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Subject: OpenVZ and OpenVPN  
Posted by [calumi](#) on Sun, 08 Nov 2009 12:21:02 GMT  
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Hello all,

I am new to OpenVZ but not to virtualisation.

I am running 2.6.26-2-openvz-686 (036test001)

I have created a simple VM with the following config:

```
KMEMSIZE="11055923:11377049"  
LOCKEDPAGES="256:256"  
PRIVVMPAGES="65536:69632"  
SHMPAGES="21504:21504"  
NUMPROC="240:240"  
PHYSPAGES="0:2147483647"  
VMGUARPAGES="33792:2147483647"  
OOMGUARPAGES="26112:2147483647"  
NUMTCPSTOCK="360:360"  
NUMFLOCK="188:206"  
NUMPTY="16:16"  
NUMSIGINFO="256:256"  
TCPSNDBUF="1720320:2703360"  
TCPRCVBUF="1720320:2703360"  
OTHERSOCKBUF="1126080:2097152"  
DGRAMRCVBUF="262144:262144"  
NUMOTHERSOCK="360:360"  
NUMFILE="9312:9312"  
DCACHESIZE="3409920:3624960"  
NUMIPTENT="128:128"  
AVNUMPROC="180:180"  
CPUUNITS="1000"  
ONBOOT="yes"  
ORIGIN_SAMPLE="vps.basic"  
DISKSPACE="1048576:1153024"  
DISKINODES="200000:220000"  
QUOTATIME="0"  
OSTEMPLATE=debian  
HOSTNAME="vpn"  
NETIF=" ifname=eth0,mac=00:18:51:67:AD:E1,host_ifname=veth101.0,host  
_mac=00:18:51:91:22:DC "  
CAPABILITY="NET_ADMIN:on NET_RAW:on SYS_ADMIN:on "  
DEVICES="c:10:200:rw "  
IPTABLES="ip_tables ip_conntrack iptable_filter iptable_nat "
```

I have created br0 with eth0 and veth101.0, and have assigned myself a public IP address within the VM (I have a /29 from my ISP). I've added the correct routes.

Everything works fine.

I can ping fine from inside the VM, with low ping times.

```
vpn:~# ping google.co.uk
```

```
PING google.co.uk (216.239.59.104) 56(84) bytes of data.
```

```
64 bytes from gv-in-f104.1e100.net (216.239.59.104): icmp_seq=1 ttl=55 time=68.0 ms  
...snip....
```

```
64 bytes from gv-in-f104.1e100.net (216.239.59.104): icmp_seq=20 ttl=55 time=63.9 ms  
^C
```

```
--- google.co.uk ping statistics ---
```

```
20 packets transmitted, 20 received, 0% packet loss, time 19085ms
```

```
rtt min/avg/max/mdev = 59.055/63.461/69.563/2.892 ms
```

The ping times are nice and constant.

However, when I ping over an OpenVPN link to the other side, I get strange results:

```
vpn:~# ping -c 20 xxx
```

```
PING xxx (xxx) 56(84) bytes of data.
```

```
64 bytes from xxx: icmp_seq=1 ttl=255 time=412 ms
```

```
64 bytes from xxx: icmp_seq=2 ttl=255 time=159 ms
```

```
64 bytes from xxx: icmp_seq=3 ttl=255 time=160 ms
```

```
64 bytes from xxx: icmp_seq=4 ttl=255 time=163 ms
```

```
64 bytes from xxx: icmp_seq=5 ttl=255 time=163 ms
```

```
64 bytes from xxx: icmp_seq=6 ttl=255 time=458 ms
```

```
64 bytes from xxx: icmp_seq=7 ttl=255 time=493 ms
```

```
64 bytes from xxx: icmp_seq=8 ttl=255 time=530 ms
```

```
64 bytes from xxx: icmp_seq=9 ttl=255 time=565 ms
```

```
64 bytes from xxx: icmp_seq=10 ttl=255 time=3573 ms
```

```
64 bytes from xxx: icmp_seq=11 ttl=255 time=3572 ms
```

```
64 bytes from xxx: icmp_seq=12 ttl=255 time=3574 ms
```

```
64 bytes from xxx: icmp_seq=13 ttl=255 time=5568 ms
```

```
64 bytes from xxx: icmp_seq=14 ttl=255 time=4579 ms
```

```
64 bytes from xxx: icmp_seq=15 ttl=255 time=4565 ms
```

```
64 bytes from xxx: icmp_seq=16 ttl=255 time=9563 ms
```

```
64 bytes from xxx: icmp_seq=17 ttl=255 time=11563 ms
```

```
64 bytes from xxx: icmp_seq=18 ttl=255 time=11555 ms
```

```
--- xxx ping statistics ---
```

```
20 packets transmitted, 18 received, 10% packet loss, time 19056ms
```

```
rtt min/avg/max/mdev = 159.752/3401.350/11563.189/3821.773 ms, pipe 6
```

Note the strange increasing ping time.

I have also had the following error while running ping:

```
ping: sendmsg: No buffer space available
```

I'm not sure what the problem is here - I didn't notice this problem when I was running OpenVPN on the host - but I will recheck.

Any ideas, anyone?

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Subject: Re: OpenVZ and OpenVPN  
Posted by [caluml](#) on Sun, 08 Nov 2009 14:43:11 GMT  
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After some testing, I think this is due to my use of the "shaper" openvpn option.

I had shaped the outbound link down, and this seems to have been where the ping (and presumably the other traffic) was having troubles.

Two questions though.

1. Why didn't I get this effect on the host, and
2. What option can I change in the VM to stop getting this problem?

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Subject: Re: OpenVZ and OpenVPN  
Posted by [kir](#) on Sun, 08 Nov 2009 19:11:27 GMT  
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Check your user\_beancounters. [http://wiki.openvz.org/Resource\\_shortage](http://wiki.openvz.org/Resource_shortage)

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Subject: Re: OpenVZ and OpenVPN  
Posted by [caluml](#) on Sun, 08 Nov 2009 20:33:24 GMT  
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Hello Kir,

That is something I checked, and there were no oversteps, apart from 4 for lockedpages.

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Subject: Re: OpenVZ and OpenVPN  
Posted by [kir](#) on Sun, 08 Nov 2009 22:05:28 GMT  
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You had this error:

Quote:ping: sendmsg: No buffer space available

This is probably caused by othersockbuf shortage. Did you really checked all the fail counters?

Other than that, check openvpn logs.

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