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Subject: arpsend problems

Posted by [pege](#) on Mon, 17 Nov 2008 13:56:25 GMT

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Hello,

I have a cluster of 3 hardware nodes, each with their sets of VEs. On HW2-node I have a VE (call it VE2-1) that should have a specific, public IP address. When tinkering with some VPN issues (VPN from VE2-1 through HW1 to the recipient), somehow the HW1-node took over the IP and now I can't get it back, the error on restart of said VE2-1 says: arpsend: xxx.xxx.xxx.xxx is detected on another computer : XX.....

When running 'arping' to that IP from the HW2 node, I now get answers from both machines (mac addresses of HW1 and HW2, HW2 should be the only one as far as I understand). How can I clear this situation so that HW1 does not hold on to that IP? I can't even understand how the HW1 has anything to do with it since the VE2-1 is under HW2. Maybe VPN configurations (OpenSwan) have somehow messed this up?

Pheef, that doesn't make much sense does it? Well if anyone understands and could help I'd appreciate it

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Subject: Re: arpsend problems

Posted by [maratrus](#) on Mon, 17 Nov 2008 14:21:44 GMT

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Hello,

please look at the arp table of the HN1 node.  
"arp -n" should display it.

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Subject: Re: arpsend problems

Posted by [pege](#) on Mon, 17 Nov 2008 14:34:09 GMT

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On HW1:

arp -n shows a list of IP's but the one with the problem is NOT in the list at all, still 'arping' replies with HW1 own mac-address (note at this time the VE2-1 is using another IP entirely, so no server should have the problematic IP assigned at all).

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Subject: Re: arpsend problems

Posted by [maratrus](#) on Mon, 17 Nov 2008 14:50:41 GMT

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Hello,

could we experiment a little bit  
May be the node is "behind" the HN1 and HN looks like a proxy.  
Check proxy\_arp sysctl parameter on the HN1

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Subject: Re: arpsend problems  
Posted by [pege](#) on Mon, 17 Nov 2008 14:59:09 GMT  
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Heres the output:

```
net.ipv4.conf.default.proxy_arp = 0
```

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Subject: Re: arpsend problems  
Posted by [maratrus](#) on Mon, 17 Nov 2008 15:33:37 GMT  
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Hello,

could you please show "ip a l", "ip rule l", "ip r l table all", "arp -n -v", "ip neigh show" from the HN1?

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Subject: Re: arpsend problems  
Posted by [pege](#) on Mon, 17 Nov 2008 18:14:30 GMT  
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Here they are, public addresses end masked, .XX is the problematic one.

```
hwnode1:~# ip a l
```

```
2: lo: <LOOPBACK,UP,10000> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
4: eth0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:1d:09:71:31:1a brd ff:ff:ff:ff:ff:ff
    inet 83.150.87.YY/24 brd 83.150.87.255 scope global eth0
    inet 10.2.1.100/32 scope global eth0
    inet 10.10.1.154/32 scope global eth0
    inet 83.150.87.XX/32 scope global eth0
```

```
inet 10.10.1.10/32 scope global eth0
inet 83.150.87.ZZ/24 brd 83.150.87.255 scope global secondary eth0:0
inet6 fe80::21d:9ff:fe71:311a/64 scope link
    valid_lft forever preferred_lft forever
6: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
link/ether 00:1d:09:71:31:18 brd ff:ff:ff:ff:ff:ff
inet 10.10.1.1/24 brd 10.10.1.255 scope global eth1
inet 10.10.1.11/24 brd 10.10.1.255 scope global secondary eth1:0
inet6 fe80::21d:9ff:fe71:3118/64 scope link
    valid_lft forever preferred_lft forever
8: sit0: <NOARP> mtu 1480 qdisc noop
link/sit 0.0.0.0 brd 0.0.0.0
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
link/void
```

```
hwnode1:~# ip rule l
0: from all lookup 255
32766: from all lookup main
32767: from all lookup default
```

```
hwnode1:~# ip r l table all
EXTERNAL_VPN_ENDPOINT_1 via 83.150.87.254 dev eth0 src 83.150.87.XX
10.10.1.110 dev venet0 scope link
10.10.1.111 dev venet0 scope link
EXTERNAL_VPN_ENDPOINT_2 via 83.150.87.254 dev eth0 src 83.150.87.XX
10.10.1.109 dev venet0 scope link
10.10.1.115 dev venet0 scope link
10.10.1.112 dev venet0 scope link
EXTERNAL_VPN_ENDPOINT_3 via 83.150.87.254 dev eth0 src 10.10.1.1
10.10.1.102 dev venet0 scope link
10.10.1.103 dev venet0 scope link
10.10.1.101 dev venet0 scope link
83.150.87.0/24 dev eth0 proto kernel scope link src 83.150.87.YY
10.10.1.0/24 dev eth1 proto kernel scope link src 10.10.1.1
default via 83.150.87.254 dev eth0
local 83.150.87.XX dev eth0 table 255 proto kernel scope host src 83.150.87.XX
broadcast 10.10.1.255 dev eth1 table 255 proto kernel scope link src 10.10.1.1
broadcast 127.255.255.255 dev lo table 255 proto kernel scope link src 127.0.0.1
local 10.10.1.11 dev eth1 table 255 proto kernel scope host src 10.10.1.1
local 10.10.1.10 dev eth0 table 255 proto kernel scope host src 10.10.1.10
local 83.150.87.ZZ dev eth0 table 255 proto kernel scope host src 83.150.87.YY
local 10.10.1.154 dev eth0 table 255 proto kernel scope host src 10.10.1.154
local 10.10.1.1 dev eth1 table 255 proto kernel scope host src 10.10.1.1
broadcast 83.150.87.255 dev eth0 table 255 proto kernel scope link src 83.150.87.YY
local 83.150.87.YY dev eth0 table 255 proto kernel scope host src 83.150.87.YY
local 10.2.1.100 dev eth0 table 255 proto kernel scope host src 10.2.1.100
broadcast 127.0.0.0 dev lo table 255 proto kernel scope link src 127.0.0.1
```

```

local 127.0.0.1 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
local ::1 via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::21d:9ff:fe71:3118 via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::21d:9ff:fe71:311a via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
fe80::/64 dev eth0 metric 256 expires 1339630sec mtu 1500 advmss 1440 hoplimit 4294967295
fe80::/64 dev eth1 metric 256 expires 1339630sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev eth0 metric 256 expires 1339630sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev eth1 metric 256 expires 1339630sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo proto none metric -1 error -101 hoplimit 255

