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Subject: OpenVZ & Shorewall

Posted by [zoom](#) on Mon, 20 Mar 2006 02:33:49 GMT

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Just wondering if I need to do something special with Shorewall under OpenVZ? I know on Xen I needed to enable bridging etc. Has anyone had any luck with Shorewall using OpenVZ? I should mention that I'm trying to get it working on the Host, not the VPS'..

Thanks.

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Subject: Re: OpenVZ & Shorewall

Posted by [kir](#) on Mon, 20 Mar 2006 06:24:23 GMT

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I anticipate there should not be any problems really.

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Subject: Re: OpenVZ & Shorewall

Posted by [zoom](#) on Mon, 20 Mar 2006 20:23:49 GMT

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There seems to be a problem somewhere. If I reboot the system and use my original kernel, then start shorewall everything seems fine. However, if I attempt to start shorewall using the OpenVZ kernel it doesn't complete and thus locks me out remotely.. I need to reboot, or shutdown shorewall with 'shorewall clear' in order to connect remotely again..

I know the problem isn't the shorewall settings since it works perfectly under the original kernel.. Initially I though it might be the iptable kernel modules, however I did a comparision of both the modules loaded using the original kernel vs the OpenVZ kernel..

Both have the following modules enabled.

```
ipt_length
ipt_ttl
ipt_tcpmss
ipt_TCPMSS
iptables_mangle
iptables_filter
ipt_multiport
ipt_limit
ipt_tos
ipt_REJECT
ip_tables
```

I know that I can enable addition modules in /etc/sysconfig/iptables-config as per the

documentation under advanced tasks ie: iptable\_nat etc.. tried that and still nothing.

I'm not doing anything on the Hardware node that's complex, just providing a simple firewall using shorewall.. Any ideas??? anything else I should be checking???

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Subject: Re: OpenVZ & Shorewall  
Posted by [dev](#) on Mon, 20 Mar 2006 20:42:10 GMT  
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try adding:

```
options ip_conntrack ip_conntrack_enable_ve0=1
```

to /etc/modules.conf

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Subject: Re: OpenVZ & Shorewall  
Posted by [kir](#) on Mon, 20 Mar 2006 20:48:54 GMT  
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You can write a short script like this:

```
F=/tmp/out.ovz
lsmod >> $F
iptables -Ln >> $F
echo "Starting shorewall" >> $F
shorewall start 2>&1 | tee -a $F
echo "Shorewall started" >> $F
lsmod >> $F
iptables -Ln >> $F
echo "Clearing shorewall" >> $F
shorewall clear 2>&1 | tee -a $F
echo "Shorewall cleared" >> $F
lsmod >> $F
iptables -Ln >> $F
```

and run it on openvz box, then change the F and run it on your original kernel. As you see shorewall rules will be cleared so you will have access to the box.

What you do next is compare those two files you get. Run diff -u on them to see the difference (or you could even see some error message from 'shorewall start' command).

If you will still have a problem, post the diff here (as an attachment) and we will take a look.

Regards,  
Kir

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Subject: Re: OpenVZ & Shorewall  
Posted by [kir](#) on Mon, 20 Mar 2006 20:58:53 GMT  
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Quote:try adding 'options ip\_contrack ip\_contrack\_enable\_ve0=1' to /etc/modules.conf

Isn't it enabled by default in all the recent kernels, starting from 062 or so? Hmm I am probably wrong - can't find it in changelogs.

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Subject: Re: OpenVZ & Shorewall  
Posted by [zoom](#) on Tue, 21 Mar 2006 00:21:57 GMT  
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In order to determine what capabilities I have with the original kernel vs the OpenVZ kernel I used the shorewall command "shorewall show capabilities" It seems there are a few differences that could account for it not functioning correctly under the OpenVZ kernel on the Host hardware.

The ones highlighted in Red seem to be missing from OpenVZ.

OpenVZ Kernel IPTables Capabilities:

- NAT: Available
- Packet Mangling: Available
- Multi-port Match: Available
- Extended Multi-port Match: Not available
- Connection Tracking Match: Available
- Packet Type Match: Not available
- Policy Match: Not available
- Physdev Match: Not available
- IP range Match: Available
- Recent Match: Available
- Owner Match: Not available
- Ipset Match: Not available
- CONNMARK Target: Not available
- Connmark Match: Not available
- Raw Table: Not available
- CLASSIFY Target: Available

Original Kernel IPTables Capabilities:

- NAT: Available
- Packet Mangling: Available

Multi-port Match: Available  
 Extended Multi-port Match: Not available  
 Connection Tracking Match: Available  
 Packet Type Match: Available  
 Policy Match: Not available  
 Physdev Match: Available  
 IP range Match: Available  
 Recent Match: Available  
 Owner Match: Available  
 Ipset Match: Not available  
 CONNMARK Target: Not available  
 Connmark Match: Not available  
 Raw Table: Available  
 CLASSIFY Target: Available

This is what lsmod shows running the OpenVZ kernel.

