

XenServer: HDD Volume CentOS verhogen

Geschreven door Administrator

maandag, 20 augustus 2012 11:55 - Laatst aangepast donderdag, 23 augustus 2012 16:25

Je harde schijf verhogen in CentOS met XenServer:

```
{codecitation style="brush: xml;"}  
  
root:~# fdisk /dev/xvda
```

```
The number of cylinders for this disk is set to 6527. There is nothing wrong with that, but this is larger than 1024, and could in certain setups cause problems with: 1) software that runs at boot time (e.g., old versions of LILO) 2) booting and partitioning software from other OSs (e.g., DOS FDISK, OS/2 FDISK) Command (m for help): p Disk /dev/xvda: 53.6 GB, 53687091200 bytes <-- note that fdisk already sees the new device size of 53.6 GB 255 heads, 63 sectors/track, 6527 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Disk identifier: 0x0004e475 Device Boot Start End Blocks Id System /dev/xvda1 * 1 31 248976 83 Linux /dev/xvda2 32 1305 10233405 8e Linux LVM <-- note that the existing entry is still 10 GB Command (m for help): d Partition number (1-4): 2 Command (m for help): n Command action e extended p primary partition (1-4) p Partition number (1-4): 2 First cylinder (32-6527, default 32): Using default value 32 Last cylinder or +size or +sizeM or +sizeK (32-6527, default 6527): Using default value 6527 Command (m for help): t Partition number (1-4): 2 Hex code (type L to list codes): 8e Changed system type of partition 2 to 8e (Linux LVM) Command (m for help): p Disk /dev/xvda: 53.6 GB, 53687091200 bytes 255 heads, 63 sectors/track, 6527 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Disk identifier: 0x0004e475 Device Boot Start End Blocks Id System /dev/xvda1 * 1 31 248976 83 Linux /dev/xvda2 32 6527 52179120 8e Linux LVM <-- note that the new entry is now 50 GB Command (m for help): w The partition table has been altered! Calling ioctl() to re-read partition table. WARNING: Re-reading the partition table failed with error 16: Device or resource busy. The kernel still uses the old table. The new table will be used at the next reboot. Syncing disks. master:~# reboot Broadcast message from root@master (pts/0) (Fri Oct 2 08:47:05 2009):
```

The system is going down for reboot NOW!

```
{/codecitation}
```

Vertel LVM van de nieuwe gewijzigde fysieke (physical) volume

Partitie 2 is nu succesvol verhoogd in volume. Nu LVM de nieuwe blokken vertellen.

```
{codecitation style="brush: xml;"}  
  
pvdisplay
```

```
--- Physical volume --- PV Name          /dev/xvda2  VG Name      dsk  PV Size  
9.76 GB / not usable 1.37 MB  Allocatable  yes (but full)  PE Size (KByte)  
4096  Total PE      2498  Free PE      0  Allocated PE  2498  PV UUID  
7TyUyk-hyVf-0kdC-OCok-QdSJ-lqTE-YFJAi0  master:~# pvresize /dev/xvda2  Physical  
volume "/dev/xvda2" changed  1 physical volume(s) resized / 0 physical volume(s) not resized  
master:~# pvdisplay  --- Physical volume --- PV Name          /dev/xvda2  VG Name  
dsk  PV Size          49.76 GB / not usable 3.98 MB  Allocatable  yes  PE Size  
(KByte)  4096  Total PE      12738  Free PE      10240  Allocated PE  
2498
```

```
PV UUID          7TyUyk-hyVf-0kdC-OCok-QdSJ-lqTE-YFJAi0
```

```
{/codecitation}
```

Wijzigen logische volume

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De volgende stap voegt de nieuwe blokken toe aan het logische volume. De nieuwe volume groep heeft 10240 extra blokjes van 4 Kbyte. Nieuwe opslag kan toegevoegd worden met de lvresize command.

```
{codecitation style="brush: xml;"}  
  
# vgdisplay
```

```
--- Volume group --- VG Name          dsk  System ID  Format          lvm2  
Metadata Areas      1  Metadata Sequence No 8  VG Access      read/write  VG Status  
    resizable  MAX LV          0  Cur LV          2  Open LV          2  Max PV  
    0  Cur PV          1  Act PV          1  VG Size          49.76 GB  PE Size  
    4.00 MB  Total PE          12738  Alloc PE / Size  2498 / 9.76 GB  Free PE / Size  
10240 / 40.00 GB  VG UUID          nCjL0f-XWps-G77Z-Oq0t-IMEc-ULsJ-2qFUw  
master:~# lvdisplay --- Logical volume --- LV Name          /dev/dsk/root  VG Name  
    dsk  LV UUID          QejNO3-8bB0-ykJ0-TUhr-56Ko-W5ed-SvF9fv  LV Write Access  
    read/write  LV Status          available  # open          1  LV Size          7.76 GB  
Current LE          1986  Segments          1  Allocation      inherit  Read ahead  
sectors  auto  - currently set to 256  Block device      254:0  master:~# lvresize -l  
+10240 /dev/dsk/root  Extending logical volume root to 47.76 GB  Logical volume root  
successfully resized  master:~# vgdisplay --- Volume group --- VG Name          dsk  
System ID  Format          lvm2  Metadata Areas      1  Metadata Sequence No 11  VG  
Access      read/write  VG Status      resizable  MAX LV          0  Cur LV  
2  Open LV          1  Max PV          0  Cur PV          1  Act PV          1  VG  
Size          49.76 GB  PE Size          4.00 MB  Total PE          12738  Alloc PE / Size  
    12738 / 49.76 GB  Free PE / Size    0 / 0
```

```
VG UUID          nCjL0f-XWps-G77Z-Oq0t-IMEc-ULsJ-2qFUw
```

```
{/codecitation}
```

Wijzig file system

De laatste stap is het bestandensysteem wijzigen. Daarna reboten.

```
{codecitation style="brush: xml;"}  
root:~# resize2fs /dev/dsk/root
```

```
resize2fs 1.41.3 (12-Oct-2008) Filesystem at /dev/dsk/root is mounted on /; on-line resizing  
required old desc_blocks = 1, new_desc_blocks = 3 Performing an on-line resize of  
/dev/dsk/root to 12519424 (4k) blocks. The filesystem on /dev/dsk/root is now 12519424 blocks  
long. master:~# reboot Broadcast message from root@master (pts/0) (Fri Oct 2 08:47:05  
2009):
```

The system is going down for reboot NOW!

```
{/codecitation}
```

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Bron: <http://www.schirmacher.de/display/INFO/How+to+increase+XenServer+virtual+machine+root+or+swap+partition>

Andere guide: Hoe XenServer ISO op een USB Stick krijgen met FAT formattering: <http://blogs.citrix.com/2010/01/17/install-xenserver-from-usb-drive/>