Linux Cheat Sheet
Advanced Commands

LINUXSIMPLY

File Management

scp	Copies files between host over a network
rsync -a	Synchronizes files and directories between two different locations
ls -al	Displays list of all files and directories including hidden files
ln	Creates symbolic(symlink) links between files and directories
file	Identifies the type of a file
rm -rf	Recursively deletes all the files and sub-directories
more	Views the content of a file on one screen at a time
xargs	Builds and execute command lines from standard input
gpg -c	Symmetrically encrypts files
gpg -d	Symmetrically decrypts files
cmp	Compares two files byte by byte
comm	Compares two sorted files line by line
stat	Displays file or file system status
split	Splits a file into pieces
cut	Removes sections from each line of a file
paste	Merges lines of files
install	Copies files and set attributes
jed	Simple text editor
vi	Visual text editor
sed	Stream editor for filtering and transforming text

Install Packages

rpm -e	Removes a package installed via RPM
rpm -i	Install a package via RPM

System Commands

chage	Changes user password expiry information
fsck	File system consistency check and repair
sestatus	Shows SELinux status information
iptables	Administration tool for IPv4 packet filtering and NAT
service	Starts, stops and restarts services

User Management

last	Displays the list of previously logged in users
adduser	Creates a new user on the system
usermod	Modifies attributes of an existing user
deluser	Deletes an existing user from the system
delgroup	Deletes an existing group from the system
groups	Prints group membership of a user

Shell Built-ins

declare	Declares variables and give them attributes
enable	Enables and disables shell built-ins
exec	Replaces the current shell with another command
jobs	Lists active jobs and their status

Disk Usage Commands

df -h	Displays free and used spaces on the file system
df -i	Displays inode usage on the file system
fdisk -l	Lists available disk partition and their sizes
du -sh	Shows total size and of a directory or file
findmnt	Shows list of currently mounted file systems
mount	Mounts a device to specific directory
umount	Unmounts a currently mounted file system
tree	Displays directory structure in a tree format

Hardware Based Commands

dmesg	Displays bootup messages
lshw	Lists hardware information of the system
lsblk	Lists information about available block devices
free	Displays information about system's memory
lspci	Displays list of all PCI bushes and devices
lsusb	Displays information about USB bushes and devices
demidecode	Reports the system's BIOS information
biosdecode	Displays system's BIOS firmware information

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Kernel and Module Information

uname -a	Display kernel version
ismod	Check currently loaded kernel module
modinfo	Display information of about a kernel module
modprobe --remove	Unload a kernel module from memory

Network Commands

ip addr show	Displays information about network interfaces
ip address add	Adds a new IP address to a network interface
ifconfig	Configures network interfaces with specific IP address
ping_host	Tests connectivity to a host
whois	Retrieves information about a domain
dig	Retrieves DNS records of a domain
traceroute	Traces the route of a host
ssh	Secures encrypted communication
netstat -pnltu	Displays information of active TCP and UDP connections
host	Obtains information about a domain name or IP address
hostname -i	Displays IP address of current hostname
telnet	Establishes remote connection
finger	Displays user information
ftp	File Transfer Protocol client
sftp	Secures File Transfer Protocol client
nslookup	Queries Internet name servers interactively

Process Related Commands

pmap	Reports the memory map of a process
top	Shows real-time dynamic display of the running processes
kill pid	Terminates specific process
pkill	Terminates one or more processes based on attributes
bg	Resumes a suspended job in the background

(Hardware/Storage)

hdparm -I /dev/sda	Displays information about first hard drive
hwinfo --short	Displays summary of hardware information
wodim	Burns CDs, DVDs and Blu-ray discs
badblocks	Checks damaged or unreadable blocks in storage
x86info -a	Displays general information about CPU

Miscellaneous

vmstat	Reports virtual memory statistics
alias	Creates a shortcut for a longer command
unalias	Removes previously created alias
ufw	Manages firewall rules
tr	Translate or delete characters from a text stream
tty	Print the file name of the terminal connected to standard input
time	Measure execution time of a command
printenv	Print values of all environment variables
make	Builds executable programs and libraries from source code
whereis	Locate binary, source and manual page of a command
which	Returns the pathname of file
unset	Removes value of an environment variable
tee	Read Standard Input and writes it both to Standard Output and other file
awk	Extracts and manipulates text data
crontab	Instructions for running scheduled job
chroot	Changes the root directory for the current process
timedatectl	Changes system clock and time-zone
at	Schedule commands to run at a specific time
bash	A shell command interpreter
egrep	Search files for lines matching a pattern using extended regular expressions
env	Display and modify environment variables
getend	Print the end of a file
lsof	List open files and their associated processes
mkfs	Create a file system on a device

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fg	Brings a background job to the foreground
renice	Changes the priority of a running system
pgrep	Searches for a process by name
pstree	Shows system processes in a hierarchical tree structure

File Compression

tar -cf	Creates an archive file and compresses one or more file into it
tar -xf	Extracts files and directories from a tar file
tar -zcvf	Creates an archive tar file and compresses one or more files while showing the progress
gunzip	Decompresses the compressed files
rar	Create, manage RAR archieve files
unrar	Extract files from RAR archives
7z	Create, manage and extract files from 7z archieves

neofetch	Displays system information in the terminal
uptime	Shows system uptime and load averages
screen	Terminal multiplexer with session management
patch	Apply changes to files using a diff file
batch	Scheduled jobs to run at a later time when system resources are available
strace	Trace system calls and signals of a program and its child processes
curl	Transfer data from or to a server using variety of protocols
rsyslog	Manages system logs and forwarding them to other systems
journalctl	View and manipulate logs from the system journal
source	Read and execute file content in the current shell
let	Assign an integer value to a variable
uniq	Remove or identify duplicate lines of a file
set	List name of all shell variables and functions