Module	Size	Used by
ipt_TOS	2112	0
ipt_state	1632	12
ipt_SAME	2048	0
ipt_recent	9196	0
ipt_NETMAP	1472	0
ipt_MASQUERADE	2176	0
ipt_MARK	1440	0
ipt_mark	1152	0
ipt_mac	1376	0
ipt_LOG	6176	9
ipt_iprange	1472	0
ipt_helper	1696	0
ipt_conntrack	2240	0
ipt_CLASSIFY	1536	0
ip_nat_irc	3664	0
ip_nat_tftp	2544	0
ip_nat_ftp	4272	0
iptable_nat	26492	6 ipt_SAME, ipt_NETMAP, ipt_MASQUERADE, ip_nat_irc, ip_nat_tftp, ip_nat_ftp
ip_conntrack_irc	70416	1 ip_nat_irc
ip_conntrack_tftp	2640	0
ip_conntrack_ftp	71408	1 ip_nat_ftp
ip_conntrack	35688	13 ipt_state, ipt_SAME, ipt_NETMAP, ipt_MASQUERADE, ipt_helper, ipt_conntrack, ip_nat_irc, ip_nat_tftp, ip_nat_ftp, iptable_nat, ip_conntrack_irc, ip_conntrack_tftp, ip_conntrack_ftp
simfs	3612	2
vzdquota	38576	2 [permanent]
af_packet	16360	0

```

ipt_length      1504 2
ipt_ttl        1632 2
ipt_tcpmss     1920 2
ipt_TCPMSS     3648 2
iptables_mangle 4256 3
iptables_filter 4096 3
ipt_multiport  1760 6
ipt_limit      1952 2
ipt_tos        1408 2
ipt_REJECT     5568 6
ip_tables      20656 25 ipt_TOS, ipt_state, ipt_SAME, ipt_recent, ipt_NETMAP, ipt_MASQUER
ADE, ipt_MARK, ipt_mark, ipt_mac, ipt_LOG, ipt_iprange, ipt_helper
, ipt_conntrack, ipt_CLASSIFY, iptable_nat, ipt_length, ipt_ttl, i
pt_tcpmss, ipt_TCPMSS, iptable_mangle, iptable_filter, ipt_multi port, ipt_limit, ipt_tos, ipt_REJECT
parport_pc     23104 1
lp             7976 0
parport        20544 2 parport_pc, lp
i2c_dev        7872 0
i2c_core       18416 1 i2c_dev
sunrpc         129028 1
vznetdev       12480 5
vzmon          41632 3 vznetdev
vzdev          1792 3 vzquota, vznetdev, vzmon
thermal        10096 0
processor       10244 1 thermal
fan            2668 0
button         4408 0
battery        7052 0
asus_acpi      8920 0
ac             3084 0
usbhid         22240 0
usbmouse       4064 0
uhci_hcd       28656 0
usbcore        100356 5 usbhid, usbmouse, uhci_hcd
3c59x          34408 0
floppy         54192 0
ide_cd         36800 0
cdrom          37212 1 ide_cd

```

I believe the problem is the missing items shown in Red. Comments???

THanks./.

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Subject: Re: OpenVZ & Shorewall  
 Posted by [dev](#) on Tue, 21 Mar 2006 05:59:46 GMT

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zoom,

1. I really believe for a firewall, which should run on different distributions this should not be a problem. Can you describe exactly, what do you do with it, how try to configure it and how it refuses to work? Maybe you can give us an access to your node, so that we checked and resolved it quickly. If so, send me a private message with credentials. If not, it is ok.

2. Actually these modules present in OpenVZ kernel sources, they are just not compiled by default in our binary distribution.

Corresponding to these 4 modules config options are:

```
CONFIG_IP_NF_MATCH_PKTTYPE
CONFIG_IP_NF_MATCH_PHYSDEV
CONFIG_IP_NF_MATCH_OWNER
CONFIG_IP_NF_RAW
```

You can try setting them to 'm', recompile the kernel and check whether it helps. If you are unfamiliar with kernel recompilation procedure, we can describe it to you in more details.

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**Subject: Re: OpenVZ & Shorewall**

Posted by [zoom](#) on Wed, 22 Mar 2006 15:37:40 GMT

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dev,

First, thanks for your help. I've been fighting with this problem for a couple of days now. The reason I suspect it might be a kernel problem is because the script works fine using the original kernel. I don't believe it has anything to do with my shorewall settings simply because it works fine under that situation.

Anyhow, I tried setting the items you indicated and recompiling the kernel. I did run in a couple of problems with it. First I tried the simple thing which is just to build a new kernel from it's sources in place.. no changes.

```
rpm -ivh ovzkernel-2.6.8-022stab072.2.src.rpm
rpmbuild -bb --target=i686 /usr/src/redhat/SPECS/kernel-ovz.spec
```

The problem is that in the end I did get an RPM built, however it wasn't what I was expecting. The RPM created in /usr/src/redhat/RPMS was

```
ovzkernel-debuginfo-2.6.8-022stab072.2.i686.rpm
```

Am I missing something??

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Subject: Re: OpenVZ & Shorewall

Posted by [dev](#) on Wed, 22 Mar 2006 20:26:23 GMT

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what were the error messages reported by rpmbuild?

Can you post it somewhere?

If needed, I can rebuilt it for you with these options to check...

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