Subject: How to setup bonding in a VPS? Posted by oviney on Mon, 02 Apr 2007 16:51:24 GMT

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Hi Support:

I am attempting to setup bonding in a vps but have come to a halt when attempting to configure the modules, see example below:

<snippet>

Make sure bonding module is loaded when the channel-bonding interface (bond0) is brought up. You need to modify kernel modules configuration file:

vi /etc/modprobe.conf

alias bond0 bonding options bond0 miimon=100 </snippet>

I am not sure if I want to install the required package but would like someone to confirm if this is even possible. As I understand it, the vps would have to access the Hardware Node's /proc file system in order for this to work, which according to the design of openvz, appears to be totally restricted, which does makes sense.

Could someone please confirm if it is possible to configure a VPS to use bonding? If it is possible, could someone explain how to work around the issue that a default VPS RHAS server image doesn't contain modprobe (package name mod-utils??)

Also, let me know if you need more information.

Thank you

Subject: Re: How to setup bonding in a VPS? Posted by oviney on Mon, 02 Apr 2007 17:27:22 GMT

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Ok I did a little more research and found that there is a default package that comes with the RHAS 4 update 4 image. The package is called:

default package -> module-init-tools.i386 openvz package -> dummy-centos-4.i386

By default there isn't a /etc/modprobe.conf file create. I decided to try to hack this a bit and created the file manually and placed the following in it:

alias bond0 bonding options bond0 milmon=100

I do notice that if I test the bonding config I get:

[root@caotta000807l ~]# vzctl exec 101 cat /proc/net/bonding/bond0 Ethernet Channel Bonding Driver: v2.6.3 (June 8, 2005)

Bonding Mode: load balancing (round-robin)

MII Status: down

MII Polling Interval (ms): 0

Up Delay (ms): 0 Down Delay (ms): 0

then I look at the message log file:

Apr 2 12:26:08 caotta000807I-1 network: Shutting down loopback interface: succeeded

Apr 2 12:26:08 caotta000807I-1 sysctl: net.ipv4.ip_forward = 0

Apr 2 12:26:08 caotta000807I-1 network: Disabling IPv4 packet forwarding: succeeded

Apr 2 12:26:08 caotta000807I-1 network: Setting network parameters: succeeded

Apr 2 12:26:08 caotta000807I-1 network: Bringing up loopback interface: succeeded

Apr 2 12:26:08 caotta000807I-1 network: Bringing up interface bond0: succeeded

I am still hunting, but I have not idea at this point why this isn't working as expected.

Any help would be appreciated

Subject: Re: How to setup bonding in a VPS?

Posted by oviney on Mon, 02 Apr 2007 18:01:48 GMT

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I ran strace -o strace.out -ff ifup bond0 and have now attached the log output to this topic.

File Attachments

1) strace.out.gz, downloaded 341 times

Subject: Re: How to setup bonding in a VPS?

Posted by Vasily Tarasov on Wed, 04 Apr 2007 13:34:00 GMT

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Hello,

before starting VE in question, please, load bonding kernel module on hardware node.

Vasily.