

Grupo 2 - Camada 3

1: comando df: nos muestra el espacio en disco.

```
sysadmin@srv-zbx:~$ df
Filesystem                1K-blocks    Used Available Use% Mounted on
tmpfs                     202324      1096    201228   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 10218772 6107180   3570920   64% /
tmpfs                     1011608        0    1011608   0% /dev/shm
tmpfs                     5120         0     5120    0% /run/lock
/dev/sda2                 1790136  129652   1551224   8% /boot
tmpfs                     202320         4     202316   1% /run/user/1000
sysadmin@srv-zbx:~$
```

2: El comando top nos muestra las tareas que se están ejecutando en el sistema.

```
top - 03:36:39 up 3 min, 1 user, load average: 0.49, 0.36, 0.16
Tasks: 139 total, 1 running, 138 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.2 us, 0.3 sy, 0.0 ni, 99.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 1975.8 total, 900.4 free, 570.4 used, 505.0 buff/cache
MiB Swap: 1841.0 total, 1841.0 free, 0.0 used, 1253.6 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
 837 mysql     20   0 1792824 396964 35500 S   1.7   19.6   0:04.73 mysqld
1199 sysadmin  20   0 10480    3988   3380 R   0.7    0.2   0:00.06 top
  14 root      20   0        0        0        0 I   0.3    0.0   0:00.35 rcu_sched
 102 root      20   0        0        0        0 I   0.3    0.0   0:00.21 kworker/u4:3-events_power_efficient
 691 Debian-+ 20   0 24120  13508  9924 S   0.3    0.7   0:00.21 snmpd
   1 root      20   0 166380  11664  8248 S   0.0    0.6   0:02.07 systemd
   2 root      20   0        0        0        0 S   0.0    0.0   0:00.01 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
   7 root      20   0        0        0        0 I   0.0    0.0   0:00.00 kworker/0:0-rcu_gp
   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   0:00.01 kworker/u4:0-events_freezable_power_
  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   0:00.08 ksoftirqd/0
  15 root      rt   0        0        0        0 S   0.0    0.0   0:00.00 migration/0
  16 root     -51   0        0        0        0 S   0.0    0.0   0:00.00 idle_inject/0
  17 root      20   0        0        0        0 I   0.0    0.0   0:00.10 kworker/0:1-inode_switch_wbs
  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   0:00.22 migration/1
  22 root      20   0        0        0        0 S   0.0    0.0   0:00.12 ksoftirqd/1
  23 root      20   0        0        0        0 I   0.0    0.0   0:00.00 kworker/1:0-events
  24 root      0 -20        0        0        0 I   0.0    0.0   0:00.00 kworker/1:0H-kblockd
  25 root      20   0        0        0        0 S   0.0    0.0   0:00.00 kdevtmpfs
  26 root      0 -20        0        0        0 I   0.0    0.0   0:00.00 inet_frag_wq
  27 root      20   0        0        0        0 S   0.0    0.0   0:00.00 kauditd
  28 root      20   0        0        0        0 S   0.0    0.0   0:00.00 khungtaskd
  29 root      20   0        0        0        0 S   0.0    0.0   0:00.00 oom_reaper
  30 root      0 -20        0        0        0 I   0.0    0.0   0:00.00 writeback
  31 root      20   0        0        0        0 S   0.0    0.0   0:00.03 kcompactd0
  32 root      25   5        0        0        0 S   0.0    0.0   0:00.00 ksmd
  33 root      39  19        0        0        0 S   0.0    0.0   0:00.00 khugepaged
```

3: con el comando poweroff apagar la VM, pero debemos ejecutarlo con permisos elevados.

```
sysadmin@srv-zbx:~$ poweroff
Failed to set wall message, ignoring: Interactive authentication required.
Failed to power off system via logind: Interactive authentication required.
Failed to open initctl fifo: Permission denied
Failed to talk to init daemon.
sysadmin@srv-zbx:~$ sudo su
[sudo] password for sysadmin:
root@srv-zbx:/home/sysadmin# poweroff
```

En windows se pueden ejecutar las mismas instrucciones, pero con comandos diferentes:

Comando en Ubuntu	Comando en Windows
df	fsutil volume diskfree c:
top	tasklist
poweroff	shutdown /s