Command Line and Terminal navigation Cheat Sheet by Kyngo (Kyngo) via cheatography.com/131267/cs/26366/

Basics		Basics (cont)		Basics (con	t)
cd [path]	change your current directory to the specified one	chown	changes the owners of a given	head [file]	prints
cd ~	go to your home folder	user:group	file or folder	tail [file]	prints
cd -	go the the folder you were before	[name]		cut -f [field]	allow
ls	list the contents of the directory	chown -R user:group	changes the owners of a given file or folder, and all of its	-d [separ-	from
ls -lh	list the contents of the directory in a human-friendly format	[name]	contents	ator] uname	sepa gets
cp [origin]	copies the given file wherever you want to	touch [name]	creates a file with the given name	uname -m	Darw gets
[desti- nation]		file [name]	reports the file type		not w
mv [origin]	moves or renames the given file	rm [file]	removes a file	uname -r	gets
[desti- nation]		rm -rf [file]	removes a folder and all of its contents	uname -a	show OS
pwd	get the current directory you're in	cat [file]	prints a file's contents	less [file]	printe
mkdir [name]	create a folder	tac [file]	prints a file's contents from bottom to top	more [file] In -s	same make
mkdir -p [name]	create a folder and all its parents, if needed	sed	allows replacing of contents in files with regular expressions	[source]	SOUR
chmod	change a file's permissions - Allows the user to read,	grep [pattern]	prints the contents of a given file	nation]	
755	write and execute, and anyone else to just read and	[file]	that match the given pattern	cal	prints
[name] chmod	execute change a file's permissions - Only the owner will be able	tr -s [pattern]	replaces all concurrent duplicates of a given pattern	date	repoi
400 [name]	to read the file	tr [pattern] [repla- cement]	replaces the given pattern with the given replacement string		
		tr -d [pattern]	removes the given pattern from a string		



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Write (or append to) a file without an editor	Manuals	sed exampl	es (co
<pre>cat > [file] << EOF hello world this is a file's content blah blah hello again bye for now</pre>	Almost all programs on any Unix OS will have what's called a "man- page". This is an instruction manual with details on how to use a program. In order to read the manual for a specific application, just type man [application] and you will be able to read how it works. Press "- Q" to close the manual when you're done.	Regular exp given to sed something th rather a patt Networks	, as m nat ma
EOF In order to append to a file instead of replacing all of its contents, add two output cones instead of only one (>>). Command pipeline concatenation example curl -s "https://developer.android.c- om/studio#downloads" grep ".dmg" grep href head -n1 cut -f2 -d"=" tr -d '"' This command will: - download the downlaods page for Android Studio	<pre>sed examples The sed command uses a string as parameter to determine what to oeprate, and can receive several more parameters to configure the behavior. sed -i 's/hello/hi/' file.txt will replace the first instance of "hello" that the script can find at each line, and write the result at the same given file. To avoid overwriting, you can just remove the - i argument. sed -i 's/hello/hi/g' file.txt will replace every instance of "hello" that exist in the file. To apply the patterns from a file, use the -f parameter with a path to a file. If you want to make a backup of the file, add a suffix for said file after the -i parameter. For example: sed -i".bkp" 's/hello/hi/g' file.txt will generate a file named file.txt.bkp with the original contents.</pre>	ifconfig ip addr show nmap	Sho Sar Sca
		ping [host] whois [host]	Ser to a Tel dor Tel res The
 find for the lines that contain ".dmg" within them filter again to get only those that contain "href" filter again to get only the first occurrence split the result to get only the second field using = as a separator remove any double quotation marks on the string 		(domain] host (domain] wget [url] - O [file]	Re a g Do spe
The result should be a link that, when opened, will download the macOS installer for Android Studio. Please note, if the website changes, this command may not work as is.		curl [url] -o [file] iftop	Do spe Allo thro
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https://readable.com

