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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

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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 miimon=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 caotta000807l-1 network: Shutting down loopback interface: succeeded
Apr  2 12:26:08 caotta000807l-1 sysctl: net.ipv4.ip_forward = 0
Apr  2 12:26:08 caotta000807l-1 network: Disabling IPv4 packet forwarding: succeeded
Apr  2 12:26:08 caotta000807l-1 network: Setting network parameters: succeeded
Apr  2 12:26:08 caotta000807l-1 network: Bringing up loopback interface: succeeded
Apr  2 12:26:08 caotta000807l-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

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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.

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#### File Attachments

1) [strace.out.gz](#), downloaded 363 times

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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.

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