

# Assignment Managing Files, Creating Users and Groups Using Command-line tools

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**Section:** MCA A

**Subject:** Networking And System Administration Lab

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1. a) Create six files with name of the form songX.mp3

```
antonyscaria@antonyscaria-VirtualBox:~$ touch song1.mp3 song2.mp3 song4.mp3 song5.mp3 song6.mp3
```

- b) Create six files with name of the form snapX.mp3

```
antonyscaria@antonyscaria-VirtualBox:~$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg
```

- c) Create six files with name of the form filmX.mp3

```
antonyscaria@antonyscaria-VirtualBox:~$ touch film1.mp4 film2.mp4 film3.mp4 film4.mp4 film5.mp4 film6.mp4
```

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.

```
antonyscaria@antonyscaria-VirtualBox:~$ mv *.mp3 ./Music/
antonyscaria@antonyscaria-VirtualBox:~$ mv *.jpg ./Pictures/
antonyscaria@antonyscaria-VirtualBox:~$ mv *.mp4 ./Videos/
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ mkdir -p {friends,family,work}
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ cp /home/antonyscaria/Music song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3 /home/antonyscaria/friends/
antonyscaria@antonyscaria-VirtualBox:~$ cp /home/antonyscaria/Pictures snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg /home/antonyscaria/family/
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ rmdir {friends,family}
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ rm -r friends family
```

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.

```
antonyscaria@antonyscaria-VirtualBox:~$ ls -a > allfiles.txt
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ date
Tuesday 17 August 2021 04:13:11 PM IST
```

9. Add the user Juliet

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Juliet
[sudo] password for antonyscaria:
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ cat /etc/passwd | grep Juliet
Juliet:x:1001:1001:/:home/Juliet:/bin/sh
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo passwd Juliet
New password:
Retype new password:
passwd: password updated successfully
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo groupadd -g 30000 Shakespeare
```

13. Create a supplementary group called artists

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo groupadd artist
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ less /etc/group
Shakespeare:x:30000:
artist:x:30001:
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G Shakespeare Juliet
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ id Juliet
uid=1001(Juliet) gid=1001(Juliet) groups=1001(Juliet),30000(Shakespeare)
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Romeo
[sudo] password for antonyscaria:
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Hamlet
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G Shakespeare Romeo
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G Shakespeare Hamlet
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Reba
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Dolly
antonyscaria@antonyscaria-VirtualBox:~$ sudo useradd Elvis
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G artist Reba
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G artist Dolly
antonyscaria@antonyscaria-VirtualBox:~$ sudo usermod -G artist Elvis
```

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

```
antonyscaria@antonyscaria-VirtualBox:~$ less /etc/group
Juliet:x:1001:
Shakespeare:x:30000:Juliet,Romeo,Hamlet
artist:x:30001:Reba,Dolly,Elvis
Romeo:x:1002:
Hamlet:x:1003:
Reba:x:1004:
Dolly:x:1005:
Elvis:x:1006:
```

20. Attempt to remove user Dolly.

```
antonyscaria@antonyscaria-VirtualBox:~$ sudo userdel Dolly
```