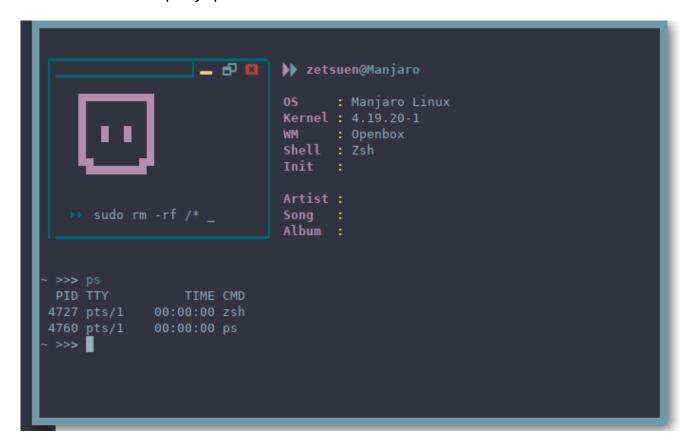
Nama: Hanifan Nurul Haq 6706184096

M. Faishal Hasbi 6706184091

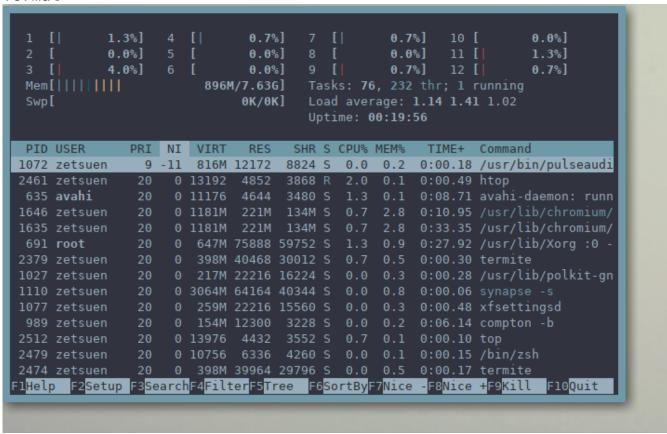
Kelas: D3IF-42-02

Linux Command to show Threads

1. PS => to display processes for the current shell



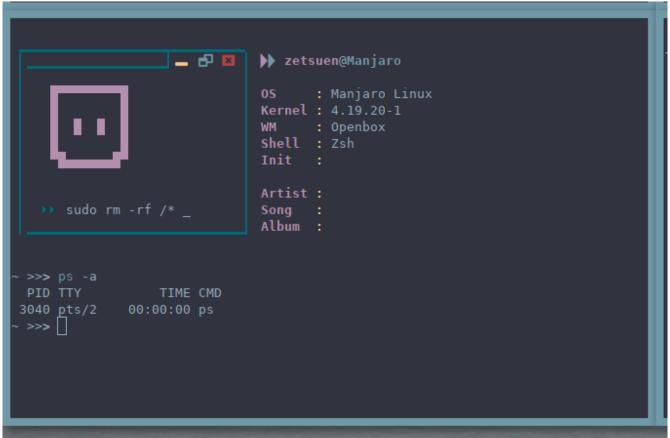
2. htop =>to display data of various system processes and their resource consumption in a human-readable, color-coded, easy-to-use format



