Agrandir un disque

virtualisation, libvirt, agrandir disque

Prérequis

Le paquet libguestfs-tools doit être installé

```
# aptitude install libguestfs-tools
```

Agrandisement disque

Nous nous plaçons où se trouvent nos disques de VMs

```
# cd /var/lib/libvirt/images
```

Nous agrandissons le disque au format qcow2

```
# qemu-img resize test.qcow2 +10G
```

Comme nous ne pouvons agrandir directement la partition en place, nous le copions

```
# cp test.qcow2 test-orig.qcow2
<code>

Nous agrandissons la partition /dev/sda2
<code>
# virt-resize --expand /dev/sda2 test-orig.qcow2 test.qcow2
```

Vous devriez avoir ce genre de retour

```
[   0.0] Examining test-orig.qcow2
◓ 25%
⟦▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒══════════════════════════════════════
═════════════════════════════════════════════════════════════════════════⟧ -
-:--
 100%
⟦▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒
▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒⟧
00:00
**********

Summary of changes:

/dev/sda1: This partition will be left alone.

```

```
/dev/sda2: This partition will be resized from 16,5G to 27,0G.  The LVM PV
on /dev/sda2 will be expanded using the ‘pvresize’ method.

**********
[  12,9] Setting up initial partition table on test.qcow2
[  14,2] Copying /dev/sda1
[  15,7] Copying /dev/sda2
 100%
⟦▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒
▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒⟧
00:00
 100%
⟦▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒
▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒⟧
00:00
[  78,1] Expanding /dev/sda2 using the ‘pvresize’ method

Resize operation completed with no errors.  Before deleting the old disk,
carefully check that the resized disk boots and works correctly.
```

Extension LVM

Nous démarrons la VM. Il ne reste plus qu'à agrandir le volume groupe LVM

```
# lvextend -L +10G /dev/mapper/vg_sys-lv_log
```

ou pour prendre 100% de l'espace libre

```
# lvextend -l +100%FREE /dev/mapper/vg_sys-lv_log
```

Pour retailler une partition ext4

```
# resize2fs /dev/mapper/vg_sys-lv_log
```

Pour retailler une partition xfs

```
# xfs_growfs /dev/mapper/vg_sys-lv_log
```

Liens

- How to Resize a qcow2 Image and Filesystem with Virt-Resize
- How to Extend/Increase LVM’s (Logical Volume Resize) in Linux

From:
https://wiki.grohub.org/ - **Grohub wiki**

Permanent link:
https://wiki.grohub.org/infrastructure/virtualisation/libvirt/disk-resize?rev=1609357719

Last update: **30/12/2020 19:48**