6 kB]
Fetched 18.6 kB in 2s (10.4 kB/s)
Selecting previously unselected package cowsay.
(Reading database ... 76692 files and directories currently installed.)
Preparing to unpack .../cowsay_3.03+dfsg2-8_all.deb ...
Unpacking cowsay (3.03+dfsg2-8) ...
Setting up cowsay (3.03+dfsg2-8) ...
Processing triggers for man-db (2.10.2-1) ...
cScanning processes... [
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
user_intro@ubuntuintro:~$ _
```

(sudo) apt install cawsay es el comando el cual nos instala cowsay, un programa que genera imagenes de una vaca con un mensaje utilizando ASCII.

```
user_intro@ubuntuintro:~$ cowsay "hola mundo"
 ____________
< hola mundo >
 ------------
        \   ^__^
         \  (oo)\_______
            (__)\       )\/\
                ||----w |
                ||     ||
user_intro@ubuntuintro:~$
```