LINUX - Lab 1



7 APRIL 2023 LINUX – DEVOPS KHALED DAWOUD AHMED IBRAHIM

1. Install CentOS /RHEL

Already have Linux - CentOs 8

2. What is the difference between cat and more command?

The difference between Cat, less, more is in the display way of the file's content:

Cat: display the entire content of a file at once and is useful for small files

More: display a content one screenful at a time

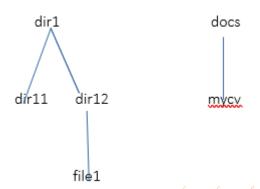
Less: same as more but allow you to scroll and search in the file

3. What is the difference between rm and rmdir using man?

Rm: is remove files

Rmdir: is to remove empty directories (if there is no recursive option)

4. Create the following hierarchy under your home directory



a. Remove dir11 in one-step. What did you notice? And how did you overcome that?

```
34 directories, 34 files
[kdawoud@localhost ~]$ rmdir dir1/dir11
[kdawoud@localhost ~]$ ls
Desktop dir1 docs Documents Downloads lodaa Music Pictures Public Study Templates test1 Videos
[kdawoud@localhost ~]$ ls dir1
dir12
[kdawoud@localhost ~]$ [
```

b. Then remove dir12 using rmdir –p command. State what happened to the hierarchy (Note: you are in your home directory).

Won't be able to remove the directories as it is not empty, we have to use recursive option to delete all subsidiaries.

c. The output of the command pwd was /home/user. Write the absolute and relative path for the file mycv

/home/kdawoud/docs/mycv

5. Copy the /etc/passwd file to your home directory making its name is mypasswd.

```
[kdawoud@localhost ~]$ cp /etc/passwd mypasswd
[kdawoud@localhost ~]$ ls
Desktop dir1 docs Documents Downloads lodaa Music mypasswd Pictures Public Study Templates test1 Videos
[kdawoud@localhost ~]$
```

6. Rename this new file to be oldpasswd.

```
[kdawoud@localhost ~]$ mv mypasswd oldpasswd
[kdawoud@localhost ~]$ ls
Desktop dir1 docs Documents Downloads lodaa Music oldpasswd Pictures Public Study Templates test1 Videos
```

7. You are in /usr/bin, list four ways to go to your home directory

- Write cd
- Write cd ~
- Write cd /home/kdawoud
- Write cd ../../home/kdawoud

8. List Linux commands in /usr/bin that start with letter w

9. Display the first 4 lines of /etc/passwd

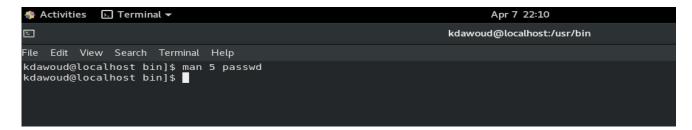
```
[kdawoud@localhost ~]$ head -n4 /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
[kdawoud@localhost ~]$
```

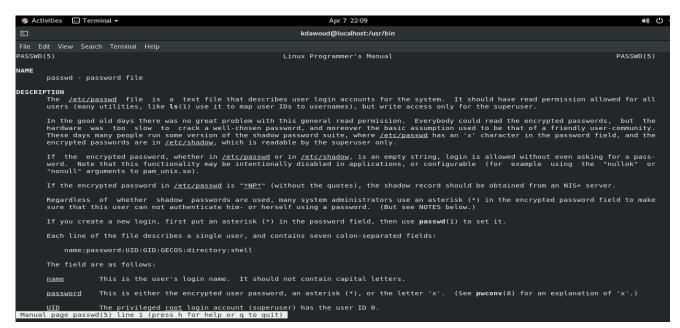
10. Display the last 7 lines of /etc/passwd

```
[kdawoud@localhost ~]$ tail -n4 /etc/passwd
officeboy:x:1004:1004::/home/officeboy:/bin/bash
dataentry:x:1005:1005::/home/dataentry:/bin/bash
accountant:x:1007:1007::/home/accountant:/bin/bash
recruiter:x:1008:1011::/home/recruiter:/bin/bash
[kdawoud@localbost ~]$
```

11. Display the man pages of passwd the command and the file sequentially in one command.

12. Display the man page of the passwd file.





13. Display a list of all the commands that contain the keyword passwd in their man page.

Write "apropse man" or "man -k man"

```
Apr 7 22:15
                                                                                                                          kdawoud@localhost:/usr/bin
File Edit View Search Terminal Help
[kdawoud@localhost bin]$ apropos passwd
                                      - update group passwords in batch mode
hapasswd (8)
hpasswd (8)
                                      - update passwords in batch mode
repussed (0)
repute passwd file entry reentrantly
getpwent_r (3)
repute passwd file entry reentrantly
gpasswd (1)
repute passwd file entry reentrantly
gpasswd (1)
repute passwd file entry reentrantly
gpasswd (1)
repute passwd file entry reentrantly
grub2-mkpasswd-pbkdf2 (1) - Generate a PBKDF2 password hash.
ldappasswd (1)
repute password of an LDAP entry
passwd (1)
                                       - Change group or user password
ppenssl-passwd (1ssl) - compute password hashes
pam_localuser (8) - require users to be listed in /etc/passwd
passwd (1) - update user's authentication tokens
passwd (1)
passwd (5)
                                          password file
passwd2des (3)
                                          RFS password encryption
                                         Helper binary that transfers password hashes from passwd or shadow to opasswd set a user's sasl password
The Samba encrypted password file
compute password hashes
owhistory_helper (8) -
saslpasswd2 (8) -
embpasswd (5)
eslpasswd (1ssl)
encpasswd (1)
ncpasswd (1) - change the VNC password
kdawoud@localhost bin]$ [
```