

Linux Cheat Sheet

	Navigation	
pwd	Print working directory - where am I?	
cd	change directory	
cd	change to parent directory; up one	
cd -	go back to previous directory	
cd ~bob	go to bob's home directory	
pushd /folder	change directory to folder & remember	
popd	go back to previous directory remembered	
Is	list files in current directory	
Is /folder	list files in /folder directory	
ls -l	long listing shows some metadata	
ls -a	shows all files including hidden	
ls -F	shows basic file types in listing	
ls -R	lists files & folders recursively	
ls -lh	lists file sizes human readable	

Local Info	
date	current time & date
uptime	shows uptime since last boot
hostname	current hostname
echo \$USER	current username
id	current user permissions
uname -a	shows system & kernel
cat	shows information to identify the
/etc/*{release,	Linux distribution
issue, edition, version}*	
lsb_release -a	possibly shows Linux distribution
w	show all logged in sessions

	File Permissions
stat file	view file metadata
chown bob:bob file	change owner & group of file to bob
chmod +x file	change mode permission of file to add executable to all
chmod 600 file	change file permissions to read- write of user, none for rest

Help	
command	help after a command typically shows
help	basic usage
apropos	shows commands relating to given
keyword	keyword
whatis	shows one-liner description from
command	command manual
man	shows command manual if it exists
command	
info	shows command info manual if it exists
command	

Search Files	
locate filename	locate file named filename
find / -name filename	find files with the name filename throughout the entire filesystem
find /etc - iname "*word*"	find files with the case-insensitive name word in the /etc directory and recurse
find / -type d -name foo	find directories named foo
grep word file	search for word in file
grep -ri word /folder	search for case-insensitive word recursively in all files in /folder
which command	show default path for command
whereis command	show all found paths for command

File Manipulation	
touch file	create new file called file
mkdir folder	create new folder called folder
cp from to	copy file from to file to
mv from to	move / rename file from, to to
In -s from to	create link / shortcut from to
In from to	create hard link from to
rm file	remove / delete file
rm -rf folder	remove folder recursively



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File Permissions	
rwx rwx rwx	[r] read, [w] write, [x] execute
U G O	User, Group, Other
Calculate numerical view by adding numbers	
4	read
2	write
1	execute
Special permissions prepended follow similar pattern	
4	SUID
2	GUID
1	Sticky
Extended permissions	
Isattr file	list extended attributes of file
chattr +i file	set immutable bit on file
getfacle file	view file access list of file
setfacl -m	modify file access list giving bob
u:bob:r file	read access to file

Process Commands	
ps -ef	view all running processes
top	dynamic view of processes
echo \$\$	view current PID
kill PID	kill a process by Process ID
killall process	kill all processes by name
CTRL c	stop current process
CTRL z	pause processes & push to
	background
jobs	view current background jobs
bg JOB	restart background process
fg JOB	bring job back to foreground

Network Commands	
ifconfig -a	show all interface configurations
ip add	shows all interface information
ping -c3 host	sends 3 ping packets to host
netstat -auntp	shows current socket info
ss -auntp	shows current socket info
column -t	

Hardware	
df -h	show disk usage
du -sh	shows directory space usage
mount	shows currently mounted folders to
column -t	the file systems
free	shows memory & swap usage
Isbpci	shows all PCI devices
lsbusb -v	shows all USB devices verbosely
dmidecode	show BIOS info

View Files	
cat file	view contents of file
cat file file2 >	concatenate file & file2 into new
file3	file3
less file	view file in pager buffer called less
more file	view file in pager buffer more
tail file	view last ten lines of file
tail -25 file	view last twenty-five lines of file
head file	view first ten lines of file
wc -l file	view number of lines of file

