Subject: *SOLVED* NFS problems

Posted by commy on Mon, 14 Aug 2006 06:51:07 GMT

View Forum Message <> Reply to Message

Hi!

Sorry, that the topic is not more specific, but I have in fact two problems regarding NFS-space provided by a VE.

I have an OpenVZ Kernel (2.6.8-022.077) running under Gentoo with a number of VEs under Debian.

The first problem is, that I obviously can not export directories within the VE. I use the nfs-user-server (as the kernel-server seems not to work in a VE) and when I am exporting a directory based within the VE, I always get a "permission denied" error, when trying to mount that directory from a client.

The interesting part is, when mounting a directory with --bind on the HN into the VE, I am able to export that directory without any problems.

The second problem is, that I would like to use the exported directories for backup purposes. So I have made a crypted disk-image which is mounted into the VE and exported via NFS there. Then I use Apple Backup to upload the information onto the NFS-space, but Backup fails at 2 GB (I am unable to specify that in detail). There is enough diskspace available on the image. Apple Backup gives an Mac OS error -36, which corresponds to the message "I/O error (bummers)". As I have done that before on a not virtualized system, the client-side should be OK.

Does anyone have any idea about that problems?

Greetings,

Matthias

Subject: Re: NFS problems

Posted by dev on Tue, 15 Aug 2006 11:31:46 GMT

View Forum Message <> Reply to Message

- 1) it would be nice to strace NFS server to get the idea why it fails on VE exported directories. Maybe NFS server thinks that it is not ext3 partition and refuses?
- 2) check that NFS server is compiled with large file support. does it try to create a single file with size > 2GB or it is just a total disk space used?

Subject: Re: NFS problems

Posted by commy on Wed, 16 Aug 2006 18:53:53 GMT

View Forum Message <> Reply to Message

Hello!

dev wrote on Tue, 15 August 2006 13:311) it would be nice to strace NFS server to get the idea why it fails on VE exported directories. Maybe NFS server thinks that it is not ext3 partition and refuses?

Unfortunatly I did not have time to try an strace, but I will come to that.

Quote:

2) check that NFS server is compiled with large file support. does it try to create a single file with size > 2GB or it is just a total disk space used?

Obviously the user-space NFS server at least on debian doesn't support large files, so that seems to be the problem.

So I have two options here.

- 1) Getting the kernel-server to run (is that possible in a VE?, It seems the nfs-kernel-server needs one or more devices, but I am unable to discover which devices I have to make available inside the VE)
- 2) Getting a user-space server that supports large files. I tried the debian-source but there was no corresponding configure parameter.

Matthias

Subject: Re: NFS problems

Posted by dev on Thu, 17 Aug 2006 06:56:33 GMT

View Forum Message <> Reply to Message

- 1) theoretically it's not very very hard to get it working in VE, but this requires kernel changes and time to investigate:/
- 2) can you provide the link to the sources of NFS user space server? maybe it is faster to find the way to fix it....

I will definetely ask Vasiliy to check this next week and find a possible way to do it.

Subject: Re: NFS problems

Posted by commy on Thu, 17 Aug 2006 07:16:04 GMT

View Forum Message <> Reply to Message

dev wrote on Thu, 17 August 2006 08:562) can you provide the link to the sources of NFS user space server?

maybe it is faster to find the way to fix it....

I will definetely ask Vasiliy to check this next week and find a possible way to do it.

Sure: http://ftp.debian.org/debian/pool/main/n/nfs-user-server/nfs-user-server_2.2beta47.orig.tar.gz

Matthias

Subject: Re: NFS problems

Posted by Vasily Tarasov on Wed, 23 Aug 2006 13:15:19 GMT

View Forum Message <> Reply to Message

Hello, Commy,

I've done some experiments with user-space nfsd.

Quote:The first problem is, that I obviously can not export directories within the VE. I use the nfs-user-server (as the kernel-server seems not to work in a VE) and when I am exporting a directory based within the VE, I always get a "permission denied" error, when trying to mount that directory from a client.

The problem is that rpc.mountd, rpc.nfsd check for mounted nfs partion on server using major number of device. For simfs major also (like nfs) equals zero - so while checking this they think that nfs is mounted already and don't grant access.

The workaround here is to run rpc.mountd and rpc.nfsd with -r option:

rpc.mountd -r

rpc.nfsd -r

Quote:... but Backup fails at 2 GB ...

user-nfsd implements NFSv2 and this standart version limits size of files to 2 GB! =) So just use unfs3 (http://unfs3.sourceforge.net/) user-space server, that implements NFSv3.

Good luck! =)

Subject: Re: NFS problems [SOLVED:unfs3]

Posted by mike on Fri, 22 Sep 2006 14:43:17 GMT

View Forum Message <> Reply to Message

ACK, unfs3 Just Works (TM). Had to figure out that LTSP did put the directory it was lazy to create into /etc/exports (and unfsd refused to export anything while complaining loudly in a log); after fixing that up, things went bright. Well, there was another patch needed to fix LTSP's terminal image startx script, but that's their lapse at sanitizing input...

Page 4 of 4 ---- Generated from OpenVZ Forum