



# **\*UNIX AND LINUX ESSENTIALS\***

## **ASSIGNMENT -12**

**SUBMITTED BY:**

**AYUSH KUMAR JHA**

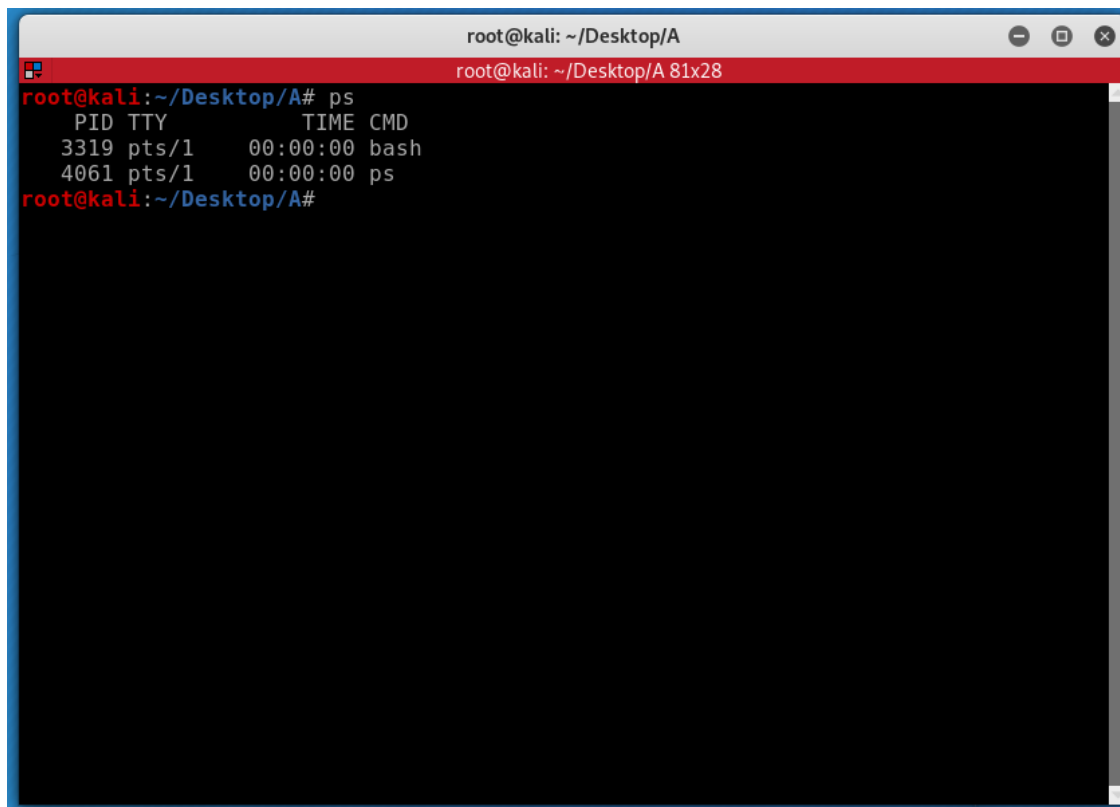
**SAP ID - 500086400**

**Enrollment no - R200220083**

**B.C.A -I.O.T.**

## Assignment 12 :-

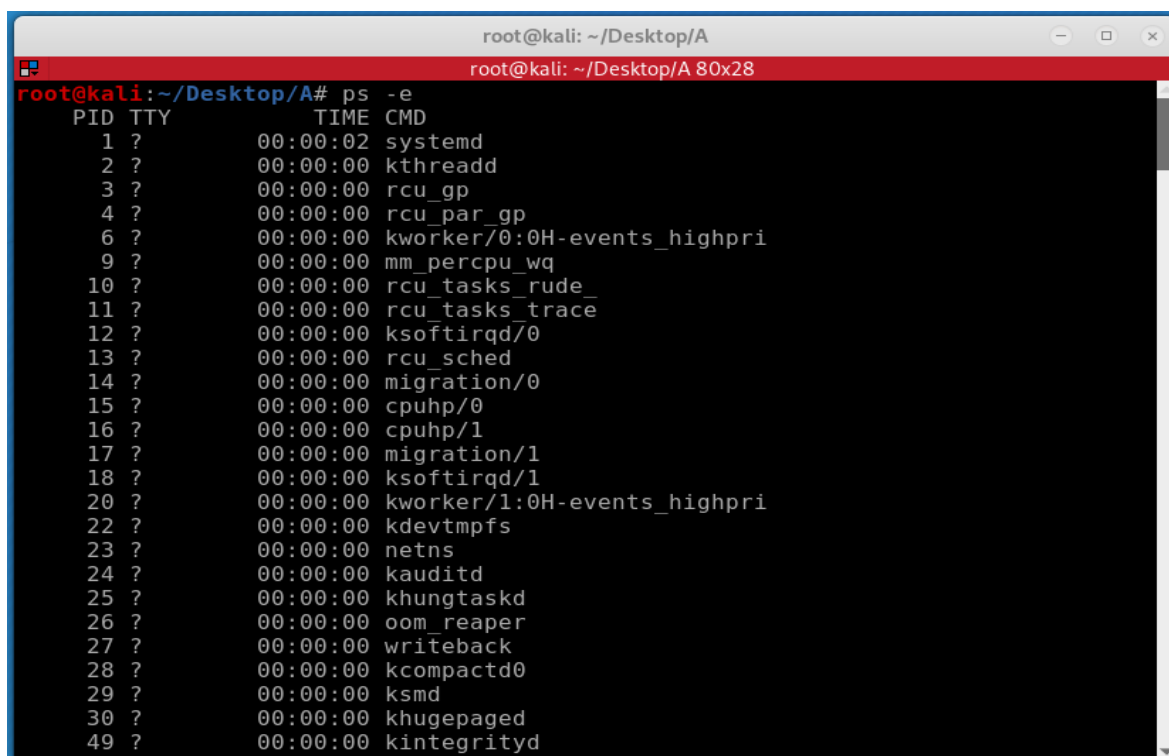
- Ps current running processes.



