

Linux Basic Commands — Cheat Sheet (ver 0.12)

RTM: Read The Manual

man PAGE display system reference MANual
(*while viewing a man page, press h for help or q to quit*)
whatis PAGE display one-line manual page
info PAGE display INfOrMation document
COMMAND --help show basic HELP
apropos KEYWORD .. search manuals descriptions

Users

whoami WHO AM I? (effective user ID)
who WHO is logged on
w Who is logged on and what they are doing.
su USER run a command as Substitute User
sudo COMMAND execute as SuperUser (DO)
adduser .. ADD USER account interactive utility
useradd ADD USER account low-level utility
userdel DELEte USER

System Info: When? What?

date display or set time & DATE
cal display a CALEndar
du estimate Disk Usage
df -h Disk File system usage (disk filled?)
free -h FREE memory
uname -a system information (Unix NAME)

Process Management

systemctl OPTION SERVICE .. SYSTEM ConTrol
ps current Processes' Snapshot
ps axu ... All processes with User id (BSD style)
kill PID kill Process ID
top ... display TOP resource-intensive processes
htop . TOP with vertical and Horizontal scrolling
command & start command in background
CMD1 && CMD2 if cmd1 successful, run cmd2
fg Resumes command and brings to ForeGround
bg Resumes command in BackGround

File Creation & Browsing

ls LiSt files
ls -al LiSt All files in Long format
file FILE determine file type
touch FILE .. create file or update its timestamp
cat FILE .. conCATenate file on standard output
cat > FILE conCATenate on (overwrite) file
cat >> FILE conCATenate to (append) file
CMD1 | CMD2 .. PIPE cmd1 output as cmd2 input
cat FILE | grep PATTERN match pattern
locate FILE LOCATE file on system
head -n NUM FILE display first num lines HEAD
tail -n NUM FILE .. display last num lines TAIL

File Management

pwd Print current Working Directory
cd DIRECTORY Change Directory
cp SOURCE DEST CoPy source to dest
mv SOURCE DEST MoVe source to dest
mkdir DIRECTORY MaKe DIRectory
rm FILE ReMove (delete) file
rm -r DIRECTORY . ReMove directory Recursively
chmod CHange file MODe bits
chmod +x FILE file mode bit eXecutable
chmod -w+r FILE .. bit Writable off, Readable on
chmod 000 FILE owner, group, everyone
(Octal digits 4, 2, 1 for R, W, X)
chown OWNER FILE CHange OWNEr of file

Handling Compressed Files

tar Tape ARchive
tar -vcf FILE.tar DIR . Verbose Create tar file
tar -vczf FILE.tar.gz DIR Create gZip tar
tar -vxzf FILE.tar.gz eXtract gZip tar
tar -vxjf FILE.tar.bz2 eXtract bzip2 tar
gzip FILE compresses file replacing original
gunzip FILE.gz . expands file replacing gzipped

Network & Internet

ip addr show show ip addresses
ping HOST sends ICMP echo request (PING)
traceroute HOST . TRACeS the ROUTE to a host
lynx URL open URL using LYNX browser
links URL open URL using LINKS browser
wget -c URL .. download URL using WwW GET
curl -O URL .. download URL using Client URL
ssh HOST Secure SHell to host
ssh USER@HOST Secure SHell as user to host
scp FILE USER@HOST:/PATH Secure CoPy to host
scp USER@HOST:/PATH/FILE from host
ssh-keygen -b 8192 SSH KEY GENerate
ssh-copy-id -i /.ssh/KEY USER@HOST . COPY

Installing Packages and Updating System

RPM Based using DNF (DaNdiFied yum)
dnf search KEYWORD . search matching packages
dnf install PACKAGE install using DNF
dnf update -y update the system
Debian Based using APT (Advanced Package Tool)
apt search KEYWORD . search matching packages
apt install PACKAGE install using APT
apt update update the package index files
apt upgrade install the newest versions

Shell - Commands and Keyboard Shortcuts

clear CLEAR the terminal screen
Ctrl+C Cancel an ongoing operation
Ctrl+Z put ongoing operation to sleep Zzz
Ctrl+D exit terminal / end of file (EOF)
Ctrl+R seaRch recent commands
Ctrl+U erase whole line
Ctrl+W erase Word