

RHCS6: Extend an existing Logical Volume / GFS2 filesystem

Article Number: 201 | Rating: Unrated | Last Updated: Sun, Jun 3, 2018 9:42 AM

RHCS: Extend an existing Logical Volume / GFS2 filesystem

```
# Tested on RHEL 6

# We are extending a given GFS2 filesystem like following one by
adding 1GB:

df -h /sharedfs
  Filesystem              Size  Used Avail Use% Mounted on
  /dev/mapper/gfsvg-lv_gfs    4.0G  259M  3.8G   7% /sharedfs

lvs | grep lv_gfs
  lv_gfs   gfsvg   -wi-ao---   4.00g

# Variable definition

VG=gfsvg
LV=lv_gfs
```

```

MNTPT=/sharedfs
SIZETOADD=1GB
FINALSIZE=5GB          # Final Size

# First of all check if there is available space on the volume group
the F.S. belongs to

vgs $VG
  VG      #PV #LV #SN Attr   VSize VFree
  gfsvg   1   1   0 wz--nc 8.00g 4.00g
           ^
           ^

# Let's extend the logical volume by specifying the size to be added:

lvextend -L +$SIZETOADD $VG/$LV
    Extending logical volume lv_gfs to 5.00 GiB
    Logical volume lv_gfs successfully resized

# or by specifying the final size:
#
# lvextend -L $FINALSIZE $VG/$LV
#     Extending logical volume lv_gfs to 5.00 GiB
#     Logical volume lv_gfs successfully resized

# Test what the tool will do

gfs2_grow -T /dev/$VG/$LV

# ...and then actually resize the GFS2

gfs2_grow /dev/$VG/$LV
    FS: Mount Point: /sharedfs

```

```
FS: Device:      /dev/dm-8
FS: Size:        1048575 (0xfffff)
FS: RG size:     65533 (0xffffd)
DEV: Size:       1310720 (0x140000)
The file system grew by 1024MB.
gfs2_grow complete.
```

```
# or 'gfs2_grow $MNTPT'
```

```
df -h $MNTPT
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/gfsvg-lv_gfs	5.0G	259M	4.8G	6%	/sharedfs

Posted - Sun, Jun 3, 2018 9:42 AM. This article has been viewed 3400 times.

Online URL: <http://kb.ictbanking.net/article.php?id=201>