

LVM: Mount LVM Partition(s) in Rescue Mode

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# When system is not able to boot up due to OS problems we may be leaded to boot it into
# Rescue Mode using a installation CD.

# While booting in this mode, system will try to find out linux installation and mount it
# under /mnt/sysimage giving us the opportunity of getting to F.S. in order to make
# appropriate modifications for system to be recovered. Sometimes, if OS is seriously
# damaged this is not possible. In this case, it may be useful to manually mount LVM
# partitions to check/modify OS to recover server.

# Boot the machine with installation CD into Rescue Mode.

sh-3.2# df -k
      Filesystem            1K-blocks      Used    Available   Use%    Mounted on
      /dev                  517568         0        517568      0%      /dev
      /tmp/loop0            109184       109184          0    100%
/mnt/runtime

sh-3.2# vgs
sh: vgs: command not found

sh-3.2# pvscan
sh: pvscan: command not found

# We get this kind of errors because lvm commands are not available in Rescue Mode.
# Instead we will precede any lvm commands by "lvm" command this way:
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sh-3.2# lvm vgs
  VG      #PV  #LV  #SN Attr          VSize    VFree
  vg00     1    7    0 wz--n-      31.50G      0

# Now we are ready to use lvm commands so we can mount our lvm volumes

# Check existing logical volumes

sh-3.2# lvm lvs
  LV      VG      Attr      LSize   Origin Snap%   Move Log Copy%  Convert
  lvhome  vg00   -wi---   4.50G
  lvopt   vg00   -wi---   5.00G
  lvroot  vg00   -wi---   5.00G
  lvswap  vg00   -wi---   5.00G
  lvtmp   vg00   -wi---   2.00G
  lvusr   vg00   -wi---   5.00G
  lvvar   vg00   -wi---   5.00G

# Activate our root volume group

sh-3.2# lvm vgchange -a y vg00
  7 logical volume(s) in volume group "vg00" now active

# Mount any desired volume, in this case "/" filesystem

sh-3.2# mkdir /mnt/temp
sh-3.2# mount /dev/vg00/lvroot /mnt/temp

# Now we are able to access our OS data to make any needed check/modification

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