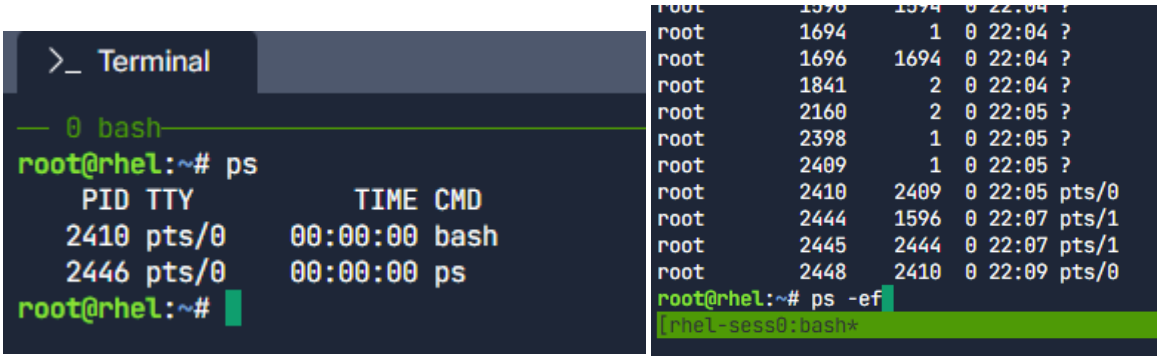
Lab Project - 3

Objective: Linux process management lab

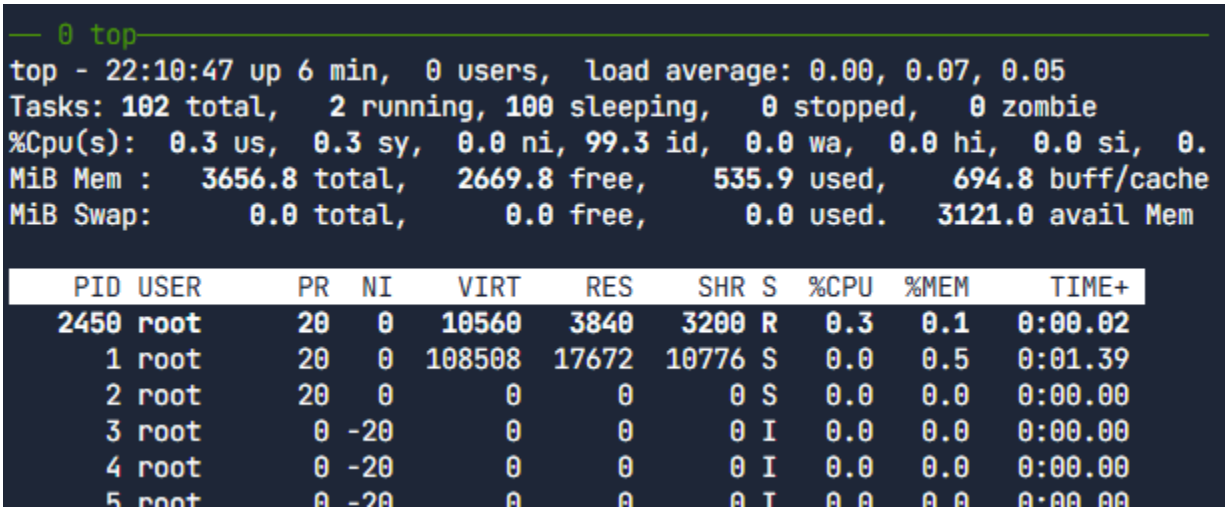
Lab 1 : Process Exploration and

Q1:- `Use ps, top, or htop to list all running processes on the system.`

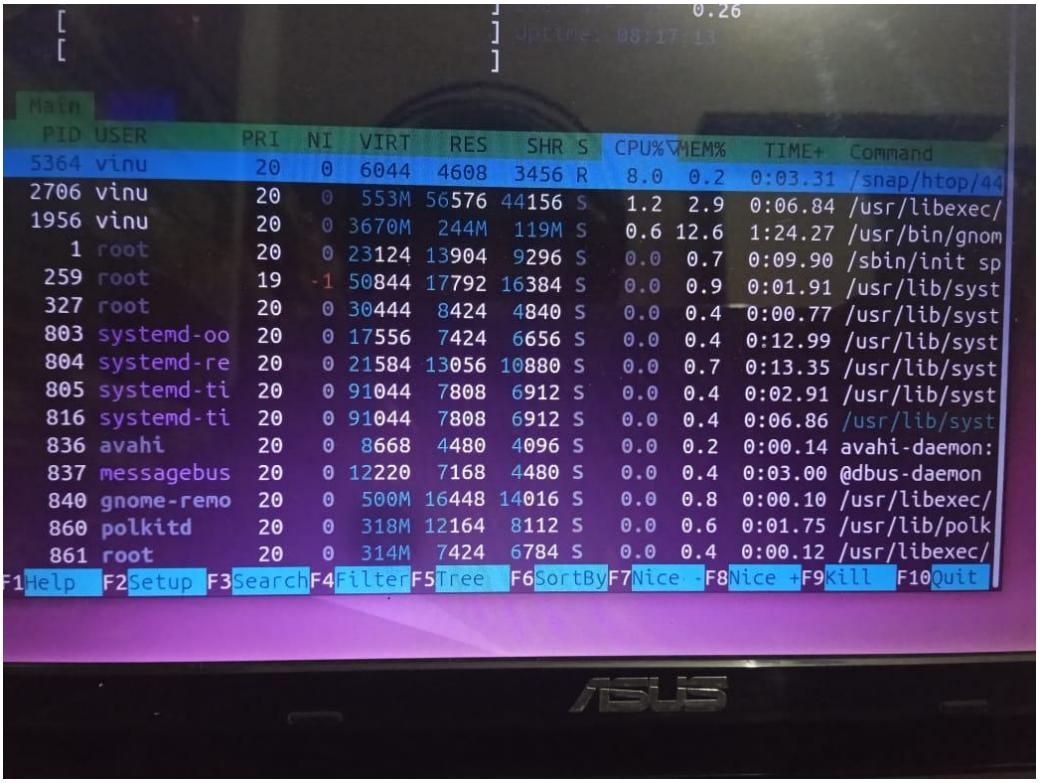
Ans:-



