Subject: Mount in vps
Posted by dagr on Wed, 04 Oct 2006 10:55:04 GMT
View Forum Message <> Reply to Message

I tried to mount shared folder and got problem

created 1.mount
mount -o bind,ro /vz/cow/distr /vz/root/$VEID/DISTR

and 1.umount
umount /vz/root/$VEID/DISTR

VPS starts and stops ok and i can see thats it really mounts it, BUT!! Its not readonly for root inside VPS. Its the same like usual root - it can write anything disregard chmod attr. Same thing for VPS root - as soon as he can see this dir inside his filesystem - it can do anything with it (/vz/cow/distr) disregards permissions , etc. Is it bug or what?

2.6.9-023stab016.2-smp - RHEL4

Subject: Re: Mount in vps
Posted by Vasily Tarasov on Wed, 04 Oct 2006 13:31:20 GMT
View Forum Message <> Reply to Message

There is no bind ro bindmounts in Linux.

Subject: Re: Mount in vps
Posted by dagr on Wed, 04 Oct 2006 13:35:01 GMT
View Forum Message <> Reply to Message

Ok , so is there any way to share dir to vps as read-only ?

Subject: Re: Mount in vps
Posted by Vasily Tarasov on Wed, 04 Oct 2006 14:06:12 GMT
View Forum Message <> Reply to Message

Here is an example how I can do it on my node:

[HN]# dd if=/dev/zero of=/tmp/shareddisk bs=1024 count=4000
4000+0 records in
4000+0 records out
[HN]# mke2fs -F /tmp/shareddisk
mke2fs 1.37 (21-Mar-2005)

Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
504 inodes, 4000 blocks
200 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=4194304
1 block group
8192 blocks per group, 8192 fragments per group
504 inodes per group

Writing inode tables: done
Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 27 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.
[HN]# vzctl start 112
Starting VPS ...
VPS is mounted
Setting CPU units: 1000
VPS start in progress...
[HN]# mount -o loop,ro /tmp/shareddisk /vz/root/112/shared/
[root@dhcp0-132 /]# vzctl enter 112
entered into VPS 112
[VE]# cat /proc/mounts
simfs / simfs rw 0 0
proc /proc proc rw 0 0
devpts /dev/pts devpts rw 0 0
ext2 /shared ext2 ro 0 0
[VE]# cd /shared/
[VE]# touch qwe
touch: cannot touch `qwe': Read-only file system

Of course, if you have and wish to share some block device or partion you don't need to create loop device.

HTH,
vass.

Subject: Re: Mount in vps
Posted by dagr on Wed, 04 Oct 2006 14:13:38 GMT
View Forum Message <> Reply to Message

yes , it might work . But new question comes.
Surely i will need opportunity to write in this sharedir from original system (non VPS). Can you say

if its absolutely safe to make 2 mounts of this file to different dirs (i mount ro for VPS and another rw for original server) ? (i heard such situation can cause some problems)

Subject: Re: Mount in vps
Posted by Vasily Tarasov on Wed, 04 Oct 2006 14:40:00 GMT
View Forum Message <> Reply to Message

Hmmm.... yeap, I suppose there can be some problems...

Subject: Re: Mount in vps
Posted by dagr on Wed, 04 Oct 2006 14:51:53 GMT
View Forum Message <> Reply to Message

ok i found out the problem with loopback. If you make 2 loopback mounts, one of them rw , then all changes in partition are cached, ie you will not see changes inside VPS ro mount until remount, ie VPS restart.

Subject: Re: Mount in vps
Posted by Vasily Tarasov on Wed, 04 Oct 2006 14:56:36 GMT
View Forum Message <> Reply to Message

The only solution I see now is to create NFS server and mount rw and ro on hw node and then bindmount ro mounts inside VE....

Subject: Re: Mount in vps
Posted by Valmont on Wed, 04 Oct 2006 16:52:22 GMT
View Forum Message <> Reply to Message

Maybe will be enough just nfs server on hw and two nfs clients from vpses? without binds

But it's not very secure to setup nfs server on hw...

Subject: Re: Mount in vps
Posted by Vasily Tarasov on Thu, 05 Oct 2006 06:30:35 GMT
View Forum Message <> Reply to Message

You can't mount nfs directly from VE, nfs is not virtualized now. However, you're right, you can run server on HN and mount nfs in /vz/root/<VEID>/shareddir/.