Lab 5: The Linux Labs - Standard Linux Commands

CSI4103 – Web Application Software Design

Faculty of Engineering – University of Ottawa

Objective:

Understand and practice how to use linux command line instructions. This is useful when working on server backends through a terminal window (e.g. using telnet or an SSH connection). This part of the lab continues on another time with a review of some more basic linux commands that are needed when navigating and using the file system from a linux command line

Instructions:

Using? to replace a single character

1.	mkdir	child1 child2 child3 sandbox				
2.	mv child? sandbox					
	o Are there children in the sandbox					
3.	touch	f1 f2 f3 f10 f20 f30 f11 f12 f13 f33 fffff				
4.	mkdir	dir1 dir2 dir3				
5.	cp f?0 dir1					
	0	Which files have been copied?				
	0	How do you know?				
6.	cp f?0 dir2					
	0	Which files have been copied?				
7.	cp ?	????? dir3				
	0	Which files have been copied?				
8.	cp f?	3 dir3				
	0	Which files have been copied?				
9.	rmdir	sandbox				
	0	Did the command work? Why?				
10.	rmdir	-r sandbox dir1 dir2 dir3				
	0	Did the command work? Why?				

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• ls	
rm *3	
What files have been deleted?	
rm f*1	
What files have been deleted?	
rm f*	
What files have been deleted?	
Using Wildcards: Using [] to replace single characters.	
touch hat hot heat hut hit	
ls h[ao]t	
Record the output?	
ls h[aeiou]t	
Record the output?	
ls h[aeiou]*	
Record the output?	
Which additional file is displayed?	
o Why?	
rm h*t	
touch had hdb hdc hdd	
ls hd[abc]	
Record the output?	
ls hd[a-c]	
Record the output?	
ls hd[a-d]	
Record the output?	
touch hda1 hdb2 hdc3 hdd4	
ls hd[b-d][1-3]	
Record the output?	
Why did this command display what is did?	

• rm hd[a-d][1-4]

Using Redirection

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- cat > myfile
 - o The cursor waits for text to be entered. Type "Hello World". Press enter and then CTRL-D
- cat myfile
- cat > myfile
 - o Type your name. Press enter and then CTRL-D.
- cat myfile
 - o What do you notice? _____

Appending

Appending to an existing file

- cat >> myfile
 - o The cursor waits for text to be entered. Type "Hello Canada". Press enter and then CTRL-D
- cat myfile
 - o What do you notice? _____

Concatenating text files

- cat > f1
 - o Enter the following text: Hello everybody
- cat > f2
 - o Enter the following text: My name is [fill in your name]
- cat > f3
 - o Enter the following text; Goodbye
- cat f1 f2 f3 > f4
- cat f4
 - o What do you notice?_____
- cat f1 f2 f3
 - o What do you notice? _____

Using pipelines

- ls -l /bin
- ls -l /bin } less
 - o Use the page-up and page-down down keys to navigate. Press "q" to quit.

	o What do you notice?			
•	cp /etc/fstab .			
	o What does this do?			
•	cat fstab			
•	cat fstab grep ext			
•	cat fstab grep "/dev"			
•	cat fstab grep "/dev" grep "ext"			
•	ps aexf			
•	ps aexf grep -I bash			
•	set grep bin			
Li	sting aliases.			
•	alias myls='ls -al'			
	What does this do? Use the MAN pages			
•	alias Passadaha autust.			
	Record the output:			
•	ls			
•	myls			
Por	What is different? moving an alias.			
nei	noving an anas.			
•	unalias myls			
•	alias			
•	myls			
	o Record the error message:			
Us	sing brace expansion			
•	Cd			
•	Mkdir -p backup/{old,new}/labs{1,2,3},lecture{1,2,3}			
	What does this do?			
•	ls -1 backup			
	o Record the output:			
•	Cd backup			
•	Ls -1 old new			
	o Record the output:			

•	<pre>Touch new/lecture{1,2,3}/{notes,grades,demos}</pre>
•	Cd new
•	Clear
•	Ls -1 lecture
	o Record the output: