

BCBGSO Basic UNIX Workshop Reference Sheet

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Command	What it does
ssh <your-netid>@training.las.iastate.edu	Logs into the server through SecureShell
bash	Open Bash Shell
git clone https://github.com/cmmann/basic-unix-workshop.git	Clone the workshop files to your workspace
Tips and Tricks	
[Up] Arrow	Previous Command
[Down] Arrow	Next Command
[Ctrl]+[C]	Stop command execution
[Tab]	autofill name
history	display history
man <commandname>	Display the manual and options for <commandname>
Lesson 1: Navigation	
pwd	Display present working directory path
ls	list files and folders in present working directory
ls -a	list all files and folders, including hidden
ls -l	list long format files and folders - extra info displayed
ls -R	list files recursively - including files buried in folders
ls -S	list files ordered by size
cd <directory-name>	change directory to directory name
cd ..	change directory up one level
cd ~	change directory to home directory
cd -	change back to previous directory
Lesson 2:	
mkdir <directory-name>	Create a new directory called <directory-name>
mkdir -p </path/to/new/directory/>	Create all directories in path to <directory>
touch <filename>	Create a file called <filename> if <filename> doesn't exist
rm <filename>	Delete <filename>
rm -r <directory-name>	Delete <directory-name> and all its contents
rm *	Delete everything in the current directory
Lesson 3:	

cp <source-file> <destination/name>	copies <source-file> to <destination> and names the new copy <name>
mv <source-file> <destination/name>	moves <source-file> to <destination> and names it <name>
mv <source-file> <new-name>	renames <source-file> to <new-name>
mv -r <source-directory> <destination/folder/>	moves <source-directory> and all its contents to <folder>
cat <filename>	prints out the contents of filename to the terminal
head -n <filename>	prints out the first n lines of <filename>; if n is unspecified, default is 10
tail -n <filename>	prints out the last n lines of <filename>; if n is unspecified, default is 10
less <filename>	open' <filename> in console - allows you to scroll
q	quit out of the less display
bash path/to/scriptname.sh	Run <scriptname.sh>
Lesson 4:	
find <search-space> <criteria>	Search <search-space> for things matching <criteria>
find <search-space> -iname *.txt	Search <search-space> for all files/folders ending in '.txt'
find <search-space> -iname *text* -type -f	Search <search-space> for filenames containing 'text'
find . -iname *text* -type -d	Search the current directory for folder names containing 'text'
chmod <permission> <filename>	Set <filename> permissions to <permission>
chmod <group> +<permission> <filename>	Set <filename> permissions for <group> to <permission>
4 OR +r	Set permission: Read
2 OR +w	Set permission: Write
1 OR +x	Set permission: Execute
4+2= 6 OR +rw	Set permission: Read/Write
4+2+1= 7 OR +rwx	Set permission: Read/Write/Execute
u +<permission>	Set permission for: User
g +<permission>	Set permission for: Group
o +<permission>	Set permission for: Others/Global
a +<permission> OR +<permission>	Set permission: All

Miscellaneous:

. Current directory

/ all directories

.. Directory one level above you

* any