RHL Assignment - LVM

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Problem Statement:

Creating Logical Volumes In this lab, you will create a physical volume.

Commands:

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```
[root@serverb ~]# parted -s /dev/vdb set 2 lvm on
[root@serverb ~]# udevadm settle
[root@serverb ~]# pvcreate /dev/vdb2
  Physical volume "/dev/vdb2" successfully created.
[root@serverb ~]# vgextend serverb_01_vg /dev/vdb2
  Volume group "serverb_01_vg" successfully extended
[root@serverb ~]# lvextend -L 768M /dev/serverb_01_vg/serverb_01_lv
  Size of logical volume serverb_01_vg/serverb_01_lv changed from 256.00 MiB (64 extents) to 768.00 MiB (192 ext
ents).
  Logical volume serverb_01_vg/serverb_01_lv successfully resized.
[root@serverb ~]# xfs_growfs /storage/data1
meta-data=/dev/mapper/serverb_01_vg-serverb_01_lv isize=512    agcount=4, agsize=16384 blks
         =                       sectsz=512   attr=2, projid32bit=1
         =                       crc=1        finobt=1, sparse=1, rmapbt=0
         =                       reflink=1
data     =                       bsize=4096   blocks=65536, imaxpct=25
         =                       sunit=0      swidth=0 blks
naming   =version 2              bsize=4096   ascii-ci=0, ftype=1
log      =internal log           bsize=4096   blocks=1368, version=2
         =                       sectsz=512   sunit=0 blks, lazy-count=1
realtime =none                   extsz=4096   blocks=0, rtextents=0
data blocks changed from 65536 to 196608
[root@serverb ~]# lvcreate -n serverb_02_lv -L 128M serverb_01_vg
  Logical volume "serverb_02_lv" created.
[root@serverb ~]# mkfs -t xfs /dev/serverb_01_vg/serverb_02_lv
meta-data=/dev/serverb_01_vg/serverb_02_lv isize=512    agcount=4, agsize=8192 blks
         =                       sectsz=512   attr=2, projid32bit=1
         =                       crc=1        finobt=1, sparse=1, rmapbt=0
         =                       reflink=1
data     =                       bsize=4096   blocks=32768, imaxpct=25
         =                       sunit=0      swidth=0 blks
naming   =version 2              bsize=4096   ascii-ci=0, ftype=1
log      =internal log           bsize=4096   blocks=1368, version=2
         =                       sectsz=512   sunit=0 blks, lazy-count=1
realtime =none                   extsz=4096   blocks=0, rtextents=0
[root@serverb ~]# mkdir /storage/data2
[root@serverb ~]# vim /etc/fstab
[root@serverb ~]# systemctl daemon-reload
```

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```
realtime =none                   extsz=4096   blocks=0, rtextents=0
[root@serverb ~]# mkdir /storage/data2
[root@serverb ~]# vim /etc/fstab
[root@serverb ~]# systemctl daemon-reload
[root@serverb ~]# mount /storage/data2
[root@serverb ~]# systemctl reboot
Connection to serverb closed by remote host.
Connection to serverb closed.
[student@workstation ~]$ lab lvm-review grade

Grading the student's work on serverb:

 · serverb_01_lv is 768MiB in size ........................... PASS
 · serverb_02_lv is 128MiB in size ........................... PASS
 · serverb_02_lv is mounted at /storage/data2 ................ PASS
 · serverb_02_lv is formatted with an XFS filesystem ......... PASS
 · serverb_02_lv belongs to the serverb_01_vg volume group .... PASS
 · serverb_01_vg has the correct size ........................ PASS

Overall lab grade............................................ PASS

[student@workstation ~]$ lab lvm-review finish

Completing the lab on serverb:

 · Unmounting /storage/data1 filesystem ...................... SUCCESS
 · Removing /storage/data1 directory ........................ SUCCESS
 · Unmounting /storage/data2 filesystem ...................... SUCCESS
 · Removing /storage/data2 directory ........................ SUCCESS
 · Restoring /etc/fstab on serverb........................... SUCCESS
 · Removing serverb_01_lv logical volume ..................... SUCCESS
 · Removing serverb_02_lv logical volume ..................... SUCCESS
 · Removing serverb_01_vg volume group ....................... SUCCESS
 · Removing physical volume /dev/vdb1 ........................ SUCCESS
 · Removing physical volume /dev/vdb2 ........................ SUCCESS
 · Cleaning up the second disk on serverb .................... SUCCESS

[student@workstation ~]$
```