

LINUX CLASS-5

USER COMMANDS:

To see list of users : `cat /etc/passwd`

To create a user : `useradd username`

To switch to another user : `su - username`

To set a password to the user : `passwd username`

Note: Whenever we create any user, then one folder will gets created in /home directory

To create a user without directory : `useradd -M username`

To set expiry date to an user : `useradd -e yyyy-mm-dd username`

To get user expiry details : `chage -l username`

To delete a user : `userdel username`

To delete a user with directory : `userdel -r username`

GROUP COMMANDS:

To see list of groups in a system : `cat /etc/group`

Note: whenever we create any user, then group will gets created automatically

and when we delete a user, then group also will gets deleted automatically

if you want to create only group by your own the the command is `groupadd groupname`

To create a group : `groupadd groupname`

To delete a group : `groupdel groupname`

To add a user in a group : `usermod -a -G groupname username`

PERMISSION COMMANDS:

CHANGING OWNERS OF A FILE

To change user of a file : `chown username filename`

To change group of a file : `chgrp groupname filename`

To change user & group at a time : `chown username:groupname filename`

To change user & group at a time to multiple files : `chown user:group file1 file2 file3`

To change user & group at a time to all files : `chown user:group *`

To change user& group of a folder : `chown user:group foldername`

To change user & group of a folder along with files : `chown -R user:group foldername`

To change user & group of a files which are present in folder : `chown user:group foldername/*`

TO CHANGE PERMISSIONS OF A FILE :

r ----> read = 4

w ----> write = 2

x ----> execute = 1

hyphen (-) -----> nothing = 0

To change permissions of a file : `chmod 777 filename`

To change permissions of a multiple files : `chmod 542 f1 f2 f3`

To change permissions of a all files : `chmod 123 *`

To change permissions of a folder : `chmod 561 folder`

To change permissions of a folders along with files : `chmod -R 777 foldername`

To change permissions of a files inside the folder : `chmod 345 foldername/*`

SEARCH COMMANDS:

GREP command: Global Regular Expression Print

This command is used to search for a word in a file.

Syntax: grep “word” filename

To search for a word in a file : grep “word” filename

To get the word along with line numbers : grep -n “word” filename

To search with case-sensitive : grep -i -n “word” filename

To get no of occurrences : grep -i -c “word” filename

To search for multiple words in a single file :grep -i -n -e “word1” -e “word2” -e “word3” filename

To search for single word in a multiple files :grep -i -n -e “word1” file1 file2

To search for multiple words in a multiple files :grep -i -n -e “word1” -e “word2” -e “word3” file1 file2 file3

To search for a file in linux machine we can two commands in multiple ways

- 1. Find command:
- 2. Locate command:

FIND COMMAND : (find path -type):

To search for a file using name : find . -name filename

find . -name file	used to find a file in current directory
find /proc/ -name filename	used to find a file in proc directory
find . -type d -name folder	used to find a folder in current directory
find . -type f -name <file1.txt>	used to find a file in current directory
find . -type f -perm 777	Finds all the files whose permissions are 777 in the current directory

<code>find . -type f ! -perm 777</code>	Finds all the files whose permissions are NOT 777 in the current directory
<code>find . -perm /u=r</code>	Finds all Read-Only files in the current directory
<code>find . -perm /a=x</code>	Finds all executables files in the current directory
<code>find . -perm /a=w</code>	Finds all writable files in the current directory
<code>find . -type f -empty</code>	Find all Empty Files in the current directory
<code>find . -type d -empty</code>	Find all Empty directories in the current directory
<code>find / -user <username></code>	Finds all the files specific user owned in / directory
<code>find / -group groupname</code>	Finds all the files specific group owned in / directory
<code>find . -mtime 10</code>	Finds all the files which are modified 10 days back in current folder
<code>find / -atime 100</code>	Finds all the files which are accessed 10 days back in current folder
<code>find . -cmin -60</code>	Finds all the files which are changed in the last 1 hour in current directory
<code>find . -mmin -60</code>	Finds all the files which are modified in the last 1 hour in current directory
<code>find . -amin -60</code>	Finds all the files which are accessed in the last 1 hour in current directory
<code>find . -size 1k</code>	Finds all 1KB files in current directory
<code>find / -size +50M -size -100M</code>	Finds all the files which are greater than 50MB and less than 100MB in / directory

locate filename	Used to locate a word in linux (by default it will not locate, we need update db every time)
sudo updatedb	used to update linux db
locate -i filename	used to search for a file in case sensitive
locate -n 5 "*.txt"	used to search top 5 text files
locate -c aws*	used to count no of aws files present in server