

Este es un archivo creado fuera de la maquina virtual

Dentro de la maquina virtual:

- Escribir en la terminal el comando df, tomar print de pantalla.

```
ubuntu-cli-intro

Ubuntu 22.04.2 LTS ubuntu-cli-intro tty1
ubuntu-cli-intro login: user-intro
Password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-67-generic aarch64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Mar  8 00:19:34 UTC 2023

System load:  3.30712890625   Processes:            170
Usage of /:   52.8% of 7.50GB   Users logged in:     0
Memory usage: 18%             IPv4 address for enp0s1: 192.168.64.4
Swap usage:   0%

=> There is 1 zombie process.

Expanded Security Maintenance for Applications is not enabled.

16 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

user-intro@ubuntu-cli-intro:~$ df
Filesystem                1K-blocks      Used Available Use% Mounted on
tmpfs                      201092        1356    199736   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 7865580 4517592    2926920  61% /
tmpfs                     1005460         0    1005460   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                     201092         4     201088   1% /run/user/1000
user-intro@ubuntu-cli-intro:~$ _
```

Escribir en la terminal el comando top, tomar print de pantalla.

```
ubuntu-cli-intro
top - 13:38:38 up 24855 days, 3:14, 1 user, load average: 2.00, 2.00, 2.05
Tasks: 150 total, 3 running, 146 sleeping, 0 stopped, 1 zombie
%Cpu(s): 5.4 us, 20.3 sy, 0.0 ni, 74.2 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 1963.8 total, 917.1 free, 189.7 used, 857.0 buff/cache
MiB Swap: 1255.0 total, 1255.0 free, 0.0 used, 1680.5 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
    1 root        20   0   167816   11324    7528 R   100.0   0.6   347:16.02 systemd
  6736 root        19  -1    31912   10728    9840 R   100.0   0.5   209:52.50 systemd-journal
  7359 user-in+    20   0    10368    3292    2688 R    4.7   0.2    0:00.83 top
    14 root        20   0         0         0         0 I    0.9   0.0    0:59.05 rcu_sched
  5653 root        20   0         0         0         0 I    0.6   0.0    0:01.70 kworker/0:1-events
  5872 root        20   0         0         0         0 I    0.3   0.0    0:01.73 kworker/4:3-mm_percpu_wq
  6643 root        20   0         0         0         0 I    0.3   0.0    0:00.23 kworker/2:1-events
  6831 root        20   0         0         0         0 I    0.3   0.0    0:00.23 kworker/1:3-events
     2 root        20   0         0         0         0 S    0.0   0.0    0:00.83 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
    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
    13 root        20   0         0         0         0 S    0.0   0.0    0:02.69 ksoftirqd/0
    15 root        rt   0         0         0         0 S    0.0   0.0   53:11.23 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    0:03.46 migration/1
    22 root        20   0         0         0         0 S    0.0   0.0    0:01.26 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    0:03.21 migration/2
    28 root        20   0         0         0         0 S    0.0   0.0    0:02.19 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    0:03.17 migration/3
    34 root        20   0         0         0         0 S    0.0   0.0    0:01.81 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    0:00.00 cpuhp/4
    38 root       -51   0         0         0         0 S    0.0   0.0    0:00.00 idle_inject/4
    39 root        rt   0         0         0         0 S    0.0   0.0    0:03.94 migration/4
    40 root        20   0         0         0         0 S    0.0   0.0    0:01.92 ksoftirqd/4
    42 root         0 -20         0         0         0 I    0.0   0.0    0:00.00 kworker/4:0H-events_highpri
    43 root        20   0         0         0         0 S    0.0   0.0    0:00.00 cpuhp/5
    44 root       -51   0         0         0         0 S    0.0   0.0    0:00.00 idle_inject/5
```

