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Subject: Kernel NFS Server in VE

Posted by [gramsa49](#) on Fri, 14 Sep 2012 04:21:23 GMT

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I read through the page covering NFS server inside a container:  
[http://wiki.openvz.org/NFS\\_server\\_inside\\_container](http://wiki.openvz.org/NFS_server_inside_container)

I have a host running the following kernel (Debian Squeeze):

```
root@cluster-02:~# uname -a
Linux cluster-02 2.6.32-5-openvz-amd64 #1 SMP Sun May 6 05:21:56 UTC 2012
x86_64 GNU/Linux
```

The kernel modules are loaded and I can export filesystems from the host and mount them on remote hosts.

I am trying to create a VE where I can run the NFS server, but I can not get this to work properly.

Inside the VE, I get the following when I try to start the NFS server:

```
root@fs01:~# /etc/init.d/nfs-kernel-server start
FATAL: Could not read
'/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file
or directory
Not starting NFS kernel daemon: no support in current kernel. ... (warning).
```

This is the output when I install nfs-kernel-server:

```
root@fs01:~# apt-get install nfs-kernel-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libevent-1.4-2 libgssglue1 libnfsidmap2 librpcsecgss3 nfs-common ucf
The following NEW packages will be installed:
  libevent-1.4-2 libgssglue1 libnfsidmap2 librpcsecgss3 nfs-common
nfs-kernel-server ucf
0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/644 kB of archives.
After this operation, 1774 kB of additional disk space will be used.
Do you want to continue [Y/n]? y
Preconfiguring packages ...
Selecting previously deselected package libevent-1.4-2.
(Reading database ... 14406 files and directories currently installed.)
Unpacking libevent-1.4-2 (from
.../libevent-1.4-2_1.4.13-stable-1_amd64.deb) ...
Selecting previously deselected package libgssglue1.
Unpacking libgssglue1 (from .../libgssglue1_0.1-4_amd64.deb) ...
```

Selecting previously deselected package libnfsidmap2.  
Unpacking libnfsidmap2 (from .../libnfsidmap2\_0.23-2\_amd64.deb) ...  
Selecting previously deselected package librpcsecgss3.  
Unpacking librpcsecgss3 (from .../librpcsecgss3\_0.19-2\_amd64.deb) ...  
Selecting previously deselected package ucf.  
Unpacking ucf (from .../ucf\_3.0025+nmu1\_all.deb) ...  
Moving old data out of the way  
Selecting previously deselected package nfs-common.  
Unpacking nfs-common (from .../nfs-common\_1%3a1.2.2-4squeeze2\_amd64.deb) ...  
Selecting previously deselected package nfs-kernel-server.  
Unpacking nfs-kernel-server (from  
.../nfs-kernel-server\_1%3a1.2.2-4squeeze2\_amd64.deb) ...  
Processing triggers for man-db ...  
Setting up libevent-1.4-2 (1.4.13-stable-1) ...  
Setting up libgssglue1 (0.1-4) ...  
Setting up libnfsidmap2 (0.23-2) ...  
Setting up librpcsecgss3 (0.19-2) ...  
Setting up ucf (3.0025+nmu1) ...  
Setting up nfs-common (1:1.2.2-4squeeze2) ...

Creating config file /etc/idmapd.conf with new version

Creating config file /etc/default/nfs-common with new version

Starting NFS common utilities: statd.

Setting up nfs-kernel-server (1:1.2.2-4squeeze2) ...

Creating config file /etc/exports with new version

Creating config file /etc/default/nfs-kernel-server with new version

Starting NFS common utilities: statd.

FATAL: Could not read

'/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file  
or directory

Not starting NFS kernel daemon: no support in current kernel. ... (warning).

This is the configuration for the VE:

```
root@cluster-02:~# cat /etc/vz/conf/5000.conf
HOSTNAME="fs01"
NAMESERVER="10.0.20.250"
SEARCHDOMAIN="x.org"
ONBOOT="yes"
NAME="fs01"
CONFIG_CUSTOMIZED=yes
AVNUMPROC="180:180"
CPUUNITS="1000"
DCACHESIZE="2147483647:2147483647"
DGRAMRCVBUF="2147483647:2147483647"
```

```
DISKINODES="2147483647:2147483647"
DISKSPACE="2147483647:2147483647"
KMEMSIZE="2147483647:2147483647"
LOCKEDPAGES="2147483647:2147483647"
NUMFILE="2147483647:2147483647"
NUMFLOCK="2147483647:2147483647"
NUMIPTENT="2147483647:2147483647"
NUMOTHERSOCK="2147483647:2147483647"
NUMPROC="2147483647:2147483647"
NUMPTY="2147483647:2147483647"
NUMSIGINFO="2147483647:2147483647"
NUMTCPSOCK="2147483647:2147483647"
OOMGUARPAGES="2147483647:2147483647"
ORIGIN_SAMPLE="vps.basic"
OSTEMPLATE=debian-6.0
OTHERSOCKBUF="2147483647:2147483647"
PHYSPAGES="2147483647:2147483647"
PRIVVMPAGES="2147483647:2147483647"
QUOTATIME="0"
SHMPAGES="2147483647:2147483647"
TCPRCVBUF="2147483647:2147483647"
TCPSNDBUF="2147483647:2147483647"
VMGUARPAGES="2147483647:2147483647"
BOOTORDER="10000"
NETIF=" ifname=eth1,bridge=br10,mac=00:18:51:60:18:34,host_ifname=veth5000.1,host_mac=00:18:51:FB:2F:10;ifname=eth2,bridge=br20,mac=00:18:51:25:D2:67,host_ifname=veth5000.2,host_mac=00:18:51:B3:6E:36;ifname=eth3,bridge=br30,mac=00:18:51:11:79:CA,host_ifname=veth5000.3,host_mac=00:18:51:52:85:39;ifname=eth4,bridge=br40,mac=00:18:51:5E:11:F8,host_ifname=veth5000.4,host_mac=00:18:51:4E:DB:DB "
CAPABILITY="NET_ADMIN:on SYS_ADMIN:on "
FEATURES="sysfs:on nfsd:on nfs:on "
```

Any help would be appreciated.

Thanks,  
Axton Grams

---

Subject: Re: Kernel NFS Server in VE  
Posted by [gramsa49](#) on Fri, 14 Sep 2012 04:28:32 GMT  
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I am using the prerequisite version of vzctl:

```
root@cluster-02:~# vzctl --version
vzctl version 3.0.24
```

