

Linux Command Summary

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

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

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

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

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

Connect via ssh to a machine:

```
$> ssh user_name@server_name
```