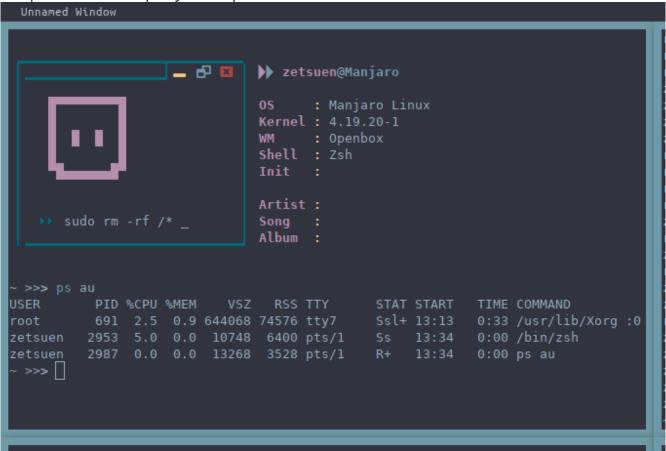
3. top => Display and update information about the top CPU processes

```
top - 13:26:32 up 13 min, 1 user, load average: 0,52, 0,92, 0,67
Tasks: 270 total, 1 running, 269 sleeping, 0 stopped, 0 zombie
%Cpu0 : 0,0 us, 0,0 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,3 si, 0,0 st
%Cpul : 0,0 us, 0,0 sy, 0,0 ni,100,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
      : 0.0 us, 0.3 sy, 0.0 ni, 99,7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
%Cpu2
      : 0,0 us, 0,3 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
%Cpu3
%Cpu4
      : 0,0 us, 0,3 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
      : 0,0 us, 0,0 sy, 0,0 ni,100,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
: 0,0 us, 0,0 sy, 0,0 ni,100,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
%Cpu5
%Cpu6
                                                                      0,0 st
      : 0,7 us, 1,0 sy, 0,0 ni, 98,3 id, 0,0 wa, 0,0 hi, 0,0 si,
      : 0,3 us, 0,3 sy, 0,0 ni, 99,0 id, 0,0 wa, 0,0 hi, 0,3 si, 0,0 st
      : 0,3 us, 0,3 sy, 0,0 ni, 99,3 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
%Cpu9
%Cpul0 : 0,0 us, 0,0 sy, 0,0 ni, 86,3 id, 13,7 wa, 0,0 hi, 0,0 si, 0,0 st
%Cpull : 0,0 us, 0,0 sy, 0,0 ni,100,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8004852 total, 6047724 free, 712460 used, 1244668 buff/cache
KiB Swap:
                0 total,
                                0 free,
                                              0 used. 6702556 avail Mem
 PID USER
               PR NI
                        VIRT
                                RES
                                       SHR S %CPU %MEM
                                                            TIME+ COMMAND
 1635 zetsuen
                      1217976 227564 137828 S
                                                           0:29.54 /usr/lib/chromium/chr+
 635 avahi
                        11176
                                     3480 S
                                                    1,1 0:15.63 /usr/lib/Xorg :0 -sea+
                       408504 40716 29936 S
 1242 zetsuen
                                                           0:00.04 [ksoftirgd/8]
                                                           0:01.18 [irg/126-iwlwifi]
                                                           0:00.11 [irq/128-iwlwifi]
                                                           0:00.80 [irq/132-iwlwifi]
```

4. ps -A =>Display every active process on a Linux system in generic (Unix/Linux) format.



5. ps au => Display all processes in BSD format.



## 6. ps -eF => to display process based on flag

```
UID
           PID
               PPID C STIME TTY
                                           TIME CMD
                   0 0 13:12 ?
root
                                       00:00:00 [kthreadd]
root
                   0 0 13:12 ?
                                       00:00:00 [rcu gp]
root
                   2 0 13:12 ?
                     0 13:12 ?
                                       00:00:00 [rcu_par_gp]
root
                                       00:00:00 [kworker/0:0H-kblockd]
root
                                       00:00:01 [kworker/u24:0-i915]
root
                   2 0 13:12 ?
                                       00:00:00 [mm_percpu_wq]
root
                   2 0 13:12 ?
                   2 0 13:12 ?
                                       00:00:00 [ksoftirqd/0]
root
                                       00:00:01 [rcu_preempt]
root
                                       00:00:00 [rcu sched]
root
            11
                   2 0 13:12 ?
            12
                   2 0 13:12 ?
                                       00:00:00 [rcu bh]
root
                                       00:00:00 [rcuc/0]
            13
                   2 0 13:12 ?
root
                                       00:00:00 [rcub/0]
root
                   2 0 13:12 ?
root
                   2 0 13:12 ?
                                       00:00:00 [migration/0]
                                       00:00:00 [idle_inject/0]
root
                   2 0 13:12 ?
                   2 0 13:12 ?
                                       00:00:00 [cpuhp/0]
root
root
                   2 0 13:12 ?
                                       00:00:00 [cpuhp/1]
                                       00:00:00 [idle inject/1]
root
            21
                   2 0 13:12 ?
                                       00:00:00 [migration/1]
root
root
                   2 0 13:12 ?
                                       00:00:00 [rcuc/1]
                                       00:00:00 [ksoftirqd/1]
```