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Networks (co	ont)	Pipelines and op	erators (cont)		
netstat - Sh	nows which applications are	[command] \ allows you to make a line break without executing the command		ake a line break without executing the command	1
tulpn us	ing what ports (Linux)	[command] 2>&1 redirects the command's stderr to stdout			
	nows which applications are	`[command]`	runs the given o	command, and then runs the result as a command itself	
lsof -i -n us -P	ing what ports (macOS)	Remote hosts			
Pipelines and	d operators	ssh [server]		connects to a server via SSH	
[command] outputs the result of a		ssh [server] -p [po	rt]		i.
> [file]	command to a file	ssh [server] -i [cer	tificate]		;
[command] >> [file]	outputs the result of a command to the end of a	scp [user]@[serve path]	r]:[path] [local	copies a file from a remote server to your machine	I
[]	file	telnet [host] [port]		makes a raw tcp connection to a given host and port	
[command]	gets a file and prints its	w		reports who's connected at the machine	
< [file]	content as if it were you	who		same as w	
	entering it	whoami		tells you your username	
[command] << [file]	appends a file's contents into the program	For SCP, you can upload from your machine to a remote server by changing the order of		, , ,	-
command1]	if command1 succeeds,	(capital)).		SH's parameters with SCP (for port, you must use - ${\tt P}$	
&&	command2 will be	(000)			- '
[command2]	executed				
[command1]	if command1 fails,				(
command2]	command2 will be executed				
&	the process will be run in				
	the background				I
!!	the last executed				,
	command				
\$?	the last command's exit				
	code				
command1]	sends the output of				
command 01	command1 to command2's				
[command2]	input				



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Loop	s and decisio	n taking (cont)	Pack	age I	Managers	Moni
done			apt		Debian, Ubuntu	htop
"lf-els	e if-else" opera	ator	yum		Amazon Linux, Red Hat	
if [\$UID -eq 0)]	dnf		Red Hat, Fedora	
then			pacm	nan	Arch Linux	
	You are ro		emer	ge	Gentoo	df -h
	[\$UID -eq	ser with ID 1	brew		macOS (Homebrew)	du -h
else	104 410 45		choco	0	Windows (Chocolatey)	[path
echo	You are NO)T root	_			free
fi			Sear	ching	J	
Perm	ission bits		find [path]	1-	finds anything within a given path with a given	kill [p
0		Do nothing	name	-	pattern on its name	1.11.2
1	x	Execution	[nam	е		kill - [pid]
2	-W-	Write	patte	-		kill -
3	-WX	Execute and write	where [name		tells you all the locations for a given binary name	
4	r	Read	which	-	tells you the given binary	
5	r-x	Read and execute	[nam		name's path that will be	pkill
6	rw-	Read and write		Inamoj	run according to your	[prod
7	rwx	Read, write and execute			PATH	name]
Here "r" stand for "read", "w" stands for "write", and "x" stands for "execute". It may be useless to have permissions below 4, as you won't be able to read the file. A 0 permission is		locate [name		tells you the location of any kind of file within your machine	xkill	
usefu	I to fully restric	t access to any other user.				Isblk
Permi	issions are usu	ally represented by three digits, and their meaning is the following: the	Moni	toring	g the OS	
		the owner user of the file, the second number represents the owner	ps	prin	its a snapshot of all system	blkic
group	's permissions	, and the last one represents everybody else's permissions.	aux	pro	cesses	
			top	sho	ws the processes running on	lspc
				the	machine	Isus