Top command:- process id



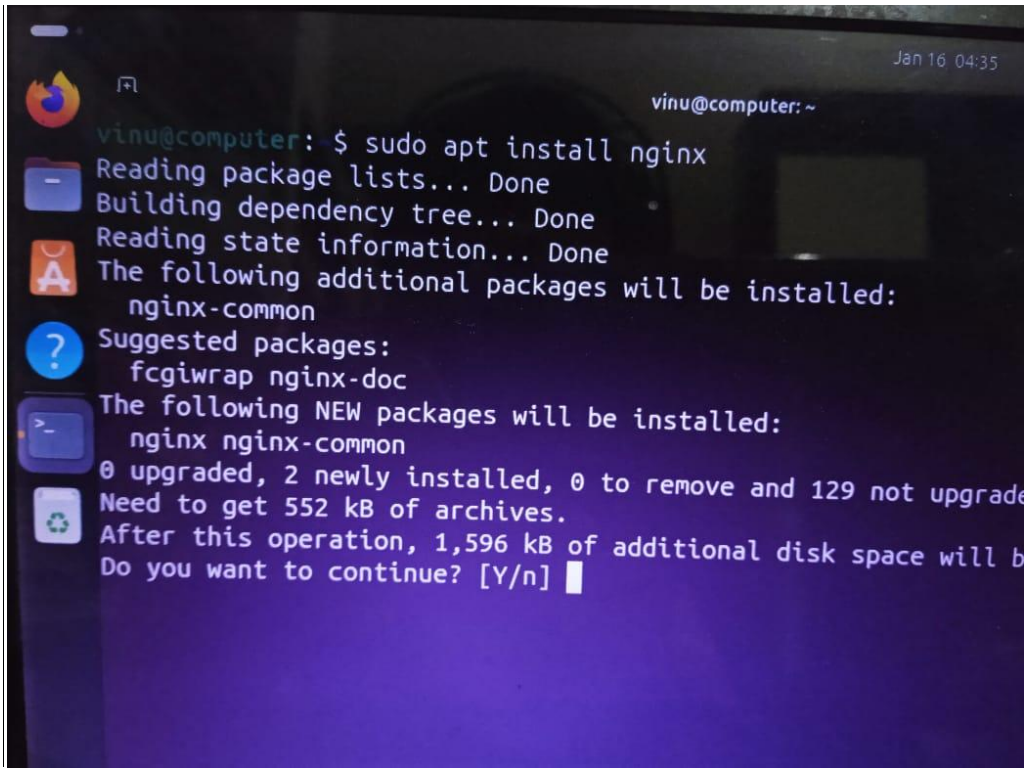
htop command

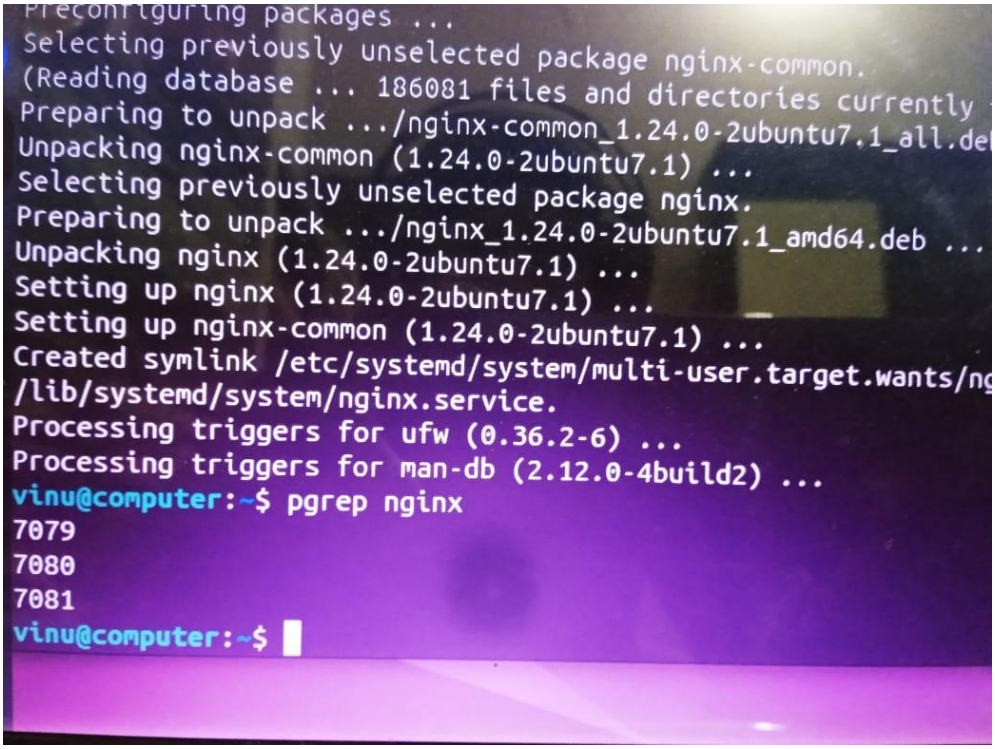


2. Find a Specific Process:

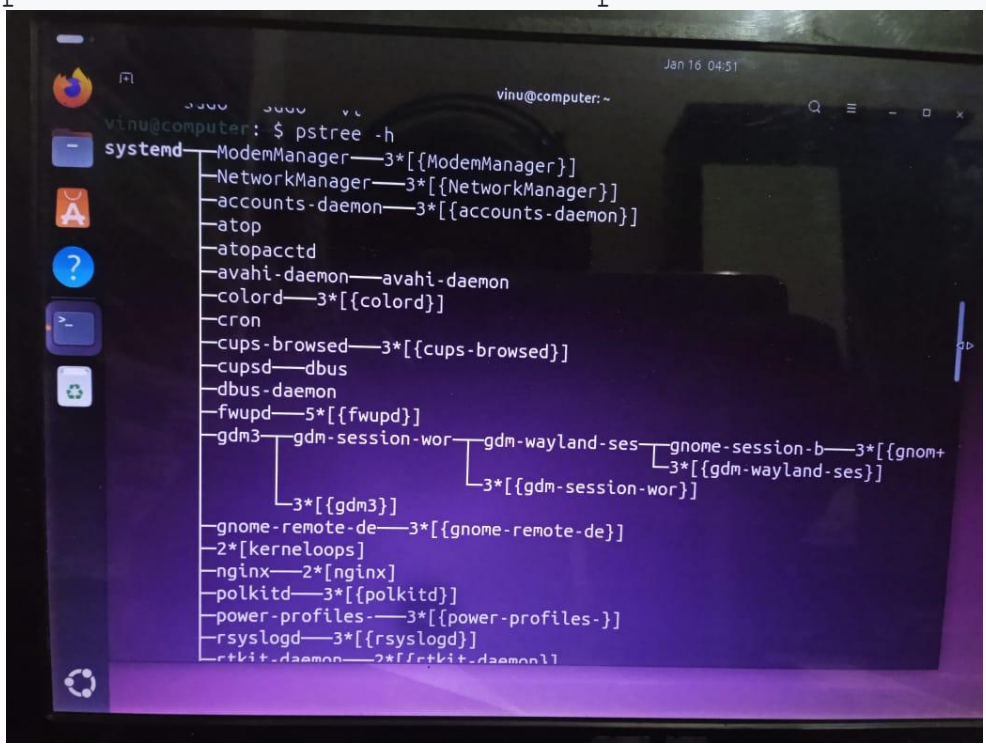
Q1:- Use pgrep to find the PID (process ID) of a specific running process like apache2 or nginx.

Ans:- pgrep nginx command:-





