Basic Linux Commands

SYSTEM =>Displaylinux system information =>Display kernel release information uname -a uname -r =>Show how long the system has been running + load uptime =>Show system host name =>Display the IP address of the host hostname hostname last reboot =>Show system reboot history date =>Show the current date and time cal =>Show this month calendar =>Display who is online whoami =>Who you are logged in as finger user =>Display information about user HARDWARE =>Detected hardware and boot messages dmesg 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 =>Used and free memory (-m for MB) =>Show PCI devices free -m Ispci -tv Isusb -tv =>Show USB devices =>Show hardware info from the BIOS =>Show info about disk sda dmidecode hdparm -i /dev/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 last =>Show last logins on the system =>Show who is logged on the system =>Add group "admin" who groupadd admin useradd -c "Sam" =>g admin -m sam #Create user "sam" userdel sam =>Delete user sam adduser sam =>Add user "sam" usermod =>Modify user information chgrp
FILE COMMANDS => Changes a users group =>Display all information about files/ directories ls –al =>Show the path of current directory =>Create a directory pwd mkdir directory-name rm file-name =>Delete file =>Delete directory recursively =>Forcefully remove file rm -r directory-nam rm -f file-name rm -rf directory-name =>Forcefully remove directory recursively =>Copy file1 to file2 =>Copy dir1 to dir2, create dir2 if it doesn't exist cp file1 file2 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 =>Create or update file touch file =>Place standard input into file

cat > file more file =>Output contents of file =>Output first 10 lines of file head file =>Output last 10 lines of file tail file tail -f file

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

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

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

PROCESS RELATED

=>Display your currently active processes =>Find all process id related to telnet process ps aux | grep 'telnet' =>Memory map of process pmap

top kill pid =>Display all running processes =>Kill process with mentioned pid id 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

ba

foreground

=>Brings the most recent job to foreground

fq n =>Brings job n to the foreground

FILE PERMISSION RELATED

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

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

Change owner and group chown owner-user:owner-group directory = owner of the director

NETWORK

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

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

dig -x host =>Reverse lookup host

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

=>Lookup local ip address =>Download file hostname -i wget file

=>Listing all active listening ports

COMPRESSION / ARCHIVES

=>Create tar named home.tar containing home/ tar cf home.tar 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 gzip file

INSTALL PACKAGE

rpm -i pkgname.rpm =>In rpm -e pkgname =>R INSTALL FROM SOURCE =>Install rpm based package =>Remove package

./configure make make install

<u>SEARCH</u>

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)

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

FILE TRANSFER sftp 192.16875.2

=>Connect remote host

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

rsync

rsync -a /home/apps /backup/

=>Synchronize source to destination

DISK USAGE

df –h df -i =>Show free space on mounted filesystems =>Show free inodes on mounted filesystems =>Show disks partitions sizes and types fdisk -l =>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 =>Go to \$HOME directory cd ...

cd cd /test =>Change to /test directory