## Linux Command Sheet Cheat Sheet by Mary F. Smith (boogie) via cheatography.com/86236/cs/20137/

Information	
pwd	print working directory
cat	print file [on screen]
user head or tail instead of cat	shows the first few lines at beginning or end
hostname	display hostname
-i [displays	network address] -I [displays all local IPs]
date	set/display date & time
whois	
uptime	display how long the system has been running
cal	displays calendar
uname -a	displays Linux system info
uname -r	displays kernel info
lsb_release -s	

### Manage Users

su -	switch to root user & move to that directory
adduser	add new user
usermod -aG sudo username	add user to sudo list
groups username	list groups a user belongs too
su mfsmith	switch to listed user mfsmith
passwd	change password for current user name
passwd mfsmith	change password for listed user
passwd -S sysadmin	displays the status of the users password
	[P] Unlocked
	[L] locked
	[NP] no password
adduser mfsmith -or- useradd mfsmith	Creates a new user
usermod mfsmith	modify username account

# EVERY THING

By Mary F. Smith (boogie) cheatography.com/boogie/

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Manage Users (	con

<b>č</b> ( <i>'</i>	
deluser mfsmith -or- userdel	Deletes user
deluser mfsmithremove all-files	Deletes the user and removes all files in directory
getent powerusers   less	print user groups
usermod -l newusername oldusername	change user name
sudo chfn mfsmith	edit basic info i.e. full name, room #, phone #

Process Manageme	nt
ps	displays users current processes
ps -ef	displays all processes
pmap	displays memory usage
pstree	display in a tree
ps -ef   grep wa	display all info reference this process
ps kill 84679	kill process id 84679
ps killall java	kill all processes named java
top	show all running proicesses

Disk/Hardw	are Mgmt	
df -h	disk usage	
ps	running processes	

System Monitoring	
whoami	display user
uptime	system run time
cat /proc/cpuinfo	I
free -h	display free memory}
lshw	print hardware configuration
last reboot	disaply date & time of last reboot
W	display currently logged in users

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General Maintenand	æ	
Shutdown <sup>[OPTIONS] TIME</sup> [MESSAGE]		sudo shutdown =1 "System scheduled for restart"
Update & Upgrade t	he Debia	1 OS
		sudo apt-get update && sudo apt-get upgrade
Package manageme	ent I OS N	laintenance
	•	
sudo apt-get update	check	for updates in current version
apt-get updater && a	apt-get up	grade
apt-cache search docker		for packages with the word "Docker" in name
apt-get install docker	install	docker
apt-get remove	remove	es a package
apt-get purge	remove	es and deletes
Misc Need Organizi	ng	
ssh mfsmith@srv-to	wer	log into machine
scp mfsmith@srv-to	wer :srv-o	lc
scp <username.@<h< td=""><td>nost:[remo</td><td>te copies files from the host to the</td></username.@<h<>	nost:[remo	te copies files from the host to the
sourse] <local.< td=""><td></td><td>destination</td></local.<>		destination
Working with Proces	sses	
pstree	displ	ay a tree of processes

	,				3	
ssh mfsmith@srv-tow	er	log into machine		ip a		
scp mfsmith@srv-tow	er :srv-dc			netstat		
scp <username.@<ho< td=""><td>st:[remote</td><td>copies files from the host to the</td><td></td><td></td><td>-nutlp</td><td>[di</td></username.@<ho<>	st:[remote	copies files from the host to the			-nutlp	[di
sourse] <local.< td=""><td></td><td>destination</td><td></td><td>-e [incluc</td><td>les ethe</td><td>ern</td></local.<>		destination		-e [incluc	les ethe	ern
Working with Process	es			ping		
pstree	display a t	ree of processes		pir	ng -c 4	
systemctl proces-		systemd init system & service		tracerout	e srv-	F
sname	manager		-	dc		
				host		
SuperUser				nost		
				hostnam	е	

#### SuperUser su -| change to superuser & stay at root directory | execute a command as root sudo -- or -| execute a command as a particular user sudo -u