A terminal window titled 'root@kali: ~/Desktop/A' with a red header bar. The window shows the output of the 'ps' command. The output is a table with columns: PID, TTY, TIME, and CMD. The first two rows are: PID 3319, TTY pts/1, TIME 00:00:00, CMD bash; and PID 4061, TTY pts/1, TIME 00:00:00, CMD ps. The prompt 'root@kali:~/Desktop/A#' is visible at the bottom.

```
root@kali:~/Desktop/A# ps
  PID TTY          TIME CMD
  3319 pts/1    00:00:00 bash
  4061 pts/1    00:00:00 ps
root@kali:~/Desktop/A#
```

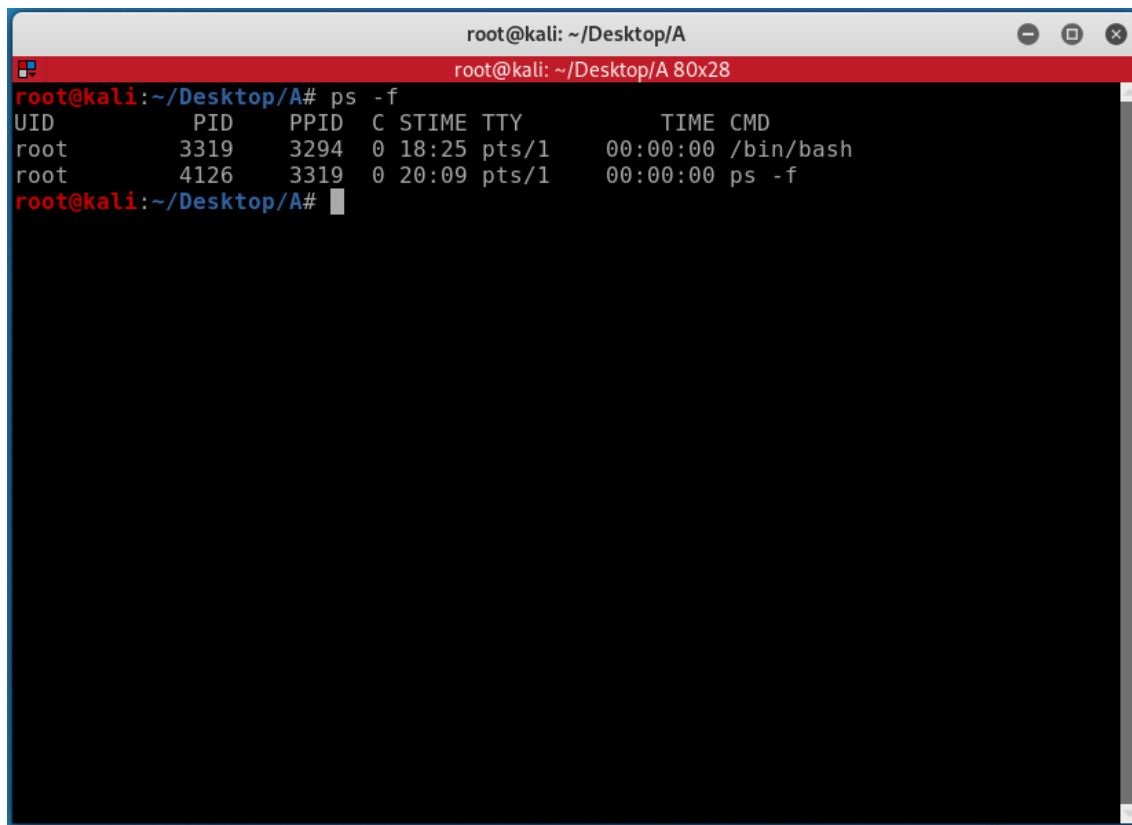
- Show current running processes.