Axton Grams

On Thu, Sep 13, 2012 at 11:21 PM, Axton <axton.grams@gmail.com> wrote:

```
> I read through the page covering NFS server inside a container:
> http://wiki.openvz.org/NFS_server_inside_container
>
> I have a host running the following kernel (Debian Squeeze):
>
> root@cluster-02:~# uname -a
> Linux cluster-02 2.6.32-5-openvz-amd64 #1 SMP Sun May 6 05:21:56 UTC 2012
> x86_64 GNU/Linux
>
> The kernel modules are loaded and I can export filesystems from the host
> and mount them on remote hosts.
> I am trying to create a VE where I can run the NFS server, but I can not
> get this to work properly.
>
> Inside the VE, I get the following when I try to start the NFS server:
>
> root@fs01:~# /etc/init.d/nfs-kernel-server start
> FATAL: Could not read
> '/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file
> or directory
> Not starting NFS kernel daemon: no support in current kernel. ...
> (warning).
>
> This is the output when I install nfs-kernel-server:
>
> root@fs01:~# apt-get install nfs-kernel-server
> Reading package lists... Done
> Building dependency tree
> Reading state information... Done
> The following extra packages will be installed:
> libevent-1.4-2 libgssglue1 libnfsidmap2 librpcsecgss3 nfs-common ucf
> The following NEW packages will be installed:
> libevent-1.4-2 libgssglue1 libnfsidmap2 librpcsecgss3 nfs-common
> nfs-kernel-server ucf
> 0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.
> Need to get 0 B/644 kB of archives.
> After this operation, 1774 kB of additional disk space will be used.
> Do you want to continue [Y/n]? y
> Preconfiguring packages ...
> Selecting previously deselected package libevent-1.4-2.
> (Reading database ... 14406 files and directories currently installed.)
> Unpacking libevent-1.4-2 (from
> .../libevent-1.4-2_1.4.13-stable-1_amd64.deb) ...
> Selecting previously deselected package libgssglue1.
```

```
> Unpacking libgssglue1 (from .../libgssglue1_0.1-4_amd64.deb) ...
> Selecting previously deselected package libnfsidmap2.
> Unpacking libnfsidmap2 (from .../libnfsidmap2_0.23-2_amd64.deb) ...
> Selecting previously deselected package librpcsecgss3.
> Unpacking librpcsecgss3 (from .../librpcsecgss3_0.19-2_amd64.deb) ...
> Selecting previously deselected package ucf.
> Unpacking ucf (from .../ucf_3.0025+nmu1_all.deb) ...
> Moving old data out of the way
> Selecting previously deselected package nfs-common.
> Unpacking nfs-common (from .../nfs-common_1%3a1.2.2-4squeeze2_amd64.deb)
> ...
> Selecting previously deselected package nfs-kernel-server.
> Unpacking nfs-kernel-server (from
> .../nfs-kernel-server_1%3a1.2.2-4squeeze2_amd64.deb) ...
> Processing triggers for man-db ...
> Setting up libevent-1.4-2 (1.4.13-stable-1) ...
> Setting up libgssglue1 (0.1-4) ...
> Setting up libnfsidmap2 (0.23-2) ...
> Setting up librpcsecgss3 (0.19-2) ...
> Setting up ucf (3.0025+nmu1) ...
> Setting up nfs-common (1:1.2.2-4squeeze2) ...
>
> Creating config file /etc/idmapd.conf with new version
>
> Creating config file /etc/default/nfs-common with new version
> Starting NFS common utilities: statd.
> Setting up nfs-kernel-server (1:1.2.2-4squeeze2) ...
>
> Creating config file /etc/exports with new version
>
> Creating config file /etc/default/nfs-kernel-server with new version
> Starting NFS common utilities: statd.
> FATAL: Could not read
> '/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file
> or directory
> Not starting NFS kernel daemon: no support in current kernel. ...
> (warning).
>
> This is the configuration for the VE:
>
> root@cluster-02:~# cat /etc/vz/conf/5000.conf
> HOSTNAME="fs01"
> NAMESERVER="10.0.20.250"
> SEARCHDOMAIN="x.org"
> ONBOOT="yes"
> NAME="fs01"
> CONFIG_CUSTOMIZED=yes
> AVNUMPROC="180:180"
```

```
> CPUUNITS="1000"
> DCACHESIZE="2147483647:2147483647"
> DGRAMRCVBUF="2147483647:2147483647"
> DISKINODES="2147483647:2147483647"
> DISKSPACE="2147483647:2147483647"
> KMEMSIZE="2147483647:2147483647"
> LOCKEDPAGES="2147483647:2147483647"
> NUMFILE="2147483647:2147483647"
> NUMFLOCK="2147483647:2147483647"
> NUMIPTENT="2147483647:2147483647"
> NUMOTHERSOCK="2147483647:2147483647"
> NUMPROC="2147483647:2147483647"
> NUMPTY="2147483647:2147483647"
> NUMSIGINFO="2147483647:2147483647"
> NUMTCPSOCK="2147483647:2147483647"
> OOMGUARPAGES="2147483647:2147483647"
> ORIGIN_SAMPLE="vps.basic"
> OSTEMPLATE=debian-6.0
> OTHERSOCKBUF="2147483647:2147483647"
> PHYSPAGES="2147483647:2147483647"
> PRIVVMPAGES="2147483647:2147483647"
> QUOTATIME="0"
> SHMPAGES="2147483647:2147483647"
> TCPRCVBUF="2147483647:2147483647"
> TCPSNDBUF="2147483647:2147483647"
> VMGUARPAGES="2147483647:2147483647"
> BOOTORDER="10000"
>
> NETIF=" ifname=eth1,bridge=br10,mac=00:18:51:60:18:34,host_ifname=veth5000.1,host_mac=00:18:51:FB:2F:10;ifname=eth2,bridge=br20,mac=00:18:51:25:D2:67,host_ifname=veth5000.2,host_mac=00:18:51:B3:6E:36;ifname=eth3,bridge=br30,mac=00:18:51:11:79:CA,host_ifname=veth5000.3,host_mac=00:18:51:52:85:39;ifname=eth4,bridge=br40,mac=00:18:51:5E:11:F8,host_ifname=veth5000.4,host_mac=00:18:51:4E:DB:DB "
> CAPABILITY="NET_ADMIN:on SYS_ADMIN:on "
> FEATURES="sysfs:on nfsd:on nfs:on "
>
> Any help would be appreciated.
>
> Thanks,
> Axton Grams
>
```

