SYSTEM

#uname -a =>Displaylinux system information #uname -r =>isplay kernel release information

=>Show how long the system has been running + load #uptime #hostname

=>Show system host name

#hostname -i =>Display the IP address of the host =>Show system reboot history #last reboot =>Show the current date and time #date #cal =>Show this month calendar =>Display who is online #w #whoami =>Who you are logged in as =>Display information about user #finger user

HARDWARE

#dmesg =>Detected hardware and boot messages

#cat /proc/cpuinfo =>CPU model

#cat /proc/meminfo =>Hardware memory

#cat /proc/interrupts =>Lists the number of interrupts per CPU per I/O device

#Ishw =>Displays information on hardware configuration of

the system

#Isblk =>Displays block device related information in Linux

#free -m =>Used and free memory (-m for MB)

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

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

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

USERS

=>Show the active user id with login and group #id

#last =>Show last logins on the system =>Show who is logged on the system #who

=>Add group "admin" #groupadd admin

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

#userdel sam =>Delete user sam #adduser sam =>Add user "sam" #usermod =>Modify user information

FILE COMMANDS

#ls -al =>Display all information about files/ directories

=>Show the path of current directory #pwd

#mkdir directory-name =>Create a directory #rm file-name =>Delete file

#rm -r directory-nam =>Delete directory recursively #rm -f file-name =>Forcefully remove file

#rm -rf directory-name =>Forcefully remove directory recursively

=>Copy file1 to file2 #cp file1 file2

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

#touch file =>Create or update file =>Place standard input into file #cat > file #more file =>Output contents of file #head file =>Output first 10 lines of file

#tail file =>Output last 10 lines of file

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

#gpg -c file =>Encrypt file #gpg file.gpg =>Decrypt file

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

PROCESS RELATED

#ps

=>Display your currently active processes et' =>Find all process id related to telnet process #ps aux | grep 'telnet'

#pmap =>Memory map of process =>Display all running processes =>Kill process with mentioned pid id #top #killpid =>Kill all processes named proc #killall proc =>Send signal to a process with its name #pkill process-name #bg =>Lists stopped or background jobs =>Brings the most recent job to foreground #fg #fg n

=>Brings job n to the foreground

FILE PERMISSION RELATED

#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,rw for group

and world

#chown owner-user file =>Change owner of the file

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

owner of the file

#chown owner-user:owner-group directory =>Change owner and group

owner of the directory

NETWORK

=>Display all network ports and ip address #ifconfig -a #ifconfig eth0 =>Display specific ethernet port

=>Linux tool to show ethernet status #ethtool eth0 #mii-tool eth0 =>Linux tool to show ethernet status #ping host =>Send echo request to test connection #whois domain =>Get who is information for domain #dig domain =>Get DNS information for domain

#dig -x host =>Reverse lookup host

=>Lookup DNS ip address for the name #host google.com

#hostname -i =>Lookup local ip address

#wget file =>Download file

#netstat -tupl =>List active connections to / from system

COMPRESSION / ARCHIVES

#tar cf home.tar home =>Create tar named home.tar containing home/

#tar xf file.tar =>Extract the files from file.tar =>Create a tar with gzip compression #tar czf file.tar.qz files =>Compress file and renames it to file.gz #gzip file

INSTALL PACKAGE

#rpm -i pkgname.rpm =>Install rpm based package

#rpm -e pkgname =>Remove package

INSTALL FROM SOURCE

#./configure #make #make install

SEARCH

#grep pattern files =>Search for pattern in files

#grep -r pattern dir =>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)

#ssh user@host =>Connect to host as user

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

FILE TRANSFER

scp

#scp file.txt server2:/tmp =>Secure copy file.txt to remote host /tmp folder

rsync

#rsync -a /home/apps /backup/ =>Synchronize source to destination

DISK USAGE

#df -h =>Show free space on mounted filesystems #df -i =>Show free inodes on mounted filesystems #fdisk -I =>Show disks partitions sizes and types #du -ah =>Display disk usage in human readable form =>Display total disk usage on the current directory #du -sh

DIRECTORY TRAVERSE

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

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

