6) a. top

top - 01:52:20 up 1:20, 1 user, load average: 2.58, 2.43, 2.37 Tasks: 284 total, 1 running, 282 sleeping, 0 stopped, 1 zombie %Cpu(s): **11.0** us, **4.0** sy, **0.0** ni, **84.0** id, **0.0** wa, **0.0** hi, **1.0** si, **0.0** st MiB Mem : **15792.6** total, 3080.2 free, 8278.8 used, 5910.5 buff/cache 8.0 used. MiB Swap: **4096.0** total, 4088.0 free, **7513.8** avail Mem PID USER PR NI VIRT **RES** SHR S %CPU %MEM TIME+ COMMAND 1501 tetroner 20 0 1132.4g 724784 188524 S 100.0 4.5 69:06.94 Discord 746 root 20 25.0g 173072 107680 S 1.1 10:19.10 Xorg 0 8.3 116972 24012 8648 S 0.1 1:09.99 pipewire 832 tetroner 9 -11 8.3 32.9g 252668 121224 S 1758 tetroner 20 0 8.3 1.6 10:33.73 brave 0:00.02 top 11346 tetroner 12304 5836 3660 R 20 0 8.3 0.0 1 root 20 22788 13472 10120 S 0.0 0.1 0:01.73 systemd 2 root 20 0 0 S 0.0 0.0 0:00.00 kthreadd 0 0 0 S 0:00.00 pool_workqueue_release 3 root 20 0 0 0.0 0 0.0 0 -20 0 0 I 0.0 0:00.00 kworker/R-rcu_g 4 root 0 0.0 0.0 5 root 0 -20 0 0 0 I 0.0 0:00.00 kworker/R-rcu_p 0 -20 0 0 I 0.0 0.0 0:00.00 kworker/R-slub_ 6 root 0 0 -20 0 0.0 0.0 0:00.00 kworker/R-netns 7 root 0 0 I 0 -20 0:00.00 kworker/0:0H-events_highpri 9 root 0 0 0 I 0.0 0.0 12 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-mm_pe 14 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_kthread 15 root 20 0 0 I 0.0 0:00.00 rcu_tasks_rude_kthread 0 0 0.0 0 I 16 root 20 0 0 0 0.0 0.0 0:00.00 rcu tasks trace kthread 17 root 20 0 0 0 0 S 0.0 0.0 0:00.06 ksoftirqd/0 0 I 0:01.36 rcu_preempt 18 root -2 0 0 0 0.0 0.0 19 root -2 0 0 0 0 S 0.0 0.0 0:00.00 rcub/0 20 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0

b. ps

```
$ ps
    PID TTY
                      TIME CMD
  11261 pts/1
                  00:00:00 zsh
  11541 pts/1 00:00:00 ps
~ 🕞 1:53:02
$ ps -1
F S UID
            PID
                    PPID C PRI NI ADDR SZ WCHAN TTY
                                                                     TIME CMD
                     11249 0 80 0 - 2738 sigsus pts/1 00:00:00 zsh
0 S 1000
            11261
4 R 1000
            11554 11261 0 80 0 - 2830 - pts/1
                                                                 00:00:00 ps
~ 🕞 1:53:04
$ ps -f
UID PID PPID C STIME TTY TIME CMD tetroner 11261 11249 0 01:51 pts/1 00:00:00 /bin/zsh tetroner 11568 11261 0 01:53 pts/1 00:00:00 ps -f
```

c. kill

d. nice

```
MiB Mem : 15792.6 total,
                          3011.1 free,
                                        8235.3 used,
                                                       6036.8 buff/cache
MiB Swap:
           4096.0 total,
                          4088.0 free,
                                           8.0 used.
                                                       7557.3 avail Mem
    PID USER
                 PR NI
                                        SHR S %CPU %MEM
                         VIRT
                                  RES
                                                             TIME+ COMMAND
   1501 tetroner 20 0 1132.4g 743940 188532 S 79.3
                                                      4.6 74:50.23 Discord
  12951 tetroner 39 19 50.1g 306708 107072 S 13.7
                                                      1.9
                                                           0:05.81 spotify
  12866 tetroner 39 19 3869816 331956 155968 S
                                               5.3
                                                      2.1
                                                           0:01.92 spotify
   746 root
                 20 0 25.0g 174364 107692 S
                                                4.3
                                                      1.1 10:48.96 Xorg
   835 tetroner
                9 -11 132328 43588
                                       8232 S
                                                1.3
                                                      0.3
                                                           2:05.46 pipewire-pulse
                9 -11 116888 24008
                                        8644 S
                                                1.0
                                                      0.1
                                                          1:13.88 pipewire
   832 tetroner
   938 tetroner 20 0 2439972 197200 112644 S
                                                0.7
                                                     1.2
                                                          8:29.55 kwin_x11
   3735 tetroner 20 0 1133.5g 499944 146332 S
                                                0.7
                                                     3.1 11:07.65 brave
   935 tetroner 20 0 760992 89276 65040 S
                                                0.3
                                                           0:01.50 ksmserver
                                                      0.6
   977 tetroner 20
1692 tetroner 20
                     0 5241488 592200 191524 S
                                                           3:58.12 plasmashell
                                                0.3
                                                      3.7
                     0 32.8g 539152 215968 S
                                                0.3
                                                      3.3
                                                           7:30.29 brave
                                                           0:01.91 baloorunner
   2284 tetroner 20 0 256.7g 211088 176936 S
                                                0.3
                                                      1.3
                     0 257.4g 155588 100276 S
   2293 tetroner 20
                                                0.3
                                                      1.0 0:21.22 dolphin
                                                0.3
  11989 tetroner 20
                    0 853768 195724 126120 S
                                                     1.2 0:01.40 kitty
  12934 tetroner
                39 19 1025912 126152 92532 S
                                                           0:00.44 spotify
                                                      0.1
     1 root
                 20
                     0
                         22788 13472 10120 S
                                                0.0
                                                           0:01.76 systemd
     2 root
                 20 0
                             0
                                   0
                                          0 S
                                                0.0
                                                      0.0 0:00.00 kthreadd
                 20 0
                             0
                                    0
                                          0 S
                                                0.0
                                                      0.0 0:00.00 pool_workqueue_release
     3 root
```