---

Subject: Re: Kernel NFS Server in VE  
Posted by [kir](#) on Fri, 14 Sep 2012 04:49:02 GMT  
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On Sep 14, 2012 8:25 AM, "Axton" <axton.grams@gmail.com> wrote:

```
>
> I read through the page covering NFS server inside a container:
> http://wiki.openvz.org/NFS_server_inside_container
>
> I have a host running the following kernel (Debian Squeeze):
>
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x86_64 GNU/Linux
```

Only RHEL5 and 6 based kernels support nfsd in CT. See  
[http://wiki.openvz.org/Install\\_kernel\\_from\\_RPM\\_on\\_Debian\\_6.0](http://wiki.openvz.org/Install_kernel_from_RPM_on_Debian_6.0)

```
>
> The kernel modules are loaded and I can export filesystems from the host
and mount them on remote hosts.
> I am trying to create a VE where I can run the NFS server, but I can not
get this to work properly.
>
> Inside the VE, I get the following when I try to start the NFS server:
>
> root@fs01:/# /etc/init.d/nfs-kernel-server start
> FATAL: Could not read
'/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file
or directory
> Not starting NFS kernel daemon: no support in current kernel. ...
(warning).
```

Apparently it tries to load kernel module. Kernel module is already loaded  
(on the host system). Plus, there are no kernel modules files inside CT.

