Subject: Different subnets confusion
Posted by rvanlooijen on Mon, 25 Oct 2010 10:01:27 GMT
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Hi all,

I have 3 subnets in the same VLAN, and want to use them for both the hosts and the ve's in all combinations. There seems to be a problem when a VE in a different subnet then the host tries to tcp connect to another IP in the host subnet, the strange part is that pings and UDP (DNS) work fine.

Let's say I have subnet A, B and C. The host is in C, VE in B. The VE cannot TCP connect to other hosts in C.

Other traffic, such as from the VE to A or to some other site works fine. Also, inbound traffic (from C to the VE in B works fine).

The following has been added to sysctl on the host:
net.ipv4.conf.all.rp_filter=1
net.ipv4.icmp_echo_ignore_broadcasts=1
net.ipv4.conf.default.forwarding=1
net.ipv4.conf.default.proxy_arp=0
net.ipv4.ip_forward=1
kernel.sysrq=1
net.ipv4.conf.default.send_redirects=1
net.ipv4.conf.all.send_redirects=0
net.ipv4.conf.eth0.proxy_arp=1

And the NEIGHBOUR_DEVS=all setting is also present.
No iptables rules are in place.

I have tried to use source routing as described at the wiki, but I didn't get it to work, only to break entirely (not surprisingly since I don't really understand the problem).

Can someone explain to me what's happening so I can resolve my issues? If you need more details on the platform or configuration, please tell me what you need to know. Any help is really appreciated.