

RE: gratuitous ARP with em interface.

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2003-05/0140.html>

From: Sreekanth (sreekanth_at_redlinenetworks.com)

Date: 05/30/03

To: <akanwar@digitarchy.com>, <freebsd-net@freebsd.org>

Date: Thu, 29 May 2003 17:49:11 -0700

I did a quick test just now and...

Interestingly I did see GARP packets on the network with Em copper connected to a 100base Switch(I don't have a gigabit Copper switch rightnow).

You might want to try these things.

- 1) Ping immediately after the link comes up and see if it succeeds.(In 1000baseTX switch).
- 2) Connect it to a 100Base port and try.
- 3) Connect to another machine with crossover cable and try

First try 1 and if it fails try 2 and 3.

Hope it helps.

Sreekanth

> -----Original Message-----

> From: owner-freebsd-net@freebsd.org

> [<mailto:owner-freebsd-net@freebsd.org>] On Behalf Of

> akanwar@digitarchy.com

> Sent: Thursday, May 29, 2003 4:54 PM

> To: sreekanth@redlinenetworks.com; mvsjetti@hss.hns.com;

> pete@he.iki.fi; ru@freebsd.org;

> freebsdnic@mailbox.cps.intel.com; freebsd-net@freebsd.org;

> akanwar@digitarchy.com

> Subject: RE: gratuitous ARP with em interface.

>

>

> Thanks all for you replies.

>

>> I haven't tried this, but I think the problem would go away if you

>> changed WAIT_FOR_AUTO_NEG_DEFAULT to 0 in "if_em.h".

>

> Changed this. Did not work.

>

>> If u can do kernel debugging put break point at the

>> "arp_ifinit" and verify if this was getting called or

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> > *not..... cheers, mahesh*
>
> *Will try this.*
>
> > *Could be attributed to the spanning tree in the switch.I have*
> > *seen it happening(especially with cisco switches).I bet you*
> > *are not able to send out any packet(Not just Garp).*
>
> *No. Spanning tree is turned off (Tried it with both IOS and*
> *Catalyst switches).*
>
> > *I haven't looked that deep into why, but em is quite slow*
> > *on coming up compared to fxp for example. Probably*
> *something to do with*
> > *hardware re-initialization.*
>
> *Correct, there is a delay. "ifconfig em0 inet x.x.x.x/y"*
> *takes a few seconds to complete whereas "ifconfig fxp0 inet*
> *x.x.x.x/y" returns instantly.*
>
>
> *Is there a way to force gratuitous arp ? (Short of writing a*
> *raw socket*
> *utility)*
>
> *Thanks,*
> *-ansh*
>
> > > *On Wed, May 28, 2003 at 07:57:07PM -0400,*
> > > *akanwar@digitarchy.com wrote:*
> > > >
> > > >
> > > > *Hi all,*
> > > >
> > > > *Is there a known issue with alias IPs on em interfaces not*
> > > *sending out*
> > > > *gratuitous arps ?*
> > > >
> > > > *The situation is as follows:*
> > > > *I am running a custom redundancy daemon that migrates the*
> > > *IP address*
> > > > *of a server from one interface to another in case the*
> > > *active network*
> > > > *path fails. Till now I was experimenting with two fxp*
> > > *interfaces and*
> > > > *everything worked perfectly. i.e. when the ip address moved over*
> > > > *(using a perl script to run ifconfig commands) it sent out*
> > > *grat. arps*
> > > > *for each of its alias IPs. This allowed the router to*
> > > *update its Arp*
> > > > *table and talk to the newly active interface.*

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>

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>
> ---

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>
>

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