I guess you have to modify the script to skip trying to install kernel  
module.

```
>
> This is the output when I install nfs-kernel-server:
>
> root@fs01:/# apt-get install nfs-kernel-server
> Reading package lists... Done
> Building dependency tree
> Reading state information... Done
> The following extra packages will be installed:
> libevent-1.4-2 libgssglue1 libnfsidmap2 librpcsecgss3 nfs-common ucf
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> Selecting previously deselected package libgssglue1.
> Unpacking libgssglue1 (from .../libgssglue1_0.1-4_amd64.deb) ...
> Selecting previously deselected package libnfsidmap2.
> Unpacking libnfsidmap2 (from .../libnfsidmap2_0.23-2_amd64.deb) ...
> Selecting previously deselected package librpcsecgss3.
> Unpacking librpcsecgss3 (from .../librpcsecgss3_0.19-2_amd64.deb) ...
> Selecting previously deselected package ucf.
> Unpacking ucf (from .../ucf_3.0025+nmu1_all.deb) ...
> Moving old data out of the way
> Selecting previously deselected package nfs-common.
> Unpacking nfs-common (from .../nfs-common_1%3a1.2.2-4squeeze2_amd64.deb)
...
> Selecting previously deselected package nfs-kernel-server.
> Unpacking nfs-kernel-server (from
.../nfs-kernel-server_1%3a1.2.2-4squeeze2_amd64.deb) ...
> Processing triggers for man-db ...
> Setting up libevent-1.4-2 (1.4.13-stable-1) ...
> Setting up libgssglue1 (0.1-4) ...
> Setting up libnfsidmap2 (0.23-2) ...
> Setting up librpcsecgss3 (0.19-2) ...
> Setting up ucf (3.0025+nmu1) ...
> Setting up nfs-common (1:1.2.2-4squeeze2) ...
>
> Creating config file /etc/idmapd.conf with new version
>
> Creating config file /etc/default/nfs-common with new version
> Starting NFS common utilities: statd.
> Setting up nfs-kernel-server (1:1.2.2-4squeeze2) ...
>
> Creating config file /etc/exports with new version
>
> Creating config file /etc/default/nfs-kernel-server with new version
> Starting NFS common utilities: statd.
> FATAL: Could not read
'/lib/modules/2.6.32-5-openvz-amd64/kernel/fs/nfsd/nfsd.ko': No such file
or directory
> Not starting NFS kernel daemon: no support in current kernel. ...
(warning).
>
> This is the configuration for the VE:

```



```
>
> root@cluster-02:~# cat /etc/vz/conf/5000.conf
> HOSTNAME="fs01"
> NAMESERVER="10.0.20.250"
> SEARCHDOMAIN="x.org"
> ONBOOT="yes"
> NAME="fs01"
> CONFIG_CUSTOMIZED=yes
> AVNUMPROC="180:180"
> CPUUNITS="1000"
> DCACHESIZE="2147483647:2147483647"
> DGRAMRCVBUF="2147483647:2147483647"
> DISKINODES="2147483647:2147483647"
> DISKSPACE="2147483647:2147483647"
> KMEMSIZE="2147483647:2147483647"
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> NUMFLOCK="2147483647:2147483647"
> NUMIPTENT="2147483647:2147483647"
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> NUMPROC="2147483647:2147483647"
> NUMPTY="2147483647:2147483647"
> NUMSIGINFO="2147483647:2147483647"
> NUMTCPSOCK="2147483647:2147483647"
> OOMGUARPAGES="2147483647:2147483647"
> ORIGIN_SAMPLE="vps.basic"
> OSTEMPLATE=debian-6.0
> OTHERSOCKBUF="2147483647:2147483647"
> PHYSPAGES="2147483647:2147483647"
> PRIVVMPAGES="2147483647:2147483647"
> QUOTATIME="0"
> SHMPAGES="2147483647:2147483647"
> TCPRCVBUF="2147483647:2147483647"
> TCPSNDBUF="2147483647:2147483647"
> VMGUARPAGES="2147483647:2147483647"
> BOOTORDER="10000"
>
NETIF=" ifname=eth1,bridge=br10,mac=00:18:51:60:18:34,host_ifname=veth5000.1,host_mac=00:18:51:FB:2F:10;ifname=eth2,bridge=br20,mac=00:18:51:25:D2:67,host_ifname=veth5000.2,host_mac=00:18:51:B3:6E:36;ifname=eth3,bridge=br30,mac=00:18:51:11:79:CA,host_ifname=veth5000.3,host_mac=00:18:51:52:85:39;ifname=eth4,bridge=br40,mac=00:18:51:5E:11:F8,host_ifname=veth5000.4,host_mac=00:18:51:4E:DB:DB "
> CAPABILITY="NET_ADMIN:on SYS_ADMIN:on "
> FEATURES="sysfs:on nfsd:on nfs:on "
>
> Any help would be appreciated.
>
```

> Thanks,  
> Axton Grams  
>

---