Subject: mount --bind Bug in OpenVZ?
Posted by divB on Wed, 22 Apr 2009 21:20:46 GMT
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Hi,

The following scenario without OpenVZ:

mount /dev/sda1 /home
mount --bind /home /dest1
mount --bind /home /dest2
...

Now the content from /home is mapped to dest1 and dest2. Now I want to unmount these mapping but never ever the original mount to /home:

umount /dest1
umound /dest2
...
ls /home
(there are files)

Well this is how should bind-mounts work. Now OpenVZ comes into play. In $VEID.mount, I have the following command:

mount --bind /home /var/lib/vz/root/${VEID}/home

When the VE starts everything is fine. In the $VEID.unmount-Skript I have the following command:

umount /home /var/lib/vz/root/${VEID}/home

But now suddenly /home has been unmounted too on the host!! But this should never ever happen!

ls /home
. ..

When I just ignore unmounting the bind-mounts it seems to work without problems but it seems to be not elegant to me.

I just don't understand it. Without the mount-Scripts everything works fine. But inside the mount/umount script, the original mount (/dev/sda1 to /home on VE0) is unmounted too.

And this is a fiasco: I have mounted /home into multiple VEs stopping one VE which has /home mounted removes /home from all other VEs!

Does anybody know something about this issue?

Regards,
divB

Subject: Re: mount --bind Bug in OpenVZ?
Posted by maratrus on Thu, 23 Apr 2009 06:53:59 GMT
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Hi,

Quote:
umount /home /var/lib/vz/root/${VEID}/home

This is a wrong syntax.
Invoking such command from HN tells your system to umount home. No wonder that /home is umounted.

Don't put anything in umount script in such situation because /home directory will be properly umounted from inside a VE when a VE is stopped.
Look at /proc/mounts output inside VE. The information about bind mount can be obtained from it, so you can umount this directory from inside the VE and init scripts actually do this.

Subject: Re: mount --bind Bug in OpenVZ?
Posted by divB on Thu, 23 Apr 2009 09:29:11 GMT
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CORRECTION!!! This was a copy & paste error. Sorry.

I certainly meant:

umount /var/lib/vz/root/${VEID}/home

Sorry.

Now it is really a bug, isn't it?

However, you say I should just leave the umount-scripts empty? It is unmounted automatically? Is this really the "right way"?

(I always try to avoid using things without cleanup code - it seems to me like using malloc without free or like creating a service with "start" but without "stop"...)
