

Linux Command Summary

Directory Navigation and Listing	
<code>cd</code>	change to home directory
<code>cd ..</code>	go up to parent directory
<code>cd subdir</code>	change to subdirectory <code>subdir</code>
<code>ls</code>	list content of current directory
<code>ls -l</code>	list content with details
<code>ls -a</code>	list content including hidden files

File Commands	
<code>cp src dest</code>	copy <code>src</code> file to <code>dest</code> file
<code>cp -r sDir dDir</code>	copy "recursively" <code>sDir</code> directory to <code>dDir</code> directory (copies subdirectories too)
<code>mv src dest</code>	move - renames <code>src</code> as <code>dest</code>
<code>rm fileName</code>	removes file <code>fileName</code>
<code>rm -r dirName</code>	removes directory recursively
<code>rmdir dirName</code>	removes empty <code>dirName</code>
<code>mkdir dirName</code>	makes directory called <code>dirName</code>
<code>chmod 750 file1</code>	change permission of <code>file1</code> by specifying a three digit octal # where digits are owner, group, world each octal digit in binary are: read (4), write (2), execute (1)
<code>cat file1</code>	display <code>file1</code> to screen
<code>less file1</code>	display <code>file1</code> with pagination (space - next page, q-exit, ↑, ↓- keys)

Process Management	
<code>ps</code>	List processes with pid
<code>top</code>	Shows the real-time processes
<code>kill -9 pid</code>	Kills the process with <code>pid</code> #

Keyboard Shortcuts	
<code><tab></code>	Auto-complete partial file name
<code><Ctrl>+c</code>	Kill current command/program
<code><Ctrl>+z</code>	Sleep current program
<code><↑></code>	Recall previous command(s)
<code><Ctrl>+d</code>	log-off and close terminal
<code>exit</code>	

"Programming" Tools	
<code>nano file.c</code>	Simple text-editor
<code>vi file.c</code>	Better C/C++ editor
<code>gcc file.c</code>	C compiler: compile to <code>a.out</code> Options: <code>-o exeFile</code> compile to <code>exeFile</code> instead
<code>./a.out</code>	execute program in current directory (".") called <code>a.out</code>
<code>time exeFile</code>	run <code>exeFile</code> and print timing when done
<code>script out.txt</code>	capture output to file <code>out.txt</code> <code><Ctrl>+d</code> to end

Connect via ssh to a machine:

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$> ssh user_name@server_name
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