pfSense - Bug #9592

VTI interface down because interface number created is greater than ipsec32768

06/17/2019 08:34 PM - Steven Perreau

Status:	Feedback		**Start date:**	06/18/2019
Priority:	Normal		**Due date:**	
Assignee:	Renato Botelho		**% Done:**	100%
Category:	IPsec		**Estimated time:**	0.00 hour
Target version:	2.5.0			
Affected Version:	2.4.4-p3		**Affected Architecture:**	

Description

In some conditions, when creating a VTI interface for routed IP, the interface number allocated is very high.

```
<opt9>
<descr><![CDATA[HO_SY1_WAN]]></descr>
<if>ipsec52000</if>
<enable></enable>
<spoofmac></spoofmac>
<mtu>1440</mtu>
<mss>1440</mss>
</opt9>
```

This seems to be happening with firewalls that already have a large number of traditional ipsec p1/p2 tunnels. The first VTI p2 I made started with ipsec52000 and the interface is permanently offline / down. Any additional VTI interfaces I create get an even higher interface number such as ipsec53000.

Obviously this breaks the VTI and you cannot get routed IP to work.

Associated revisions

Revision 3b85b43b - 09/12/2020 04:41 AM - Viktor Gurov

Remove extra 00 padding of VTI interface names. Issue #9592

Revision 1b4cb00f - 09/29/2020 05:21 PM - Viktor Gurov

IPsec PH1 creation fix. Issue #9592

Revision 8f09cee9 - 11/09/2020 07:51 AM - Viktor Gurov

IKEv2 vtimap creation fix. Issue #9592

History

#1 - 06/17/2019 09:58 PM - Brett Merrick

Suggested fix in pull request: https://github.com/pfsense/pfsense/pull/4071

#2 - 09/11/2019 02:07 PM - Jim Pingle

- Status changed from New to Pull Request Review

#3 - 02/24/2020 02:31 PM - Jim Pingle

- Target version set to 2.5.0

PR is now https://github.com/pfsense/pfsense/pull/4190

#4 - 09/17/2020 12:31 PM - Renato Botelho

- Status changed from Pull Request Review to Feedback

- Assignee set to Renato Botelho

- % Done changed from 0 to 100

PR has been merged. Thanks!

#5 - 09/25/2020 09:44 AM - Viktor Gurov

Regression fix:
https://github.com/pfsense/pfsense/pull/4459

#6 - 09/25/2020 11:16 AM - Jim Pingle

- Status changed from Feedback to Pull Request Review

#7 - 09/29/2020 05:22 PM - Renato Botelho

- Status changed from Pull Request Review to Feedback

PR has been merged. Thanks!

#8 - 10/23/2020 12:50 PM - Chris Linstruth

- Assignee changed from Renato Botelho to Chris Linstruth

#9 - 10/23/2020 04:26 PM - Chris Linstruth

I created enough tunnels to get over what used to be 32768. Along the way I created two VTI tunnels. They were given interfaces ipsec3000 and ipsec6000. After there were enough tunnels to push the interface number past 32768, the VTI was given ipsec1.

If that is how it should work, it looks good. If the VTIs are supposed to start at con1 regardless of how many tunnels are already created, it doesn't seem to do that.

#10 - 10/23/2020 04:26 PM - Chris Linstruth

- Assignee changed from Chris Linstruth to Renato Botelho

#11 - 10/24/2020 12:19 AM - Viktor Gurov

Chris Linstruth wrote:

> I created enough tunnels to get over what used to be 32768. Along the way I created two VTI tunnels. They were given interfaces ipsec3000 and ipsec6000. After there were enough tunnels to push the interface number past 32768, the VTI was given ipsec1.
>
> If that is how it should work, it looks good. If the VTIs are supposed to start at con1 regardless of how many tunnels are already created, it doesn't seem to do that.

This is correct, and used for backward compatibility with pre-2.5 vti interface naming
see https://github.com/pfsense/pfsense/blob/3b88d9712b187602e946faeecc5f4902904b6d4c/src/etc/inc/interfaces.inc#L1379

#12 - 10/26/2020 07:07 AM - Renato Botelho

- Status changed from Feedback to Resolved

#13 - 11/06/2020 08:33 AM - Viktor Gurov

- Status changed from Resolved to New

First IPsec IKEv2 creates bogus vtimap entry:

```
<vtimaps>
    <item>
        <reqid></reqid>
        <index>0</index>
        <ifnum>000</ifnum>
    </item>
</vtimaps>
```

it also doesn't create vtimap for the first IPsec IKEv2 VTI.

Fix:
https://gitlab.netgate.com/pfSense/pfSense/-/merge_requests/40

#14 - 11/06/2020 10:06 AM - Viktor Gurov

- Status changed from New to Pull Request Review

#15 - 11/09/2020 07:52 AM - Renato Botelho

- Status changed from Pull Request Review to Feedback

PR has been merged. Thanks!