## Installs - Frequently Used

vagrant@debian11:/ sudo apt-get install nano -y

Basic Network Mg	mt
iwconfig	wireless interface
ifconfig	ethernetinterface
# The loopback ne	twork interface
auto lo	
iface lo inet loopba	ack
# The primary netw	vork interface
-auto enp0s3	
iface enp0s3 inet s	static
-address 192.168.	1.97
-netmask 255.255.	255.0
-gateway 192.168.	1.1
-dns-domain exam	ple.com
-dns-nameservers	1.1.1.1

#### sudo systemctl restart networking

Networking Com	mand/Queries
ip a	display IP Address, routing, devices and tunnels
netstat	displays all active TCP connections, ports
-nutlp	[displays tcp/udp ports & application running on port]
-e [includes ethe	rnet stats] -o [includes PIDs] -p [displays protocols] - r [displays routing table]
ping	test communication with machines
ping -c 4	limits the ping response to 4 replies
traceroute srv- dc	print packet route
host	DNS lookup utililty
hostname	show or set system name
iptables	lutililty for packet filtering and NAT
mtr	network diagnostic tool
telnet	access to the telnet tool
ufw	application to mange filters and firewalls
mtr	diagnostic tool
nbtstat	displays netbios over tcp
arp	displays caches apr table
pathping	disaplys info about network latency/loss between hops
tcpdump	



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Other Command	s
; [semi colon]	allows a user to stack/insert multiple command on one command line
&& [double ampersand]	if the command on the left is suceesful then run the command on the right
[double pipe]	based on the results of the first command, skip the second command

## Directory Structure

Directory		
/	root directory of operating system	
/etc	host system config files	
/var	storage for file which grow in size	
/bin	user binary files i.e. cat, grep, etc.	
/proc	system processes	
/srv	system services	
/mnt	ppermenet storage	
/home	home directory for logged in user	
/lib	shared library files and kernel modules	
/usr	user utilities and apps	
/dev	device files i.e. mouse, keyboard, harddrive, etc.	
/sbin	system binary files	
/opt	option software	
/media	temp storage/flash drives	

### **Directory Colors**

Blue   Directory	Yellow   Device
Green   Executable	Magenta   Graphic Image
Cyan   symbolic Link	Red   Archive File
	Red & Black   Broken link

\*\*On many Linux distributions, directories may be displayed in blue, executable files may be displayed in green, and symbolic links may be displayed in cyan.

Colored output is not the default behavior for the Is command, but rather the effect of the --color option. The Is seems to perform this coloring automatically because there is an alias for the Is command, so it runs with the --color option.\*\*

sysadmin@localhost:~\$ type Is Is is aliased to `Is --color=auto'



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Working with Directories		
ls	list contents of current directory	
ls -r	list files in subdirectories	
ls -al	list files with directories, size, permissions etc.	
ls-l	list files and permissions	
	r [read] w[write] x [execute] -= [no permissions	
ls -a	list contents of current directory including hidden files	
ls -lart	long, include hidden, ,	
ls -d*/	list directories	
cd ~	jump to users home	
cd	jump to last directory	
cd /	jump to root home directory	
cd -	previous working directory	
cd//	back up two levels	

### Searching

locate [name of file]	searches system & locates that directory
findname [9414811_497- 94.pdf]	search in current directory for file name
find /home -name *.jpg	search file type in listed directory
Using GREP	grep searches for patterns in files
grep -r	
command   grep	searches the output of a command

Searching & Sorting		
which i.e.	which command identifies the stored location of a	
which Is	command	
type -a	displays directory location of command	
-t	sort by time	
-r	sort by reverse order	

