### **Lab 2: Storage Management**

## Create physical volume on disk

- pvcreate /dev/sdb

### Create volume group on physical volume

- vgcreate new /dev/sdb
- vgs(to check)

## Create each of the logical volumes under that group

- lvcreate -n home -L 4g new
- lvcreate -n tmp -L 1g vnew
- lvs(to check)

# Make the file systems on each lv

- mkfs.xfs /dev/new/home
- mkfs.xfs /dev/new/tmp

#### Make the mount directories and mount to them

- mkdir/mnt home
- mkdir/mnt tmp
- mount -t xfs /dev/new/home /mnt home
- mount -t xfs /dev/new/tmp /mnt tmp

### Copy over the contents of home and tmp, free up the disk blocks in the original filesystem

- cp /home/\* /mnt home)
- cp /tmp/\* /mnt tmp)
- rm -rf /home
- rm -rf/tmp

### For the mounts to persist across reboots, edit /etc/fstab

- blkid(shows the UUIDs for the lvs)
- vi /etc/fstab

```
etc/fstab" 13L, 610C written
root@machinee /1#
root@machinee /1#
root@machinee / 1# cat /etc/fstab
 /etc/fstab
 Created by anaconda on Sun Mar 22 18:53:23 2015
Accessible filesystems, by reference, are maintained under
See man pages fstab(5), findfs(8), mount(8) and/or blkid(
/dev/mapper/centos-root /
                                                                 defa
                                                        xfs
UUID=71438877-2509-4eb2-9c1d-dd119fb7b77f /boot
/dev/mapper/centos-swap swap
UUID="947c20e6-e2f9-4dd6-b635-779b6c72d74d" /mnt_home
UUID="153c4658-f9b3-4247-a8b8-fde8e162ba94" /mnt_tmp
                                                                 defa
 [root@machinee / 1#
 [root@machinee / ]# vi /etc/fstab
```