SYSTEM

uname -a =>Displaylinux system information uname -r =>Display 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 whoami =>Who you are logged in as finger user =>Display information about 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

=>Displays information on hardware configuration of Ishw

the system

Isblk =>Displays block device related information in Linux

free -m =>Used and free memory (-m for MB) =>Show PCI devices

Ispci -tv =>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

cp file1 file2 =>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 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 =>Execute command lines from standard input xargs

PROCESS RELATED

ps

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

pmap =>Memory map of process =>Display all running processes top =>Kill process with mentioned pid id kill pid =>Kill all processes named proc killall proc =>Send signal to a process with its name pkill process-name

=>Resumes suspended jobs without bringing them to

foreground

=>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.rx for group

and world

=>Change owner of the file chown owner-user 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

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

(a iproute2 command, powerful than if config)

ip address add 192.168.0.1 dev eth0 =>Set ip address =>Linux tool to show ethernet status ethtool eth0 =>Linux tool to show ethernet status mii-tool eth0 =>Send echo request to test connection ping host whois domain =>Get who is information for domain =>Get DNS information for domain dig domain dig -x host

=>Reverse lookup host

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

hostname -i =>Lookup local ip address

wget file =>Download file

netstat -tupl =>Listing all active listening ports

COMPRESSION / ARCHIVES

tar cf 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 =>Compress file and renames it to file.gz

INSTALL PACKAGE

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

rpm -e pkgname =>Remove package

INSTALL FROM SOURCE

./configure make make install

gzip file

SEARCH

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

=>Find all instances of file locate file

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

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

SCD

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

=>Show free space on mounted filesystems df -h df -i =>Show free inodes on mounted filesystems fdisk -l =>Show disks partitions sizes and types =>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 cd /test =>Change to /test directory

