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Subject: Re: IPCop template

Posted by [nschembr](#) on Fri, 02 Nov 2007 21:22:04 GMT

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Help. Ok, I'm stuck.

Hardware node# ipconfig

77g-br Link encap:Ethernet HWaddr 00:18:51:8C:B1:31  
inet addr:10.200.1.20 Bcast:10.200.1.255 Mask:255.255.255.0  
inet6 addr: fe80::218:51ff:fe8c:b131/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:2 errors:0 dropped:0 overruns:0 frame:0  
TX packets:11 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:56 (56.0 b) TX bytes:902 (902.0 b)

br0 Link encap:Ethernet HWaddr 00:18:51:D4:35:40  
inet addr:192.168.1.202 Bcast:192.168.1.255 Mask:255.255.255.0  
inet6 addr: fe80::21c:c0ff:fe05:a51/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:16831 errors:0 dropped:0 overruns:0 frame:0  
TX packets:9324 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:24588860 (23.4 MiB) TX bytes:660477 (644.9 KiB)

eth1 Link encap:Ethernet HWaddr 00:1C:C0:05:0A:51  
inet6 addr: fe80::21c:c0ff:fe05:a51/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:16830 errors:0 dropped:0 overruns:0 frame:0  
TX packets:10288 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:100  
RX bytes:24892265 (23.7 MiB) TX bytes:794884 (776.2 KiB)  
Base address:0x30e0 Memory:e0300000-e0320000

lo Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0  
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

veth101.0 Link encap:Ethernet HWaddr 00:18:51:D4:35:40  
inet6 addr: fe80::218:51ff:fed4:3540/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:46 errors:0 dropped:0 overruns:0 frame:0  
TX packets:55 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:4735 (4.6 KiB) TX bytes:4837 (4.7 KiB)

veth104.0 Link encap:Ethernet HWaddr 00:18:51:8C:B1:31  
inet6 addr: fe80::218:51ff:fe8c:b131/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:996 errors:0 dropped:0 overruns:0 frame:0  
TX packets:170 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:83173 (81.2 KiB) TX bytes:11963 (11.6 KiB)

veth105.0 Link encap:Ethernet HWaddr 00:18:51:DE:9A:89  
inet6 addr: fe80::218:51ff:fede:9a89/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:936 errors:0 dropped:0 overruns:0 frame:0  
TX packets:60 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:74816 (73.0 KiB) TX bytes:3512 (3.4 KiB)

veth105.1 Link encap:Ethernet HWaddr 00:18:51:CF:F1:7D  
inet6 addr: fe80::218:51ff:fecf:f17d/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:154 errors:0 dropped:0 overruns:0 frame:0  
TX packets:988 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:10067 (9.8 KiB) TX bytes:80629 (78.7 KiB)

hardware node#route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
10.200.1.0	*	255.255.255.0	U 0 0	0	77g-br		
192.168.1.0	*	255.255.255.0	U 0 0	0	br0		
default	192.168.1.1	0.0.0.0	UG 0 0	0	br0		

Hardware node# brctl show

bridge name	bridge id	STP enabled	interfaces
77g-br	8000.0018518cb131	no	veth105.1
veth104.0			
br0	8000.001851d43540	no	eth1
			veth101.0

## veth105.0

### Smoothwall

fw77 (root) / \$ ifconfig

eth0 Link encap:Ethernet HWaddr 00:18:51:EB:A2:3F  
inet addr:192.168.1.212 Bcast:192.168.1.255 Mask:255.255.255.0  
inet6 addr: fe80::218:51ff:feeb:a23f/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:75 errors:0 dropped:0 overruns:0 frame:0  
TX packets:1338 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:4166 (4.0 Kb) TX bytes:107856 (105.3 Kb)

eth1 Link encap:Ethernet HWaddr 00:18:51:55:11:34  
inet addr:10.200.1.1 Bcast:10.200.1.255 Mask:255.255.255.0  
inet6 addr: fe80::218:51ff:fe55:1134/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:1386 errors:0 dropped:0 overruns:0 frame:0  
TX packets:163 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:113557 (110.8 Kb) TX bytes:10319 (10.0 Kb)

lo Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:33 errors:0 dropped:0 overruns:0 frame:0  
TX packets:33 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:3016 (2.9 Kb) TX bytes:3016 (2.9 Kb)

RX bytes:3016 (2.9 Kb) TX bytes:3016 (2.9 Kb)

fw77 (root) / \$ route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.1.0	*	255.255.255.0	U	0	0	0	eth0
10.200.1.0	*	255.255.255.0	U	0	0	0	eth1
default	192.168.1.1	0.0.0.0	UG	0	0	0	eth0

fw77 (root) / \$

The fw can access 192.168.1.1. and the internet.

The VE host

```
root@localhost:/# ifconfig
eth0    Link encap:Ethernet  HWaddr 00:18:51:27:7F:0A
        inet addr:10.200.1.25  Bcast:10.200.1.255  Mask:255.255.255.0
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:185 errors:0 dropped:0 overruns:0 frame:0
        TX packets:1602 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:12383 (12.0 KiB)  TX bytes:133237 (130.1 KiB)
```

```
root@localhost:/# route
Kernel IP routing table
Destination  Gateway      Genmask      Flags Metric Ref  Use Iface
10.200.1.0   *           255.255.255.0  U    0    0    0 eth0
default     fw77        0.0.0.0       UG    0    0    0 eth0
root@localhost:/#
```

The ve host can access 192.168.1.202, 192.168.1.212 , and 10.200.1.1. but not 192.168.1.1

If I run tcpdump on the hardware node and i ping 192.168.1.1, I can see the traffic from host 10.200.1.25. This sounds like the nat on smoothwall is not working.

Diag test1 diag.pdf is true. I have changed 10.200.50.0/24 to 192.169.1.0/24 for testing.

How do you I turn on Nat inside the ve?