<table>
<thead>
<tr>
<th>Device</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/ram0</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/loop0</td>
<td>1.36 GiB</td>
</tr>
<tr>
<td>/dev/ram1</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram2</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram3</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram4</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram5</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram6</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram7</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram8</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram9</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram10</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram11</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram12</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram13</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram14</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/ram15</td>
<td>64.00 MiB</td>
</tr>
<tr>
<td>/dev/sdb</td>
<td>465.76 GiB</td>
</tr>
<tr>
<td>/dev/sdc</td>
<td>465.76 GiB</td>
</tr>
<tr>
<td>/dev/sdd</td>
<td>465.76 GiB</td>
</tr>
<tr>
<td>/dev/sde1</td>
<td>2.38 GiB</td>
</tr>
<tr>
<td>/dev/sde2</td>
<td>122.00 MiB</td>
</tr>
<tr>
<td>/dev/sde3</td>
<td>1.43 GiB</td>
</tr>
<tr>
<td>/dev/sde4</td>
<td>3.56 GiB</td>
</tr>
<tr>
<td>/dev/sde5</td>
<td>465.76 GiB</td>
</tr>
</tbody>
</table>

3 disks

21 partitions
1 LVM physical volume whole disk
0 LVM physical volumes
```
root@ubuntu:~# echo "Mark storage devices as LVM physical volumes"
Mark storage devices as LVM physical volumes
root@ubuntu:~# pvcreate /dev/sdb /dev/sdc
WARNING: ext4 signature detected on /dev/sdb at offset 1080. Wipe it? [y/n]: y
  Wiping ext4 signature on /dev/sdb.
WARNING: dos signature detected on /dev/sdb at offset 510. Wipe it? [y/n]: y
  Wiping dos signature on /dev/sdb.
Physical volume "/dev/sdb" successfully created
Physical volume "/dev/sdc" successfully created
```
```
root@ubuntu:~# pvs
PV    VG  Fmt  Attr  PSize  PFree
/dev/sdb  lvm2  ---  465.76g  465.76g
/dev/sdc  lvm2  ---  465.76g  465.76g
root@ubuntu:~# echo "Show new physical volumes"
Show new physical volumes
root@ubuntu:~# ```
vgcreate myvolumegroup /dev/sdb /dev/sdc
Volume group "myvolumegroup" successfully created

echo "Created a new volume group that included both the physical volumes"
Created a new volume group that included both the physical volumes
root@ubuntu:~# vgs
VG  #PV  #LV  #SN  Attr  VSize   VFree
myvolumegroup  2  0  0  wz--n-  931.52g 931.52g

root@ubuntu:~# pvs
PV  VG  Fmt  Attr  PSize  PFree
/dev/sdb  myvolumegroup  lvm2  a--  465.76g  465.76g
/dev/sdc  myvolumegroup  lvm2  a--  465.76g  465.76g

root@ubuntu:~# echo "Note the aggregate size for the VG"
Note the aggregate size for the VG

root@ubuntu:~#
root@ubuntu:~# vgextend myvolumegroup /dev/sdd
Physical volume "/dev/sdd" successfully created
Volume group "myvolumegroup" successfully extended

root@ubuntu:~# vgs
VG          #PV #LV #SN Attr  VSize  VFree
myvolumegroup  3  0  0 wz--n-  1.36t  1.36t

root@ubuntu:~# pvs
PV  VG       Fmt  Attr  PSize  PFree
/dev/sdb  myvolumegroup lvm2 a--  465.76g  465.76g
/dev/sdc  myvolumegroup lvm2 a--  465.76g  465.76g
/dev/sdd  myvolumegroup lvm2 a--  465.76g  465.76g

root@ubuntu:~# echo "How to add a new disk to VG, note aggregate size"
How to add a new disk to VG, note aggregate size
root@ubuntu:~# lvcreate -L 100M -n test1 myvolumegroup
Logical volume "test1" created.
root@ubuntu:~# lvcreate -L 100M -n test2 myvolumegroup
Logical volume "test2" created.
root@ubuntu:~# lvcreate -L 100M -n test3 myvolumegroup
Logical volume "test3" created.
root@ubuntu:~# lvcreate -L 100M -n test4 myvolumegroup
Logical volume "test4" created.