## Linux Command Sheet Cheat Sheet by Mary F. Smith (boogie) via cheatography.com/86236/cs/20137/

[]       Any one specified character       Issue:       wget command not found         [^]       I Any one specified character       Resolution:       sudo apt-get ins         *       I Zero or more of the previous character       Issue:       cannot access repositories         *       If first character in the pattern, then pattern must be at beginning of the line to match, otherwise just a literal \$       Resolution:       manually add site via nano /etc/apt/sources.it         \$       [If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal \$       sudo apt-get install ufw       install firewall application         *       [One or more of the previous pattern       Extended Expressions       sudo ufw allow 'Nginx         allow application to pass throw         *       [One or more of the previous pattern       sudo ufw status         check firewall         ?       [The preceding pattern is optional       sudo ufw enable         enable firewall         {}       [Alternation - a logical "or"       sudo ufw allow 22         allow port number to pass         ()       [Used to create groups       Anchor Characters       sudo ufw reset         reset firewall         *       [ single quotes "protects" the word term       [ add">       [ add ">         ''       [ * means the first place       i.e. cat food.txt > newf	Searchir	ng & Sorting (cont)		Troubleshooti	ng		
[]         Ary one specified character       issue:       wget command not found         [^]         Not the one specified character       sudo apt-get inst         *         Zero or more of the previous character       issue:       cannot access repositories         *         If first character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal *       issue:       cannot access repositories         *         If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal *       resolution:       manually add site via nano /etc/apt/sources.li         *         One or more of the previous pattern       sudo apt-get install ufw       install frewall application         ?         The preceding pattern is optional       sudo ufw status         check firewall         ?         The preceding pattern is optional       sudo ufw status         check firewall         ?         Alternation - a logical *or*       sudo ufw anable         allow apt number to pass         ?         Veed to create groups       sudo ufw reaset         reset firewall         ?         Single quotes *protects" the word       i.e.       cat food.bt > newfood         *         within a search, this character       are utilized in scripting       are utilized in scripting         .         in a search,		Regul	ar Expressions	Issue:	usermod co	mmand n	ot found
[^]       [Not the one specified character       sudo apt-get install         *       [Zero or more of the previous character       [Issue: cannot access repositories         *       [If first character in the pattern, then pattern must be at beginning of the line to match, otherwise just a literal *       [Resolution: manually add site via nano /etc/apt/sources.li         *       [If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal *       [Resolution: manually add site via nano /etc/apt/sources.li         *       [One or more of the previous pattern       [sudo apt-get install ufw install firewall application         *       [One or more of the previous pattern       [sudo ufw status in - a logical "or"         ?       [The preceding pattern is optional       [sudo ufw dilow 'Nginx in each the pattern is optional         ?       [Specify minimum, maximum or exact matches of the previous pattern       [sudo ufw dilow 22 in each firewall application to pass throut in each of the rewall         ?       [Alternation - a logical "or"       [sudo ufw enable in e		Any one single character		Resolution:			use su - instead of su roo
<ul> <li>Zero or more of the previous character</li> <li>If first character in the pattern, then pattern must be at beginning of the line to match, otherwise just a literal ^</li> <li>If last character in the pattern, then pattern must be at beginning of the line to match, otherwise just a literal ^</li> <li>If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal ^</li> <li>If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal ^</li> <li>If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal ^</li> <li>If last character in the pattern, then pattern must be at the end of the previous pattern</li> <li>Iche or more of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous pattern</li> <li>Ispecify minimum, maximum or exact matches of the previous patt</li></ul>	[]	Any one specified character		Issue:	wget comm	and not fo	und
A       If first character in the pattern, then pattern must be at beginning of the line to match, otherwise just a literal ^       Resolution: manually add site via nano /etc/apt/sources.literate in the pattern, then pattern must be at the end of the line to match, otherwise just a literal ^         \$       If first character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal ^         *       If or or more of the previous pattern       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pass throw is usd our wallow 'Nginx       I allow application to pas	[^ ]	Not the one specified character		Resolution:			sudo apt-get install wge
