

strongSwan - Issue #3437

IKEV1 use aggressive mode cann't establish success

07.05.2020 10:22 - ray chao

Status: Closed	
Priority: Normal	
Assignee: Tobias Brunner	
Category: ikev1	
Affected version: 5.8.4	Resolution: No change required
Description	
<p>I'm try to test ikev1 and ikev2 at main mode and aggressive mode if establish success. When test ikev1 aggressive mode the connection will connection fail. I am trying to connect the client and the server my configuration is :</p>	
<pre># ipsec.secrets - strongSwan Client IPsec secrets file: 10.10.10.13 10.10.10.10 : PSK "111111" config setup conn test2 aggressive=yes authby=secret left=10.10.10.13 leftsourceip=192.168.128.254 right=10.10.10.10 leftsubnet=192.168.128.0/24 rightsubnet=192.168.127.0/24 type=tunnel esp=aes128-sha256-modp2048 rekeymargin=9m rekeyfuzz=100% keyingtries=%forever keyexchange=ikev1 ikelifetime=1h keylife=20m ike=aes128-sha256-modp2048 auto=start dpddelay=30 dpdtimeout=120 dpdaction=hold conn any_wan0 left=10.10.10.13 leftsourceip=10.10.10.13 right=%any ##### # ipsec.secrets - strongSwan Client IPsec secrets file: 10.10.10.10 10.10.10.13 : PSK "111111" config setup conn test3 aggressive=yes authby=secret left=10.10.10.10 leftsourceip=192.168.127.254 right=10.10.10.13 leftsubnet=192.168.127.0/24 rightsubnet=192.168.128.0/24 type=tunnel esp=aes128-sha256-modp2048 rekeymargin=9m</pre>	

```
rekeyfuzz=100%
keyingtries=%forever
keyexchange=ikev1
ikelifetime=1h
keylife=20m
ike=aes128-sha256-modp2048
auto=start
dpddelay=30
dpdtimeout=120
dpdaction=hold
conn any_wan0
left=10.10.10.10
leftsourceip=10.10.10.10
right=%any
```

I got this result in both peers:

client side:

```
2020-05-07T08:17:19+0000 09[IKE] received XAuth vendor ID
2020-05-07T08:17:19+0000 09[IKE] received DPD vendor ID
2020-05-07T08:17:19+0000 09[IKE] received FRAGMENTATION vendor ID
2020-05-07T08:17:19+0000 09[IKE] received NAT-T (RFC 3947) vendor ID
2020-05-07T08:17:19+0000 09[IKE] received draft-ietf-ipsec-nat-t-ike-02\n vendor ID
2020-05-07T08:17:19+0000 09[IKE] 10.10.10.10 is initiating a Aggressive Mode IKE_SA
2020-05-07T08:17:19+0000 09[CFG] selected proposal: IKE:AES_CBC_128/HMAC_SHA2_256_128/PRF_HMAC_SHA2_256/MO
2020-05-07T08:17:19+0000 09[IKE] Aggressive Mode PSK disabled for security reasons
2020-05-07T08:17:19+0000 09[ENC] generating INFORMATIONAL_V1 request 1361536678 [ N(AUTH_FAILED) ]
2020-05-07T08:17:19+0000 09[NET] sending packet: from 10.10.10.13[500] to 10.10.10.10[500] (56 bytes)
2020-05-07T08:17:23+0000 10[IKE] sending retransmit 1 of request message ID 0, seq 1
2020-05-07T08:17:23+0000 10[NET] sending packet: from 10.10.10.13[500] to 10.10.10.10[500] (524 bytes)
2020-05-07T08:17:23+0000 11[NET] received packet: from 10.10.10.10[500] to 10.10.10.13[500] (56 bytes)
2020-05-07T08:17:23+0000 11[ENC] parsed INFORMATIONAL_V1 request 3518630573 [ N(AUTH_FAILED) ]
2020-05-07T08:17:23+0000 11[IKE] received AUTHENTICATION_FAILED error notify
```

server side:

```
2020-05-07T08:16:03+0000 10[IKE] received XAuth vendor ID
2020-05-07T08:16:03+0000 10[IKE] received DPD vendor ID
2020-05-07T08:16:03+0000 10[IKE] received FRAGMENTATION vendor ID
2020-05-07T08:16:03+0000 10[IKE] received NAT-T (RFC 3947) vendor ID
2020-05-07T08:16:03+0000 10[IKE] received draft-ietf-ipsec-nat-t-ike-02\n vendor ID
2020-05-07T08:16:03+0000 10[IKE] 10.10.10.13 is initiating a Aggressive Mode IKE_SA
2020-05-07T08:16:03+0000 10[CFG] selected proposal: IKE:AES_CBC_128/HMAC_SHA2_256_128/PRF_HMAC_SHA2_256/MODP_2048
2020-05-07T08:16:03+0000 10[IKE] Aggressive Mode PSK disabled for security reasons
2020-05-07T08:16:03+0000 10[ENC] generating INFORMATIONAL_V1 request 3518630573 [ N(AUTH_FAILED) ]
2020-05-07T08:16:03+0000 10[NET] sending packet: from 10.10.10.10[500] to 10.10.10.13[500] (56 bytes)
```

I can't recognize where the fail is!! The selected proposal:

IKE:AES_CBC_128/HMAC_SHA2_256_128/PRF_HMAC_SHA2_256/MODP_2048

and pre-share-key is same.

History

#1 - 07.05.2020 11:34 - Tobias Brunner

- Category set to ikev1

- Status changed from New to Feedback

See [FAQ](#).

#2 - 07.05.2020 11:58 - ray chao

According to the <https://wiki.strongswan.org/projects/strongswan/wiki/FAQ#Aggressive-Mode>

With Aggressive Mode, a hash of the pre-shared key is transmitted in clear-text.

From my understand, recommend to avoid use this combination (Aggressive Mode + pre-share key).

But if must use it, it's required to set `charon.i_dont_care_about_security_and_use_aggressive_mode_psk=yes` in `strongswan.conf`.

Is my understanding correct?

#3 - 25.09.2020 11:41 - Tobias Brunner

- *Status changed from Feedback to Closed*
- *Assignee set to Tobias Brunner*
- *Resolution set to No change required*