strongSwan - Issue #3430
VPN tunnel IPSec IKEV2 with Checkpoint R77.30 with multiple/infinite Phase 2 installs
28.04.2020 19:05 - Jorge Rovira

Status: Feedback
Priority: Normal
Assignee: 
Category: interoperability
Affected version: 5.6.2
Resolution:

Description
Dear Strongswan team,

We are struggling to establish a site 2 site IPSec VPN tunnel from our Strongswan instance running 5.6.2 and a checkpoint R77.30. With the same configuration we have two other VPNs established with no problems, but the Checkpoint somehow does not want to cooperate. Can you point us to the right direction or let us know if there is anything we might not have right in the configuration? Thanks!

The config for the tunnel is:

```
config setup
#charondebug=all
charondebug="ikev2 4 kbl 4, cfg 4"
uniqueids=yes
strictorpolicy=no

conn %default
authby=psk
type=tunnel
keyexchange=ike

 1. pfs=yes

#Misc timeout settings
dpaction=clear
dpdelay=300s
auto=start
#reauth=no
#rekey=no
#modeconfig=push

conn c4
  #Phase1
  ike=aes256-sha1-modp2048!
  #Phase 2
  esp+aes128-sha1-modp1024!

left=%defaultroute
leftid=35.227.30.42
leftsubnet=10.1.0.5/32

right=200.7.90.6
rightid=200.7.90.6
rightsubnet=172.22.138.160/27
```

Here the logs:

```
5[NET] received packet: from 200.7.90.6 to 10.0.2.2 (380 bytes)
15[ENC] parsed CREATE_CHILD_SA request 74 [ SA No KE TSi TSr (ESP_TFC_PAD_N) N(NON_FIRST_FRAG) ]
15[IKE] received ESP_TFC_PADDING_NOT_SUPPORTED, not using ESPv3 TFC padding
15[IKE] CHILD_SA c4(79) established with SPIs cb0330fe_i b435f86e_o and TS 10.1.0.5/32 === 172.22.138.160/27
15[ENC] generating CREATE_CHILD_SA response 74 [ SA No KE TSi TSr ]
15[NET] sending packet: from 10.0.2.2 to 200.7.90.6 (348 bytes)
```
pr 28 16:55:41 ipsec-us-east1 charon: 05[NET] received packet: from 200.7.90.6 4500 to 10.0.2.2 4500 (380 bytes)
Apr 28 16:55:41 ipsec-us-east1 charon: 05[ENC] parsed CREATE_CHILD_SA request 1006 [ SA No KE TSi TSr N(ESP_TFC_PAD_N) N(NON_FIRST_FRAG) ]
Apr 28 16:55:41 ipsec-us-east1 charon: 05[IKE] received ESP_TFC_PADDING_NOT_SUPPORTED, not using ESPv3 TFC padding
Apr 28 16:55:41 ipsec-us-east1 charon: 05[IKE] CHILD_SA c4{1663} established with SPIs c0588b1a_i f551647c_o and TS 10.1.0.5/32 === 172.22.138.160/27
Apr 28 16:55:41 ipsec-us-east1 charon: 05[NET] sending packet: from 10.0.2.2 4500 to 200.7.90.6 4500 (348 bytes)

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Can you point us to the right direction or let us know if there is anything we might not have right in the configuration?

No idea. You might want to contact somebody who knows anything about Checkpoint. It just looks like it keeps establishing the same CHILD_SA over and over. strongSwan as responder can’t really influence that.