

LINUX COMMANDS

@+verma332...

- Run level = who -r
- Install net-tools = yum install net-tools
- New Network commands;
 - 1) ifconfig
 - 2) ip a
 - 3) ip addr
- File Navigation commands;
 - 1) cd
 - 2) pwd
 - 3) ls -l
- Creating Files & Directories;
 - 1) touch
 - 2) cp
 - 3) vi
 - 4) mkdir
- Finding Files & Directories;
 - 1) find
 - 2) locate (updatedb | yum install mlocate)
- change Password;
 - 1) password
- wildcards;

*, ?, [] ...
- link;
 - 1) ln -s - soft link
 - 2) ln - hard link
- File Permission;
 - 1) chmod
- File ownership;
 - 1) chown
 - 2) chgrp
- Access control list;
 - 1) setfacl
 - 2) getfacl
- Getting Help;
 - 1) whatis/whatis
 - 2) --help
 - 3) man
- Adding Text To File;
 - 1) echo
 - 2) Redirect (>, >>)
 - 3) vi editor
- File Maintenance commands;
 - 1) cp
 - 2) rm
 - 3) mv
 - 4) amdix
 - 5) mkdir

- system architecture;
 - 1) arch
- Terminal commands;
 - 1) clear
 - 2) exit
 - 3) script
- so.s Report;
 - 1) sosreport

- To view all environment variable;
 - 1) env
 - 2) printenv

- File Display commands;
 - 1) cat
 - 2) more
 - 3) less
 - 4) head
 - 5) tail -f
- Text Processing commands;
 - 1) cat
 - 2) awk
 - 3) grep
 - 4) sort
 - 5) uniq
 - 6) wc
- compare files;
 - 1) cmp
 - 2) diff
- compress & un-compress files and directories;
 - 1) tar
 - 2) gzip
 - 3) gunzip
- Truncate file size;
 - 1) truncate -s
- combine & splitting files;
 - 1) cat
 - 2) split -l
- Text transformation;
 - 1) sed
- User Account Management;
 - 1) useradd
 - 2) groupadd
 - 3) userdel -r
 - 4) groupdel
 - 5) usermod -aG
 - 6) groupmod -d
- switch users & sudo access;
 - 1) su -
 - 2) visudo
- Monitor users;
 - 1) w
 - 2) who
 - 3) last
 - 4) id
 - 5) users
- Talking To users
 - 1) wall
 - 2) write
- System utility commands;
 - 1) date
 - 2) uptime
 - 3) hostname
 - 4) which
 - 5) cal
 - 7) bc
 - 8) uname -a
- Process & scheduling;
 - 1) systemctl
 - 2) ps -ef
 - 3) top
 - 4) kill
 - 5) cron
 - 6) at
- Process management;
 - 1) bg
 - 2) fg
 - 3) jobs
 - 4) nice -n
 - 5) nohup
- system monitoring commands;
 - 1) top
 - 2) df -h
 - 3) du -h
 - 4) dmesg
 - 5) iostat
 - 6) netstat -tnv
 - 7) free
- system maintenance commands;
 - 1) shutdown
 - 2) reboot
 - 3) halt
 - 4) init -H / -r
- changing hostname;
 - 1) hostnamectl set-hostname
- Finding system info;
 - 1) uname -a
 - 2) dmidecode
 - 3) cat /etc/redhat-release

• Find your shell;

1) \$SHELL 2) \$0 3) cat /etc/shells

• Alias;

1) alias l = "ls -l" 2) alias 3) unalias

• history command;

1) history 2) !486 3) cat /etc/.bash-history

• Network files and commands;

1) ping 2) ifconfig 3) ifup 4) ifdown
5) netstat -tnv 6) tcpdump -i enp0s3
7) /etc/hosts 8) /etc/sysconfig/network-scripts
9) /etc/resolv.conf 10) ethtool enp0s3.

• New Network Utility-;

1) nmtui 2) nmcli 3) nm-connection-editor

• Download files & Apps;

1) wget (yum install wget)
2) curl (yum install curl)
3) curl -O
4) ping

• Firewall/iptables;

1) iptables -L (yum install iptables-services)
2) iptables -F
3) firewall-cmd --list-all (yum install firewall)
4) firewall-cmd --get-services
5) firewall-cmd --zone=public --list-all
6) firewall-cmd --reload
7) firewall-cmd --add-service=http --permanent
8) firewall-cmd --add-port=100/tcp
9) /usr/lib/firewalld/services
10) firewall-cmd --add-icmp-block-inversion
11) host -t a www.google.com
12) firewall-cmd --add-rich-rule='rule family="ipv4" source address=" " reject'
13) firewall-cmd --direct --add-rule ipv4 filter OUTPUT 0 -d -j DROP.

• File transfer protocol; (ftp): PORT=21

server side: 1) yum install vsftpd
2) /etc/vsftpd/vsftpd.conf
3) firewall-cmd --add-service=ftp

client side: 1) yum install ftp

• Secure copy shell; (scp): PORT=22

1) scp file tuser@192.168.1.x:/home/tuser

• rsync (remote synchronization): PORT=22

client 1) yum install rsync 2) rsync -avh [file] [with]
server 1) yum install rsync 3) rsync -avh [server/dir]

[MODULE = 6, 7, 8]

• Packages installation & Repositories;

1) yum install 2) yum remove 3) rpm -qa
4) rpm -e 5) rpm -hiv

• system update/patch management;

1) yum update -y

• Advanced package management;

1) rpm -qi 2) rpm -qa 3) rpm -qf 4) rpm -gc
5) rpm -e

• Rollback patches and update;

1) yum history 2) yum history undo id

• Hostname or Plsokup;

1) nslookup 2) dig 3) host -t a www.google.com

• Network time protocol (ntp): PORT=123 (UDP)

1) yum install ntp 2) /etc/ntp.conf 3) ntpd (ps)

• Chrony (New version of NTP): PORT:323

1) yum install chrony 3) chronyc (sources)
2) /etc/chrony.conf

• web server (Apache-http);

1) yum install httpd 2) /var/www/html/html (home page)
3) /var/log/httpd, 4) firewall-cmd --add-service=http.

• Central logger (rsyslog): PORT:514

1) yum install rsyslog 2) /etc/rsyslog.conf

• OS hardening (SELinux)

1) chage -l 2) systemctl -a 3) netstat -tunlp
4) firewall-cmd 5) systemctl 6) /etc/sysconfig/selinux

• Tracing Network traffic;

1) traceroute

• Image file using cli;

1) yum install ImageMagick -y 2) display

• configure and secure SSH;

1) /etc/ssh/sshd-config

• Access Remote server without password;

1) ssh-keygen 2) ssh-copy-id 3) /root/.ssh

• cockpit; PORT=9090

1) yum install cockpit 2) https://192.168.1.x:9090

• Tuning system performance;

1) yum install tuned 2) tuned-adm profile
3) tuned-adm list 4) tuned-adm active
5) tuned-adm recommend 6) tuned-adm off
4) nia -n # process name
5) nice -n # PID.
6) ps axo. pid,comm,nic,cls --sort=nice