root@ubuntu:~# lvs
LV  VG  Attr  LSize  Pool Origin Data% Meta% Move Log Cpy%Sync Convert
test1 myvolumegroup -wi-a----- 100.00m

test2 myvolumegroup -wi-a----- 100.00m

test3 myvolumegroup -wi-a----- 100.00m

test4 myvolumegroup -wi-a----- 100.00m

root@ubuntu:~# pvs
PV  VG  Fmt  Attr  PSize  PFree
/dev/sdb  myvolumegroup lvm2 a-- 465.76g 465.37g
/dev/sdc  myvolumegroup lvm2 a-- 465.76g 465.76g
/dev/sdd  myvolumegroup lvm2 a-- 465.76g 465.76g

root@ubuntu:~# vgs
VG  #PV #LV #SN Attr  VSize  VFree
myvolumegroup  3  4  0 wz--n-  1.36t  1.36t

root@ubuntu:~# echo "How to create some LV's"
How to create some LV's
root@ubuntu:~#
root@ubuntu:~# lvcreate -l 20%FREE -n test5 myvolumegroup
   Logical volume "test5" created.
root@ubuntu:~# echo "Create a LV with 20% free space"
Create a LV with 20% free space
root@ubuntu:~#
root@ubuntu:~# lvcreate -L 1G -n test6 --type raid5 myvolumegroup
Logical volume "test6" created.
root@ubuntu:~# echo "created a LV of 1G in a raid5 configuration (must have 3 disks in pv)"
created a LV of 1G in a raid5 configuration (must have 3 disks in pv)
# lvs

<table>
<thead>
<tr>
<th>LV</th>
<th>VG</th>
<th>Attr</th>
<th>LSize</th>
<th>Pool Origin</th>
<th>Data%</th>
<th>Meta%</th>
<th>Move Log</th>
<th>Cpy%</th>
<th>Sync</th>
<th>Con</th>
</tr>
</thead>
<tbody>
<tr>
<td>test1</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test2</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test3</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test4</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test5</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>279.38g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test6</td>
<td>myvolumegroup</td>
<td>rwi-a-r</td>
<td>1.00g</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

# lvremove /dev/myvolumegroup/test3

Do you really want to remove and DISCARD active logical volume test3? [y/n]: y

Logical volume "test3" successfully removed

# lvs

<table>
<thead>
<tr>
<th>LV</th>
<th>VG</th>
<th>Attr</th>
<th>LSize</th>
<th>Pool Origin</th>
<th>Data%</th>
<th>Meta%</th>
<th>Move Log</th>
<th>Cpy%</th>
<th>Sync</th>
<th>Con</th>
</tr>
</thead>
<tbody>
<tr>
<td>test1</td>
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<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test2</td>
<td>myvolumegroup</td>
<td>wi-a-</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test4</td>
<td>myvolumegroup</td>
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<td>100.00m</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>test6</td>
<td>myvolumegroup</td>
<td>rwi-a-r</td>
<td>1.00g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# echo "remove LV"

remove LV
root@ubuntu:~# ls /dev/myvolumegroup/
test1  test2  test4  test5  test6
root@ubuntu:~# pwd
/home/joe
root@ubuntu:~# mkdir testmounts
root@ubuntu:~# cd testmounts/
root@ubuntu:~/testmounts# mkdir d{1..6}
root@ubuntu:~/testmounts# ls
d1  d2  d3  d4  d5  d6
root@ubuntu:~/testmounts# mount /dev/myvolumegroup/test1 d1/
mount: /dev/mapper/myvolumegroup-test1 is write-protected, mounting read-only
mount: wrong fs type, bad option, bad superblock on /dev/mapper/myvolumegroup-test1,
missing codepage or helper program, or other error

In some cases useful info is found in syslog - try
dmesg | tail or so.