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Comp	oressi	on	gr
tar xf	[file]	extracts a tar file	-W
		at the current path	-f [
tar cf		creates a tar file	-1
[filena	-	with the given	-R
[conte	ent]	name from the	_
		given content	sc
tar zci [filena		creates a gzipped tar file with the	SCI
[conte	-	given name from	SC
		the given content	SC
unzip		unzips a .zip file	[na
[file]			СТ
zip		creates a .zip file	
[filena	ıme]	with the given	СТ
[conte	ent]	name from the	
		given content	SO
ls par	amete	ers	-n
-	ramete		-n -r
-I d	letaileo	d list	
-l d - h	letaileo	d list -readable file size,	-r
-l d - h h u	letaileo Iuman	d list -readable file size, rith -l	-r -k
-l d - h h u -r r	letaileo iuman ised w everse	d list -readable file size, ith -l ed	-r -k -f
-l d - h h u -r r	letaileo iuman ised w everse	d list -readable file size, rith -l	-r -k -f ls fro
-l d - h h u -r r li d	letaileo iuman- ised w everse st dire	d list -readable file size, ith -I ed ectories themselves	-r -k -f
-l d - h h u -r r li d - ir	letaileo iuman- ised w everse st dire	d list -readable file size, ith -l ed	-r -k -f fro Nic
-l d - h h u -r ru - li d - ir a fi	letailed iuman- ised w everse st dire nclude iles)	d list -readable file size, ith -I ed ectories themselves	-r -k -f ls fro Nid ati
-l d - h h u -r r d - li d - ir a fi a fi	letailed iuman- ised w everse st dire nclude iles) st usir	d list -readable file size, rith -I ed ectories themselves e dotfiles (hidden	-r -k -f ls fro Nid ati the
-l d - h h u -r r d - li d - ir a fi si ir	letailed iuman ised w everse st dire nclude iles) st usir nstead	d list -readable file size, ith -I ed ed ectories themselves e dotfiles (hidden ng base 1000	-r -k -f ls fro Nid ati
-l d - h h u -r r d - li a fi si ir - li	letailed iuman ised w everse st dire nclude iles) st usir nstead	d list -readable file size, rith -I ed ectories themselves e dotfiles (hidden ng base 1000 I of 1024	-r -k -f ls fro Nid ati the
-l d - h h u -r n d - li d - in a fi si in si in - li si in	letailed iuman- ised w everse st dire nclude iles) st usir nstead st with of tabs	d list -readable file size, rith -I ed ectories themselves e dotfiles (hidden ng base 1000 I of 1024	-r -k -f ls fro Nic atiu
-l d - h h u -r r d - ir a fi si ir si ir - li m o -t s	letailed iuman- ised w everse st dire nclude iles) st usir nstead st with of tabs	d list -readable file size, ith -I ed ctories themselves dotfiles (hidden g base 1000 l of 1024 n commas instead newest to oldest	-r -k -f ls fro Nic atiu

- -i case insensitive
- -v hide all matches
- -r recursive search
- -e regular expression pattern
- -x match entire line



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grep parame	eters (cont)
-W	match entire word
-f [file]	use patterns from file
-1	do not search inside binary files
-R	recursive, even with symlinks
screen para	meters
screen	creates a new screen session
screen -ls	lists the existing screen sessions
screen -r [name]	resume a given screen
CTRL + A	activates commands for the active screen session

TRL + A, D disconnects from the screen

sort parameters	
-n	numeric
-r	reverse
-k [number]	specific field
-f	case insensitive
ls -l sort -n -k5	will list a folder's contents by its size,
from the least to the most	sized.

Niceness

Niceness is they way Unix OSes give priority to the applications running on the machine. A niceness of 19 means it's got the **least** priority, whereas a -20 priority means it's got the **most** priority.

Niceness (cont)

a bridge.

renice 19 [pid] will make the process w priority within the CPU. This means that, whe resources, this process will be more ignored t number.

renice -20 [pid] will make this process even when resources are scarce.

S3 Commands (aws s3)	
ls s3://bucket/file	
	1
<pre>cp s3://bucket/file /path/on/- machine</pre>	(
cprecursive s3://bucket/-	I
folder /path/on/machine	(
rm s3://bucket/file	
All commands must begin by aws s3.	
Paths can be specified in both ways: from I	ос
local. They can also work from remote to re	-m

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