

---

Subject: What vzctl --features nfs:on ... do?

Posted by [piavlo](#) on Wed, 20 Aug 2008 10:55:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

I'd like to know exactly what does the vzctl --features nfs:on ... do? When i should be using it? If i have a VE with nfs client, while HN does not have any nfs client/server, is this nfs:on feature useful for me?

ps. does VE has nfs4 client support?

THanks

---

---

Subject: Re: What vzctl --features nfs:on ... do?

Posted by [piavlo](#) on Sat, 23 Aug 2008 21:42:36 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

bump

---

---

Subject: Re: What vzctl --features nfs:on ... do?

Posted by [maratrus](#) on Mon, 25 Aug 2008 11:38:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

each process has a "struct ve\_struct" associated with it (current->ve\_task\_info.exec\_env), this struct contains different information about the VE for example it contains veid field. It also contains "\_\_u64 features" field - it is responsible for the VE features.

When any VE starts the appropriate ve\_struct is created.

So, when you set "nfs feature:on" vzctl put appropriate string inside VEID.conf file and when you start your VE this information goes to features field of the "struct ve\_struct".

During the mount process inside VE nfs\_get\_sb function is called. It checks that VE\_FEATURE\_NFS must be set (if (!ve\_is\_super(ve) && !(get\_exec\_env()->features & VE\_FEATURE\_NFS))) otherwise it returns -ENODEV. So, to be able to mount nfs inside VE we have to set nfs feature for this VE.

Quote:

ps. does VE has nfs4 client support?

Unfortunately, not yet.

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Mon, 25 Aug 2008 14:54:46 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Quote: So, to be able to mount nfs inside VE we have to set nfs feature for this VE. Strange since i've never set this feature explicitly to ON, still i'm able to mount nfs shares from VE. Maybe it is ON by default anyway?

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Mon, 25 Aug 2008 15:02:58 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

try to increase the log level (/etc/vz/vz.conf let's set to 10)  
and then start your VE.  
vzctl must output something like this:

Quote:  
Set features mask \*/\*

then you can find out if nfs\_feature is set.

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Mon, 25 Aug 2008 21:09:04 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I'm getting the following output Set features mask 0000000000000000/0000000000000000 What does it mean?

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Tue, 26 Aug 2008 08:34:51 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

what kernel do you use, what vzctl version do you use?  
Is this issue affected all VEs, i.e. the way to reproduce it - just create any VE?

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Mon, 01 Sep 2008 09:42:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I use several 2.6.18 kernels currently:  
Kernel 2.6.18 028stab056.1  
Kernel 2.6.18 028stab053.14  
Kernel RHEL5 028stab057.2

And i haveSet features mask 0000000000000000/0000000000000000 for all VEs with all these kernels.

What actually does this zero mask mean?

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Mon, 01 Sep 2008 10:45:14 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

you didn't provide with vzctl version you use.

Quote:

What actually does this zero mask mean?

As you can see the mask is shown as two numbers separated by "/" symbol.

Let's name the first number as "feature\_mask", the second one as "known\_mask". What do these numbers mean?

The first number represent the features you want to be enabled/disabled or you don't bother about.

The features you want to be enabled are the features that are in configuration file for particular VE and marked as :on.

The features you want to be disabled are the features that are in configuration file for particular VE and marked as :off.

The features you don't bother about are the features that don't be mentioned in conf file.

So, there are 4 variants:

1. The feature is set in feature\_mask number and set in known\_mask number (1-1)

This means that we know about this feature and want it to be enabled. The kernel must enable this feature for particular VE.

2. (0-1)

This means that we know about this feature and want it to be disabled. The kernel must disable this feature for particular VE.

3. (0-0)

This means that feature is not mentioned in conf file and kernel must set this feature to default value.

4. (1-0)

doesn't make any sence. This situation shouldn't be in real life.

So, we have third situation. I looked through the kernel and haven't been able to find that NFS feature should be enabled as default value.

Does your situation is easily reproducible, i.e. the scenario

- vzctl creat ....
- vzctl start ....
- mount -t nfs ....

always works and you are able to mount nfs inside VE?

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Mon, 01 Sep 2008 13:31:39 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

vzctl-3.0.22

Yes mount -t nfs... always works from inside of VE  
while there is mask 0000000000000000/0000000000000000

I just did vzctl set 111 --features nfs:on --save  
and restarted the VE and now the mask is 0000000000000002/0000000000000002

And then i also add vzctl set 111 --features sysfs:on --save the mask is  
0000000000000003/0000000000000003

So AFAL understand sysfs is least significant bit and nfs is second significant bit. And mask is in decimal or hexadecimal format.

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Mon, 08 Sep 2008 09:24:04 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

So could some one tell me if the 0000000000000000/0000000000000000  
mask is ok or not, considering that both nfs and sysfs is available from VE with  
0000000000000000/0000000000000000 mask?

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Wed, 10 Sep 2008 13:41:14 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

I'm terribly sorry for delay.  
I'm not able to do anything concerning this problem right now.  
I think I can compile test kernel in a week.

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Wed, 17 Sep 2008 12:17:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hello,

no wonder that VE\_FEATURE\_SYSFS is available inside VE because default set of features includes it. But it's very strange from my point of view that NFS is available inside container. Could you possibly try to compile the latest 028stab057.2 rhel5 based kernel with the following debug patch. It only shows VE's features during the environment creation and nfs mounting. So, I'd like you to do the following:

- vzctl stop VE\_ID
- vzctl start VE\_ID
- mount -t nfs ip:dir dir (from inside the VE)

And then please show the dmesg output.

Thank you very much for the patient.

---

### File Attachments

1) [diff-nfs-features-debug](#), downloaded 298 times

---

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [piavlo](#) on Thu, 18 Sep 2008 09:22:53 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

After some testing I can say that it does work properly on 028stab057.2 rhel5 based kernel but not on 028stab053.14 vanilla kernel

Ve with FEATURES="nfs:off" can still mount nfs shares on vanilla kernel in spite of that the features mask reported in vzctl.log is correct 0000000000000000/0000000000000002  
While on rhel5 kernel I get mount.nfs: No such device  
trying to mount nfs share.

---

Subject: Re: What vzctl --features nfs:on ... do?  
Posted by [maratrus](#) on Thu, 18 Sep 2008 11:12:35 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

here is the reason - I've looked through rhel based kernel.

No doubt it's a bug:

[http://bugzilla.openvz.org/show\\_bug.cgi?id=1018](http://bugzilla.openvz.org/show_bug.cgi?id=1018)

Thank you very much for your great patient.

---