root@ubuntu:~/testmounts# echo "note we cannot mount these until we create a filesystem"
note we cannot mount these until we create a filesystem
root@ubuntu:~/testmounts#
root@ubuntu:~/testmounts# ls /dev/myvolumegroup/
test1  test2  test4  test5  test6
root@ubuntu:~/testmounts# mkfs.ext4 /dev/myvolumegroup/test1
mke2fs 1.42.13 (17-May-2015)
Creating filesystem with 102400 1k blocks and 25688 inodes
Filesystem UUID: 9381cb37-79ed-434d-adc1-cc5a7ace0e51
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done

root@ubuntu:~/testmounts# mkfs.ext4 /dev/myvolumegroup/test6
mke2fs 1.42.13 (17-May-2015)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: e5b17e2d-ae97-4776-96c2-3ae8bcf6b657
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

root@ubuntu:~/testmounts#
root@ubuntu:~/testmounts# ls
d1  d2  d3  d4  d5  d6
root@ubuntu:~/testmounts# mount /dev/myvolumegroup/test1 d1/
root@ubuntu:~/testmounts# mount /dev/myvolumegroup/test6 d6/
root@ubuntu:~/testmounts# mount | grep test
/dev/mapper/myvolumegroup-test1 on /home/joe/testmounts/d1 type ext4 (rw,relatime,data=ordered)
/dev/mapper/myvolumegroup-test6 on /home/joe/testmounts/d6 type ext4 (rw,relatime,stripe=32,data=ordered)
root@ubuntu:~/testmounts# echo "note that they are mounted now"
note that they are mounted now
root@ubuntu:~/testmounts#
# for i in `seq 1 100`; do echo "here is file$i" >> file$i.txt; done

# ls

lost+found

# echo "Create some files"
Create some files
root@ubuntu:~/testmounts/d1# lvcreate -s -L 200M -n snap_of_test1 myvolumegroup/test1
Reducing COW size 200.00 MiB down to maximum usable size 104.00 MiB.
Logical volume "snap_of_test1" created.
root@ubuntu:~/testmounts/d1# echo "Created a snapshot of that LV"
Created a snapshot of that LV
root@ubuntu:~/testmounts/d1#
root@ubuntu:~/.testmounts/d1# ls
file100.txt file23.txt file37.txt file50.txt file64.txt file78.txt file91.txt
file10.txt file24.txt file38.txt file51.txt file65.txt file79.txt file92.txt
file11.txt file25.txt file39.txt file52.txt file66.txt file80.txt file93.txt
file12.txt file26.txt file40.txt file53.txt file67.txt file81.txt file94.txt
file13.txt file27.txt file41.txt file54.txt file68.txt file82.txt file95.txt
file14.txt file28.txt file42.txt file55.txt file69.txt file83.txt file96.txt
file15.txt file29.txt file43.txt file56.txt file70.txt file84.txt file97.txt
file16.txt file30.txt file44.txt file57.txt file71.txt file85.txt file98.txt
file17.txt file31.txt file45.txt file58.txt file72.txt file86.txt file99.txt
file18.txt file32.txt file46.txt file59.txt file73.txt file87.txt lost+found
file19.txt file33.txt file47.txt file60.txt file74.txt file88.txt
file20.txt file34.txt file48.txt file61.txt file75.txt file89.txt
file21.txt file35.txt file49.txt file62.txt file76.txt file90.txt
file22.txt file36.txt file50.txt file63.txt file77.txt file91.txt
file23.txt file37.txt file51.txt file64.txt file78.txt file92.txt
file100.txt file23.txt file37.txt file50.txt file64.txt file78.txt file91.txt
root@ubuntu:~/.testmounts/d1# rm file{50..99}.txt
root@ubuntu:~/.testmounts/d1# ls
file100.txt file17.txt file24.txt file31.txt file39.txt file46.txt file8.txt
file10.txt file18.txt file25.txt file32.txt file43.txt file47.txt
file12.txt file20.txt file27.txt file34.txt file41.txt
file13.txt file21.txt file28.txt file35.txt file42.txt
file14.txt file22.txt file29.txt file36.txt file43.txt
file15.txt file23.txt file30.txt file37.txt file44.txt
file16.txt file24.txt file31.txt file38.txt file45.txt
file17.txt file25.txt file32.txt file39.txt
file18.txt file26.txt file33.txt file40.txt
file19.txt file27.txt file34.txt file41.txt
file20.txt file28.txt file35.txt file42.txt
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file25.txt file36.txt file37.txt file38.txt
