

## Re: Neighbor table overflow. Virus?

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Moe Trin wrote:

On Tue, 24 Jan 2006, in the Usenet newsgroup comp.os.linux.networking, in article <iwwBf.379\$K27.54@xxxxxxxxxxxxxx>, Tauno Voipio wrote:

The PPP client can imagine being a part of the local Ethernet subnet, if the PPP router is using proxy ARP.

I'm really not sure what you are trying to say here. For a dialup, the peer that is dialing in has no concept of ARP - it's not even part of the protocol. The function of the 'proxyarp' option to ANU ppp is to add the "remote" IP address to the arp cache along with the MAC address of "local" system. As ppp is a peer to peer protocol, there can be a maximum number of such addresses - the O/P stated this server had ten dialin lines, which adds just ten IP addresses. For an ISP type of operation (clients on dialin accessing the Internet), proxyarp would be a normal mode unless the server is masquerading.

There is the possibility to run the peer at the remote end of a PPP link as a virtual member of the backbone Ethernet connecting the PPP-to-Ethernet router to the rest of the Net. It is set up so that the PPP link gets an IP address of the backbone local network and the router performs proxy ARP in behalf of the remote PPP end.

In the configuration above, the peer at the remote end of PPP will trigger ARP requests to the backbone addressed to other hosts in the local net. If the PPP user performs a local network scan, it will fill the ARP table at the router.

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