beginning of the line to match, otherwise just a literal ^         \$       If last character in the pattern, then pattern must be at the end of the line to match, otherwise just a literal \$         Extended Expressions       Extended Expressions         *       I One or more of the previous pattern         ?       I The preceding pattern is optional         ?       I Specify minimum, maximum or exact matches of the previous pattern         ?       I Specify minimum, maximum or exact matches of the previous pattern         ?       I Alternation - a logical "or"         ?       I Store of the previous pattern         ?       I Specify minimum, maximum or exact matches of the previous pattern         ?       I Store of the previous pattern         ?       I Store of the previous pattern         ?       I Specify minimum, maximum or exact matches of the previous pattern         ?       I Store of the previous pattern         ?       I Alternation - a logical "or"         ?       I Anchor Characters         search       I single quotes "protects" the word         term'       'search         ?       I ma search, this charact	*	Zero or more of the previous character		Issue:	cannot acce	ess reposi	tories
In the boundation in the place in the p	٨			Resolution:	manually ac	ld site via	nano /etc/apt/sources.list
+         One or more of the previous pattern       firewall         ?         The preceding pattern is optional       sudo ufw status         check firewall status         ?         Specify minimum, maximum or exact matches of the previous pattern       sudo ufw disable         disable firewall         !         Alternation - a logical "or"       sudo ufw allow 22         allow port number to pass         ?         Sugo ufw allow 22         allow port number to pass         ?         Single quotes "protects" the word       sudo ufw reset         reset firewall         ?         A means the first place       i.e. cat food.txt > newfood         search         \$ means the last place       i.e. cat food.txt > newfood         'search         \$ means the last place       Functions         'search         \$ means the last place       reset functions         'search         \$ means the last place       functions -         'i         match the blocked in character       rate typically utilized in scripting         'a re trilized to execute multiple commands       function_name ()         'i         in a search, this character = does not       >         echo [D-P]*       in a search, this character = does not       >         echo 27????*s       chot 21 tinus Essentials       means [3 types of ] <td>\$</td> <td></td> <td></td> <td></td> <td>nstall ufw</td> <td>  install</td> <td>firewall application</td>	\$				nstall ufw	install	firewall application
integendence of the preceding pattern is optional       sudo ufw status       check firewall status         integendence       isable firewall       sudo ufw status       check firewall status         integendence       isable firewall       sudo ufw disable       lenable firewall         integendence       integendence       isudo ufw disable       lenable firewall         integendence       integendence       sudo ufw disable       lenable firewall         integendence       sudo ufw allow 22       lallow port number to pass         isudo ufw reset       integendence       integendence         integendence       integendence       integendence       integendence <t< td=""><td></td><td>Extende</td><td>ed Expressions</td><td>sudo ufw allow</td><td>w 'Nginx</td><td>  allow a</td><td>application to pass through</td></t<>		Extende	ed Expressions	sudo ufw allow	w 'Nginx	allow a	application to pass through
{}       Specify minimum, maximum or exact matches of the previous pattern       sudo ufw disable       disable firewall         1       [Alternation - a logical "or"       sudo ufw enable       enable firewall         ()       [Used to create groups       sudo ufw allow 22       [allow port number to pass]         'search       [single quotes "protects" the word       sudo ufw reset       [reset firewall         'search       [single quotes "protects" the word       [add ">"       [add ">"         'search       [single quotes "protects" the word       [add ">"         'search       [smeans the first place       i.e.       cat food.txt > newfood         'search       [smeans the last place       functions -         'search       [smeans the last place       Functions -       are typically utilized in scripting         'search       [sin a search, this character acts as a wildcard       function_name ()       {         ! in a search, this character = does not       oommands       }       }       >         echo (D-P)*       [there are [3] types of squares       Section [5] Linus Essentials quotes       ?	+	One or more of the previous pattern		HTTP'		firewall	
