Server Operation

cal	displays a calendar and the date of Easter
chkconfig	updates and queries runlevel information for system services
daemon	writing and packaging system daemons
date	print or set system date and time
df -h	report file system disk usage
exit	exit current *username* session
halt	halt the machine
hostname	show or set the system (**SysV**) host name
hostnamectl	control the system (**systemd**) hostname
init	**systemd** init system and service manager
journalctl	query the **systemd** init journal
kill [-s] [-l]	send a signal (kill) to a process
login	begin session on the system
logout	close current *username* session
reboot	reboot the machine
poweroff	power off the machine
ps	report a snapshot of the current processes
pstree	display a tree of processes
service [command]	run a **SysV** init script
shutdown -h now	shutdown the machine
systemctl [command]	control the **systemd** init system and service manager
systemd	**systemd** init system and service manager
telinit	change **SysV** init runlevel
top	display Linux processes
upstart	**upstart** init system and service manager
uptime	tell how long the system has been running

Basic server operation for login, logout, shows system date, display server processes, and shutdown the machine.
Please Note, there are several init system in Linux (SysV, systemd, upstart, etc) you should check with command `ps -p 1`

User Operations

adduser [username]	create a new *username* or update default new *username* information
deluser [username] [--remove-all-files]	delete a *username* account and related files
getent [group] [| less]	print user groups
getent [passwd] [| less]	print user account
groups [username]	print the groups current *username* is in
id	print real and effective user and group IDs
passwd	change password for current user name
su [username]	change *username* or become super user
sudo [command]	execute a *command* as super user
useradd [username]	create a new *username* or update default new *username* information
userdel [username] [-r]	delete a *username* account and related files
usermod [username] -aG [groupname]	modify a *username* account into suplementary *groupname*
who	show who is logged on
whoami	print effective user id

Basic user operation such as create user, delete user, change password, list active user, etc

Network Operation

curl [url]	transfer a *url* with supported protocol eg. HTTP, HTTPS, SMTP, FTP, etc.
dig [domain]	dig (domain information groper) DNS lookup utility
ftp	internet file transfer program to another host
host	DNS lookup utility
hostname	show or set the system (**SysV**) host name
hostnamectl	control the system (**systemd**) hostname

Network Operation (cont)

ifconfig	configure a network interface
ip	show/manipulate routing, devices, policy routing and tunnels
iptables	administration tool for IPv4/IPv6 packet filtering and NAT
mtr	a network diagnostic tool
netstat	print network connections, routing tables, interface statis- tics, masquerade connections, and multicast memberships
ping [host]	send ICMP ECHO_REQUEST to network *hosts*
scp	secure copy (remote file copy program)
route [host]	show/manipulate the IP routing table
sftp	secure file transfer program
ssh	OpenSSH SSH client (remote login program)
ssh-keygen	authentication key generation, management and conversion
telnet	user interface to the TELNET protocol
traceroute [host]	print the route that packets follow to another host
ufw [--dry-run] [options] [rule syntax]	uncomplicated firewall a program for managing a netfilter firewall
whois	get information about a domain name

Basic network operation and networksecurity such as check network connection, setup firewall, ssh secure shell connection, trace network path, etc

Filename or Command Execution

[command]	less	*more* with advance features
[command]	more	filter for displaying text one screen at the time
alias [command]	define or display aliases command
bash [command]	GNU Bourne-Again SHell for execute *command*
cat [filename]	concatenate *filename* and print on the standard output
echo [text]	display a line of *text*
head [filename]	output the first part of *filename*
ln	make links between files
source [filename]	execute commands from a *filename* in the current shell
tail [filename]	output the last part of filename
touch	change file timestamps

Help and Other Command

[command] --help	display *command* help
help [command]	display *command* help
info [command]	read Info *command* documents
man [command]	an interface to the on-line reference manuals for *command*
nano [filename]	Nano's ANOther editor, an enhanced free Pico clone
vim [filename]	Vi IMproved, a programmers text editor

Help, others important command and common text editor for Basic Linux Administration

File and Directory Operations

apt-get install [package]	APT package handling utility to install *dkpg package*
apt-get remove [package]	APT pakcage handling utility to remove *dkpg package*
apt-get update	APT package handling utility to synchronize index file of available *dkpg package*
cd [directory]	change current *directory*
chgrp	change group ownership
chmod	change file access permission
chown	change file owner and group
cp	copy files and directory
df -h	report file system disk usage

File and Directory Operations (cont)

dpkg	package manager for Debian & Ubuntu
find [filename]	search for *filename* in a directory hierarchy
getent [filename]	get entries from Name Service Switch or *filename* libraries
grep	print lines matching a pattern
gzip	compress or expand files
locate [filename]	find *filename* by name
ls -l [| more]	list directory content
mkdir [directory]	create *directory*
mv *filename*	move (rename) *filename*
pwd	print name of current/working directory
rm [filename]	remove *filename*
rmdir [diretory]	remove *directory*
rpm	package manager for Fedora & CentOS
tar	the GNU version of the tar archiving utility
wget [url]	the non-interactive network downloader
which [command]	locate a *command*
yum install [package]	Yellowdog Updater Modified Synopsis for install *rpm package*
yum remove [package]	Yellowdog Updater Modified Synopsis for remove *rpm package*
yum update [package]	Yellowdog Updater Modified Synopsis for update *rpm package*

Basic file operation such as list directory, change working directory, installation, set file permission, compress file, find file location, etc.
Please Note, there are several package system in Linux (dkpg for Debian & Ubuntu or rpm for Fedora & CentOS)

By **ygautomo** (ygautomo)
cheatography.com/ygautomo/
www.ygautomo.com