

strongSwan - Issue #3563

Route-based VPN - remote TS 0.0.0.0/0.0.0.0

15.09.2020 12:09 - Jiri Zendulka

Status: Closed	
Priority: Normal	
Assignee:	
Category: network / firewall	
Affected version: 5.8.4	Resolution: No change required
Description	
<p>There is a mention in documentation about route-based ipsec that it is possible to use 0.0.0.0/0.0.0.0 as local/remote TS. I try use it as remote TS but without success. SA is installed but packets are not routed via ipsecX interface. I guess that it is needed to add a route but I dont know where. If a remote TS is such as 172.16.0.0/16 then it is possible to add route by cmd "ip route add 172.16.0.0/16 dev ipsecX" and everything works. But how to do it if a remote TS is set to 0.0.0.0/0.0.0.0?</p>	
Daemon Information:	
<pre>strongSwan swanctl 5.8.4 uptime: 11 seconds, since Sep 15 11:43:41 2020 worker threads: 16 total, 11 idle, working: 4/0/1/0 job queues: 0/0/0/0 jobs scheduled: 3 IKE_SAs: 1 total, 0 half-open mallinfo: sbrk 532480, mmap 0, used 195576, free 336904 loaded plugins: charon nonce pubkey pem openssl kernel-netlink socket-default forecast farp vici u pdown xauth-generic dhcp</pre>	
Connections:	
<pre>ipsec3: IKEv2, no reauthentication, rekeying every 3060s local: 0.0.0.0 remote: 192.168.7.232 local pre-shared key authentication: id: ipsec3 remote pre-shared key authentication: id: 192.168.7.232 ipsec3: TUNNEL, rekeying every 3060s local: 172.22.169.252/30 remote: 0.0.0.0/0</pre>	
Security Associations:	
<pre>ipsec3: #1, ESTABLISHED, IKEv2, dd47bed01361eaac_i* 0c41c39647b6a4a7_r local 'ipsec3' @ 192.168.7.100[4500] remote '192.168.7.232' @ 192.168.7.232[4500] AES_GCM_16-256/PRF_HMAC_SHA2_256/MODP_1024 established 9s ago, rekeying in 2543s, reauth in 2303s ipsec3: #1, reqid 1, INSTALLED, TUNNEL, ESP:AES_GCM_16-256 installed 9s ago, rekeying in 2618s, expires in 3591s in ce7bc4b1 (- 0x00000003), 0 bytes, 0 packets out c18aee89 (- 0x00000003), 0 bytes, 0 packets local 172.22.169.252/30 remote 0.0.0.0/0</pre>	
Many Thanks.	

History

#1 - 15.09.2020 12:16 - Tobias Brunner

- Status changed from New to Feedback

But how to do it if a remote TS is set to 0.0.0.0/0.0.0.0?

What do you mean?

#2 - 15.09.2020 12:29 - Jiri Zendulka

It cannot be added route 0.0.0.0/0.0.0.0 to ipsecX...

```
# ip route add 0.0.0.0/0.0.0.0 dev ipsec3
RTNETLINK answers: File exists

# ip route show
default via 192.168.7.1 dev eth2
172.22.169.252/30 dev eth0 proto kernel scope link src 172.22.169.253 linkdown
192.168.7.0/24 dev eth2 proto kernel scope link src 192.168.7.100
192.168.7.1 dev eth2 scope link
```

#3 - 15.09.2020 12:31 - Tobias Brunner

It cannot be added route 0.0.0.0/0.0.0.0 to ipsecX...

Seems you have no idea what you are doing or why.

#4 - 15.09.2020 12:43 - Jiri Zendulka

So it is not possible to use remote TS 0.0.0.0/0.0.0.0 in route-based IPsec? It works in policy-based IPsec. In that mode it is not needed to add any route...so I am wondering how to do it in route-based IPsec.

#5 - 15.09.2020 13:37 - Jiri Zendulka

I added route to the remote side address and then it is possible to change default gw to ipsec3.

```
# ip route
*default dev ipsec3 scope link*
172.22.169.252/30 dev eth0 proto kernel scope link src 172.22.169.253 linkdown
192.168.7.0/24 dev eth2 proto kernel scope link src 192.168.7.100
192.168.7.1 dev eth2 scope link
*192.168.7.232 dev eth2 scope link*
```

#6 - 15.09.2020 13:38 - Tobias Brunner

So it is not possible to use remote TS 0.0.0.0/0.0.0.0 in route-based IPsec?

Sure it is. But if you use route-base VPNs you have to know how to work with routes or even what your goal is. I really think you are confused.

#7 - 15.09.2020 13:47 - Jiri Zendulka

You can close the issue.

#8 - 15.09.2020 13:48 - Tobias Brunner

- Category set to network / firewall
- Status changed from Feedback to Closed
- Resolution set to No change required