ASSIGNMENT

SUBJECT: NETWORKING AND SYSTEM ADMINISTRATION LAB

TOPIC: LAB EXCERCISES

SUBMITTED ON: SUBMITTED BY:

17-08-2021 ASHA S

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REGULAR MCA

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- 1. a. Create six files with name of the form songX.mp3
- b. Create six files with name of the form snapX.mp3
- c. Create six files with name of the form

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~

onworks@onworks-Standard-PC-i440FX-PIIX-1996:~

onworks@onworks-Standard-PC-i440FX-PIIX-1996:~

tem (n) 15:18 to onworks@onworks-Standard-PC-i440FX-PIIX-1996:~

touch snap1.mp3 snap2.mp3 snap3.mp3 snap4.mp3 snap4.mp3 snap5.mp3 snap6.mp3 onworks@onworks-Standard-PC-i440FX-PIIX-1996:~

tem (n) 15:18 to onwork
```

2. From your home directory, move the song files into your music subdirectory, the snapshot files into your pictures subdirectory, and the movie files into videos subdirectory.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ mv song1.mp3 song2.mp3 song4.mp3
        song5.mp3 song6.mp3 ./Music/
       onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ ls
                       filim1.mp3 filim5.mp3 Public
filim2.mp3 filim6.mp3 snap1.mp3
       Desktop
                                                                    Templates
      Documents
                                                                    Videos
       Downloads
                       filim3.mp3 Music
       examples.desktop filim4.mp3 Pictures
       onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls -R Music
       Music:
       onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
snap5.mp3 snap6.mp3
nv: target 'snap6.mp3' is not a directory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mv snap1.mp3 snap2.mp3 snap3.mp3
snap4.mp3 snap5.mp3 snap6.mp3 ./Pictures/
        onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls                         -R Pictures
        Pictures:
        onworks@onworks-Standard-PC-i440FX-PIIX-1996:~S
 onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mv filim1.mp3 filim2.mp
 mp3 filim4.mp3 filim5.mp3 filim6.mp3 ./Videos
 onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls -R Videos
 Videos:
               filim2.mp3 filim3.mp3 filim4.mp3 filim5.mp3
```

3. In your home directory, create three subdirectories for organizing your files. Call these directories friends, family, and work. Create all three with one command.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir friends family work onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls

Desktop Downloads family Music Public Templates work

Documents examples.desktop friends Pictures song3.mp3 Videos
```

4. Copy song files to the friends folder and snap files to family folder.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song1.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song2.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song2.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song3.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song3.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song5.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Music/song6.mp3 friends onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap1.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap2.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap3.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap4.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap6.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap6.mp3 family onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp Pictures/snap6.mp3 family
```

5. Attempt to delete both family and friends projects with a single rmdir command

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ rm -r family friends
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates work
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

. 6. Use another command that will succeed in deleting both the family and friends folder.

```
Documents examples.desktop Pictures Templates work onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ rmdir family friends rmdir: failed to remove 'family': No such file or directory rmdir: failed to remove 'friends': No such file or directory
```

7. Redirect a long listing of all home directory files, including hidden, into a file named allfiles.txt. Confirm that the file contains the listing.

```
orks-Standard-PC-i440FX-PIIX-1996:~$ cat allfiles.txt
  total 112
 total 112
drwxr-xr-x 17 onworks onworks 4096 Aug 17 17:34 .
drwxr-xr-x 3 root root 4096 Mai 5 2019 .
--rw-rw-r-- 1 onworks onworks 0 Aug 17 17:34 allfiles.txt
--rw----- 1 onworks onworks 94 Mai 31 2019 .bash_history
--rw-r---- 1 onworks onworks 220 Mai 5 2019 .bash_logout
--rw-r---- 1 onworks onworks 3771 Mai 5 2019 .bash_c
drwx----- 1 onworks onworks 4096 Mai 5 2019 .comple
                                                                                                                                                   5 2019 .cache
5 2019 .compiz
5 2019 .config
5 2019 Desktop
  drwx----- 3 onworks onworks 4096 Mai
drwx----- 14 onworks onworks 4096 Mai
  drwxr-xr-x 2 onworks onworks 4096 Mai
                                          2 onworks onworks 4096 Mai
2 onworks onworks 4096 Mai
                                                                                                                                                               2019 Documents
2019 Downloads
  drwxr-xr-x
  drwxr-xr-x
    - FW- F-- F--
                                             1 onworks onworks 8980 Mai
                                                                                                                                                                2019 examples.desktop
  drwx----- 2 onworks onworks 4096 Mai 5
drwx----- 3 onworks onworks 4096 Aug 30
drwx----- 2 onworks onworks 4096 Mai 5 2019 .gconf
drwx----- 3 onworks onworks 4096 Aug 30 2019 .gnupg
-rw----- 1 onworks onworks 4096 Aug 30 2019 .ICEauthority
drwx----- 3 onworks onworks 4096 Mai 5 2019 .local
drwxr-xr-x 2 onworks onworks 4096 Aug 17 17:22 Music
drwxr-xr-x 2 onworks onworks 4096 Aug 17 17:24 Pictures
-rw-r---- 1 onworks onworks 655 Mai 5 2019 .profile
drwxr-xr-x 2 onworks onworks 4096 Mai 5 2019 Public
-rw-r---- 1 onworks onworks 4096 Mai 5 2019 Public
drwxr-xr-x 2 onworks onworks 4096 Mai 5 2019 Templates
drwxr-xr-x 2 onworks onworks 4096 Mai 5 2019 Templates
drwxr-xr-x 2 onworks onworks 4096 Aug 17 17:25 Videos
drwxrwxr-x 2 onworks onworks 4096 Aug 17 17:26 work
-rw----- 1 onworks onworks 4096 Aug 30 2019 .Xauthority
-rw----- 1 onworks onworks 82 Aug 30 2019 .xsession-errors
-rw----- 1 onworks onworks 82 Mai 31 2019 .xsession-errors.old
                                                                                                                                                               2019 .gconf
```

