

pfSense - Feature #4632

Support for Multipath TCP (MPTCP)

04/18/2015 08:17 AM - Cullen Trey

Status:	New	Start date:	04/18/2015
Priority:	Normal	Due date:	
Assignee:	Jim Thompson	% Done:	0%
Category:	Operating System	Estimated time:	0.00 hour
Target version:	Future		

Description

Hi,

i have read a lot of articles about MPTCP recently. So I wondered why the best router OS pfsense is not supporting it. Perhaps none of the developers knows about it? Or FreeBSD is not supporting it? However, for FreeBSD there seems to be some kind of support:

<https://www.freebsd.org/news/status/report-2012-04-2012-06.html#Multipath-TCP-%28MPTCP%29-for-FreeBSD>

But what does MPTCP: It bundles different network connections of the tcp layer, so the application can use multiple (internet) connections without even knowing it.

<https://tools.ietf.org/html/rfc6182>

<https://tools.ietf.org/html/rfc6824>

Why is it so important for me: Well it supports some scenarios which pfsense tries to support i.e. with apinger etc. in a much "better" way: Gateway failover, utilising multiple internet connections in the same tcp session!

IF YOU COULD ADD THIS FEATURE, IT IS POSSIBLE TO BUILD SYSTEMS LIKE THESE: <http://www.viprinet.com>

Even IOS supports it for Siri!

Kind regards and i would love to see this feature!

History

#1 - 02/01/2016 11:36 PM - Jim Thompson

- Assignee set to Jim Thompson

- Target version set to Future

- Affected Architecture set to All

Viprnet is just bonding, not mtcp.

When mtcp shows up in FreeBSD base (not as a side-project), we'll make this work.

<https://lists.freebsd.org/pipermail/freebsd-net/2013-March/034882.html>

#2 - 02/04/2016 08:50 PM - Jim Thompson

update: <https://www.freebsd.org/news/status/report-2015-10-2015-12.html#Multipath-TCP-for-FreeBSD>

Maybe in 11-RELEASE.

#3 - 01/01/2017 05:32 AM - serdar kekik

Hello,

Could you please add this feature on 2.4.0 version?

#4 - 01/13/2017 05:01 AM - Sven Oesterle

I also would like to see it in PfSense.

I'm using MPTCP to bond my three connections (2x VDSL + LTE). It works perfectly! But of course I have to use a minimal linux system with iptables without any graphical interface or something and I really would like to switch back to PfSense :).

#5 - 03/16/2017 10:23 PM - Michael Kellogg

Not sure where this is in development but this could really help me so quick googling

<http://blog.multipath-tcp.org/blog/html/index.html>

#6 - 03/17/2017 12:23 AM - Jim Thompson

when it's in FreeBSD.

#7 - 04/25/2018 10:52 AM - Jens Leinenbach

<https://www.freebsdoundation.org/project/multipath-tcp-for-freebsd/>

#8 - 01/24/2019 04:57 PM - Michael F

+1 here

this is a great added value for pfsense !

#9 - 04/05/2019 05:06 AM - Thomas Möhle

+1

Support for mptcp would be greatly appreciated

#10 - 04/05/2019 05:26 AM - IT IGP

+1

would be great to have

#11 - 11/08/2019 01:03 PM - Bouke Henstra

+1