```
 1  nano /etc/fstab

 2  nano /etc/default/grub

 3  grub2-mkconfig -o /boot/grub2/grub.cfg

 4  dracut -v -f

 5  df -h

 6  lvcreate -L1G -n swap centos

 7  mkswap centos/swap

 8  mkswap /dev/centos/swap

 9  lvcreate -L2G -n var -m1 centos

10  mount /dev/centos/var /mnt

11  mkfs.ext4 /dev/centos/var

12  mount /dev/centos/var /mnt

13  cp -aR /var/* /mnt

14  nano /etc/fstab

15  mount -a

16  df -h

17  umount /mnt

18  mount -a

19  df -h

20  lvcreate -L1G -n home centos

21  mkfs.ext4 /dev/centos/home

22  mount /dev/mapper/centos-home /mnt

23  cp -aR /home/* /mnt

24  ls -l /mnt

25  cp -aR /home /mnt
```
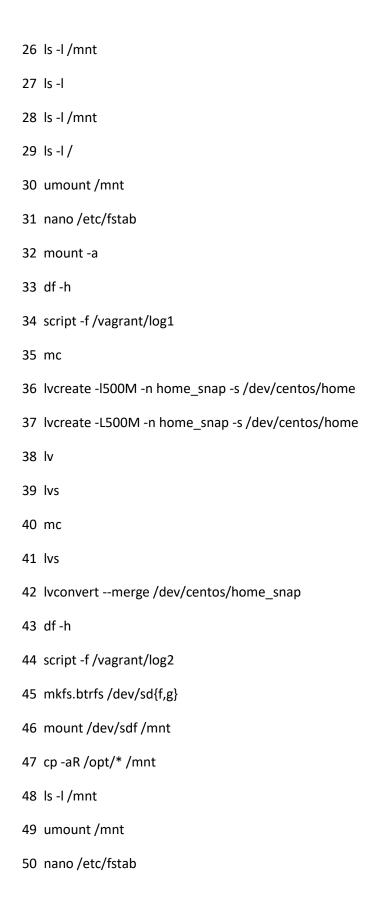
26 ls -l /mnt

27 ls -l

28 ls -l /mnt

29 ls -l /

30 umount /mnt

31 nano /etc/fstab

32 mount -a

33 df -h

34 script -f /vagrant/log1

35 mc

36 lvcreate -l500M -n home_snap -s /dev/centos/home

37 lvcreate -L500M -n home_snap -s /dev/centos/home

38 lv

39 lvs

40 mc

41 lvs

42 lvconvert --merge /dev/centos/home_snap

43 df -h

44 script -f /vagrant/log2

45 mkfs.btrfs /dev/sd{f,g}

46 mount /dev/sdf /mnt

47 cp -aR /opt/* /mnt

48 ls -l /mnt

49 umount /mnt

50 nano /etc/fstab

```
51  mount -a

52  df -h

53  btrfs

54  btrfs subvolume list

55  btrfs subvolume list -a

56  btrfs subvolume -a

57  btrfs subvolume snapshot /opt /home/opt-backup

58  btrfs subvolume snapshot /opt /dev/sdg/opt-snap

59  btrfs subvolume snapshot /opt /dev/sdg/

60  btrfs subvolume snapshot /opt /opt/opt-snap

61  df -h

62  btrfs subvolume list

63  btrfs subvolume list -pa

64  btrfs subvolume list -p /dev/sdf

65  btrfs subvolume list -p /opt

66  btrfs subvolume list -p -a /opt

67  btrfs subvolume list /opt

68  btrfs filesystem show /opt

69  btrfs filesystem show

70  df -h

71  df -h

72  mc

73  ls -l /
```

```
[root@otuslinux vagrant]# btrfs filesystem show
Label: none   uuid: ddb40bb8-f194-49b4-9cbf-5088be0b2d72
        Total devices 2 FS bytes used 16.48MiB
        devid    1 size 500.00MiB used 122.00MiB path /dev/sdf
        devid    2 size 500.00MiB used 122.00MiB path /dev/sdg

[root@otuslinux vagrant]# df -h
Filesystem               Size  Used Avail Use% Mounted on
/dev/mapper/centos-root  8.0G 1010M  7.1G  13% /
devtmpfs                 489M     0  489M   0% /dev
tmpfs                    497M     0  497M   0% /dev/shm
tmpfs                    497M  6.7M  490M   2% /run
tmpfs                    497M     0  497M   0% /sys/fs/cgroup
/dev/sda2               1014M   61M  954M   6% /boot
/dev/mapper/centos-var   2.0G  156M  1.7G   9% /var
/dev/mapper/centos-home  976M  2.6M  907M   1% /home
tmpfs                    100M     0  100M   0% /run/user/1000
tmpfs                    100M     0  100M   0% /run/user/0
/dev/sdf                1000M   33M  867M   4% /opt
[root@otuslinux vagrant]# exit
Script done file is /vagrant/log3
```