Apagar la máquina virtual con el comando poweroff.

```
ubuntu-cli-intro
%Cpu(s):  5.9 us, 19.6 sy,  0.0 ni, 74.5 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem : 1963.8 total,  914.3 free,  192.5 used,  857.0 buff/cache
MiB Swap: 1255.0 total, 1255.0 free,   0.0 used, 1677.7 avail Mem

  PID USER   PR   NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
  15 root    rt    0    0    0    0  S   0.0   0.0 53:11.23 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  0:03.46 migration/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  0:03.22 migration/2
  28 root    20    0    0    0    0  S   0.0   0.0  0:02.21 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  0:03.18 migration/3
  34 root    20    0    0    0    0  S   0.0   0.0  0:01.82 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  0:00.00 cpuhp/4
  38 root   -51    0    0    0    0  S   0.0   0.0  0:00.00 idle_inject/4
  39 root    rt    0    0    0    0  S   0.0   0.0  0:03.95 migration/4
  40 root    20    0    0    0    0  S   0.0   0.0  0:01.92 ksoftirqd/4
  42 root    0 -20    0    0    0  I   0.0   0.0  0:00.00 kworker/4:0H-events_highpri
  43 root    20    0    0    0    0  S   0.0   0.0  0:00.00 cpuhp/5
  44 root   -51    0    0    0    0  S   0.0   0.0  0:00.00 idle_inject/5
  45 root    rt    0    0    0    0  S   0.0   0.0  0:03.68 migration/5
  46 root    20    0    0    0    0  S   0.0   0.0  0:01.60 ksoftirqd/5
  48 root    0 -20    0    0    0  I   0.0   0.0  0:00.00 kworker/5:0H-events_highpri
  49 root    20    0    0    0    0  S   0.0   0.0  0:00.00 cpuhp/6
  50 root   -51    0    0    0    0  S   0.0   0.0  0:00.00 idle_inject/6
  51 root    rt    0    0    0    0  S   0.0   0.0  0:03.71 migration/6
  52 root    20    0    0    0    0  S   0.0   0.0  0:02.40 ksoftirqd/6
  54 root    0 -20    0    0    0  I   0.0   0.0  0:00.00 kworker/6:0H-events_highpri
  55 root    20    0    0    0    0  S   0.0   0.0  0:00.00 cpuhp/7
  56 root   -51    0    0    0    0  S   0.0   0.0  0:00.00 idle_inject/7
  57 root    rt    0    0    0    0  S   0.0   0.0  0:02.98 migration/7
  58 root    20    0    0    0    0  S   0.0   0.0  0:01.93 ksoftirqd/7
  60 root    0 -20    0    0    0  I   0.0   0.0  0:00.00 kworker/7:0H-events_highpri
  61 root    20    0    0    0    0  S   0.0   0.0  0:00.04 kdevtmpfs
  62 root    0 -20    0    0    0  I   0.0   0.0  0:00.00 inet_frag_wq
  70 root    20    0    0    0    0  S   0.0   0.0  0:00.02 kauditd
  71 root    20    0    0    0    0  S   0.0   0.0  0:00.77 khungtaskd
  72 root    20    0    0    0    0  S   0.0   0.0  0:00.00 oom_reaper
  73 root    0 -20    0    0    0  I   0.0   0.0  0:01.82 writeback

user-intro@ubuntu-cli-intro:~$ poweroff
^C[...]
```

En nuestro documento de trabajo.

- En base a los print de y comandos, redactar con sus palabras qué es lo que ven y realizar una comparación con su sistema operativo actual. ¿Cuáles son as funciones de estos comandos usados?.
- Subir el documento a la mochila del viajero (opcional).

El comando df muestra la informacion de los discos. A diferencia de utilizar un sistema operativo con interface de usuario grafica como MacOS, se puede acceder a la informacion deseada con solo ejecutar el comando. En la interfaz hay que realizar varios clicks con el mouse para ver la informacion deseada.

El comando top muestra un monitoreo de memoria, lo que en los sistemas operativos con interfaz grafica conocemos como Administracion de tareas (Windows) o Activity Monitor en Mac. En Windows y mac, este comando es bastante rapido de ejecutar pero sigue sin ganarle en velocidad al CLI.