Subject: Capabilities issue Posted by kevinm on Tue, 31 Aug 2010 14:35:44 GMT View Forum Message <> Reply to Message

Hi All!

I appear to be having an issue with capabilities inside a openvz container..

The source code that is giving me issues is the following:

I have granted the following capabilities to the virtual server, and restarted it:

Quote:CAPABILITY="CHOWN:on DAC_READ_SEARCH:on DAC_OVERRIDE:on SETGID:on SETUID:on NET_BIND_SERVICE:on NET_ADMIN:on SYS_CHROOT:on SYS_NICE:on SYS_CHROOT:on "

however I get logged to apache error logs :

Quote:[Tue Aug 31 09:31:50 2010] [error] mod_ruid CRITICAL ERROR ruid_setup:cap_set_proc failed

stracing a process, shows

Quote:capset(0x19980330, 0, {CAP_DAC_OVERRIDE|CAP_DAC_READ_SEARCH, CAP_DAC_OVERRIDE|CAP_SETGID|CAP_SETUID, 0}) = -1 EPERM (Operation not permitted)

is there any reason that even though ive granted these capabilities, that im still receiving -1 EPERM (Operation not permitted), I cant see anything wrong with the capabilities granted to the ones that are failing, any advise / assistance would be greatly appreciated.

Subject: Re: Capabilities issue

Posted by maratrus on Thu, 02 Sep 2010 13:10:29 GMT

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Hi,

try granting SETPCAP capability as well. Hope this helps.

Subject: Re: Capabilities issue

Posted by kevinm on Thu, 02 Sep 2010 14:13:29 GMT

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Hi there Maratrus,

Thanks for the answer, I have tried this, and get

Quote:

vzctl restart 130

Restarting container

Stopping container ...

Container was stopped

Container is unmounted

Starting container ...

Container is mounted

Unable to set capability: Operation not permitted

Unable to set capability Container start failed

I see this in the bugzilla:

http://bugzilla.openvz.org/show_bug.cgi?id=554

Is this possible to set?

Best Regards

Subject: Re: Capabilities issue

Posted by maratrus on Fri, 03 Sep 2010 14:50:54 GMT

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Hi,

thanks for providing this bugreport's link. I'm at a loss at the moment because there is a contradiction between vzctl utility and a kernel from my point of view.

Look, at the kernel side the following checkings are made

As I understand, this piece if code implies that it is possible to use "capset" system call from inside the VE. The only thing that must be made is providing CAP_SETCAP capability to it. The standard way to do it is via vzctl.

On the other hand, in the bugreport provided by you we can read

Looks like all linux kernels has init started with CAP_SETPCAP explicitly disabled due to security implications, so that's why nobody (including vzctl) can set it.

OK, we can't set it on boot. But if that means that it's impossible to set this capability at all (after init is started) it must be mirrored in vzctl's man page.

So, I would recommend you to ask this question directly in the existing bugreport to get developer's opinion about this situation and the ways to woraround it.