## LVM: Extend SWAP size by growing existing Logical Volume

Article Number: 173 | Rating: Unrated | Last Updated: Sat, Jun 2, 2018 10:29 PM

## LVM: Extend SWAP size by growing existing Logical Volume

```
# 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
 LV UUID
                        m0EThc-4Epd-Ecj3-lvPK-BfU0-D98H-1pgyRY
 LV Write Access
                        read/write
 LV Status
                        available
 # open
 LV Size
                        13.69 GB
 Current LE
 Segments
 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:
                               6682
                                      0
          11239
                4556
                                                   422
3697
-/+ buffers/cache:
                 436 10802
Swap:
          14015
14015
root@<server>:/#> cat /proc/swaps
Filename
                                   Type
                                                Size
Used Priority
/dev/mapper/rvg-swaplv
                                   partition
14352376 0 -3
# 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 4657932 6850932 0 432268
3786136
-/+ buffers/cache: 439528 11069336
Swap: 0 0
# Extend swap Logical Volume (we will add 1 GB)
# Verify that there is enough space on VG
root@<server>:/#> vgdisplay /dev/rvg
 --- Volume group ---
 VG Name
               rvg
 System ID
 Format
                lvm2
 Metadata Areas
 Metadata Sequence No 21
 VG Access read/write
 VG Status
                   resizable
 MAX LV
                   0
 Cur LV
                   6
 Open LV
                   6
 Max PV
                   0
                   1
 Cur PV
 Act PV
                   1
 VG Size
                   136.50 GB
 PE Size
                   32.00 MB
 Total PE
                   4368
 Alloc PE / Size
                   1718 / 53.69 GB
 Free PE / Size 2650 / 82.81
 VG UUID
                 2TkcmU-Uzys-Znql-aXqx-pr2D-08dk-oWs0lL
```

```
# Extend LV
root@<server>:/#> lvextend -L +1GB /dev/rvg/swaplv
 Extending logical volume swaply to 14.69 GB
 Logical volume swaply successfully resized
# Set up the new swap area
root@<server>:/#> mkswap /dev/rvg/swaplv
Setting up swapspace version 1, size = 15770578 kB
# 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
        11508864
                    4664192
                                                      432284
Mem:
                               6844672
                                                0
3786136
-/+ buffers/cache:
                              11063092
                      445772
```

Posted - Sat, Jun 2, 2018 10:29 PM. This article has been viewed 2627 times.

Online URL: http://kb.ictbanking.net/article.php?id=173