SYSTEM

=>Displaylinux system information =>Display kernel release information uname -a

unama r =>Show how long the system has been running + load =>Show system host name untime

hostname =>Display the IP address of the host hostname -i

=>Show system reboot history =>Show the current date and time last reboot date

cal =>Show this month calendar =>Display who is online whoami =>Who you are logged in as finger user =>Display information about user

HARDWARE

dmesg =>Detected hardware and boot messages

cat /proc/cpuinfo =>CPU mode

cat /proc/meminfo =>Hardware memory
cat /proc/interrupts =>Lists the number of interrupts per CPU per I/O device =>Displays information on hardware configuration of the system

=>Displays block device related information in Linux Ishlk =>Used and free memory (-m for MB) free -m

=>Show PCI devices Ispci -tv =>Show USB devices Isusb -tv

=>Show hardware info from the BIOS dmidecode hdparm -i /dev/sda =>Show info about disk sda

hdparm -tT /dev/sda =>Do a read speed test on disk sda =>Test for unreadable blocks on disk sda badblocks -s /dev/sda

HISEDS

=>Show the active user id with login and group id =>Show last logins on the system lact

=>Show who is logged on the system =>Add group "admin" who groupadd admin

=>g admin -m sam #Create user "sam" useradd -c "Sam Tomshi" =>Delete user sam userdel sam

=>Add user "sam adduser sam usermod

=>Modify user information

FILE COMMANDS

ls -a =>Display all information about files/ directories pwd =: mkdir directory-name =>Show the path of current directory

rm file-name =>Delete file rm -r directory-nam

=>Delete directory recursively rm -f file-name =>Forcefully remove file rm -rf directory-name cp file1 file2 =: ne =>Forcefully remove directory recursively =>Copy file1 to file2

=>Copy dir1 to dir2, create dir2 if it doesn't exist cp -r dir1 dir2 mv file1 file2 =>Rename source to dest / move source to directory #Create symbolic link to file-name

In -s /path/to/file-name link-name touch file =>Create or --=>Create or update file cat > file =>Place standard input into file more file =>Output contents of file =>Output first 10 lines of file head file

tail file =>Output last 10 lines of file tail -f file =>Output contents of file as it grows starting with the last

10 lines =>Encrypt file

gpg -c file apa file.apa =>Decrypt file

=>print the number of bytes, words, and lines in files =>Execute command lines from standard input xargs

PROCESS RELATED

=>Display your currently active processes
t' =>Find all process id related to telnet process ps aux I grep 'telnet'

=>Memory map of process pmap =>Display all running processes =>Kill process with mentioned pid id top kill pid

killall proc =>Kill all processes named proc pkill process-name =>Send signal to a process with its name =>Resumes suspended jobs without bringing them to bg

foreground

=>Brings the most recent job to foreground fg fa n =>Brings job n to the foreground

EILE DEDMISSION DEL ATED

chown owner-user:owner-group directory

chmod octal file-name =>Change the permissions of file to octal

Example chmod 777 /data/test.c =>Set rwx permission for owner,group,world chmod 755 /data/test.c =>Set rwx permission for owner.rx for group and world

chown owner-user file =>Change owner of the file =>Change owner and group owner of the file chown owner-user:owner-group file-name

=>Change owner and group owner of the directory

NETWORK

ip addr show =>Display all network interfaces and ip address

(a iproute2 command,powerful than ifconfig) ip address add 192.168.0.1 dev eth0 =>Set ip address =>Linux tool to show ethernet status =>Linux tool to show ethernet status ethtool eth0 ping host =>Send echo request to test connection

=>Get who is information for domain whois domain dig domain =>Get DNS information for domain dig -x host =>Reverse lookup host host google.com =>Lookup DNS ip address for the name

=>Lookup local ip address hostname -i wget file netstat -tupl =>Download file =>Listing all active listening ports

COMPRESSION / ARCHIVES

tar of home tar home =>Create tar named home tar containing home/ tar xf file tar =>Extract the files from file tar tar czf file.tar.gz files =>Create a tar with gzip compression gzip file =>Compress file and renames it to file.gz

INSTALL PACKAGE rpm -i pkgname.rpm =>Install rpm based package =>Remove package

INSTALL FROM SOURCE

/configure make install

rpm -e pkgname

SEARCH

grep pattern files grep -r pattern dir =>Search for pattern in files =>Search recursively for pattern in dir

locate file =>Find all instances of file find /home/tom -name 'index*' =>Find files names that start with "index" find /home -size +10000k =>Find files larger than 10000k in /home

LOGIN (SSH AND TELNET)

=>Connect to host as user

ssh user@host ssh -p port user@host =>Connect to host using specific port =>Connect to the system using telnet port

FILE TRANSFER

=>Secure copy file.txt to remote host /tmp folder rsync scp file.txt server2:/tmp rsvnc -a /home/apps /backup/ =>Synchronize source to destination

DISK USAGE

df -h =>Show free space on mounted filesystems =>Show free inodes on mounted filesystems df -i =>Show disks partitions sizes and types fdisk -I

=>Display disk usage in human readable form du -ah du -sh =>Display total disk usage on the current directory findmnt =>Displays target mount point for all filesystem mount device-path mount-point =>Mount a device

DIRECTORY TRAVERSE

=>To go up one level of the directory tree cd

cd =>Go to \$HOME directory =>Change to /test directory cd /test