
Subject: Here is my procedure to create virtual disk for CT

Posted by [bpolarsk](#) on Wed, 29 Apr 2009 09:41:46 GMT

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I can create a virtual shared disk, but did not test if it works for RAC :

On the Vz Server (Ip host vz 192.168.89.7):

```
yum whatprovides tgt
```

```
--> scsi-target-utils.x86_64
```

```
yum install scsi-target-utils.x86_64      # to be found on the Centos repository, not on the RedHat one.
```

```
yum install iscsi-initiator-utils.x86_64 # also needed
```

```
#Start iscsi daemon:
```

```
/etc/init.d/iscsi start
```

```
--> Setting up iSCSI targets: iscsiadm: No records found! [ OK ]
```

```
# create an empty file to be the virtual disk:
```

```
dd if=/dev/zero of=/vz/shared_disk/shared_disk01.vz bs=1M count=512
```

```
# create a iscsi group
```

```
tgtadm --lld iscsi --op new --mode target --tid 1 -T shared_disk01.vz # this is group name
```

```
# add a disk to this iscsi group
```

```
tgtadm --lld iscsi --op new --mode logicalunit --tid 1 --lun 1 -b /vz/shared_disk/shared_disk01.vz
```

```
tgtadm --lld iscsi --op bind --mode target --tid 1 -l 192.168.89.7
```

```
# show what we have done:
```

```
tgtadm --lld iscsi --op show --mode target
```

```
iscsiadm --mode discovery --type sendtargets --portal 192.168.89.7
```

```
--> # 192.168.89.7:3260,1 shared_disk01.vz
```

```
iscsiadm --mode node --targetname shared_disk01.vz --portal 192.168.89.7:3260 --login
```

```
--> Logging in to [iface: default, target: shared_disk01.vz, portal: 192.168.89.7,3260]
```

```
--> Login to [iface: default, target: shared_disk01.vz, portal: 192.168.89.7,3260]: successful
```

```
[bdglo0001vz]:/vz/shared_disk> fdisk -l
```

```
--> Disk /dev/cciss/c0d0: 73.3 GB, 73372631040 bytes
```

```
--> 255 heads, 63 sectors/track, 8920 cylinders
```

```
--> Units = cylinders of 16065 * 512 = 8225280 bytes
```

```
-->
```

```
-->      Device Boot      Start         End      Blocks   Id  System
```

```
--> /dev/cciss/c0d0p1  *           1           19     152586   83  Linux
```

```
--> /dev/cciss/c0d0p2           20        1294    10241437+  82  Linux swap / Solaris
```

```
--> /dev/cciss/c0d0p3        1295        8920    61255845   8e  Linux LVM
```

```
-->
```

```
--> Disk /dev/sda: 20 MB, 20971520 bytes
```

```
--> 1 heads, 40 sectors/track, 1024 cylinders
```

--> Units = cylinders of 40 * 512 = 20480 bytes
--> Disk /dev/sda doesn't contain a valid partition table

```
fdisk /dev/sda # create here a partition primary on the whole disk, then quit
partprobe /dev/sda
mke2fs /dev/sda1
```

Now I mount this Virtual disk on a directory on the node, then I export this directory into 2 Container

First mount the Virt. Disk on the VZ host:

```
mount /dev/sda1 /vz/shared_disk/mnt1
```

Next shared this mount with both target CT 140001 and CT 140003:

```
mount --bind /vz/shared_disk/mnt1 /vz/root/140001/app
```

```
mount --bind /vz/shared_disk/mnt1 /vz/root/140003/app
```

#On container 140001:

```
vzctl enter 140001
```

--> entered into CT 140001

```
--> [root@ap01 /]# df
```

```
--> Filesystem      1K-blocks    Used Available Use% Mounted on
```

```
--> simfs            20314748  9902384  9363788  52% /
```

```
--> /dev/sda1         19807      173   18611    1% /app
```

```
--> [root@ap01 /]# ls -l app
```

```
--> total 13
```

```
--> -rw-r--r-- 1 root root  12 Apr 29 11:25 hello
```

```
--> drwx----- 2 root root 12288 Apr 29 11:00 lost+found
```

#On container 140003:

```
vzctl enter 140003
```

--> entered into CT 140003

```
--> [root@ap03 app]# df
```

```
--> Filesystem      1K-blocks    Used Available Use% Mounted on
```

```
--> simfs            20314748  9902384  9363788  52% /
```

```
--> /dev/sda1         19807      173   18611    1% /app
```

```
--> [root@ap03 app]# ls -l
```

```
--> total 13
```

```
--> -rw-r--r-- 1 root root  12 Apr 29 11:25 hello
```

```
--> drwx----- 2 root root 12288 Apr 29 11:00 lost+found
```