

General Navigation and Bash Commands

<code>pwd</code>	Show current directory
<code>mkdir</code>	Make directory <i>directory</i>
<i>directory</i>	
<code>rmdir</code>	Remove <i>directory</i>
<i>directory</i>	
<code>cd</code>	Change to directory <i>directory</i>
<i>directory</i>	
<code>cd ..</code>	Go up a directory (the parent directory)
<code>cd</code>	Change to home directory
<code>ls</code>	list files (in current directory)
<code>cat file</code>	Display contents of <i>file</i>
<code>ls directory</code>	list files in specified <i>directory</i>
<code>whoami</code>	Show your username
<code>uname -a</code>	Show system and kernel
<code>head -n1 /etc/issue</code>	Show distribution
<code>man command</code>	Show manual/information for specified <i>command</i>
<code>uptime</code>	Show uptime
<code>date</code>	Show system date
<code>mount</code>	Show mounted file systems

ls Options

<code>-a</code>	Show all plus hidden files
<code>-R</code>	Recursive list
<code>-r</code>	Reverse order
<code>-t</code>	Sort by last modified
<code>-S</code>	Sort by file size
<code>-l</code>	Long listing format
<code>-1</code>	One file per line
<code>-m</code>	Comma-separated output
<code>-Q</code>	Quoted output

grep

<code>grep option string files</code>	Search for <i>string</i> in <i>files</i>
<code>-i</code>	Case insensitive search
<code>-r</code>	Recursive search
<code>-v</code>	Inverted search
<code>-c</code>	Print count of matching lines
<code>-o</code>	Show matched part of file only

More Search Commands

<code>find /dir/-name name</code>	Find files starting with <i>name</i> in <i>dir</i>
<code>find /dir/-user name</code>	Find files owned by <i>name</i> in <i>dir</i>
<code>whereis command</code>	Find binary source manual for <i>command</i>
<code>locate file</code>	Find <i>file</i> with quick search of system index
<code>which file</code>	Shows path to <i>file</i>

Add 2>/dev/null at the end to discard error messages

File Manipulation

<code>touch</code>	Create, change, modify timestamps of a file
<code>echo</code>	Print specified text
<code>mv</code>	Move <i>source</i> to <i>directory</i> ; Rename <i>Old</i> to <i>New</i>
<code>rm</code>	Remove files or directories
<code>rm -f</code>	Ignore nonexistent files
<code>rm -i</code>	Prompt before every removal
<code>rm -l</code>	Prompt once before removing more than 3 files
<code>rm -r</code>	Remove directories and their contents recursively

File Manipulation (cont)

<code>cp</code>	Copy <i>file1</i> to <i>file2</i>
<i>file1</i>	
<i>file2</i>	
<code>cp -</code>	Backup (doesn't support argument)
<code>b</code>	
<code>cp -f</code>	If file cannot be opened remove and try again
<code>cp -l</code>	Hard link files instead of copying
<code>cp -n</code>	Do not overwrite existing file
<code>cp -s</code>	Make symbolic link instead of copying
<code>cp -r</code>	Copy directories recursively
<code>cp -u</code>	Copy only when SOURCE file is newer than destination file or when destination file is missing

Permissions (chmod)

<code>chmod u</code>	Change owner permission of <i>file</i>
<code>chmod g</code>	Change group permission of <i>file</i>
<code>chmod o</code>	Change all others' permission of <i>file</i>
<code>chmod a</code>	Change everyone's permission of <i>file</i>
<code>r</code>	permission to read symbol
<code>w</code>	permission to write symbol
<code>x</code>	permission to execute symbol
<code>chmod o+r</code>	Adds the "read" ability to "other" users
<code>chmod o-r</code>	Removes the "read" ability from "other" users



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Permissions (chmod) (cont)

`chmod 777 file` Adds rwx permissions to all users using octal notations

I advise looking up an octal notations table/explaination for any help understanding the numbers and their placement, this is just for a quick reference.

Ownership (chown)

`chown newowner file` Change user owner of `file` to `newowner`

`chown :groupname file.txt` Change group owner of `file.txt` to `groupname`

`chown newowner:groupname file.txt` Change user owner and group owner of `file`

`-f` Suppress most error messages

`-R` Make changes recursively

`-H` If cmd argument is symbolic link, traverse it

`-L` Traverse every symbolic link to a directory encountered

`-h` Affect each symbolic link instead of any referenced file

Make note of the :

Processes

`ps` Show snapshot of current processes

`top` Show realtime processes

`kill pid` Kill process with ID `pid`

`pkill` Kill process with name `name`



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Processes (cont)

`killall name` Kill all process with names beginning with `name`

Basic Networking Commands

`ifconfig` Show details of Network settings (IP, version, etc)

`whois` Shows site owner and DNS name server

`nslookup` Shows nameservers and IP Addresses

`traceroute` Shows routing information to host

`nmap` Port scanning (TCP, UDP)

`ping/ping6` Send ICMP pings; Also checks latency

`route` Show/manipulate IP routing table

`arp` Show/manipulate ARP cache

`ip` See ARP cache, neighbor table, add routes

`nc` Show various network info

`tcpdump` Capture network traffic

`dig` Show various IP information
`website`

Netcat (nc) (cont)

`nc host port` Connect to remote server(s)

`nc -l /IPaddress port` Listen mode; listen for incoming connections

`-p` Specify port number

`-v` Verbose mode

`-z` Scan for open ports

`-q` Specify delay before closing connection

`-g` Source-routing hop point(s) up to 8

Netcat (nc) (cont)

`-n` Numeric-only IP addresses

`-s address` local source address

`-c string` specify shell cmds to execute after connect

`-e filename` Specify filename to execute after connect (if no working /bin/sh)

tcpdump

`-A` Print in ASCII

`-c count` Exit after capturing `count` packets

`-D` Show available interfaces

`-e` Print link-level header on each line

`-F file` Use `file` as filter expression

`-L` List data link types for interface

`-n` Don't convert addresses to names

`-p` Don't capture in promiscuous mode

`-q` Quick Output

`-r file` Read packets from `file`

`-s len` Capture up to `len` bytes per packet

`-S` Print absolute TCP seq numbers

`-t` Don't print timestamps

`-w file` Write captured packets to `file`

`-y type` Specify data-link type

`-Z user` Drop privileges from root to `user`

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