

8.3.4 Create a Logical Volume

Your Performance

Your Score: 4 of 4 (100%)

Elapsed Time: 4 minutes 36 seconds

Pass Status: **Pass**

Required Score: 100%

Task Summary

Actions you were required to perform:

- ✓ Create a volume group called data
- ✓ Create a logical volume called art [Show Details](#)
- ✓ Mount the new volume to the products folder
- ✓ Create a file called newproduct

Explanation

In this lab, your task is to create a logical volume using the first partition on each new drive as follows:

- Use **pvcreate** to initialize the partitions for use with LVM.
- Use **vgcreate** to create a volume group call **data** using these two partitions.
- Use **lvcreate** to create a 1 Terabyte logical volume called **art** from the data volume group.
- Create a directory called **product** where you can mount the
- Format the new logical volume with **ext4**.
- Mount the logical volume to the **product** directory.
- Change to the product directory and create a file call **newproduct**.
- Verify the creation of the file and amount of disk space available on this new volume.

Complete this lab as follows:

1. At the prompt, type **ls /dev/sd*** and press **Enter** to view the partition information. Note that partitions sdb1, sdc1, and sdc2 are available on the new hard drives.
2. Type **pvcreate /dev/sdb1 /dev/sdc1** and press **Enter** to initialize the first two partitions on each drive for use with LVM.
3. Type **vgcreate data /dev/sdb1 /dev/sdc1** and press **Enter** to create the volume group.
4. Type **vgs** and press **Enter** to verify the creation of the new volume group.
5. Type **lvcreate --size 1t -n art data** and press **Enter** to create the new volume.
6. Type **mkdir product** and press **Enter** to create a new folder to mound the logical volume in.
7. Type **mkfs.ext4 /dev/data/art** and press **Enter** to create the file system.
8. Type **mount -t ext4 /dev/data/art product** and press **Enter** to mount the volume in the product folder.
9. Type **cd product** and press **Enter** to change into the product folder.
10. Type **touch newproduct** and press **Enter** to create a file.
11. Type **ls** and press **Enter** to view the new file.
12. Type **df -h** and press **Enter** to view the logical volume.

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