We		Command				
	Slid	(case				
#	<u>e</u> #	sensitive)	Simple Explanation	Additional Info	Basic Syntax	<u>General Info</u>
				press [TAB] [TAB] to use the auto-		
				complete feature		
				press spacebar to move on		used to find a command's arguments, options, syntax,
8	18	man	MANual - for help with any command	press q to quit	man Is	synopsis, description, history etc.
			Change Directory- to switch directories	cd goes to home	cd Downloads	
8		cd	(folders)	cd goes back one level	cd /etc	
8	20	pwd	Print Working Dirctory		pwd	helps locate where you're at
					echo hi	
8	20	echo	prints to screen (or file)		echo "hi"	
					ls	
					ls Downloads	
8	20	 	LiSting directory/file		ls /etc/python	
8	20	cat	conCATenate - lists contents of a file		cat pillow	
			MoVe - moves files/folders			
			or renames them (if no file/folder with		mv pillow Downloads	
8	-	mv	destination name)		mv Downloads/pillow /home/kali	
8		rm	ReMove	be extremely careful with this - the	·	
8	_	rmdir	ReMove DIRectory	be extremely careful with this - the	·	
8	20	less	lists contents with paging	q to quit	less /etc/passwd	similar to cat
_			Creates a file			
8	20	touch	or updates timestamp (if file already exists)		touch pillow2	can choose whatever timestamp you want
١,			CoD., sovies files and discreteries	an forininal) (full math of comman)	an willow 2 /ha ma a /hali /n annwillow	significants and
8		copy find	CoPy- copies files and directories	cp [original] [full path of copyee]	cp pillow2 /home/kali/newpillow	similar to mv
8			to find a file/directory		find /etc	
8	20	wget	to download from the internet	does one command and dumps	wget https://ipconfig.io/ip	
			nine, connects the output from one	the results on another command -		
8	24	 -	pipe- connects the output from one command to the input of another command		leat /ote/group Live I	metacharacter- used to connect or expand commands
├ °	24		command to the input of another command	related the shell waits until the first	cat /etc/group wc -l	metacharacter- used to connect or expand commands
				command is executed before		
			semicolon- allows sequential commands -	starting the second these		
8	25		several commands one after another	commands are not related	echo hi; date; whoami	metacharacter- used to connect or expand commands
⊢°	23	1	ampersand- allows background commands -	Commands are not related	echo in, date, whoalin	metacharacter- used to conflect of expand confindings
			you can run a large command without it tying	If allows for bringing background		
8	26	l _{&}	up your shell	commands to the foreground	wget http://download.hugefile.com/1gb&	metacharacter- used to connect or expand commands
L.°	<u> </u>	I C	Tab Angli Sileli	commands to the foreground	IMPER HITH.// GOMINGAGING COM/ TENA	interaction acter- used to conflect of expand confindings

<u>We</u>		Command				
	Slid	(case				
#	<u>e#</u>	sensitive)	Simple Explanation	Additional Info	Basic Syntax	General Info
				l		
			command substitution- output of a command	1		
			interpreted by the shell instead of by the	command in parentasis/backticks		
			command in front of it - standard output a	first and then plug it into the other		
			command becomes an argument for another	command (just like parentasis in		
8	27	() or ``	command	Algebra)	echo "ZSH is located at:" \$(which zsh)	metacharacter- used to connect or expand commands
				can be used instead of doing 2		
8	28	<	directs contents of a file to the command	commands and piping	command argument < source file	metacharacter- used to connect or expand commands
				be careful with this command, it		
				replaces file contents WITHOUT		
				WARNING		
				set -o noclobber configures your		
			directs standard output of a command to a	shell not to override an existing		
8	28	>	file	file	echo hi > letter	metacharacter- used to connect or expand commands
			directs standard output of a command to a ,			
			adding the output to the end of the existing			
8			file		echo "How are you?" >> letter	metacharacter- used to connect or expand commands
8		alias	to create a shortcut for any command	alias lists all current aliases	alias x= 'y'	
8	29	unalias	to remove an alias		unalias y	
				set displays all variables for		
				current shell		
				insert \ before the \$ to make the		
			precedes pre-defined shell variables	shell read it as a dollar sign instead		
8	30	\$	ex: \$HOME (home directory)	of a shell variable	\$USER	
				can change number of lines		
				printed using -n option		
				-f option prints in real time		
9	5	tail	prints last 10 lines	can do multiple files at a time	tail /etc/passwd	used when you don't want all the info to print
				can change number of lines		
				printed using -n option		
9	5	head	prints first 10 lines	can do multiple files at a time	head /etc/passwd	used when you don't want all the info to print
						gives hardware information, logs, and anything going on
9	5	dmesg	print or control the kernel ring buffer		dmesg	on the physical linux machine - lowest level info

We		Command				
ek Sli	lid	(case				
1 1	#	sensitive)	Simple Explanation	Additional Info	<u>Basic Syntax</u>	General Info
				the file mounted on the root (/)		
				folder is the most important one		
				here		
			Disk Free- full disk- displays how much space	-h option displays human readable		
9	5	df	is left on your partition	form - MB/GB	df	
			Disk Usage- displayed based on file and	-sh option to summarize in human		
9	5	du	directory size	readable	du	
			DIFFerence- compares 2 or more files line by			great tool before deleting a seemingly duplicate file or
9	5	diff	line		diff file1 file2	before updating to a new version of something
				tar does not remove the original		
				file by default		
				can create a new compressed file		
				or add to an existing one	sudo tar -cvpzf compressed tar gz originalfile	
				the file extension doesn't mean	(compress)	
			compresses or decompress files using .tar,	anything to the OS, it's for the	sudo tar -xvpzf compressed.tar.gz originalfile	can be helpful when backing up a system
	-	tar	.xz, or .tar.gz extension	user's reference	(decompress)	always needs arguments; generally has several of them
9	$\overline{}$		displays info about the OS		uname	
-	-+	zip	compresses files using .zip extenstion		zip compressed.zip original	similar to tar
9	5	unzip	decompresses files with .zip extenstion	de coult course with the OC wood to	unzip compressed.zip	similar to tar
				doesn't come with the OS, need to		
9	_	ror	compresses files using year outenstion	install it - it's not natively		
9	3	rar	compresses files using .rar extenstion	supported doesn't come with the OS, need to		
				install it - it's not natively		
9	5	unrar	decompresses files with .rar extenstion	supported		
 	7	uniui	RAM usage - displays free and used memory	зарропса		
9	5	free	in the system		free	
			ProceSses- see what's currently running on			
9	5	ps	the machine	displays 2 most recent processes	ps	like task manager on Windows - can kill tasks
		•		, ,		0
				gets updated every few seconds		
				not an active command - just		also similar to task manager on Windows but can't kill
9	5	top	processes in real time	displays info	top	anyone
	\dashv					practical usage: to make sure that you are not messing up
						anyone else's work while backing up, changing
9	5	w	displays logged on users		w	configurations etc.

<u>We</u>		Command				
<u>ek</u> S		(case				
# 6	<u>e #</u>	sensitive)	Simple Explanation	Additional Info	Basic Syntax	General Info
			directs standard output of a command to a	STDOUT - standard output - data	and the least terms of	
9	6	1>	file	stream leaving a process	echo hi 1> letter	same as >; see above
9	6	2>	redirects error messages only	STDERR - standard error	find / -name "sshd_config" 2> /dev/null	practical usage: redirect errors while backing up, will tell you if you are running out of space, access denied etc.
9	7	*	matches any number of characters	aka the wild card	Is t*	operator- allows for working with files more effeciently
				each? represents a character ex:		
9	7	?	matches a single character	??? = 3 characters	ls t?	operator- allows for working with files more effeciently
9	7	0	matches any one of the characters between the brackets	a hyphen-separated matches a range of numbers or letters (still case sensitive)	Is [m-z]*	operator- allows for working with files more effeciently similar to {}
9	7	{}	expand out a set of characters across file or directory names		touch myfile{110}	operator- allows for working with files more effeciently similar to [] great way to automate stuff
	42		Change MODe- change permissions of a file;	to add permissions use + to remove permissions use - u = user/owner g = group o = everyone else	chmod a+rwx filename chmod g+r filename	this command uses many options
9	13	chmod	read, write, and execute	a = all 3 categories	chmod u-x filename	Is -I = long listing format- displays file permissions
9	13	chown	Change OWNer- change file owner and group	If changing to or from root, use sudo running user must be in	chown newowner filename	
9	14	sudo	applies root privileges to specified command only	/etc/sudoers file sudo privileges can be restricted, require a password	sudo Is -a /root	root privileges are limited to prevent users from doing serious damage by mistake
		locate	find files by name	has it's own database so need to run updatedb before running this command	locate /bin/zsh	similar to find but goes faster because it's a database, it's not searching through the whole system downside: if you don't do updatedb it won't have newer files that weren't backed up yet faster than find
-	-	updatedb	updates files database		updatedb	

14/0		Command				
<u>We</u>		Command				
<u>ek</u>	<u>Slid</u>	•				
<u>#</u>	<u>e#</u>	sensitive)	Simple Explanation	<u>Additional Info</u>	<u>Basic Syntax</u>	<u>General Info</u>
				more granular than locate - can		
9	19	find	searches for files	actually play around with the files		for more complex searches
				patterns found are displayed in red		
9	19	grep	searches for patterns within files	text	grep what /where	
						basic command line editor
						when only resource available is the command line, use this
9	19	nano	edits files		nano /home/kali/.zshrc	command for editing
9	19	mousepad	opens file in mousepad	has GUI	mousepad /home/kali/.zshrc	
		update			sudo apt update	
		upgrade			sudo apt upgrade	
		install			sudo apt install program1 program2	
		remove	managing software		sudo apt remove program1	Managing Software
9	22	purge	purge- deletes settings, configurations etc.	apt= application tool	sudo apt purge program1	needs higher privileges to access the apt folder
					crontab -e for a wizard to prompt you	
9	25	crontab	used to create cronjobs- scheduled tasks		use crontab.guru for syntax	similar to Windows Task Scheduler