Assignment

1) Create a user called "elvis" who has the full name "elvis martin" with the uid/gid 2120, create a user called "malan" with the full name "malan farid" with the uid/gid 2121

```
[root@localhost manoj]# useradd -u2120 -c 'elvis martin' elvis
useradd: warning: the home directory already exists.
Not copying any file from skel directory into it.
Creating mailbox file: File exists
[root@localhost manoj]# useradd -u2121 -c 'malan farid' malan
[root@localhost manoj]# _
```

2) Change the account settings of elvis to expire after another one month.

```
root@localnost manojj# useradd -u2121 -c maian farid m
[root@localhost manoj]# useradd -e 2017-02-26 alvis
[root@localhost manoj]# chage -E 2017-04-26 alvis
[root@localhost manoj]# clear_
[root@localhost manoj]# chage -E 2017-03-26 alvis
[root@localhost manoj]# _
```

3) Change the SELinux type to be Enforcing.

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
# enforcing - SELinux security policy is enforced.
# permissive - SELinux prints warnings instead of enforcing.
# disabled - No SELinux policy is loaded.

SELINUX=disabled
# SELINUXTYPE= can take one of these three values:
# targeted - Targeted processes are protected,
# minimum - Modification of targeted policy. Only selected processes are protected.
# mls - Multi Level Security protection.

SELINUXTYPE=targeted

"/etc/selinux/config" 14L, 548C written
[root@localhost manoj]# _
```

4) Create a collaborative place call /commanshare to work for elvis and malan sharing the same group call ourshare.

```
[root@localhost manoj]# mkdir commonshare
[root@localhost manoj]# groupadd ourshare
[root@localhost manoj]# usermod -aG ourshare malan
[root@localhost manoj]# usermod -aG ourshare alvis
[root@localhost manoj]# chown root:ourshare commonshare
[root@localhost manoj]# _
```

5) For the same directory /commanshare file's created by malan should not be deleted by elvis.

```
[root@localhost /l# chmod g+rw commonshare
[root@localhost /]# su malan
[malan@localhost /1$ 11
total 20
lrwxrwxrwx. 1 root root
                                                                 7 Feb 3 2016 bin ->

      1rwxrwxrwx.
      1 root root
      7 Feb 3 2016

      dr-xr-xr-x.
      4 root root
      4096 Feb 25 22:52

      drwxrwxr-x.
      2 root ourshare
      6 Feb 26 02:33

      drwxr-xr-x.
      19 root root
      3600 Feb 25 23:52

      drwxr-xr-x.
      90 root root
      8192 Feb 26 02:34

      drwxr-xr-x.
      6 root root
      58 Feb 26 00:45

      1rwxrwxrwx.
      1 root root
      7 Feb 3 2016

      1rwxrwxrwx.
      1 root root
      9 Feb 3 2016

      4rwxr-xr-x.
      2 root root
      6 Feb 3 2016

      4rwxr-xr-x.
      2 root root
      6 Feb 3 2016

      4r-xr-xr-x.
      16 root root
      7 Feb 25 23:52

                                                      4096 Feb 25 22:52
                                                                 7 Feb 3 2016 lib -> ....
                                                                 9 Feb 3 2016 lib64 ->
dr-xr-xr-x. 116 root root
                                                                0 Feb 25 23:52
dr-xr-x---. 2 root root
                                                              114 Feb 25 22:53
                                                              960 Feb 26 00:52
drwxr-xr-x. 29 root root
lrwxrwxrwx. 1 root root
drwxr-xr-x. 2 root root
                                                                 6 Feb 3 2016
dr-xr-xr-x. 13 root root
                                                                 0 Feb 25 23:52
drwxrwxrwt. 7 root root
                                                              140 Feb 26 02:05 [mm]
 drwxr-xr-x.
                         12 root root
                                                              144 Feb 25 22:49
 drwxr-xr-x. 21 root root
                                                            4096 Feb 25 22:54
 [malan@localhost /]$
```

6) Create a mount point call /devdata and mount a 512MB partition with the label "dev" formatted using ext4 file system. Change the group ownership of this /devdata to be group owned by ourshare group. So people on that group should be able to create new files under the /devdata mount point.

7) Create an archive of your tmp directory and store that archive after reducing the size using zip tool under /opt and move a copy to your desktop system to the same /opt location.

8) Create a softlink to access the same archive from /mnt/shortcut

