

RE: dummysnet and vr(4)/egress broken in 4.11 ?

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2005-02/0005.html>

From: Nickolay Kritsky (*Nickolay.Kritsky_at_astra-sw.com*)

Date: 02/01/05

Date: Tue, 1 Feb 2005 19:06:50 +0300

To: "Jeremie Le Hen" <jeremie@le-hen.org>, <freebsd-net@freebsd.org>

Are you using ipnat for NAT'ing? If yes, can you post your ipnat rules?

Nick

-----Original Message-----

From: Jeremie Le Hen [mailto:jeremie@le-hen.org]

Sent: Sunday, January 30, 2005 5:40 PM

To: freebsd-net@freebsd.org

Subject: Re: dummysnet and vr(4)/egress broken in 4.11 ?

> I didn't changed my kernel configuration file so much since my last
> kernel upgrade, I juste added gif(4), IPSEC_FILTERGIF and vr(4).
> I tested using this rule on ingress and egress of both my internal (sis0)
> and external interface (vr0) - inverting IPs where needed :-) - here are
> the results :

>
> | ingress | egress |
> -----+-----+-----+
> vr0 (ext) | OK | - |
> -----+-----+-----+
> sis0 (int) | OK | OK |
> -----+-----+-----+
>

> I think that it is now very important to tell you that while upgrading
> my box to FreeBSD 4.11, I also changed my external interface from a 10
> MBits ep(4) to a 100 MBits vr(4).

>
> I cannot switch back to ep(4) for the moment since it is not an option
> to have downtime, but according to the privous results, I'm pretty
> convinced there is a problem with the vr(4) driver (although I don't
> know how it can impact DUMMYNET). Maybe the last commit on this
> driver in RELENG_4 (sys/pci/if_vr.c, rev 1.26.2.14) is the culprit.

Well, in fact I made further investigation :

- Only TCP seems to be affected. UDP and ICMP appear to work
without packet drop.

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– Switching back from my vr(4) to my ep(4) did not resolve the problem.

Thus, it seems this problem is independant from the network driver (which makes more sense because AFAIK the latters are not involved in DUMMYNET, as they are in ALTQ for example).

I can still use pipes on interface ingress, internal interface egress, but it fails when I use a pipe on egress on my external interface _for packet being forwarded and NATed only_. Weirdly I am still able to use a TCP stream from the router itself.

I'll give a try to a 4.10 kernel ASAP.

Regards,

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