file26.txt file39.txt file40.txt
file27.txt file41.txt file42.txt
file28.txt file43.txt file44.txt
file29.txt file45.txt file46.txt
file30.txt file37.txt file44.txt
file31.txt file38.txt file45.txt
file32.txt file39.txt file46.txt
file33.txt file40.txt file47.txt
file34.txt file41.txt file48.txt
file35.txt file42.txt file49.txt
file36.txt file43.txt file50.txt
file37.txt file44.txt file51.txt
file38.txt file45.txt file52.txt
file39.txt file46.txt file53.txt
file40.txt file47.txt file54.txt
file41.txt file48.txt file55.txt
file42.txt file49.txt file56.txt
file43.txt file50.txt file57.txt
file44.txt file51.txt file58.txt
file45.txt file52.txt file59.txt
file46.txt file53.txt file60.txt
file47.txt file54.txt file61.txt
file48.txt file55.txt file62.txt
file49.txt file56.txt file63.txt
file50.txt file57.txt file64.txt
file51.txt file58.txt file65.txt
file52.txt file59.txt file66.txt
file53.txt file60.txt file67.txt
file54.txt file61.txt file68.txt
file55.txt file62.txt file69.txt
file56.txt file63.txt file70.txt
file57.txt file64.txt file71.txt
file58.txt file65.txt file72.txt
file59.txt file66.txt file73.txt
file60.txt file67.txt file74.txt
file61.txt file68.txt file75.txt
file62.txt file69.txt file76.txt
file63.txt file70.txt file77.txt
file64.txt file71.txt file78.txt
file65.txt file72.txt file79.txt
file66.txt file73.txt file80.txt
file67.txt file74.txt file81.txt
file68.txt file75.txt file82.txt
file69.txt file76.txt file83.txt
file70.txt file77.txt file84.txt
file71.txt file78.txt file85.txt
file72.txt file79.txt file86.txt
file73.txt file80.txt file87.txt
file74.txt file81.txt file88.txt
file75.txt file82.txt file89.txt
file76.txt file83.txt file90.txt
file77.txt file84.txt file91.txt
file78.txt file85.txt file92.txt
file79.txt file86.txt file93.txt
file80.txt file87.txt file94.txt
file81.txt file88.txt file95.txt
file82.txt file89.txt file96.txt
file83.txt file90.txt file97.txt
file84.txt file91.txt file98.txt
file85.txt file92.txt file99.txt
file86.txt file93.txt file99.txt
file87.txt file94.txt
file88.txt file95.txt
file89.txt file96.txt
file90.txt file97.txt
file91.txt file98.txt
file92.txt file93.txt
file93.txt file94.txt
file94.txt file95.txt
file95.txt file96.txt
file96.txt file97.txt
file97.txt file98.txt
file98.txt file99.txt

root@ubuntu:~/.testmounts/d1#
file10.txt  file18.txt  file25.txt  file32.txt  file3.txt  file47.txt  file9.txt  
file11.txt  file19.txt  file26.txt  file33.txt  file40.txt  file48.txt  lost+found
file12.txt  file1.txt  file27.txt  file34.txt  file41.txt  file49.txt
file13.txt  file20.txt  file28.txt  file35.txt  file42.txt  file4.txt
file15.txt  file22.txt  file2.txt  file37.txt  file44.txt  file6.txt
file16.txt  file23.txt  file30.txt  file38.txt  file45.txt  file7.txt
file17.txt  file24.txt  file31.txt  file39.txt  file46.txt  file8.txt

root@ubuntu:~/testmounts/d1# echo "Uh oh, we lost some files..."
Uh oh, we lost some files...

root@ubuntu:~/testmounts/d1# echo "Let's restore from the snapshot"
Let's restore from the snapshot
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV Path</td>
<td>/dev/myvolumegroup/test1</td>
</tr>
<tr>
<td>LV Name</td>
<td>test1</td>
</tr>
<tr>
<td>VG Name</td>
<td>myvolumegroup</td>
</tr>
<tr>
<td>LV UUID</td>
<td>T0bHzq-tRLb-o88J-B5oq-dmJt-TGNQ-tOWIAo</td>
</tr>
<tr>
<td>LV Write Access</td>
<td>read/write</td>
</tr>
<tr>
<td>LV Creation host, time</td>
<td>ubuntu, 2017-02-10 16:20:42 +0000</td>
</tr>
<tr>
<td>LV snapshot status</td>
<td>source of snap of test1 [active]</td>
</tr>
<tr>
<td>LV Status</td>
<td>available</td>
</tr>
<tr>
<td># open</td>
<td>1</td>
</tr>
<tr>
<td>LV Size</td>
<td>100.00 MiB</td>
</tr>
<tr>
<td>Current LE</td>
<td>25</td>
</tr>
<tr>
