

## Recursos del Sistema

## Ubuntu:

- “uptime”:

```
bob@ubuntu:~$ uptime
01:18:23 up 5 min, 1 user, load average: 0.85, 1.50, 0.81
bob@ubuntu:~$
```

- “pstree”:

[illegible][illegible]



- “ps aux”:

```
bob@ubuntu:~$ ps aux
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	2.7	0.2	131208	8988	?	Ss	01:12	0:17	/sbin/init au
root	2	0.0	0.0	0	0	?	S	01:12	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	I<	01:12	0:00	[rcu_gp]
root	4	0.0	0.0	0	0	?	I<	01:12	0:00	[rcu_par_gp]
root	6	0.0	0.0	0	0	?	I<	01:12	0:00	[kworker/0:0H
root	7	0.0	0.0	0	0	?	I	01:12	0:00	[kworker/u256
root	8	0.0	0.0	0	0	?	I<	01:12	0:00	[mm_percpu_wq
root	9	0.1	0.0	0	0	?	S	01:12	0:00	[ksoftirqd/0]
root	10	0.1	0.0	0	0	?	I	01:12	0:01	[rcu_sched]
root	11	0.0	0.0	0	0	?	I	01:12	0:00	[rcu_bh]
root	12	0.0	0.0	0	0	?	S	01:12	0:00	[migration/0]
root	13	0.0	0.0	0	0	?	S	01:12	0:00	[watchdog/0]
root	14	0.0	0.0	0	0	?	S	01:12	0:00	[cpuhp/0]
root	15	0.0	0.0	0	0	?	S	01:12	0:00	[kdevtmpfs]
root	16	0.0	0.0	0	0	?	I<	01:12	0:00	[netns]
root	17	0.0	0.0	0	0	?	S	01:12	0:00	[rcu_tasks_kt
root	18	0.0	0.0	0	0	?	S	01:12	0:00	[kauditd]
root	19	0.0	0.0	0	0	?	S	01:12	0:00	[khungtaskd]
root	20	0.0	0.0	0	0	?	S	01:12	0:00	[oom_reaper]
root	21	0.0	0.0	0	0	?	I<	01:12	0:00	[writeback]
root	22	0.0	0.0	0	0	?	S	01:12	0:00	[kcompactd0]
root	23	0.0	0.0	0	0	?	SN	01:12	0:00	[ksmd]
root	24	0.0	0.0	0	0	?	SN	01:12	0:00	[khugepaged]
root	25	0.0	0.0	0	0	?	I<	01:12	0:00	[crypto]
root	26	0.0	0.0	0	0	?	I<	01:12	0:00	[kintegrityd]
root	27	0.0	0.0	0	0	?	I<	01:12	0:00	[kblockd]

- “ps al”:

```
bob@ubuntu:~$ ps al
```

F	UID	PID	PPID	PRI	NI	VSZ	RSS	WCHAN	STAT	TTY	TIME	COMMAND
4	1000	1591	1530	20	0	187896	6148	poll_s	Ssl+	tty2	0:00	/usr/lib
4	1000	1593	1591	20	0	310960	58108	-	RL+	tty2	0:10	/usr/lib
0	1000	1606	1591	20	0	615712	16616	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1775	1606	20	0	2635704	174180	-	RL+	tty2	0:24	/usr/bin
0	1000	1817	1775	20	0	328332	9872	poll_s	Sl	tty2	0:00	ibus-dae
0	1000	1821	1817	20	0	254008	8712	poll_s	Sl	tty2	0:00	/usr/lib
0	1000	1822	1817	20	0	321344	26572	poll_s	Sl	tty2	0:01	/usr/lib
0	1000	1828	1	20	0	244548	22816	poll_s	Sl	tty2	0:00	/usr/lib
0	1000	1916	1606	20	0	407712	24496	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1917	1606	20	0	280012	10392	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1919	1606	20	0	396904	5716	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1921	1606	20	0	249296	5568	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1923	1606	20	0	416384	12176	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1926	1606	20	0	339560	10008	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1930	1606	20	0	393184	24588	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1934	1606	20	0	322844	23396	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1936	1606	20	0	288200	10352	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1941	1606	20	0	243836	22260	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1943	1606	20	0	253824	8660	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1944	1606	20	0	360308	16004	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1945	1606	20	0	477808	24228	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1947	1606	20	0	394376	22908	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1948	1606	20	0	329820	8996	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1950	1606	20	0	253828	8476	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1953	1606	20	0	1017556	26844	poll_s	Sl+	tty2	0:00	/usr/lib
0	1000	1979	1	20	0	401652	13716	poll_s	Sl+	tty2	0:00	/usr/lib

- “top”:

