

LINUX COMMANDS CHEAT SHEET

SYSTEM

#uname -a ==> Display linux system information
#uname -r ==> Display kernel release information
#uptime ==> Show how long the system has been running + load
#hostname ==> Show system host name
#hostname -i ==> Display the IP address of the host
#last reboot ==> Show system reboot history
#date ==> Show the current date and time
#cal ==> Show this month calendar
#w ==> 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
#lshw ==> Displays information on hardware configuration of the system
#lsblk ==> Displays block device related information in Linux
#free -m ==> Used and free memory (-m for MB)
#lspci -tv ==> Show PCI devices
#lsusb -tv ==> Show USB devices
#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

#id ==> Show the active user id with login and group
#last ==> Show last logins on the system
#who ==> Show who is logged on the system
#groupadd admin ==> Add group "admin"
#useradd -c "Sam Tomshi" ==> g admin -m sam #Create user "sam"
#userdel sam ==> Delete user sam
#adduser sam ==> Add user "sam"
#usermod ==> Modify user information

FILE COMMANDS

#ls -al ==> Display all information about files/ directories
#pwd ==> Show the path of current directory
#mkdir directory-name ==> Create a directory
#rm file-name ==> Delete file
#rm -r directory-name ==> 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
#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
#ln -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
#head file ==> Output first 10 lines of 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
#gpg -c file ==> Encrypt file
#gpg file.gpg ==> Decrypt file
#wc ==> print the number of bytes, words, and lines in files
#xargs ==> Execute command lines from standard input

PROCESS RELATED

#ps ==> Display your currently active processes
#ps aux | grep 'telnet' ==> Find all process id related to telnet process
#pmap ==> Memory map of process
#top ==> Display all running processes
#killpid ==> Kill process with mentioned pid id
#killall proc ==> Kill all processes named proc
#pkill process-name ==> Send signal to a process with its name
#bg ==> Lists stopped or background jobs
#fg ==> Brings the most recent job to foreground
#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

#ifconfig -a ==> Display all network ports and ip address
#ifconfig eth0 ==> Display specific ethernet port
#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
#whois domain ==> Get who is information for domain
#dig domain ==> Get DNS information for 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 ==> 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
#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
#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 -l ==> 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

DIRECTORY TRAVERSE

#cd .. ==> To go up one level of the directory tree
#cd ==> Go to \$HOME directory
#cd /test ==> Change to /test directory