<td>Segments</td>
<td>1</td>
</tr>
<tr>
<td>Allocation</td>
<td>inherit</td>
</tr>
<tr>
<td>Read ahead sectors</td>
<td>auto</td>
</tr>
<tr>
<td>- currently set to</td>
<td>256</td>
</tr>
<tr>
<td>Block device</td>
<td>252:0</td>
</tr>
</tbody>
</table>
root@ubuntu:~/testmounts# lvdisplay myvolumegroup/snap_of_test1
--- Logical volume ---
LV Path /dev/myvolumegroup/snap_of_test1
LV Name snap_of_test1
VG Name myvolumegroup
LV UUID jq4bNz-q61F-28HA-zfT3-7yfW-F9ws-yZoQSii
LV Write Access read/write
LV Creation host, time ubuntu, 2017-02-10 16:32:19 +0000
LV snapshot status active destination for test1
LV Status available
# open 0
LV Size 100.00 MiB
Current LE 25
COW-table size 104.00 MiB
COW-table LE 26
Allocated to snapshot 0.05%
Snapshot chunk size 4.00 KiB
Segments 1
Allocation inherit
Read ahead sectors auto
- currently set to 256
Block device 252:13
<table>
<thead>
<tr>
<th>LV</th>
<th>VG</th>
<th>Attr</th>
<th>LSize</th>
<th>Pool</th>
<th>Origin</th>
<th>Data%</th>
<th>Meta%</th>
<th>Move</th>
<th>Log</th>
<th>Cpy%</th>
</tr>
</thead>
<tbody>
<tr>
<td>snap_of_test1</td>
<td>myvolumegroup</td>
<td>swi-a-s---</td>
<td>104.00m</td>
<td>test1</td>
<td>0.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test1</td>
<td>myvolumegroup</td>
<td>owi-aos---</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test2</td>
<td>myvolumegroup</td>
<td>-wi-a-----</td>
<td>100.00m</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>test4</td>
<td>myvolumegroup</td>
<td>-wi-a-----</td>
<td>100.00m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test5</td>
<td>myvolumegroup</td>
<td>-wi-a-----</td>
<td>279.38g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test6</td>
<td>myvolumegroup</td>
<td>rwi-aor---</td>
<td>1.00g</td>
<td></td>
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</tbody>
</table>
Make sure it is unmounted before restoring from snapshot

root@testmounts# echo "Make sure it is unmounted before restoring from snapshot"

root@testmounts# umount d1

root@testmounts#
root@ubuntu:~/testmounts# lvconvert --merge /dev/myvolumegroup/snap_of_test1
Merging of volume snap_of_test1 started.
test1: Merged: 100.0%
root@ubuntu:~/testmounts#
```bash
root@ubuntu:~/testmounts# lvs
LV  VG    Attr  LSize  Pool Origin Data% Meta%  Move Log Cpy%Sync Convert
  test1 myvolumegroup -wi-a----- 100.00m
  test2 myvolumegroup -wi-a----- 100.00m
  test4 myvolumegroup -wi-a----- 100.00m
  test5 myvolumegroup -wi-a----- 279.38g
  test6 myvolumegroup rwi-aor--- 1.00g  100.00

root@ubuntu:~/testmounts# echo "Note that snapshot no longer exists"
Note that snapshot no longer exists
root@ubuntu:~/testmounts# ```
mount /dev/myvolumegroup/test1 d1/
ls d1/

Yay all my files are back from when I took the snapshot

root@ubuntu:~/testmounts#
root@ubuntu:~/testmounts# lvs
LV    VG  Attr  LSize  Pool Origin Data% Meta% Move Log Cpy%Sync Convert
  test1 myvolumegroup -wi-a----- 100.00m
  test2 myvolumegroup -wi-a----- 100.00m
  test4 myvolumegroup -wi-a----- 100.00m
  test5 myvolumegroup -wi-a----- 279.38g
  test6 myvolumegroup rwi-aor---- 1.00g

root@ubuntu:~/testmounts# lvextend -L+1g myvolumegroup/test6
Using stripesize of last segment 64.00 KiB
Size of logical volume myvolumegroup/test6 changed from 1.00 GiB (256 extents) to 2.00 GiB (512 extents).
Logical volume test6 successfully resized.

root@ubuntu:~/testmounts# lvs
LV    VG  Attr  LSize  Pool Origin Data% Meta% Move Log Cpy%Sync Convert
  test1 myvolumegroup -wi-a----- 100.00m
  test2 myvolumegroup -wi-a----- 100.00m
  test4 myvolumegroup -wi-a----- 100.00m
  test5 myvolumegroup -wi-a----- 279.38g
  test6 myvolumegroup rwi-aor--- 2.000g

root@ubuntu:~/testmounts# echo "resize volume"
resize volume
root@ubuntu:~/testmounts#