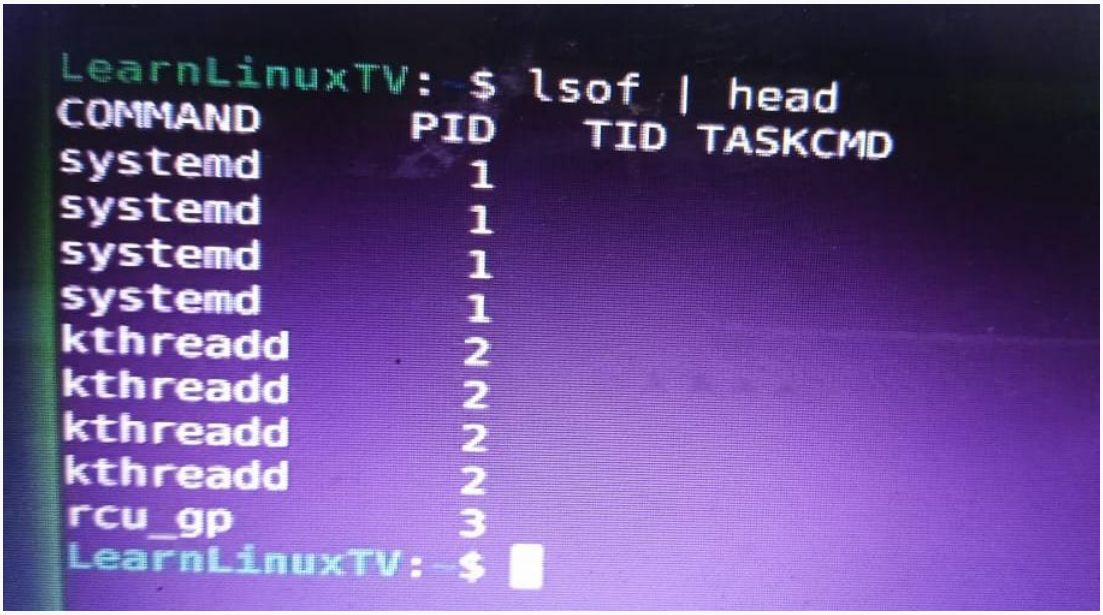
Q2:- Use pstree to view a tree of processes and their parent-child relationships.



3. Investigate Process Details:

Q1:- Use lsof to identify files opened by a process

Ans:-



Q2:- Check the memory usage and CPU time of a process using top pid,etime,%mem,%cpu,comm.

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+
1	root	20	0	108504	17680	10776	S	0.0	0.5	0:01.43
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
7	root	20	0	0	0	0	I	0.0	0.0	0:00.00
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
9	root	20	0	0	0	0	I	0.0	0.0	0:00.39