e . renice

```
    pidof spotify
12951 12934 12929 12905 12887 12886 12866

    in 1:58:48
$ renice 7 12866
renice: failed to set priority for 12866 (process ID): Permission denied

    in 1:59:14
$ sudo renice 7 12866
[sudo] password for tetroner:
12866 (process ID) old priority 19, new priority 7
```

Σ								~		
MiB Mem	: 15792.6	5 to	tal,	2933	2 free,	8313.7	used,	5997	.1 buff/d	cache
MiB Swa	p: 4096. 6) to	tal,	4088	0 free	8.0	used.	7478	.9 avail	Mem
	USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+	COMMAND
1501	tetroner	20	0	1132.4g	744800	188336 S	88.7	4.6	76:05.44	Discord
13089	tetroner	20	0			86812 S	8.3	1.1	0:00.69	brave
746	root	20	0	25.0g	174328	107656 S	6.0	1.1	10:55.45	Xorg
938	tetroner	20	0	2439972	197240	112644 S	2.3	1.2	8:34.30	kwin_x11
835	tetroner	9	-11	132328	43588	8232 S	2.0	0.3	2:06.93	pipewire-pulse
11989	tetroner	20	0	855816	195724	126120 S	1.7	1.2	0:01.98	kitty
832	tetroner	9	-11	116888	24008	8644 S	1.3	0.1	1:14.81	pipewire
1692	tetroner	20	0	32.8g	542620	215928 S	0.7	3.4	7:31.94	brave
2121	tetroner	20	0	1131.3g	228492	127052 S	0.3	1.4	0:08.77	brave
2171	tetroner	20	0	1150.0g	282452	130528 S	0.3	1.7	0:10.40	brave
12866	tetroner	27	7	3868728	332724	156608 S	0.3	2.1	0:02.18	spotify
13160	tetroner	20	0	12296	6048	3872 R	0.3	0.0	0:00.05	top
1	root	20	0	22788	13472	10120 S	0.0	0.1	0:01.77	systemd
2	root	20	0	0	0	0 S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0 S	0.0	0.0	0:00.00	<pre>pool_workqueue_release</pre>
4	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	kworker/R-rcu_g
5	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	kworker/R-rcu_p
6	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	kworker/R-slub_

f. jobs / g. fg / h. bg / i. sleep

```
~ • 2:00:46
$ sleep 10 &
[1] 13325
~ • 2:00:49
$ jobs
[1] + running
                 sleep 10
$
[1] + 13325 done sleep 10
~ 📀 2:00:59
$ sleep 10
^Z
[1] + 13364 suspended sleep 10
~ • 2:01:04
$ bg
[1] + 13364 continued sleep 10
~ 🕘 2:01:05
[1] + 13364 done
                        sleep 10
```

j. pstree

```
~ ② 2:01:56
$ pstree
         -NetworkManager---3*[{NetworkManager}]
systemd<del></del> ⊤
         -accounts-daemon---3*[{accounts-daemon}]
         —avahi-daemon——avahi-daemon
         -containerd---11*[{containerd}]
         -cupsd
         —dbus-broker-lau——dbus-broker
         —dnsmasq——dnsmasq
—dockerd——13*[{dockerd}]
         -firewalld---{firewalld}
         -passimd---3*[{passimd}]
         -polkitd---3*[{polkitd}]
         -python3
         -rtkit-daemon---2*[{rtkit-daemon}]
         -sddm---Xorg---7*[{Xorg}]
                 -sddm-helper---startplasma-x11---{startplasma-x11}
                -{sddm}
         —systemd<del>    </del>(sd-pam)
                   —DiscoverNotifie——9*[{DiscoverNotifie}]
                   --agent----3*[{agent}]
                   ─at-spi-bus-laun──dbus-broker-lau──dbus-broker
```

```
~ 📀 2:02:51
$ cat > test.txt
hello
world
^C
~ 📀 2:03:08
$ cat test.txt
hello
world
~ 🔮 2:03:16
$ cat < test.txt</pre>
hello
world
~ 📀 2:03:43
$ cat < error.txt</pre>
zsh: command not found: tata
```

```
$ cat >> test.txt
hello
^C
~ 📀 2:04:07
$ cat test.txt
hello
world
hello
~ 📀 2:04:11
$ cat << test.txt</pre>
heredoc> ehh
heredoc>
~ 📀 2:04:29
$ cat test.txt
hello
world
hello
```