Perched Systems: *NIX Usage

Quick Reference Guide



Getting Hel	lp	E .	Navigation			:	Bash Shortcuts			i
Command		Description	Command	Description			Shortcut		Description	
man <command/>		read the manual	pwd	displays current working dir			Up/Down Arr	ow	access previous comm	nand
apropos		database	tree		rs dir contents in visual		ctrl + A		move cursor to start o	of
<command/> -h		help for specific command	cd	tree change directory			ctrl + E		move cursor to end of	f line
<command/> help		help for specific		change uncetory			ctrl + U		delete left of cursor	
		command	Directory Aliases			ctrl + K		delete right of cursor		
find		find files	Alias		Description		ctrl + W		delete word on left	
locate		find files	. (period)	"here" or current working		9	ctrl + <		jump to left by argum	ent
whereis		searches man pages			directory		ctrl + >		jump to right by argur	ment
		and source files for a program	(double period)		up one level from curren directory	t	<tab></tab>		completes filename or	r
which		Search the user's \$path for a program	~		current user's home		ctrl + R		reverse search history	ři.
		file		directory			ii		repeat last command	
·			_		last working directory		history		display contents on .b	ash-
Networking	1	:	Contain Info	2.1					_history	
ip a display routing, devices and tunnels ss socket statistics (show open / listening ports)		outing, devices and	System Info	80.	;		!###		rerun specific history	entry
		Command	10 0000	scription		Users & Permissions				
		The state of the s	whoami	print the current user id and name			Command		cription	•
ping	icmp to test connectivity		hostname	print or	set system name		id		t user and group id's	
traceroute trace route to host		ite to host	20 N		isplay or change the date &		useradd		ite new user account	
dig	DNS lookup			time			passwd		dify a user password	
ssh	Secure Shell client (remote login program)		uptime	show time since last reboot / start list users currently logged in display info about user			usermod		dify user account	
							userdel		ete a user account	
scp	secure copy (remote file copy)		users							e in
tcpdump	dump traffic on a network		finger				groups	print group names a user is in add a user security group		5 111
nmtui	textual interface to configure networking		who	print all usernames currently logged in			groupadd		dify a group	
							groupmod			
Common Switch's used:		uname		rstem information		groupdel		te a group		
ss -Int		-\	df	show d	isk usage		chown		nge file owner and grou 	15
ip a (provides address) ip route (provides routes)		du	show d	irectory space usage		chmod	chai	nge access permissions	•	
, in the state of			free	show m	nemory and swap usage					

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Sorting & Fi	iltering	Reading & I	Manipulating Files	Process Monitoring		
Command	Description	Command	Description	Command	Description	
(pipe)	passes output from one	cat	concatenate and print (display) the content of files	W	who is logged on	
	command to another			ps	process status	
grep	search file(s) for lines that	less	display output one screen at a	Isof	list open files	
	match a given pattern		time	kill	kill process	
egrep	search file(s) for lines that match an extended exp	tail	output the last part of file (-f to follow)	iostat	report CPU and i/o statistics	
zgrep	search compressed file(s) for lines that match pattern	touch	create a new (empty) file or change file timestamps	top	list processes running on the system	
sort	sort text files	nano	create or edit file in nano editor	htop	interactive process viewer	
WC	print byte, word, and line counts	vim	create / edit file in vim editor	sudo halt	shutdown system reboot system	
cut	divide a file into several parts	rm	remove file	sudo		
uniq	uniquify files	mkdir	create dir	reboot		
sed	Stream manipulation tool	rmdir	remove dir	systemctl	Tool used to interact with Systemd	
awk	Programming Language and	In	create a hard link to file	Common Switch's used:		
	Text processor	ln -s	create a symbolic link to a file	ps -aux		