LINUX COMMANDS CHEAT SHEET

SYSTEM

uname -a =>Displaylinux system information =>Display kernel release information =>Show how long the system has been running + load uname -r uptime =>Show system host name =>Display the IP address of the host hostname hostname -i =>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

=>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

=>Displays block device related information in Linux Isblk free -m

=>Used and free memory (-m for MB) =>Show PCI devices =>Show USB devices Ispci -tv Isusb -tv

dmidecode = hdparm -i /dev/sda hdparm -tT /dev/sda =>Show hardware info from the BIOS =>Show info about disk sda =>Do a read speed test on disk sda =>Test for unreadable blocks on disk sda badblocks -s /dev/sda

USERS

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

=>Show the active user id with login a =>Show last logins on the system =>Show who is logged on the system =>Add group "admin" last who

groupadd admin

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

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

FILE COMMANDS

=>Display all information about files/ directories s-al

=>Show the path of current directory bwd

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 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 In -s /path/to/file-name link-name #Create symbolic link to file-name

touch file =>Create or update file cat > file =>Place standard input into file more file =>Output contents of file

=>Output first 10 lines of file =>Output last 10 lines of file head file tail file

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

10 lines =>Encrypt file

gpg -c file gpg file.gpg =>Decrypt file =>print the number of bytes, words, and lines in files.

=>Execute command lines from standard input

PROCESS RELATED

xargs

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

=>Memory map of process pmap =>Display all running processes =>Kill process with mentioned pid id top kill pid =>Kill all processes named proc =>Send signal to a process with its name =>Resumes suspended jobs without bringing them to killall proc pkill process-name

bg

foreground

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

fg fg n

FILE PERMISSION RELATED

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

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

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

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

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

NETWORK

=>Display all network interfaces and ip address (a iproute2 command,powerful than ifconfig) 168.0.1 dev eth0 =>Set ip address ip addr show

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

dig -x host host google.com

=>Reverse lookup host =>Lookup DNS ip address for the name

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

netstat -tupl =>Listing all active listening ports

COMPRESSION / ARCHIVES

tar of home tar home

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

INSTALL PACKAGE

INSTALL FROM SOURCE

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

./configure make make install

SEARCH

grep pattern files

=>Search for pattern in files =>Search recursively for pattern in dir =>Find all instances of file grep -r pattern dir locate file

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

LOGIN (SSH AND TELNET)

ssh user@host =>Connect to host as user

ssh -p port user@host telnet 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 rsync -a /home/apps /backup/ =>Synchronize source to destination

DISK USAGE

df-h =>Show free space on mounted filesystems df -i fdisk -l =>Show free inodes on mounted filesystems =>Show disks partitions sizes and types du -ah =>Display disk usage in human readable form
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

