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Subject: OpenVZ and Lustre

Posted by [rafale](#) on Sat, 05 Apr 2008 11:47:44 GMT

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Hi all,

I would like to know whether someone has ever succeeded in using an OpenVZ node as a Lustre Client.

I use a 2.6.18 vanilla based Kernel which I patched in order to have openVZ support. The creation of the modules for Lustre works but when I try to load them I have got numerous errors.

I hope someone could help me!

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Subject: Re: OpenVZ and Lustre

Posted by [rickb](#) on Sat, 05 Apr 2008 13:12:23 GMT

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Quote:I have got numerous errors

If you are looking for an intelligent response, you will need to be a bit more specific then this.

Rick

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Subject: Re: OpenVZ and Lustre

Posted by [rafale](#) on Sat, 05 Apr 2008 13:32:35 GMT

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Here are what modprobe lustre and dmesg give :

WARNING: Error inserting libcfs (/lib/modules/2.6.18-ovz028stab053.5/kernel/net/lustre/libcfs.ko):  
Invalid module format

WARNING: Error inserting lvfs (/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/lvfs.ko):  
Invalid module format

WARNING: Error inserting lnet (/lib/modules/2.6.18-ovz028stab053.5/kernel/net/lustre/lnet.ko):  
Invalid module format

WARNING: Error inserting obdclass  
(/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/obdclass.ko): Invalid module format

WARNING: Error inserting ptlrpc (/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/ptlrpc.ko):  
Invalid module format

WARNING: Error inserting mdc (/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/mdc.ko):  
Invalid module format

WARNING: Error inserting lov (/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/lov.ko):

Invalid module format

FATAL: Error inserting lustre (/lib/modules/2.6.18-ovz028stab053.5/kernel/fs/lustre/lustre.ko):

Invalid module format

libfs: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

lvfs: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

lnet: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

obdclass: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

ptlrpc: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

mdc: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

lov: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

lustre: version magic '2.6.18-ovz028stab053.5 SMP mod\_unload 686 REGPARM 4KSTACKS gcc-3.4' should be '2.6.18-ovz028stab053.5 mod\_unload 686 4KSTACKS gcc-3.4'

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Subject: Re: OpenVZ and Lustre

Posted by [rickb](#) on Sat, 05 Apr 2008 13:36:32 GMT

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you need to download the kernel source, and compile the kernel and those modules on the same system.

Rick

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Subject: Re: OpenVZ and Lustre

Posted by [rafale](#) on Sat, 05 Apr 2008 13:47:54 GMT

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Ok rickb but that's what I did

I first installed the kernel-smp-2.6.18-ovz028stab053.5.i686.rpm kernel on the node. Then I reboot on this kernel.

I download the vanilla source code 2.6.18 (kernel.org) then I applied the openvz patch :  
patch-ovz028stab053.5-combined.gz

And I finally use Lustre source code (1.6.4.3) to make the rpms for the client (patchless method)

Am I wrong doing that?

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Subject: Re: OpenVZ and Lustre  
Posted by [gorilych](#) on Mon, 07 Apr 2008 05:57:22 GMT  
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try to install src rpm and check if it helps.  
<http://download.openvz.org/kernel/branches/2.6.18/028stab053.5/kernel-2.6.18-ovz028stab053.5.src.rpm>

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Subject: Re: OpenVZ and Lustre  
Posted by [seanfulton](#) on Thu, 10 Apr 2008 16:36:48 GMT  
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Let me know how you make out with this. I tried GFS and it didn't work the way I wanted, and the OpenVZ team suggested staying away from NFS. I am trying to provide an environment where I can fail a VE over to another piece of hardware, preferably using a shared drive among three or more machines.

I'd be interested in knowing your config and how you make out.

Please let me know.

sean

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