



ALBUKHARY INTERNATIONAL UNIVERSITY

## SCHOOL OF COMPUTING & INFORMATICS

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Course Title : OPERATING SYSTEMS  
Course Code : CCC 2123

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LAB EXERCISE  
(WEEK 9)  
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### Instructions:

Using the Command Line Interface (CLI) for Linux that we have learned and used so far, please execute the following tasks:

#### **Task 1: System Information:**

- Display the system's hostname.
- Retrieve and present information about the kernel version.

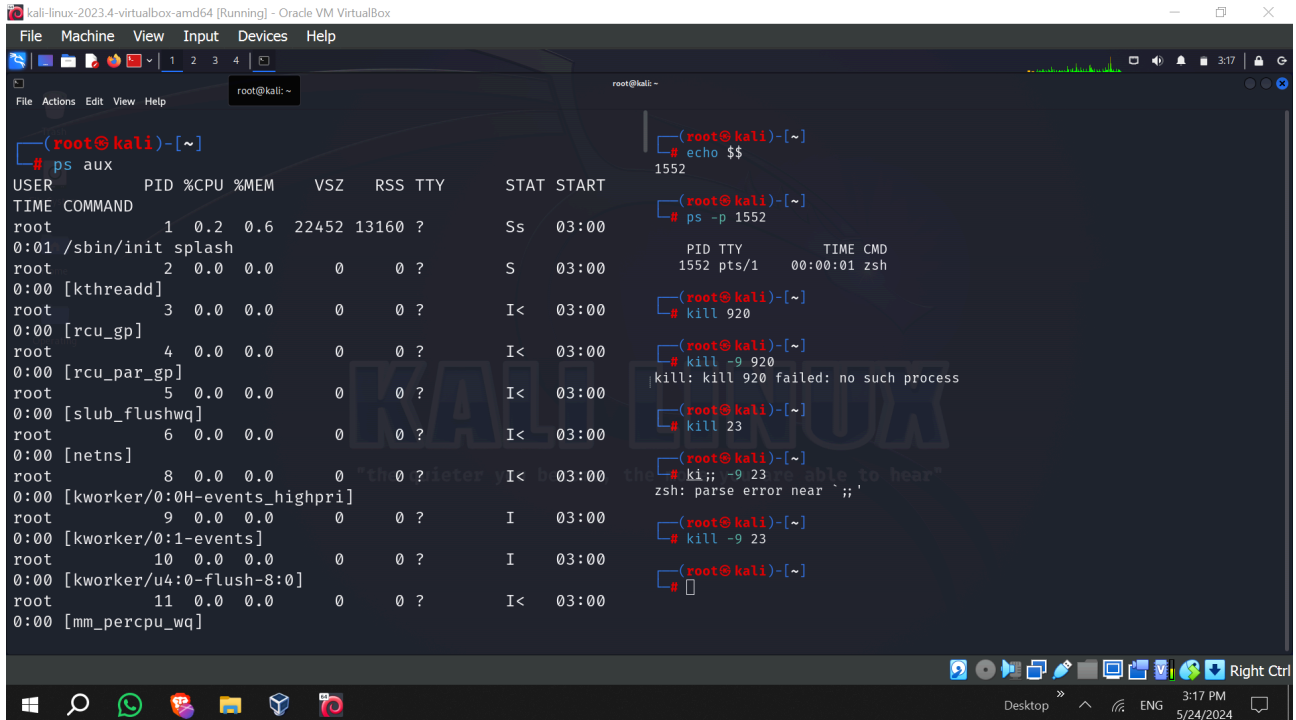
```
(root@kali)-[~]  
# hostname  
kali
```

```
(root@kali)-[~]  
# uname -r  
6.5.0-kali3-amd64
```

```
(root@kali)-[~]  
#
```

## Task 2: Process Management:

- List all currently running processes.
- Find and display information about the process associated with the terminal.
- Terminate a specific process using the appropriate command.
- Check whether the process has been terminated.



The screenshot shows a Kali Linux terminal window with the following commands and output:

```
(root@kali)-[~]
# ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.2  0.6  22452  13160 ?        Ss   03:00   0:01 /sbin/init splash
root           2  0.0  0.0      0     0 ?        S    03:00   0:00 [kthreadd]
root           3  0.0  0.0      0     0 ?        I<   03:00   0:00 [rcu_gp]
root           4  0.0  0.0      0     0 ?        I<   03:00   0:00 [rcu_par_gp]
root           5  0.0  0.0      0     0 ?        I<   03:00   0:00 [slub_flushwq]
root           6  0.0  0.0      0     0 ?        I<   03:00   0:00 [netns]
root           8  0.0  0.0      0     0 ?        I<   03:00   0:00 [kworker/0:0H-events_highpri]
root           9  0.0  0.0      0     0 ?        I    03:00   0:00 [kworker/0:1-events]
root          10  0.0  0.0      0     0 ?        I    03:00   0:00 [kworker/u4:0-flush-8:0]
root          11  0.0  0.0      0     0 ?        I<   03:00   0:00 [mm_percpu_wq]

(root@kali)-[~]
# echo $$
1552

(root@kali)-[~]
# ps -p 1552
  PID TTY          TIME CMD
 1552 pts/1    00:00:01 zsh

(root@kali)-[~]
# kill 920

(root@kali)-[~]
# kill -9 920
kill: kill 920 failed: no such process

(root@kali)-[~]
# kill 23

(root@kali)-[~]
# kill -9 23
zsh: parse error near ';;'
```

## Task 3: System Resource Usage:

- Utilize a command to show the current system load.
- Identify the top processes consuming CPU and memory resources.

```
(root@kali)-[~]
```

```
# uptime
```

```
03:08:30 up 7 min,  1 user,  load average: 0.28, 0.26, 0.15
```

```
(root@kali)-[~]
```

```
# top
```

Operating

# KALI

"the quieter you become, the more you are able to hear"

```
top - 03:09:58 up 9 min,  1 user,  load average: 0.26, 0.26, 0.15
Tasks: 150 total,   1 running, 149 sleeping,   0 stopped,   0
%Cpu(s):  1.7 us,  2.7 sy,   0.0 ni, 95.6 id,   0.0 wa,   0.0 hi,  0.0 st
MiB Mem : 1964.9 total,  838.7 free,  810.1 used,  471.1 buff/cache
```