strongSwan - Issue #3432

Strongswan and Fortigate IPv6 over IPv4

30.04.2020 10:29 - Daniel Sugondo

Status:	Closed		
Priority:	Normal		
Assignee:	Tobias Brunner		
Category:	configuration		
Affected version:	5.7.2	**Resolution:**	No feedback

Description

Hi all,

maybe can anybody help me to solve the issue. I tested this with Strongswan version 5.7.2 as Debian Buster offers and backported version 5.8.2 from Debian Testing too.

I trying to connect as road warrior with strongswan to fortigate, with cisco unity is enabled:
- IPv4 works without any issues. I got address 1.2.15.232/32
- IPv6 over IPv4 tunnel doesn't work properly. I got the address 2001:1:101d:8002::/128

In my case, I got an IPv6 address, but there is no route assigned for IPv6, like IPv4 with table 220, please see attachment routing_table.txt

On the responder (fortigate) I don't see, if the phase 2 for IPv6 ever respond there. Therefore the route isn't pushed to the initiator (strongswan).
Please see attachment 20200429_diag_deb_app_ike_-1_Debian10Client.txt

Just as info, with Forticlient for Windows, I get the IPv6 address and the IPv6 routes. The VPN works also properly. Please see attachment windows_ipsec.txt

The question: can you please tell me a hint, maybe I overlooked something and how can I get the IPv6 run?

N.B.: If you need the log of responder side for forticlient, please tell me, because I don't have Windows at the moment and have to organize it first.

Thank you for your help.

History

#1 - 30.04.2020 15:41 - Tobias Brunner

- Category changed from swanctl to ikev1

- Status changed from New to Feedback

The unity plugin has no support for IPv6, and I don't think our IKEv1 implementation supports multiple virtual IPs (since only one traffic selector can be negotiated per CHILD_SA unless the proprietary Unity extension is used). Just stop using IKEv1.

#2 - 30.04.2020 15:49 - Daniel Sugondo

Did you mean, ikev2 would solve this problem, because there is no unity support needed for ikev2?

#3 - 30.04.2020 16:56 - Tobias Brunner

> Did you mean, ikev2 would solve this problem

I guess that depends on how well Fortigate supports IKEv2. But the protocol supports multiple traffic selectors (subnets) and virtual IPs out of the box.

#4 - 30.04.2020 19:17 - Daniel Sugondo

OK, I'll give it a test.

Thank you!

#5 - 06.05.2020 09:12 - Daniel Sugondo

- File 20200505_strongswan.log added

- File 20200505_routing_table.txt added

- File 20200505_diag_deb_app_ike_-1_Debian10Client.txt added

Hi,

just want to give some feedback.

Fortigate (FortiOS 6.2.3) and IKEv2, it works with some limitations, IPv4 and IPv6 addresses are assigned automatically, like IKEv1.
The Limitations:
1. At the moment I don't get the splitted route information from the responder, I've to set up the splitted route on the initiator side.
Btw. with Forticlient on Windows I don't get IPv6 information, IPv4 address and splitted route information was assigned.
2. I've to search further information about EAP Authentication, how it should be set up.

#6 - 20.05.2020 18:46 - Daniel Sugondo

- File split-tunnel-ikev2.txt added

Hi,

just want to give a little update.

The problem with split tunneling is solved now. See attachment split-tunnel-ikev2.txt.
Not solved yet is the EAP auth.

#7 - 25.09.2020 11:38 - Tobias Brunner

- Category changed from ikev1 to configuration

- Status changed from Feedback to Closed

- Assignee set to Tobias Brunner

- Resolution set to No feedback

#8 - 25.09.2020 12:26 - Daniel Sugondo

Hi Tobias,

the Fortinet guy is still inspect the problem. Therefore I don't actualize the ticket yet, because there is no new status.
We have still problem with EAP login.

Best regards.

#9 - 25.09.2020 12:36 - Tobias Brunner

> the Fortinet guy is still inspect the problem.

Four months?

> We have still problem with EAP login.

Please create a new ticket if you actually have new information etc.

Files

20200429_strongswan.log	23.6 KB	30.04.2020	Daniel Sugondo
20200429_swanctl.conf	861 Bytes	30.04.2020	Daniel Sugondo
20200429_fortigate.cfg	1.62 KB	30.04.2020	Daniel Sugondo
routing_table.txt	3.98 KB	30.04.2020	Daniel Sugondo
windows_ipsec.txt	14.6 KB	30.04.2020	Daniel Sugondo
20200429_diag_deb_app_ike_-1_Debian10Client.txt	87.1 KB	30.04.2020	Daniel Sugondo
20200505_routing_table.txt	2.66 KB	06.05.2020	Daniel Sugondo
20200505_strongswan.log	6.44 KB	06.05.2020	Daniel Sugondo
20200505_diag_deb_app_ike_-1_Debian10Client.txt	58.2 KB	06.05.2020	Daniel Sugondo