Unix/Linux Command Reference

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File Commands	System Info
ls - directory listing	date – show the current date and time
ls -al – formatted listing with hidden files	cal - show this month's calendar
cd <i>dir</i> - change directory to <i>dir</i>	uptime – show current uptime
cd – change to home	w – display who is online
pwd – show current directory	whoami - who you are logged in as
mkdir <i>dir</i> – create a directory <i>dir</i>	finger user - display information about user
rm file - delete file	uname -a - show kernel information
rm -r dir - delete directory dir	cat /proc/cpuinfo - cpu information
rm -f file - force remove file	cat /proc/meminfo - memory information
<pre>rm -rf dir - force remove directory dir *</pre>	man <i>command</i> – show the manual for <i>command</i>
cp file1 file2 - copy file1 to file2	df – show disk usage
cp -r <i>dir1 dir2</i> – copy <i>dir1</i> to <i>dir2</i> ; create <i>dir2</i> if it	du – show directory space usage
doesn't exist	free - show memory and swap usage
mv file1 file2 - rename or move file1 to file2	whereis <i>app</i> – show possible locations of <i>app</i>
if <i>file2</i> is an existing directory, moves <i>file1</i> into	which app - show which app will be run by default
directory file2	
In -s file link - create symbolic link link to file	Compression
touch file - create or update file	tar cf file.tar files - create a tar named
- ,	file.tar containing files
cat > file - places standard input into file	tar xf file.tar - extract the files from file.tar
more file - output the contents of file	tar czf file.tar.gz files - create a tar with
head file - output the first 10 lines of file	Gzip compression
tail file - output the last 10 lines of file	
tail -f <i>file</i> - output the contents of <i>file</i> as it	tar xzf file.tar.gz - extract a tar using Gzip
grows, starting with the last 10 lines	tar cjf file.tar.bz2 - create a tar with Bzip2
Process Management	compression
	tar xjf file.tar.bz2 - extract a tar using Bzip2
ps – display your currently active processes	gzip file - compresses file and renames it to
top – display all running processes	file.gz
kill <i>pid</i> - kill process id <i>pid</i>	gzip -d file.gz - decompresses file.gz back to
killall proc - kill all processes named proc *	file
bg – lists stopped or background jobs; resume a	
stopped job in the background	Network
fg – brings the most recent job to foreground	ping <i>host</i> - ping <i>host</i> and output results
fg <i>n</i> – brings job <i>n</i> to the foreground	whois domain - get whois information for domain
File Permissions	dig domain – get DNS information for domain
chmod octal file - change the permissions of file	dig -x host - reverse lookup host
	wget file - download file
to <i>octal</i> , which can be found separately for user,	wget -c file - continue a stopped download
group, and world by adding:	
• 4 - read (r)	Installation
• 2 - write (w)	Install from source:
• 1 - execute (x)	./configure
Examples:	make
chmod 777 - read, write, execute for all	make install
chmod 755 – rwx for owner, rx for group and world	dpkg -i <i>pkg.deb</i> - install a package (Debian)
For more options, see man chmod .	rpm -Uvh <i>pkg.rpm</i> - install a package (RPM)
SSH	
	Shortcuts
ssh user@host - connect to host as user	Ctrl+C - halts the current command
ssh -p port user@host - connect to host on port	Ctrl+Z – stops the current command, resume with
port as user	fg in the foreground or bg in the background
<pre>ssh-copy-id user@host - add your key to host for</pre>	Ctrl+D - log out of current session, similar to exit
user to enable a keyed or passwordless login	Ctrl+W – erases one word in the current line
Searching	Ctrl+U - erases the whole line
grep pattern files – search for pattern in files	
grep -r pattern dir - search recursively for	Ctrl+R - type to bring up a recent command
	!! - repeats the last command
pattern in dir	exit - log out of current session
command grep pattern - search for pattern in the	
output of <i>command</i>	
locate file - find all instances of file	* use with extreme caution.

The Nano text editor

\$ **nano** *file_name* (where *file_name* is either an existing file in the current directory, or a new one that you would like to create.

The command mode of operation combines the control key (indicated on the screen by the symbol ^) together with another character on the keyboard. The arrow keys move the cursor as expected, and one inserts text at the cursor by simply typing characters.

- Moving the cursor:
 - All the arrow keys move the cursor as expected
 - **ctrl-a** go to the beginning of the current line
 - **ctrl-e** go to the end of the current line
 - **ctrl-v** scroll down (forward) to the next page of text
 - **ctrl-y** scroll up (backward) to the previous page of text
 - **ctrl-w** *string* **return** search forward to the first occurrence of *string* (ignoring case)
 - **ctrl-w return** search forward to the next occurrence of the same *string*
- Cut (delete and store in the buffer), and paste (undelete) operations:
 - ctrl-d delete the character under the cursor
 - **delete** (delete key) delete the character before the cursor
 - **ctrl-k** delete (kill) the entire line (or the selected block of text) at the cursor and save it in the buffer
 - **ctrl-u** undelete (paste) the entire line (or the selected block of text) at the cursor
 - ctrl-^ turn on selection for highlighting a block of text using the cursor. Note that repeating ctrl-^ prior to any editing action will undo the selection

Note: **ctrl-k** will save the recent set of deletions in a buffer, and these lines may be reinserted at the current cursor location using **ctrl-u**. Hence simulating cut and paste:

- Repeatedly use **ctrl-k** until all the text you want to move has been deleted.
- Move to the line where you want to insert the text and use **ctrl-u**.
- Save buffer and exit pico:
 - **ctrl-o** *file_name* **return** save the buffer to *file_name* without exiting (*do this often to keep your editing changes saved to the file*)
 - **ctrl-x** exit **pico/nano** (prompts you to save if buffer has not been saved)
- Information:
 - **ctrl-c** report the current cursor position
 - **ctrl**-**g** display the pico help