## RHSA 2 - LAB 2

1.Using the useradd command, add accounts for the following users in your system: user1, user2, user3, user4, user5, user6 and user7. Remember to give each user a password.

```
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Salma >> tail /etc/passwd
gnome-initial-setup:x:975:975::/run/gnome-initial-setup/:/sbin/nologin
tcpdump:x:72:72::/:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
smabrouk:x:1000:1000:Salma Mabrouk:/home/smabrouk:/bin/bash
islam:x:1001:1001:Islam Askar:/home/slam:/bin/bash
mailnull:x:47:47::/var/spool/mqueue:/sbin/nologin
smmsp:x:5:51::/var/spool/mqueue:/sbin/nologin
postfix:x:89:89::/var/spool/postfix:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
Salma >> ■
```

2. Using the groupadd command, add the following groups to your system. Group sales hr web GID 10000 10001 10002



Why should you set GID in this manner instead of allowing the system to set the GID by default?

because the system will generate an incremental number not starting from 10000

3. Using the usermod command to add user1 and user2 to the sales auxiliary group, user3 and user4 to the hr auxiliary group. User5 and user6 to web auxiliary group. And add user7 to all auxiliary groups

4. Login as each user and use id command to verify that they are in the appropriate groups. How else might you verify this information?

```
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Saltas >> sudo passed users
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```

5. Create a directory called /depts with a sales, hr, and web directory within the /depts directory.

```
smabrouk@localhost-/depts x

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Salma >> mkdir -p depts/{sales,hr,web}

Salma >> cd depts

Salma >> search S
```

6. Using the chgrp command, set the group ownership of each directory to the group with the matching name.

```
smabrouk@localhost-/depts x

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Salma >> sudo chgrp hr hr

Salma >> sudo chgrp sales sales

Salma >> pwd

/home/smabrouk/depts

Salma >> pwd

/home/smabrouk/depts
```

7. Set the permissions on the /depts directory to 755, and each subdirectory to 770.

8. Set the set-gid bit on each departmental directory

```
smabrouk@localhost-/depts ×

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Salma >> chmod g+s hr

Salma >> chmod g+s sales

Salma >> chmod g+s web

Salma >> film of the sales of the s
```

9. Use the su command to switch to the user2 account and attempt the following commands: touch /depts/sales/user2.txt touch /depts/hr/ user2.txt touch /depts/web/ user2.txt Which of these commands succeeded and which failed? What is the group ownership of the files that were created?

Failed as he doesn't have the ownership

10. Configure sudoers file to allow user3 and user4 to use /bin/mount and /bin/ umount commands, while allowing user5 only to use fdisk comman.

```
sudo visudo
user3 ALL=(ALL) !ALL, /bin/mount, /bin/umount
user4 ALL=(ALL) !ALL, /bin/mount, /bin/umount
user5 ALL=(ALL) !ALL, /sbin/fdisk
```

11. Login by user3 and try to unmount /boot.

## sudo umount /dev/boot

12. Login by user4 and remount /boot. Also try to view the partition table using fdisk.

fdisk /dev/boot

13. Create a directory with permissions rwxrwx---, grant a second group (sales) r-x permissions

mkdir dir1 chmod 770 dir1 setfacl -m g:sales:rx ~/dir1

14. create a file on that directory and grant read and write to a second group (sales)

```
smabrouk@localhost- x

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Salma >> cd

Salma >> touch dir/file

touch: cannot touch 'dir/file': Permission denied

Salma >> sudo touch dir/file

[sudo] password for smabrouk:

Salma >> chmod 666 depts/sales

Salma >> l
```