```
(root@localhost /|# mkdir mnt
[root@localhost /]# cd mnt
[root@localhost mnt]# mkdir shortcut
[root@localhost mnt]# cd
[root@localhost /]# ln -s temp.tar.gz /mnt/shortcut
[root@localhost /]#
[root@localhost /]#
[root@localhost /]#
```

- 9) Create a 256MB partition and mount it as /smalldata and change the ownership of that mount point to be user owned by elvis. Format the partition using xfs file system.
- 10) Create a shedule job as super user to run everyday at 5.30 pm to check your disk usage and store those information under /tmp/mydisusage text file.

```
[root@localhost /]# cd etc
[root@localhost etc]# vi crontab
[root@localhost etc]# ■
```

```
SHELL=/bin/bash
PATH=/sbin:/bin:/usr/sbin:/usr/bin
MAILTO=root

# For details see man 4 crontabs

# Example of job definition:
# .------ minute (0 - 59)

# | .------ hour (0 - 23)

# | | .----- day of month (1 - 31)

# | | | .---- month (1 - 12) OR jan, feb, mar, apr ...

# | | | | .---- day of week (0 - 6) (Sunday=0 or 7) OR sun, mon, tue, wece |

# | | | | | | |

# * * * * user-name command to be executed

30 1 * * * root du /home/manoj >> /tmp/mydiskusage
```

11) Create a user call john and allow that user to write to /devdata directory. Also allow john group with the same permission to the same location

```
[root@localhost /]# useradd ]hon
[root@localhost /]# chown jhon:]hon devdata
[root@localhost /]# chmod 661 devdata
[root@localhost /]#
```

12) Create a volume group with the name "examvg" and the size should be 1G. Specify the chunk size(PE size) as 8mib. Under this volume group create a logical volume using 12 chunks and name that as "myvol". Format it using ext4 filesystem and mount as /logicalvol.

```
root@localhost lahiru]# clear
root@localhost lahiru]# fdisk /dev/sdb

elcome to fdisk (util-linux 2:28.2).
hanges will remain in memory only, until you decide to write them.
e careful before using the write command.

ommand (n for help): n

ertition type
    p primary (1 primary, 0 extended, 3 free)
    e extended (container for logical partitions)
elect (default p): p

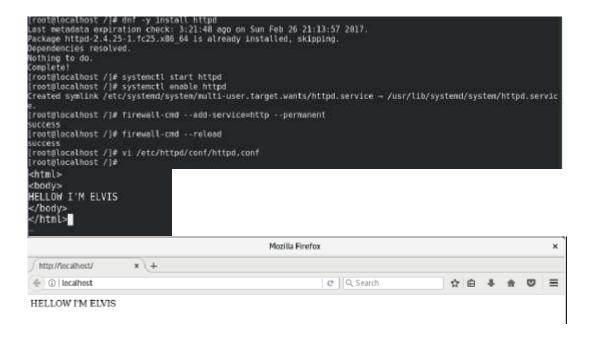
ertition number (2:4, default 2): 2

irst sector (1850624-16777215, default 1850624): 1550624
ast sector, +sectors or +size(K,M,G,T,P) (1550624-16777215, default 16777215): +16

reated a new partition 2 of type 'Linux' and of size 1023.9 MiB.

ommand (n for help):
```

13) Install apache web server and expose the below content as default web page "hellow im elvis".



14) Create a logical volume of 100MB called lv_swap2 and add it permanently to the current swap space.

```
SWap Space.

[root@localhost dev]# lvm lvcreate examvg -m myvol -L 100M
Logical Volume "myvol" already exists in volume group "examvg"
[root@localhost dev]# lvm lvcreate examvg -m myvol -L 100M
Logical volume "myvol" created.

