

VM disk Expansion LVM+XFS

Expand the original disk or add a second vdisk from Infrastructure client.

If you want to perform a grow w/o reboot you have to add a second disk **THEN TAKE A SNAPSHOT!!!**

then from on the vm either create an additional partirion on the free space. The partition type us 8e

```
cfdisk /dev/sda
### for example if the new partition is /dev/sda3
pvcreate /dev/sda3
```

or assign the whole new disk to lvm assuming it's /dev/sdb

```
apt-get install scsitolos
rescan-scsi-bus.sh
cfdisk /dev/sdb
### for example if the new partition is /dev/sda3
pvcreate /dev/sdb
```

now you have to extend the volgroup. use `lvdisplay` to see which is the name of the group, in this example it's base

```
vdisklay
--- Logical volume ---
LV Name                /dev/base/root
VG Name                base
LV UUID                8cL9Qd-ksIn-1Ve2-94ym-gTrW-8jet-91tnah
LV Write Access        read/write
LV Status              available
# open                 1
LV Size                5.00 GB
Current LE             1280
Segments              1
Allocation             inherit
Read ahead sectors    0
Block device          254:0
--- Logical volume ---
LV Name                /dev/base/tmp
VG Name                base
LV UUID                mEnEXY-UtOf-P439-MDpg-BLT3-n8hI-Q6KIfm
LV Write Access        read/write
LV Status              available
# open                 1
LV Size                1.00 GB
Current LE             256
Segments              1
Allocation             inherit
Read ahead sectors    0
```

```
Block device      254:1
--- Logical volume ---
LV Name           /dev/base/swap
VG Name           base
LV UUID           fm2A23-FPb3-itQa-Fvf2-QQmj-giwI-j8FZAf
LV Write Access    read/write
LV Status          available
# open            2
LV Size           2.00 GB
Current LE         512
Segments          1
Allocation         inherit
Read ahead sectors 0
Block device      254:2
--- Logical volume ---
LV Name           /dev/base/data
VG Name           base
LV UUID           GZKUbb-hZn2-igXN-3dxj-TNz9-1C15-I8u8MR
LV Write Access    read/write
LV Status          available
# open            1
LV Size           1.52 GB
Current LE         389
Segments          1
Allocation         inherit
Read ahead sectors 0
Block device      254:3
```

and we assume the new partition is /dev/sda3

```
vgextend base /dev/sda3
```

check with pvscan if the extend was successful

Now we extend the “data” partition to 11.5 GB. See man lvextend for other options

```
lvextend -L 11.5G /dev/base/data
```

now we have to grow the filesystem /data

```
xfs_growfs /data
```

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