pfSense - Bug #8056

Bridge + CARP crashes/freezes pfSense

11/05/2017 10:59 AM - Anonymous

Status:	Resolved		**Start date:**	11/05/2017
Priority:	High		**Due date:**	
Assignee:	Luiz Souza		**% Done:**	100%
Category:	CARP		**Estimated time:**	0.00 hour
Target version:	2.4.3			
Plus Target Version:			**Affected Version:**	2.4.x
Release Notes:	Default		**Affected Architecture:**	All

Description

Same behavior as the linked bug below: running CARP on a bridge interface and sending any non-trivial amount of traffic to the CARP IP results in freezing pfSense.

Older issue: https://redmine.pfsense.org/issues/4607

On a VirtualBox VM the VM just freezes, whereas on real hardware the hardware did not completely freeze (e.g. the serial console was somewhat usable), but various processes ended up in locked state, as per the symptoms dresribed in https://forum.pfsense.org/index.php?topic=139030.0

The problem is mitigated when traffic is sent to the pfSense interface IP instead of the CARP IP.

History

#1 - 11/05/2017 11:15 AM - Anonymous

More context: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=200319

This configuration works well on 2.3.3+ (didn't test any previous releases), but fails on 2.4.1.

#2 - 12/08/2017 12:12 PM - Anonymous

Re-tested a few days ago on 2.4.2 and I can observe the same crash.

Can anyone move this report to status Confirmed, since several people have reported the same issue in the linked forum thread?

#3 - 12/13/2017 01:40 PM - Harry Coin

Confirmed. For detail, see this.
https://redmine.pfsense.org/issues/8145

#4 - 12/13/2017 01:43 PM - Harry Coin

PF deadlocks once every 3 hours or so. There's a process holding a lock (carp lock, bridge lock)? which then I think fires off an ifconfig which in part wants to display carp status and there it sits. Interestingly VGA/keyboard ops are locked, but it is still possible to run any non-network related thread via the serial connection. There's lots of detail on the above referenced report.

#5 - 12/13/2017 09:22 PM - Harry Coin

This is observed on pfsense running in a QEMU/KVM host running Ubuntu/"artful".

#6 - 12/13/2017 09:23 PM - Harry Coin

Happens on both e1000 drivers and virtio drivers.

#7 - 01/26/2018 06:17 AM - James Freeman

Confirmed - I can also replicate this easily. CARP on a bridged interface, tested on 2.4.2 and 2.4.2_1 with no change. pfSense running on VMware ESXi 6.5 and VMware Workstation 14, e1000 emulated NIC's, fully repeatable on both platforms. Happy to help with any testing required on this.

#8 - 01/31/2018 06:43 AM - Adam Boyhan

Confirmed - We have 2 Netgate 8860 1u appliances setup with CARP + Bridge and when upgrading from 2.3.4 to 2.4.2_1 we hit this bug on both firewall's. Sometimes we would be ok for 10-15 minutes, other times we would make it past a hour of uptime. Ended up having to go back to 2.3.4 which is simply rock solid.

#9 - 01/31/2018 07:55 AM - Jim Pingle

- Category set to CARP

- Priority changed from High to Normal

- Affected Version changed from 2.4.1 to 2.4.x

- Affected Architecture All added

- Affected Architecture deleted ()

The underlying FreeBSD bug is still open:
https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=200319

The previous patch that was on 2.2.x and 2.3.x had some issues and was not accepted by FreeBSD:
https://reviews.freebsd.org/D3133

#10 - 01/31/2018 08:45 AM - Luiz Souza

- Status changed from New to Confirmed

- Assignee set to Luiz Souza

#11 - 02/03/2018 10:13 AM - Anonymous

The previous patch works well on 2.3.x. Is it possible to apply the same patch for 2.4.x while FreeBSD folks decide what to do next?

#12 - 02/04/2018 08:03 PM - Luiz Souza

- Priority changed from Normal to High

- Affected Version changed from 2.4.x to 2.4.3

#13 - 02/04/2018 08:05 PM - Luiz Souza

- Target version set to 2.4.3

- Affected Version changed from 2.4.3 to 2.4.x

Set target.

#14 - 02/12/2018 05:26 AM - Scott Maxwell

I have exactly the same issue with my pfSense setup on a Netgate Physical Appliance. Is there any ETA when this will be resolved ?

#15 - 02/22/2018 01:49 PM - Andreas Kaindl

I also have exactly the same issue on netgate appliances 8860. I first thought it is a hardware problem and migrated the config to a pair of SG4860. after 10 mins the same problem again

#16 - 02/26/2018 04:32 AM - Simon Kristensen

I just upgrade my pfsense from 2.3.4-p1 to 2.4.2-Release-p1.
Now I also have the same issue.

Any news on this, Luiz :-) ?

Thanks

#17 - 02/27/2018 04:56 PM - Simon Kristensen

Simon Kristensen wrote:

> I just upgrade my pfsense from 2.3.4-p1 to 2.4.2-Release-p1.
> Now I also have the same issue.
>
> Any news on this, Luiz :-) ?
>
> Thanks

Back to 2.3.5-p1 and it works again.

#18 - 03/14/2018 12:51 PM - Luiz Souza

- Status changed from Confirmed to Feedback

- % Done changed from 0 to 100

This issue seems to be fixed (again) in my local tests.

Please check with tomorrow's snapshot.

#19 - 03/18/2018 03:27 PM - Steve Wheeler

I have tested this. I could easily trigger it in 2.4.2_1 but could not in current snaps. It looks to be solved.

Anyone who was hitting this and is able to please test current 2.4.3 snapshots.

#20 - 03/26/2018 10:06 AM - Jim Pingle

- Status changed from Feedback to Resolved

Tested and resolved.

Files

config-test-fw01.localdomain-20171105164811.xml	17.6 KB	11/05/2017	Anonymous