7. ps -x = > to display processes owned by user

```
TIME COMMAND
 PID TTY
                     0:00 /usr/lib/systemd/systemd --user
 943 ?
                     0:00 (sd-pam)
 945 ?
              SLl
                     0:00 /usr/bin/gnome-keyring-daemon --daemonize --login
                     0:02 /usr/bin/openbox --startup /usr/lib/openbox/openbox-au
                     0:00 /usr/bin/dbus-daemon --session --address=systemd: --no
 970 ?
                     0:08 compton -b
 989 ?
1021 ?
                     0:00 tint2 -c /home/zetsuen/.config/tint2/liness/liness.tin
                     0:00 volumeicon
                     0:00 /usr/lib/polkit-gnome/polkit-gnome-authentication-agen
                     0:00 /usr/lib/gvfsd
                     0:00 /usr/lib/gvfsd-fuse /run/user/1000/gvfs -f -o big_writ
1047 ?
                     0:00 /usr/lib/at-spi-bus-launcher
                     0:00 /usr/bin/dbus-daemon --config-file=/usr/share/defaults
1058 ?
1060 ?
                     0:00 /usr/lib/at-spi2-registryd --use-gnome-session
1061 ?
                     0:01 synapse -s
                     0:00 /usr/bin/pulseaudio --daemonize=no
              S<sl
                     0:04 thunar --daemon
1077 ?
                     0:00 xfsettingsd
                     0:00 xcape -e Super_L Alt_L F1
1086 ?
```

8. ps -fU =>to display processes by real user ID(RUID) or name.

~ >>> ps	-fu 10	00					
UID	PID	PPID	С	STIME	TTY	TIME	CMD
zetsuen	943			13:14		00:00:00	/usr/lib/systemd/systemduser
zetsuen	945	943	Θ	13:14		00:00:00	
zetsuen	953		Θ	13:14			/usr/bin/gnome-keyring-daemond
zetsuen	957	934		13:14		00:00:02	/usr/bin/openboxstartup /usr/l
zetsuen	970	943		13:14		00:00:00	/usr/bin/dbus-daemonsession
zetsuen	989			13:14		00:00:08	compton -b
zetsuen	1021		Θ	13:14			tint2 -c /home/zetsuen/.config/ti
zetsuen	1026		Θ	13:14		00:00:00	volumeicon
zetsuen	1027		Θ	13:14			/usr/lib/polkit-gnome/polkit-gnom
zetsuen	1034	943	Θ	13:14		00:00:00	/usr/lib/gvfsd
zetsuen	1039	943		13:14		00:00:00	/usr/lib/gvfsd-fuse /run/user/100
zetsuen	1047	943		13:14		00:00:00	/usr/lib/at-spi-bus-launcher
zetsuen	1051	943		13:14		00:00:00	/usr/lib/xfce4/xfconf/xfconfd
zetsuen	1058	1047	Θ	13:14		00:00:00	/usr/bin/dbus-daemonconfig-fil
zetsuen	1060	943	Θ	13:14		00:00:00	/usr/lib/at-spi2-registryduse-
zetsuen	1061		Θ	13:14		00:00:01	synapse -s
zetsuen	1072	943	Θ	13:14			/usr/bin/pulseaudiodaemonize=r
zetsuen	1073			13:14		00:00:04	thunardaemon
zetsuen	1077			13:14		00:00:00	xfsettingsd
zetsuen	1086			13:14			xcape -e Super_L Alt_L F1
zetsuen	1088		Θ	13:14		00:00:00	/usr/lib/geoclue-2.0/demos/agent
zetsuen	1090	1	Θ	13:14	?	00:00:00	pamac-trav