A terminal window titled 'root@kali: ~/Desktop/A' with a red header bar. The window shows the output of the 'ps -e' command, listing all running processes. The output is a table with columns: PID, TTY, TIME, and CMD. The processes listed include systemd, kthreadd, rcu\_gp, rcu\_par\_gp, kworker/0:0H-events\_highpri, mm\_percpu\_wq, rcu\_tasks\_rude\_, rcu\_tasks\_trace, ksoftirqd/0, rcu\_sched, migration/0, cpuhp/0, cpuhp/1, migration/1, ksoftirqd/1, kworker/1:0H-events\_highpri, kdevtmpfs, netns, kauditd, khungtaskd, oom\_reaper, writeback, kcompactd0, ksm, khugepaged, and kintegrityd. The prompt 'root@kali:~/Desktop/A#' is visible at the bottom.

```
root@kali:~/Desktop/A# ps -e
  PID TTY          TIME CMD
    1 ?           00:00:02 systemd
    2 ?           00:00:00 kthreadd
    3 ?           00:00:00 rcu_gp
    4 ?           00:00:00 rcu_par_gp
    6 ?           00:00:00 kworker/0:0H-events_highpri
    9 ?           00:00:00 mm_percpu_wq
   10 ?           00:00:00 rcu_tasks_rude_
   11 ?           00:00:00 rcu_tasks_trace
   12 ?           00:00:00 ksoftirqd/0
   13 ?           00:00:00 rcu_sched
   14 ?           00:00:00 migration/0
   15 ?           00:00:00 cpuhp/0
   16 ?           00:00:00 cpuhp/1
   17 ?           00:00:00 migration/1
   18 ?           00:00:00 ksoftirqd/1
   20 ?           00:00:00 kworker/1:0H-events_highpri
   22 ?           00:00:00 kdevtmpfs
   23 ?           00:00:00 netns
   24 ?           00:00:00 kauditd
   25 ?           00:00:00 khungtaskd
   26 ?           00:00:00 oom_reaper
   27 ?           00:00:00 writeback
   28 ?           00:00:00 kcompactd0
   29 ?           00:00:00 ksm
   30 ?           00:00:00 khugepaged
   49 ?           00:00:00 kintegrityd
```

