
Subject: rpc.idmapd in container
Posted by [Bj](#) on Mon, 23 Apr 2012 08:34:04 GMT
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Hi,

I'm trying to setup NFS4 in a container but are having trouble getting the rpc.idmapd daemon process to work.

At startup rpc.idmapd tries to access two proc files which are missing in the container.

```
/proc/net/rpc/nfs4.nametoid/channel  
/proc/net/rpc/nfs4.idtoname/channel
```

They are available on the host node through kernel module nfsd.ko

How do I configure OpenVZ to get these?

Running CentOS 6.2 with
042stab053.5< http://wiki.openvz.org/News/updates#Kernel_RHEL6_042stab053.5_released>

Regards,
Bjorn

Subject: Re: rpc.idmapd in container
Posted by [massimiliano.sciabica](#) on Mon, 23 Apr 2012 09:56:46 GMT
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You can find some hints on Openvz Wiki, but...

Some rpc software
must be patched or substituted with a release that I could not find.

To me, the NFS question is still opened, but I switched to fusefs,
much lighter and performing very well. I suggests you to give it a try.

On Mon, 23 Apr 2012 10:34:04 +0200, Björn Lindgren wrote:

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> Regards,
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Subject: Re: rpc.idmapd in container
Posted by [Bj](#) on Thu, 26 Apr 2012 08:12:39 GMT
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Ok, I see. Sorry FuseFS is no option for us at present time.

Can any OpenVZ developer please fill in? is it at current time possible
or not to get working NFS4 name-to-id mapping in a CT?

/Bjorn

On 04/23/2012 11:56 AM, massimiliano.sciabica@kiiama.com wrote:

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Subject: Re: rpc.idmapd in container
Posted by [kir](#) on Thu, 26 Apr 2012 15:53:34 GMT
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On 04/23/2012 12:34 PM, Björn Lindgren wrote:

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> Running CentOS 6.2 with
> 042stab053.5< http://wiki.openvz.org/News/updates#Kernel_RHEL6_042stab053.5_released>

NFS server (and client) inside container is fully supported, for it to
work you need to

- (1) have kernel module nfsd loaded before starting CT
- (2) have feature nfsd turned on for CT

Both of this is described at
http://wiki.openvz.org/NFS_server_inside_container

Having said that, only NFS v2 and NFS v3 are supported inside CT.

We are currently working on making NFS v4 work inside containers, but we

do it for mainline kernels rather than in RHEL6 kernel. So whenever we will port OpenVZ to any of 3.3 kernels, it will most probably have NFS v4 support. RHEL7-based OpenVZ kernel will have it, too.

Is there any specific reason why you need NFS v4 and not v3?

Subject: Re: rpc.idmapd in container
Posted by [Bj](#) on Mon, 30 Apr 2012 10:32:03 GMT
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On 04/26/2012 05:53 PM, Kir Kolyshkin wrote:
> On 04/23/2012 12:34 PM, Björn Lindgren wrote:
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> will have it, too.
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> Is there any specific reason why you need NFS v4 and not v3?

Thanks for clarifying the status of NFSv4 support in OpenVZ.

We are currently using NFSv3 and some of our applications are dependent on the file locking feature (fcntl/fcntl64 syscall) and we have had troubles getting remote locking to work correctly between CT and the NFS server. Sometimes it do work, but suddenly it stop working or stop working after a reboot of the CT. Looks like it is related to the out-of-band communication between the CT and rpc.lockd on the NFS server, or in the locking functionality in the kernel space in VE or NFS server.

We have found an work-around to the issue by resort to enforcing local locking with mount option "nolock", this enables the applications to run on top of NFSv3 in the VE.

Regards,
Bjorn
