LVM: Reduce SWAP size by shrinking existing Logical Volume

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# Tested on RHEL 5, 6 & 7

# Check which is the swap volume and its size

root@<server>:/#> cat /etc/fstab | grep swap
/dev/rvg/swaplv          swap                        swap
defaults         0 0


root@<server>:/#> lvdisplay /dev/rvg/swaplv
  --- Logical volume ---
  LV Name                /dev/rvg/swaplv
  VG Name                rvg
  LV UUID                m0EThc-4Epd-Ecj3-lvPK-BfU0-D98H-1pgyRY
  LV Write Access        read/write
  LV Status              available
  # open                 1
  LV Size                14.69 GB
  Current LE             470
  Segments               1
  Allocation             inherit
  Read ahead sectors     auto
  - currently set to     256
```

```
  Block device              253:5



root@<server>:/#> free -m
             total         used         free       shared      buffers
cached
Mem:         11239         4555         6683            0          422
3697
-/+ buffers/cache:          435        10803
Swap:         15039            0
15039                                              <----



root@<server>:/#> cat /proc/swaps
Filename                                     Type              Size
Used     Priority
/dev/mapper/rvg-swaplv                       partition
15400952        0        -4




# Disable swapping on LV to be resized (in our case, as we have a
single LV allocated to
# swap, we could run command with '-a' flag so swapping is disabled
on all known swap
# devices and files (as found in /proc/swaps or /etc/fstab)

# root@<server>:/#> swapoff -a

root@<server>:/#> swapoff /dev/rvg/swaplv




# Check that swapping has been disabled

root@<server>:/#> free
             total         used         free       shared      buffers
cached
```

```
Mem:        11508864    4657068    6851796          0      432316
3786148
-/+ buffers/cache:       438604    11070260
Swap:              0          0
0                                          <----



# Reduce swap Logical Volume (we will remove 1 GB)

root@<server>:/#> lvreduce -L -1GB /dev/rvg/swaplv
  WARNING: Reducing active logical volume to 13.69 GB
  THIS MAY DESTROY YOUR DATA (filesystem etc.)
Do you really want to reduce swaplv? [y/n]: y
  Reducing logical volume swaplv to 13.69 GB
  Logical volume swaplv successfully resized




# Set up the new swap area

root@<server>:/#> mkswap /dev/rvg/swaplv
Setting up swapspace version 1, size = 14696837 kB




# -----------------------------------------------------------------
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# Enable swapping on resized LV (in our case, as we have a single LV
allocated to swap, we
# could run command with '-a' flag so swapping is enabled on all
known swap devices and
# files (as found in /proc/swaps or /etc/fstab)

# root@<server>:/#> swapon -a

root@<server>:/#> swapon /dev/rvg/swaplv
```

```
# Check final size


root@<server>:/#> free
             total          used          free        shared       buffers
cached
Mem:       11508864       4664880       6843984             0        432320
3786160
-/+ buffers/cache:         446400      11062464
Swap:       14352376             0
14352376                                                      <----
```

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