LFCS_Module1_EssentialCommand Cheat Sheet

by nhatlong0605 via cheatography.com/68292/cs/17200/

MAN page

man -a useradd	useradd command in all sections
man -k passwd | grep 8	searching passwd keyword in man page from section 8
man 8 useradd	showing useradd command from section 8
man man	showing man command help

Hard links, soft links, finding files

ln /etc/hosts myhosts	create hard links myhosts to /etc/hosts
ln -s /etc/hosts/ myhosts	create symbolic links myhosts
find /etc -name hosts	Find in /etc files with exact name "hosts"
find /etc -name "*hosts*"	Find in /etc files with "-hosts" in its name
find /etc -name "*hosts*" -exec cp {} /etc/test/ \;	Find in /etc file with "-hosts" in name and copy it to /etc/test
find /etc -size +100K 2>/-dev/null	File in /etc files over 100Kb and send error to /dev/null
grep student /etc/* 2>/dev/null	Find in /etc files with "-student" in content
grep -l student /etc/* 2>/dev/null	List only the directories
find /etc -exec grep -l student {} \; 2>/dev/null; cp {} /find/contents/ \; 2>/dev/null	Find all directories and sub with files containing student in content and copy the result to /find/content

Administrative Tasks

visudo	Edit *sudo* configuration file
chvt t	Change virtual terminal 5
/etc/s-ecu-retty	Secure console file, delete 1 will no longer have access to that console

Input Output Redirection

>	overwrite
<	send into command
>>	append
<<	append into command or file
2> /dev/null	redirect error to null file

Text Processing Utilities

cut -d : -f 3 /etc/passwd	Display third column using ":" delimiter in /etc/passwd
cut -d : -f 1 /etc/passwd | sort | tr [:lowercase:] [:uppercase:]	Display all username in /etc/passwd and translate all lowercase to uppercase
awk -F : ' { print $1 } ' /etc/passwd	Display first column using ":" field delimiter (-F)
sed -i -e '10d' grepfile1	Delete (10d) intera-ctively (-i) using edit option(-e) the tenth line

Archive, Backup, Compress, Uncompress

tar cvf name.tar /dir	Create name.tar file from /dir
tar -xvfz archive.t-ar.gzip -C /target/dir	Extract archive.t-ar.gzip to /tar/dir

Create, Delete, Copy, Move

ls -al /etc	list all files (-a) with all info (-l) in /etc
ls -r	list sub-directories (-r)
cp -R /etc/hosts ~/files/	copy all (-R) in hosts to home/files/
mkdir -p /etc/photos	make directory etc and sub-directory photos
mv /tmp/test ~	move test to home directory
rm -rf	remove recursively and ignore non existent file

head, tail,

head -n 5 /etc/passwd	Display first 5 lines in /etc/passwd
tail -f **/var/log/-messages**	Display the recent system messages

Regular expressions

note	Use with sed, vim, awk, grep		
^	Start of a string	^abc	abc, abcdef,abc 123
$	End of a string	abc$	abc,123ab-c,fdeabc
|	Alteration	1|8	1,8
{...}	Exact quanity	ab{2}c	abbc
[...]	Explicit set of character to match	a[bB]c	abc,aBc
*	Null or more of the preceding character	ab*c	ac,abc,abb bbc
(...)	Group of character	(123) {3}	123123123
+	One or more of predceding character	ab+c	abc,abbbbc
?	Null or 1 of the preceding character	ab?c	abc, ac
.	Any single character		
\s	Whitespaces	.*	Zero or more of any character

By **nhatlong0605**

cheatography.com/nhatlong0605/

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