Command/Concept	Usage/Syntax	Description	Example
Absolute path	/ <dir>/<file></file></dir>	Absolute paths to a file or	# Class directory
		directory always start at the	/ACTF/Course/inx_u18
		top of the filesystem tree, i.e.,	# "Message of the day" file
		/, and traverse "down"	/etc/motd
Relative path	<relative \$pwd="" to=""></relative>	A relative path can locate a	# cd to your "projects"
		file or directory, which is	# directory without
		"relative" to your \$PWD	# specifying an absolute path cd \$HOME
			cd projects
	Special file .	Every directory on the	# Go "here"
		filesystem contains a hidden	# (Stay in the same directory)
		file . (single period). This file	cd .
		represents "here" (this	
		directory). Seen by 1s -a	
	Special file	Every directory on the	# Go "up" one directory
		filesystem contains a hidden	cd
		file (two periods). This file	
		represents "go up" (one	
		directory). Seen by ls -a	
less	<pre>less <path_to_file></path_to_file></pre>	View the contents of a file.	# View "Message of the day"
		Arrow keys for up/down.	less /etc/motd
		Return/Enter key for a single	
		line forward. Space bar for a	
		page forward; b for back a	
		page. q to quit out of less.	
0 1 0		Note: The mouse is useless!	# TY # # C . 1 . 1 . 1
Search for a pattern in	<pre>less <path_to_file></path_to_file></pre>	Search mode invoked by:	# View "Message of the day"
a file using less	/ <search pattern=""></search>	/ <search pattern=""></search>	less /etc/motd
		n for next match	# Search for string: CGRB
		p for previous match	/CGRB

less -S	less -S <file></file>	Ensure "long" lines are not word-wrapped on the display but instead extend "off screen." Scroll left/right with the arrow keys on those lines to see the content. CGRB infrastructure defaults to -S without having to specify it.	# Ensure no word-wrap less -S /etc/bashrc
mkdir	<pre>mkdir <new_dir> mkdir <validpath>/<new_dir></new_dir></validpath></new_dir></pre>	Create a new directory in your \$PWD You can create a new directory (outside your \$PWD) given a valid path	# Create a new directory # 'testo1' in your home dir cd \$HOME mkdir testo1 # Create a new directory # 'testo2' in your home dir mkdir \$HOME/testo2
mv	mv <source/> <dest></dest>	Move or rename a file or directory.	# Rename directory # 'testo2' to 'testo3' cd \$HOME mv testo2 testo3
Move files into a directory	mv <f1> <f2> <dest></dest></f2></f1>	Move several files into a pre- existing directory.	mv f1.txt f2.txt f3.txt testo3
ср	cp <source/> <dest></dest>	Copy files and directories. Similar to my with two differences: The original file is not removed. If you want to copy a directory use the recursive option: -r	# f4.txt is copied ("cloned") # into the testo3 directory cp f4.txt testo3 # Copy the testo1 dir into # the testo3 dir cp -r testo1 testo3
rm	rm <path_to_file></path_to_file>	Removes a file	rm f4.txt
rm -r rm -rf	rm -r <dir> rm -rf <dir></dir></dir>	Removes (recursively) a directory with -r Use -f (force) to suppress y/n removal confirmations.	# Asks confirmation rm -r testo3 # No prompting, quiet rm -rf testo3

du	du -sh <source/>	Determine size of a file or	# Size of home directory
au	du Sii (Soulee)	directory (-s summary).	cd \$HOME
			du -hs .
		"Human readable" size (-h),	# Size of projects directory
		e.g., Kilobytes, Megabyte,	du -sh projects
	() 1) () ()	Gigabyte, and Terabyte	
nano	<pre>nano <path_to_file></path_to_file></pre>	Text editor. Arrow keys to	nano todo.txt
		move around. Ctrl-o to save	
		changes. Ctrl-x to exit. nano	
		-w to turn off word wrapping	
		(for <u>newly</u> edited text).	
man	man <command name=""/>	Manual page for a command.	man du
		Uses less to view the page.	man nano
			man man
info	info <command name=""/>	Info documents for a	info du
		command; different	info nano
		information than man	info man
		(possibly less "cryptic"). Not	
		available for all commands.	
top	top	Displays running processes	top
		on the server. Processes	
		sorted by %CPU. %MEM shows	
		total system memory used.	
Wildcard: *	*	Matches 0 or more	ls
		characters.	f1.txt f2.txt f99.txt
			# Move all files
			mv * \$HOME/projects
Wildcard: ?	?	Matches any single character.	ls
		_	f1.txt f2.txt f99.txt
			# Move files with single digits
			# Does <u>not</u> move f99.txt
			mv f?.txt
			\$HOME/projects

Shell tab completion	<tab></tab>	When writing out paths on	# Press <tab> key</tab>
		the command line you can	cd /ACTF/Co <tab></tab>
		have the shell attempt to	# This auto-completes
		"auto-complete" what you are	# to /ACTF/Course
		typing (after the first few	
		characters). If there's an	
		ambiguous match it will show	
		all the possible options when	
		you press <tab>. Type some</tab>	
		more characters that match	
		followed by <tab> to</tab>	
		continue.	
Shell history	Up arrow at the command	Loads the previous	# For each previous
	prompt	commands you have run	# command repeatedly press:
		(from your history). You	<up arrow=""></up>
		can use the left/right arrow	
		keys to edit previous	
		commands; press <enter></enter>	
		to re-run that command.	