1)       Payons in manual, manual, manual, or exact matched of its previous pattern       sudo ufw enable         enable firewall         1         Alternation - a logical "or"       sudo ufw enable         enable firewall         1         Alternation - a logical "or"       sudo ufw enable         enable firewall         1         Used to create groups       sudo ufw enable         enable firewall         1       Used to create groups       Anchor Characters         1         ^ means the first place       i.e.       cat food.txt > newfood         search         ^ means the last place       i.e.       cat food.txt > newfood         1            match the blocked in character       i.e.       cat food.txt > newfood         'search         \$ means the last place       Functions -       i         if in a search, this character acts as a wildcard       function_name ()       i         'i in a search, this character acts as a wildcard       function_name ()       commands       j         i in a search, this character = does not       j       commands       j       j         echo (D-P)*       i ne asearch, this character = does not       j       commands       j       j         echo 07x?**       echo 07x       There are [3] types of       Section [5] Linus Essentials quotes </td <td>?</td> <td>  The preceding pattern is optional</td> <td></td> <td>sudo ufw statu</td> <td>JS</td> <td>  check</td> <td>firewall status</td>	?	The preceding pattern is optional		sudo ufw statu	JS	check	firewall status
Image: Instrume the last place       Image: Instrume the last place         Image:	{}	Specify minimum, maximum or exact match	hes of the	sudo ufw disa	ble	disable	e firewall
()         Used to create groups       sudo ufw reset         reset firewall         'search         single quotes "protects" the word       Redirection         term'       ^^^<		previous pattern		sudo ufw enable   er		enable	firewall
Anchor Characters         'search       single quotes "protects" the word       Redirect the output of a command       add ">"         '^        ^ means the first place       i.e.       cat food.txt > newfood         search        ^ means the first place       i.e.       cat food.txt > newfood         search        \$ means the last place         use ">>" to overwrite         term \$''       []       match the blocked in character       are typically utilized in scripting         '               are utilized to execute multiple commands       function_name ()         '         in a search, this character acts as a wildcard       function_name ()         !       in a search, this character indicates other letters/numbers       j         echo [D-P]*       commands		Alternation - a logical "or"		sudo ufw allow 22		allow port number to pass	
Redirection         term'       Redirect the output of a command   add ">"         '^<	()	Used to create groups		sudo ufw rese	et	reset f	irewall
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term \$'       Functions -         []       [] match the blocked in character         .       []         .       I         *       I within a search, this character acts as a wildcard         ?       I in a search, this character indicates other letters/numbers         !       i in a search, this character = does not         echo [D-P]*       commands         echo ?????*s       Cuotation Marks         echo Drs       There are [3] types of Section [5] Linus Essentials quotes	search	^ means the first place				i.e.	cat food.txt > newfoodfile.txt   use ">>" to overwrite a file
[]       [] match the blocked in character         .       []         .       1         *       [] within a search, this character acts as a wildcard         ?       [] in a search, this character indicates other letters/numbers         !       [] in a search, this character = does not         echo [D-P]*		\$ means the last place					
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<pre>*</pre>		1					
<pre>?   in a search, this character indicates other letters/numbers !   in a search, this character = does not echo [D-P]* echo [ID-P]* echo ?????*s echo ?????*s echo Drs</pre>	*	within a search, this character acts as a wil	dcard				
!       in a search, this character = does not     commands       echo [D-P]*     }       echo ?????*s     Quotation Marks       echo D/ns     There are [3] types of quotes	?	in a search, this character indicates other le	etters/numbers		e ()		
echo [!D-P]*     Quotation Marks       echo ?????*s     There are [3] types of section [5] Linus Essentials       echo Drs     quotes	!	in a search, this character = does not					
Quotation Marks       echo ????*s     There are [3] types of quotes	echo [D-	.P]*		}			
echo D <i>n</i> s quotes	echo [!D	-P]*		Quotation Ma	rks		
" "   double quotes tell the system to ignore specia					types of	Section	[5] Linus Essentials
				" "   double qu	iotes	tell the s	system to ignore special



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characters

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### Quotation Marks (cont)

''   single quotes	the system does not consider it a variable
`` backwards	the system interprests the word in single quotes
quotes	as an execution

each of these marks tells the system the text inside the quotes are to be handled differently



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