Subject: Awful proxy_arp performance
Posted by tobia on Fri, 03 Jul 2009 15:43:58 GMT
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Hi

I have the following setup:
- Debian Lenny 5.0.1
- Pre-built Debian kernel: linux-image-2.6.26-2-openvz-amd64, version 2.6.26-15
- Standard venet0 routed setup, with ip_forward and proxy_arp enabled

I'm experiencing an awful proxy_arp performance.

ARP requests from a random host on the LAN (let's call it host A) to any VE running on this server, which we'll call host B, take between zero and 800ms to complete. See a frequency graph of 1000 tests, below.

ARP requests from host A to host B (not to a VE) are near-istantaneous (<1ms) as are subsequent pings from A to the VE, after ARP resolution has taken place.

Is there a way to fix this problem without resorting to a bridged veth setup?

In case you want to run the test on your own, here is what I did to measure the times, in Bash:

h=192.168.10.7; for ((i=0; i<1000; i++)) do sudo arp -d $h; ping -nc1 $h | awk -F'[=]' '/bytes from/ {print $10}'; done > times.csv

File Attachments
1) Picture 1.png, downloaded 641 times

Subject: Re: Awful proxy_arp performance
Posted by tobia on Mon, 06 Jul 2009 10:52:01 GMT
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I solved this issue using veth instead of vnet and bridging all the veth* together with eth0. Configured this way, ARP requests are back to a reasonable average of 3ms.

I would still like to know if it can be solved any other way. Isn't vnet supposed to be more efficient than veth?

Subject: Re: Awful proxy_arp performance

Posted by tobia on Tue, 28 Jul 2009 08:07:57 GMT
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tobia wrote on Mon, 06 July 2009 12:52I would still like to know if it can be solved with vnet Anybody??