5. Linux Endpoint Security

I. Linux Network Analysis

```
netstat
Find IP addresses that have made a connection
sudo netstat -t -n
 • -t : Show TCP Connections
 • -n : Don't resolve DNS
sudo netstat -tnp
• -p : Show Processes
SS
sudo ss -tnp
Use Filters to limit output:
```

- src
- dst
- sport == 4444
- dport

II. Linux Process Analysis

Gets a snapshot of active processes on a machine.

```
-u <username> : User
-p <PID>
-A : All processes on the system
-F : Verbose Format
-H : Hierarchy relationships

sudo ps -AFH
pstree
pstree -p -s <PID>
```

- -p : Show PIDs
- -s : Show Parent Processes
- <PID> : Searches for a specific PID

top - Dynamic continuous output of processes

- -u <username> : search for processes related to a specific user
- -c : Verbose output
- -o : Most Recent processes at the top

/proc

A virtual file system of processes. Search within this directory for the folder named after the process ID.

```
cd /proc
ls
cd <PID>
cat cmdline # Prints the cmd line that started the process
ls -al cwd #
cat environ | tr '\0' '\n' # Print environment variables
```

III. Linux Cron Jobs

Used to run tasks at regular intervals similar to Windows Task Scheduler

```
cat /etc/crontab # System wide cron jobs
ls -al /etc | grep cron # Find all cron files in /etc
ls -al /etc/cron.daily/ # look at the cron.daily directory
```

Look for references to scripts or binaries that look suspicious or unrecognized.