Cheatography

White Hat Commands in Linux Cheat Sheet
by Tricksyhobbit1 via cheatography.com/202578/cs/43236/

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

Is Options

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



More Search Commands find /dir/-Find files starting with name name name in dir find /dir/-Find files owned by name user name in *dir* whereis Find binary source manual for command command Find file with quick search locate file of system index which file Shows path to file

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

File Manipulation

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

File Manipulation (cont)

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

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

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Published 17th May, 2024. Last updated 17th May, 2024. Page 1 of 2. Sponsored by Readable.com Measure your website readability! https://readable.com

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Permissions (chmod) (c	ont)
1	rmissions to all 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 <i>newowner</i> file	Change user owner of file to <i>newowner</i>
chown : <i>groupname</i> file.txt	Change group owner of file.txt to <i>groupname</i>
chown <i>newowner.groupname</i> file.txt	Change user owner and group owner of file
-f	Suppress most error messages
-R	Make changes recursively

If cmd argument is symbolic link, traverse it

Traverse every symbolic link to a directory encoun-

tered

Affect each symbolic link instead of any referenced file

Processes (cont)

killall	Kill all process with names
name	beginning with name

Basic Netwo	orking 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 <i>website</i>	Show various IP information

Netcat (nc)	
nc <i>host</i> port	Connect to remote server(s)
nc -l <i>IPaddress</i> port	Listen mode; listen for incoming connections
-р	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

-nNumeric-only IP addresses-slocal source addressaddressspecify shell cmds to execute after connect-eSpecify filename to execute often connect (if no working	Netcat (nc) (cont)		
address -c string specify shell cmds to execute after connect -e Specify filename to execute	-n	Numeric-only IP addresses	
-e Specify filename to execute	-	local source address	
1 5	-c <i>string</i>	1 5	
/bin/sh)	-e <i>filename</i>	after connect (if no working	

tcpdump	
-A	Print in ASCII
-C	Exit after capturing count packets
count	
-D	Show available interfaces
-е	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
-р	Don't capture in promiscuous mode
-q	Quick Output
-r <i>file</i>	Read packets from file
-s <i>len</i>	Capture up to <i>len</i> bytes per packet
-S	Print absolute TCP seq numbers
-t	Don't print timestamps
-w file	Write captured packets to file
-у <i>type</i>	Specify data-link type
-Z user	Drop privileges from root to user

Make note of the :

-H

-L

-h

Processes	
ps	Show snapshot of current
	processes
top	Show realtime processes
kill <i>pid</i>	Kill process with ID pid
pkill	Kill process with name name
name	



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