```

```
hwnode1:~# arp -n -v
```

Address	HWtype	HWaddress	Flags	Mask	Iface
10.10.1.151	ether	00:1D:09:70:BF:92	C		eth1
10.10.1.203	ether	00:1D:09:71:30:6E	C		eth1
10.10.1.201	ether	00:1D:09:71:30:6E	C		eth1
10.10.1.152	ether	00:1D:09:70:BF:92	C		eth1
10.10.1.209	ether	00:1D:09:71:30:6E	C		eth1
10.10.1.153	ether	00:1D:09:70:BF:92	C		eth1
10.10.1.202	ether	00:1D:09:71:30:6E	C		eth1
10.10.1.159	ether	00:1D:09:70:BF:92	C		eth1
10.10.1.3	ether	00:1D:09:71:30:6E	C		eth1
10.10.1.2	ether	00:1D:09:70:BF:92	C		eth1
83.150.87.254	ether	00:15:C7:21:75:40	C		eth0
10.10.1.103	*	<from_interface>	MP		eth1
10.10.1.102	*	<from_interface>	MP		eth1
10.10.1.115	*	<from_interface>	MP		eth1
10.10.1.112	*	<from_interface>	MP		eth1
10.10.1.111	*	<from_interface>	MP		eth1
10.10.1.110	*	<from_interface>	MP		eth1
10.10.1.109	*	<from_interface>	MP		eth1

```
Entries: 18 Skipped: 0 Found: 18
```

```
hwnode1:~# ip neigh show
```

```

10.10.1.151 dev eth1 lladdr 00:1d:09:70:bf:92 STALE
10.10.1.203 dev eth1 lladdr 00:1d:09:71:30:6e STALE
10.10.1.201 dev eth1 lladdr 00:1d:09:71:30:6e REACHABLE
10.10.1.152 dev eth1 lladdr 00:1d:09:70:bf:92 STALE
10.10.1.209 dev eth1 lladdr 00:1d:09:71:30:6e STALE
10.10.1.153 dev eth1 lladdr 00:1d:09:70:bf:92 STALE
10.10.1.202 dev eth1 lladdr 00:1d:09:71:30:6e STALE
10.10.1.159 dev eth1 lladdr 00:1d:09:70:bf:92 STALE
10.10.1.3 dev eth1 lladdr 00:1d:09:71:30:6e DELAY
10.10.1.2 dev eth1 lladdr 00:1d:09:70:bf:92 REACHABLE
83.150.87.254 dev eth0 lladdr 00:15:c7:21:75:40 DELAY

```

Subject: Re: arpsend problems  
Posted by [maratrus](#) on Tue, 18 Nov 2008 08:38:11 GMT  
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Hello,

arpsend complains about detecting 83.150.87.XX ip address on the HN1 and indeed "ip a l" shows that HN1 holds on this ip.

Quote:  
inet 83.150.87.XX/32 scope global eth0

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Subject: Re: arpsend problems  
Posted by [pege](#) on Tue, 18 Nov 2008 10:31:56 GMT  
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You're right, I did not realize that

These addresses are the ones that the VE2-1 has had assigned (when tweaking with the VPN) and they all seem to now belong to HW1.

```
inet 10.2.1.100/32 scope global eth0
inet 10.10.1.154/32 scope global eth0
inet 83.150.87.XX/32 scope global eth0
```

So, how do I clear them from HW1?

Thanks for your help maratrus!

\*edit\* Never mind, of course normally "ip addr del", thanks a lot, I think this will fix the issue. As you see, I'm a newbie when it comes to networking

\*edit2\* Out of curiosity, do you know WHY this happened (that the HW1 "stole" the IPs)?

\*edit3 - time to stop asking questions? :)\* When restarting ipsec, HW1 took the IP again, so it's an ipsec configuration issue and has nothing to do with OpenVZ, I think

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