8. In the command window, display today's date with day of the week, month, date and year

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
Di 17. Aug 17:36:03 CEST 2021
```

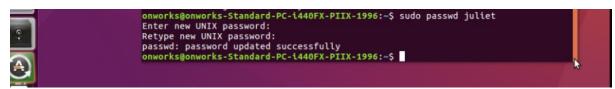
9. Add the user Juliet



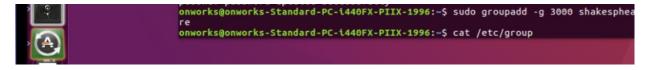
10. Confirm that Juliet has been added by examining the /etc/passwd file

```
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108::/home/syslog:/bin/false
_apt:x:105:65534::/nonexistent:/bin/false
messagebus:x:106:110::/var/run/dbus:/bin/false
uuidd:x:107:111::/run/uuidd:/bin/false
lightdm:x:108:114:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:109:117::/nonexistent:/bin/false
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
avahi:x:111:120:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/bin/false
colord:x:113:123:colord colour management daemon,,,:/var/lib/colord:/bin/false
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/
false
hplip:x:115:7:HPLIP system user,,,:/var/run/hplip:/bin/false
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/bin/false
pulse:x:117:124:PulseAudio daemon,,,:/var/run/pulse:/bin/false
rtkit:x:118:126:RealtimeKit,,,:/proc:/bin/false
saned:x:119:127::/var/lib/saned:/bin/false
usbmux:x:120:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
pnworks:x:1000:1000:onworks,,,:/home/onworks:/bin/bash
iuliet:x:1001:1001:1001:/home/juliet:
```

11. Use the passwd command to initialize Juliet's password



12. Create a supplementary group called Shakespeare with a group id of 30000



```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
systemd-bus-proxy:x:105:
input:x:106:
crontab:x:107:
syslog:x:108:
netdev:x:109:
messagebus:x:110:
uuidd:x:111:
ssl-cert:x:112:
lpadmin:x:113:onworks
lightdm:x:114:
nopasswdlogin:x:115:
ssh:x:116:
whoopsie:x:117:
mlocate:x:118:
avahi-autoipd:x:119:
avahi:x:120:
bluetooth:x:121:
scanner:x:122:saned
colord:x:123:
pulse:x:124:
pulse-access:x:125:
rtkit:x:126:
saned:x:127:
onworks:x:1000:
sambashare:x:128:onworks
juliet:x:1001:
shakespheare:x:3000:
```

13. Create a supplementary group called artists.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo groupadd artists
[sudo] password for onworks:
Sorry, try again.
```

14. Confirm that Shakespeare and artists have been added by examining the /etc/group file.

```
pulse:x:124:
pulse-access:x:125:
rtkit:x:126:
saned:x:127:
onworks:x:1000:
sambashare:x:128:onworks
juliet:x:1001:
shakespheare:x:3000:juliet
artists:x:3001:
```

15. Add the Juliet user to the Shakespeare group as a supplementary group.

16. Confirm that Juliet has been added using the id command.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ id -u juliet

1001
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ id -g juliet

1001
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo usermod -G romeo
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo useradd romeo
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo usermod -G shakespheare rom
```

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo useradd hamlet onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo usermod -G shakespheare ham let onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

```
🦻 🗐 📵 onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
syslog:x:108:
netdev:x:109:
messagebus:x:110:
uuidd:x:111:
ssl-cert:x:112:
lpadmin:x:113:onworks
lightdm:x:114:
nopasswdlogin:x:115:
ssh:x:116:
whoopsie:x:117:
mlocate:x:118:
avahi-autoipd:x:119:
avahi:x:120:
bluetooth:x:121:
scanner:x:122:saned
colord:x:123:
pulse:x:124:
pulse-access:x:125:
rtkit:x:126:
saned:x:127:
onworks:x:1000:
sambashare:x:128:onworks
juliet:x:1001:
shakespheare:x:3000:juliet,romeo,hamlet
artists:x:3001:
romeo:x:1002:
hamlet:x:1003:
```

18. Add Reba, Dolly and Elvis to the artists group

19. Verify the supplemental group memberships by examining the /etc/group file.

```
uuidd:x:111:
ssl-cert:x:112:
lpadmin:x:113:onworks
lightdm:x:114:
nopasswdlogin:x:115:
ssh:x:116:
whoopsie:x:117:
mlocate:x:118:
avahi-autoipd:x:119:
avahi:x:120:
bluetooth:x:121:
scanner:x:122:saned
colord:x:123:
pulse:x:124:
pulse-access:x:125:
rtkit:x:126:
saned:x:127:
onworks:x:1000:
sambashare:x:128:onworks
artists:x:1001:reba,dolly,elvis
reba:x:1002:
dolly:x:1003:
elvis:x:1004:
```

20. Attempt to remove user Dolly.

```
onworks:x:1000:
sambashare:x:128:onworks
artists:x:1001:reba,dolly,elvis
reba:x:1002:
dolly:x:1003:
elvis:x:1004:
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo userdel dolly
```