9. ps -U root -u root => to display every process running with root privileges.

```
>>> ps -U root -u root
PID TTY
                TIME CMD
            00:00:01 systemd
            00:00:00 kthreadd
            00:00:00 rcu_par_gp
            00:00:01 kworker/u24:0-events_unbound
            00:00:00 mm_percpu_wq
            00:00:01 rcu_preempt
 11 ?
12 ?
            00:00:00 rcu_bh
            00:00:00 rcuc/0
            00:00:00 rcub/0
            00:00:00 migration/0
            00:00:00 idle_inject/0
            00:00:00 cpuhp/0
            00:00:00 cpuhp/1
            00:00:00 idle_inject/1
21 ?
            00:00:00 migration/1
            00:00:00 rcuc/l
            00:00:00 ksoftirqd/l
```

10. ps -e —forest => to display proces tree that show how processes on the system linked each other.

```
>>> ps -e --forest
PID TTY
                TIME CMD
            00:00:00 \_ rcu_gp
            00:00:00 \_ rcu_par_gp
            00:00:00 \_ mm_percpu_wq
            00:00:00 \_ ksoftirqd/0
                      \_ rcu_preempt
            00:00:01
 11 ?
 12 ?
                      \_ rcu_bh
            00:00:00
            00:00:00 \__rcub/0
                      \_ idle_inject/0
                      \_ cpuhp/0
            00:00:00
                      \_ idle_inject/l
            00:00:00
                      \ migration/l
 22 ?
            00:00:00
                      \_ ksoftirqd/l
 23 ?
            00:00:00
```

11. ps -fL =>to print all threads of a process.

~ >>> ps	-fL -C	chrom	ium	_				[1]	٦.
UID	PID	PPID	LWP	С	NLWP	STIME	TTY	TIME CMD	L
zetsuen	1635	1625	1635	1	30	13:19		00:00:30 /usr/lib/chromium/chr	о 📗
zetsuen	1635	1625	1636		30	13:19		00:00:00 /usr/lib/chromium/chr	0
zetsuen	1635	1625	1641		30	13:19		00:00:00 /usr/lib/chromium/chr	o
zetsuen	1635	1625	1642		30	13:19		00:00:00 /usr/lib/chromium/chr	o
zetsuen	1635	1625	1643		30	13:19		00:00:00 /usr/lib/chromium/chr	
zetsuen	1635	1625	1646	1	30	13:19		00:00:25 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1647		30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1648		30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1649	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1650	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	о .
zetsuen	1635	1625	1651	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	
zetsuen	1635	1625	1652	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	0
zetsuen	1635	1625	1659	Θ	30	13:19		00:00:01 /usr/lib/chromium/chr	
zetsuen	1635	1625	1660	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	
zetsuen	1635	1625	1662	0	30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1663	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1664	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	о 🛮
zetsuen	1635	1625	1666	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	_
zetsuen	1635	1625	1667		30	13:19		00:00:00 /usr/lib/chromium/chr	o 4
zetsuen	1635	1625	1668	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	0
zetsuen	1635	1625	1680		30	13:19		00:00:00 /usr/lib/chromium/chr	_
zetsuen	1635	1625	1681	Θ	30	13:19		00:00:00 /usr/lib/chromium/chr	о 📗

12. ps -eo => to display pid, ppid, username and command of a process.

13.pstree => to show processes tree.

```
-zeitgeist-daemo—2*[{zeitgeist-daemo}]
-zeitgeist-fts—2*[{zeitgeist-fts}]
-systemd-journal
-systemd-logind
-systemd-timesyn—{systemd-timesyn}
-systemd-udevd
-termite—zsh—top
-2*[{termite}]
-termite—zsh—sudo—su—bash—pstree
-2*[{termite}]
-termite—zsh
-2*[{termite}]
-termite—zsh—oosplash—soffice.bin—20*[{soffice.bin}]
-2*[{termite}]
-thunar—2*[{thunar}]
-tint2
-udisksd—4*[{udisksd}]
-volumeicon—3*[{volumeicon}]
-wpa_supplicant
-xcape—{xcape}
-xfsettingsd—2*[{xfsettingsd}]
-zeitgeist-datah—14*[{zeitgeist-datah}]

[Manjaro zetsuen]# [
```