- Generating list

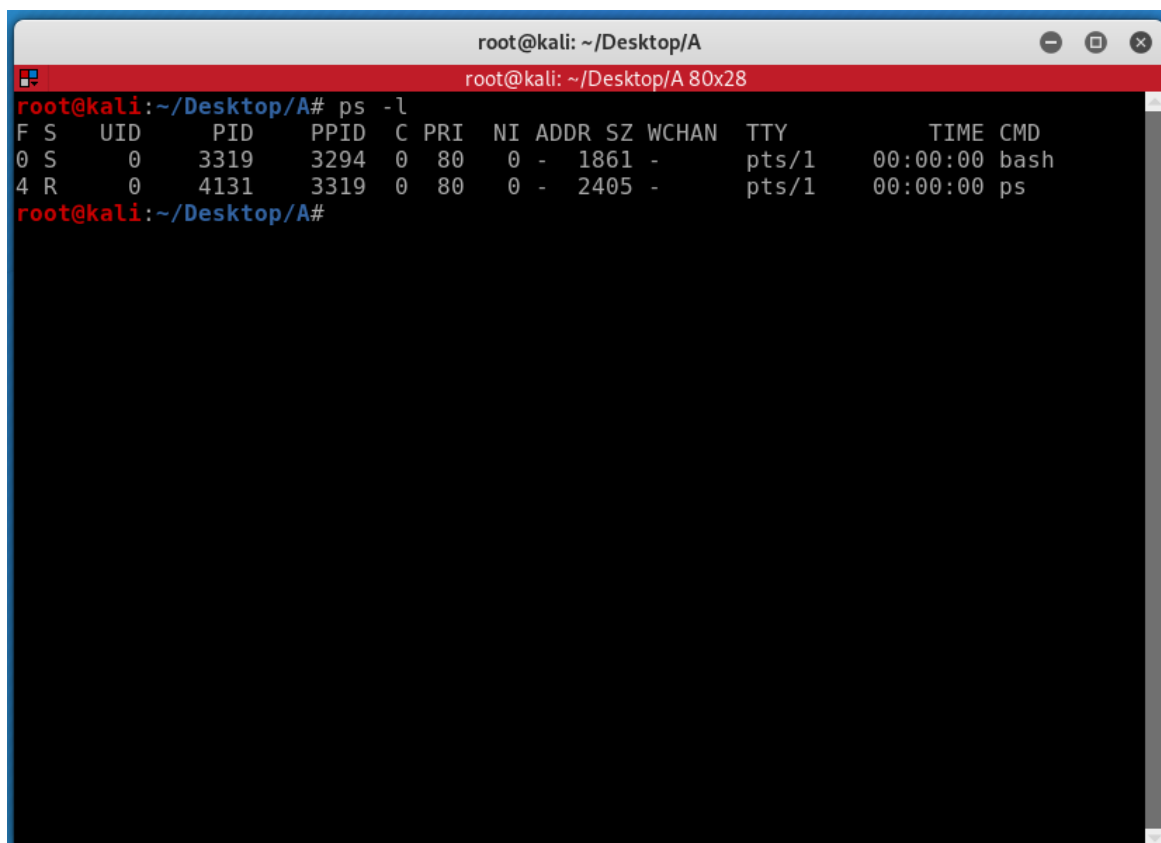


A terminal window titled 'root@kali: ~/Desktop/A' with a subtitle 'root@kali: ~/Desktop/A 80x28'. The prompt is 'root@kali:~/Desktop/A#'. The command 'ps -f' has been executed, displaying a list of processes in a table format.

UID	PID	PPID	C	STIME	TTY	TIME	CMD
root	3319	3294	0	18:25	pts/1	00:00:00	/bin/bash
root	4126	3319	0	20:09	pts/1	00:00:00	ps -f

The prompt is now 'root@kali:~/Desktop/A#' with a cursor.

- Generating long list



A terminal window titled 'root@kali: ~/Desktop/A' with a subtitle 'root@kali: ~/Desktop/A 80x28'. The prompt is 'root@kali:~/Desktop/A#'. The command 'ps -l' has been executed, displaying a more detailed list of processes in a table format.

F	S	UID	PID	PPID	C	PRI	NI	ADDR	SZ	WCHAN	TTY	TIME	CMD
0	S	0	3319	3294	0	80	0	-	1861	-	pts/1	00:00:00	bash
4	R	0	4131	3319	0	80	0	-	2405	-	pts/1	00:00:00	ps

The prompt is now 'root@kali:~/Desktop/A#' with a cursor.

- Show the current running and long list

```

root@kali: ~/Desktop/A
root@kali: ~/Desktop/A 85x28
root@kali:~/Desktop/A# ps -ef
UID          PID    PPID  C   STIME TTY          TIME CMD
root           1        0  0  18:21 ?        00:00:02 /sbin/init splash
root           2        0  0  18:21 ?        00:00:00 [kthreadd]
root           3        2  0  18:21 ?        00:00:00 [rcu_gp]
root           4        2  0  18:21 ?        00:00:00 [rcu_par_gp]
root           6        2  0  18:21 ?        00:00:00 [kworker/0:0H-events_highpri]
root           9        2  0  18:21 ?        00:00:00 [mm_percpu_wq]
root          10        2  0  18:21 ?        00:00:00 [rcu_tasks_rude_]
root          11        2  0  18:21 ?        00:00:00 [rcu_tasks_trace]
root          12        2  0  18:21 ?        00:00:00 [ksoftirqd/0]
root          13        2  0  18:21 ?        00:00:00 [rcu_sched]
root          14        2  0  18:21 ?        00:00:00 [migration/0]
root          15        2  0  18:21 ?        00:00:00 [cpuhp/0]
root          16        2  0  18:21 ?        00:00:00 [cpuhp/1]
root          17        2  0  18:21 ?        00:00:00 [migration/1]
root          18        2  0  18:21 ?        00:00:00 [ksoftirqd/1]
root          20        2  0  18:21 ?        00:00:00 [kworker/1:0H-events_highpri]
root          22        2  0  18:21 ?        00:00:00 [kdevtmpfs]
root          23        2  0  18:21 ?        00:00:00 [netns]
root          24        2  0  18:21 ?        00:00:00 [kauditd]
root          25        2  0  18:21 ?        00:00:00 [khungtaskd]
root          26        2  0  18:21 ?        00:00:00 [oom_reaper]
root          27        2  0  18:21 ?        00:00:00 [writeback]
root          28        2  0  18:21 ?        00:00:00 [kcompactd0]
root          29        2  0  18:21 ?        00:00:00 [ksmd]
root          30        2  0  18:21 ?        00:00:00 [khugepaged]
root          49        2  0  18:21 ?        00:00:00 [kintegrityd]

```