```
bob@ubuntu:~$ top

top - 01:26:48 up 14 min,  1 user,  load average: 0.02, 0.35, 0.51
Tasks: 235 total,   1 running, 234 sleeping,   0 stopped,   0 zombie
%Cpu(s): 23.3 us,  9.2 sy,   0.0 ni, 67.1 id,   0.0 wa,   0.0 hi,   0.3 si,   0.0 st
MiB Mem :  3921.4 total,  2353.2 free,   813.8 used,   754.3 buff/cache
MiB Swap:  1186.4 total,  1186.4 free,    0.0 used.  2845.5 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 1593 bob        20   0  310960  58108 38036 S   19.4   1.4   0:12.54 Xorg
 1775 bob        20   0 2635608 174244 86108 S    5.6   4.3   0:25.24 gnome-sh+
 2247 bob        20   0  637180  37136 27188 S    5.6   0.9   0:05.82 gnome-te+
 2650 bob        20   0   34756   3708  3008 R    0.7   0.1   0:00.07 top
    10 root        20   0     0     0     0  I   0.3   0.0   0:01.34 rcu_sched
   101 root        20   0     0     0     0  I   0.3   0.0   0:02.82 kworker/+
   342 root        20   0  142756  11136  9872 S    0.3   0.3   0:02.91 vmtoolsd

top - 01:27:00 up 14 min,  1 user,  load average: 0.10, 0.36, 0.51
Tasks: 235 total,   1 running, 234 sleeping,   0 stopped,   0 zombie
%Cpu(s): 36.3 us,  9.2 sy,   0.0 ni, 54.1 id,   0.0 wa,   0.0 hi,   0.3 si,   0.0 st
MiB Mem :  3921.4 total,  2353.3 free,   813.8 used,   754.3 buff/cache
```

- “vmstat”:

```
bob@ubuntu:~$ vmstat
procs -----memory----- ---swap-- -----io---- -system-- -----cpu----
-
 r  b   swpd   free   buff  cache   si   so    bi    bo   in   cs us sy id wa s
t
 2  0       0 2409084 120120 652420    0    0   644    49  167  588  9 12 73  6
0
bob@ubuntu:~$
```

- “W”:

```
bob@ubuntu:~$ w
 01:30:13 up 17 min,  1 user,  load average: 0.00, 0.18, 0.41
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
bob       :0        :0              01:15    ?xdm?   1:09   0.05s /usr/lib/gdm3/
bob@ubuntu:~$
```

- “ulimit”:

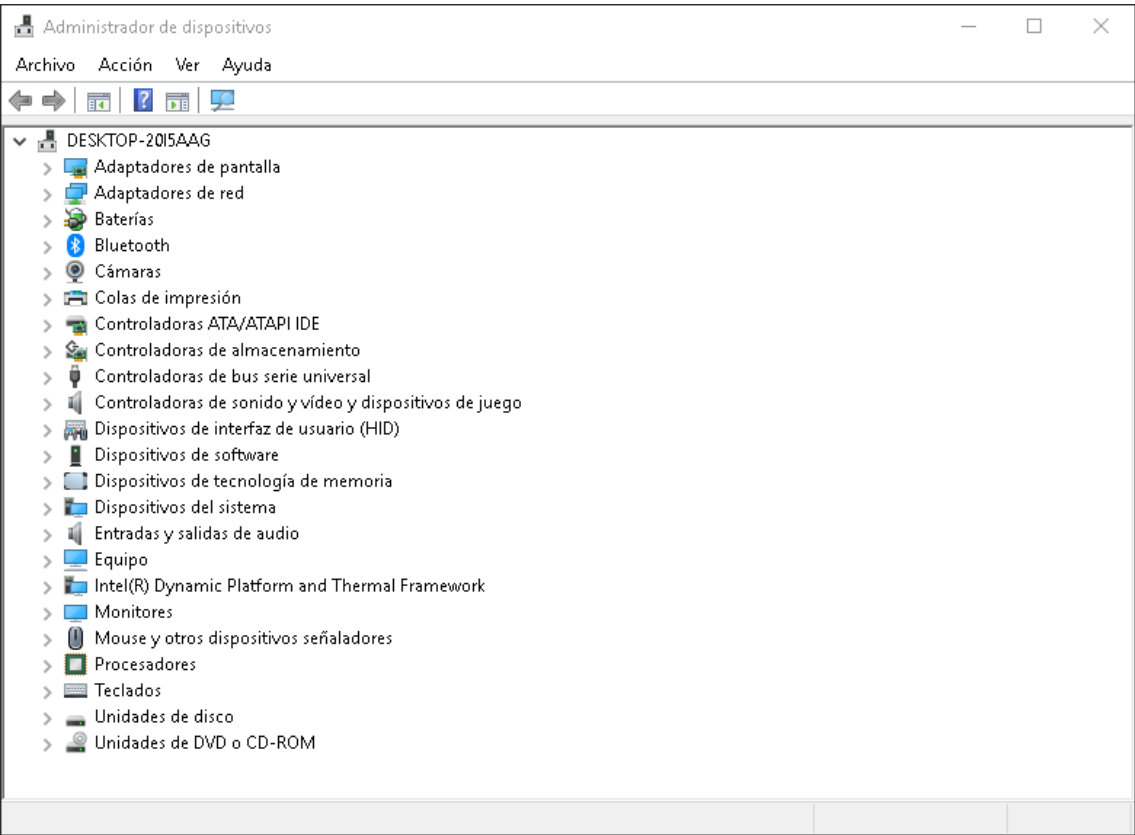
```
bob@ubuntu:~$ ulimit
unlimited
bob@ubuntu:~$
```

- “kill”:

```
3577 tty2      00:01:38 firefox
3729 tty2      00:00:02 WebExtensions
3747 tty2      00:05:05 Web Content
3806 tty2      00:00:02 Web Content
3864 tty2      00:00:01 Web Content
3912 ?          00:00:01 kworker/0:0-events
3960 ?          00:00:00 kworker/0:1-cgroup_destroy
3992 ?          00:00:00 kworker/u256:2-events_unbound
4010 pts/0      00:00:00 ps
bob@ubuntu:~$ kill 3577
bob@ubuntu:~$
```

# Windows

- Administrador de dispositivos



- Monitor de rendimiento