WARNING: D-Bus notification failed: The name com.redhat.lvmdbusl was not provided by any .service files
[root@localhost dev]# mkswap /dev/examvg/myvol
mkswap: /dev/examvg/myvol: warning: wiping old ext4 signature.
Setting up swapspace version 1, size = 296 NiB (31037440B bytes)
to label, UUID=98a9eib3-58de-48d0-b25c-4bf730d28aba
[root@localhost dev]# /dev/examvg/myvol swap swap defaults 0 0
pash: /dev/examvg/myvol: Permission denied
[root@localhost dev]# swapon -va
wepon: /dev/mapper/fedora-swap: already active -- ignored
[root@localhost dev]# |
```

15)Install an FTP server so that users can login anonymously.

```
[root@localhost -]# dnf -y install vsftpd
Last metadata expiration check: 4:05:32 ago on Sun Feb 26 21:13:57 2017.
Dependencies resolved.
Package
                    Arch
                                        Version
                                                                       Repository
                                                                                            Size
Installing:
                                        3.8.3-2.1c25
                    x86 64
                                                                                          172 k
vsftpd
                                                                       fedora
Fransaction Summary
Install 1 Package
Total download size: 172 k
Installed size: 350 k
Downloading Packages:
vsftpd-3.0.3-2.fc25.x86_64.rpm
                                                          240 kB/s | 172 kB
                                                                                      86:88
Total
                                                           77 kB/s | 172 kB
                                                                                      00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Fransaction test succeeded.
Running transaction
 Installing : vsftpd-3.0.3-2.fc25.x86_64
Verifying : vsftpd-3.0.3-2.fc25.x86_64
                                                                                             1/1
Installed:
 vsftpd.x86 64 3.0.3-2.fc25
Complete!
#Sample anonymous FTP server configuration
#Mandatory directives
listen=YES
local_enable=NO
anonymous_enable=YES
write enable+NO
anon root=/var/ftp
# Optional directives
anon max rate=2048000
xferlog enable=YES
listen_address=192.168.0.100
                                                          root@localhost ~]# vi /etc/vsftpd/vsftpd-anon.conf
root@localhost ~]# vsftpd /etc/vsftpd/vsftpd-anon.conf
root@localhost ~]# 
listen port=21
```

16) Extend the existing logical volume myvol to be on the size 200MB.

```
[root@localhost /]# lvextend -L 296M /dev/mapper/examvg-myvol
    Size of logical volume examvg/myvol changed from 72.00 MLB (18 extents) to 296.00 MLB (74 extents).
    Logical volume examvg/myvol successfully resized.
    WARNING: D-Bus notification failed: The name com.redhat.lvmdbusl was not provided by any .service files
[root@localhost /]# resize2fs /dev/mapper/examvg-myvol
    resize2fs 1.43.1 (08-Jun-2016)
    Resizing the filesystem on /dev/mapper/examvg-myvol to 303104 (1k) blocks.
The filesystem on /dev/mapper/examvg-myvol is now 303104 (1k) blocks long.
[root@localhost /]#
```

17) Create a user called "rhcsatest", who should not be able to login to the system.

```
[root@localhost /]# useradd -s /sbin/nologin rhcsatest
[root@localhost /]# |
```

18)Add a user called "alpha". Find all files owned by user alpha and store those under /root/mybackup

```
[root@localhost /]# adduser alpha
[root@localhost /]# tar -cvpzt /root/mybackup/backup.tar.gz --one-file-system /home/alpha
tar: Removing leading '/' from member names
/home/alpha/
/home/alpha/.bash_logout
/home/alpha/.bash_profile
/home/alpha/.bashrc
/home/alpha/.bashrc
/home/alpha/.mozilla/
/home/alpha/.mozilla/
/home/alpha/.mozilla/extensions/
/home/alpha/.mozilla/plugins/
[root@localhost /]#
```

19)Create two users called "saman" and "nimal". Create a directory called /testqadata. Both users should have write access to /testqadata directory and user saman should have write access to the future files also.

```
The future files also.

I root@localhost /|# useradd saman |
I root@localhost /|# mkdir testqadata |
I root@localhost /|# chown saman testqadata |
I root@localhost /|# chown du-w testqadata |
I root@localhost /|# useradd nimal |
I root@localhost /|# setfacl -m u:nimal:w testqadata |
I root@localhost /|# |
I root@localho
```