

# 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

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

now you have to extend the volgroup. user `lvdisplay` to see which is the name of the group, in this example it's base and we assume the new partition is /dev/sda3

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

check with `pvscan` if the extend was successfull

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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Last update: 2019/01/16 10:03

