

* Linux DAY - 3 Assignment *

- Topics →
- Process Management
 - File System
 - Networking troubleshooting

Process management →

- Top → All the running process on linux machine
- htop → Detailed information of running process on linux
- ps → To check process status
- Kill → Terminates running process.
- NICE → To prioritize your processes as per requirements.
- Pgrep → used to search process by name and return PID.
- Killall → This command kills all processes that match specific name.
- pkill → Search the program and to stop a program based on name.
- jobs → show you the information about the programs that are running.
- bg → Send the program to run into background
- fg → Bring a program that are running in background / foreground.
- nohup → Run a program in background and keep running even after you close shell session
- systemctl → Manage system services and processes into system.
- lsaf → This command will list open files and programs that are using onto them
- strace → Displays the system processes into a tree like structure.

File Systems ⇒

- ls → list directory contents ls-l, ls-a,
cd → change directory cd ..., cd | home/users
- pwd → present working directory mkdir project
- mkdir → make a new directory | folder
- rm → Remove files and directories rm file.txt, rm -r folder
- cp → Copy files and directories cp file.txt | backup
- mv → move or rename files mv file.txt | path | to | destination
- find → Search for files find /home/user -name "file.txt"
- du → check disk usage du -sh /home/user/projects
- df → DISK free space df -h, df -k
- touch → create an empty file touch new-file-name.txt
- cat → Display the content of file.
- tail → Outputs the last line/parts of files.
- sed → passing and transforming text. used for finding and replacing text.
- awk → used for pattern scanning and data processing when data is organized in columns (like csv file).
- xargs → Read item from standard input.

Networking Troubleshooting →

- hostname → check and set hostname of the server
- host → To get host DNS details
- ping → checks if remote server is reachable and also shows round trip time of packets
- curl → used to transfer data also used for troubleshoot several network issues
- wget → Download file and troubleshooting proxy connectivity
- ip ^{or} (ipaddr) → used to configure and retrieve info about system network interface.
- netstat → Primary used to check connections and PIDs on ports and Unix sockets.
- traceroute → uses the ICMP protocol and finds the hops involved in reaching the destination server.
OR
shows the time it takes b/w hops
- dig → Get DNS records associated with a domain name.
- nslookup → lookup to find the IP address for the domain
eg → nslookup google.com
- nc → utility to debug TCP/UDP sockets.
- telnet → Test remote connectivity on ports. • telnet 19.168.1.0:8080
- route → To get all the route information
- tcpdump → Capture network packets and analyse for network issue.
- resolvectl → check DNS configurations and status.