

strongSwan - Issue #3152

Problem connecting from Windows 7 but not from mobile

19.08.2019 18:36 - Farhad Sakhaei

Status:	Closed	
Priority:	Normal	
Assignee:	Tobias Brunner	
Category:	interoperability	
Affected version:	5.8.0	Resolution: Duplicate
Description		
<p>I tested this case on 3 different internet connections, On my mobile phone (Android StrongSwan client) I can connect to my StrongSwan VPN connection using all 3 internet connections But on Windows 7 I can connect using just one of my internet connections and cannot using 2 others It seems the problem related to Windows 7 itself! Because I can connect using the same internet connection and Wifi on mobile But it is strange which I can connect using one of those 3 connections on Windows 7! What can be the problem? Appreciate for any help</p>		
<pre>config setup # locally = left # remote = right # If the same user repeatedly logs in on a different device, yes disconnects the old connection, creates a new connection; # no keeps the old connection and sends a notification; never with no, but does not send a notification. uniqueids = never # Define the connection item, named %default, all connections will inherit it conn %default # Whether compression is enabled, yes means that if compression is enabled, it will be enabled . compress = yes # Data transfer protocol encryption algorithm list # The public IP address of the server can be the magic word %any, which means that it is taken from the local IP address table. left = %any # Server terminal network, magic word 0.0.0.0/0. If the virtual IP address is assigned to the client, it means that after iptables forwarding, the server must use the magic word. leftsubnet = 0.0.0.0/0 # whether the participant is doing forwarding-firewalling (including masquerading) using iptables for traffic from subnet, which should be turned off for traffic to the other subnet leftfirewall = yes rightfirewall = yes # The port used by the server for ike authentication. The default is 500. If nat forwarding is used, 4500 is used. #leftikeport = 600 #rightikeport = 4550 # Client IP, same as above right = %any # Client virtual IP segment rightsourceip = 192.168.100.0/24 # Client id, arbitrary rightid = %any # Specify the DNS between the server and the client, separated by ", " leftdns = 8.8.8.8,8.8.4.4 rightdns = 8.8.8.8,8.8.4.4 # ios, mac os, win7+, linux conn ANDROID-STRONGSWAN type = transport</pre>		

```
esp = aes256-sha256,aes256-sha1,3des-sha1!
# Key exchange protocol encryption algorithm list
ike = aes256-sha256-modp2048,aes256-sha1-modp2048,aes128-sha1-modp2048,3des-sha1-modp2048,aes2
56-sha256-modp1024,aes256-sha1-modp1024,aes128-sha1-modp1024,3des-sha1-modp1024!
# Server authentication method, using certificate
leftauth = pubkey
rekey=no
# Server certificate, which can be in PEM or DER format
leftcert = server.cert.pem
# Specify the public key of the server certificate
leftsigkey = server.pub.pem
# The server ID can be arbitrarily specified. The default is the subject of the server certifi
cate, or the magic word %any, which means nothing.
leftid = 185.17.146.30
# Client authentication uses EAP extended authentication, looks like eap-mschapv2 is more gene
ral
rightauth = eap-mschapv2
# Specify client eap id
eap_identity = %any
# Enable IKE message fragmentation
fragmentation = yes
forceencaps = yes
mobike=yes
# How to handle this connection when the service starts. Add is added to the connection table.
auto = add

conn android_xauth_psk
keyexchange=ikev1
leftauth=psk
rightauth=psk
rightauth2=xauth
fragmentation = yes
forceencaps = yes
mobike=yes
auto=add

conn networkmanager-strongswan
leftauth=pubkey
leftcert = server.cert.pem
rightauth=pubkey
rightcert= client.cert.pem
auto=add

conn windows7
keyexchange=ikev2
ike=aes256-sha1-modp1024!
rekey=no
leftauth=pubkey
leftcert=server.cert.pem
rightauth=eap-mschapv2
rightsendcert=never
eap_identity=%any
fragmentation = yes
forceencaps = yes
mobike=yes
auto=add
```

Related issues:

Is duplicate of Issue #965: Windows 8.1 cannot connect to strongSwan on IKEv2...

Closed

History

#1 - 20.08.2019 09:32 - Tobias Brunner

- Is duplicate of Issue #965: Windows 8.1 cannot connect to strongSwan on IKEv2 error 809 added

#2 - 20.08.2019 09:32 - Tobias Brunner

- Category changed from windows to interoperability
- Status changed from New to Closed
- Assignee set to Tobias Brunner
- Priority changed from High to Normal
- Resolution set to Duplicate

What can be the problem?

Probably an IP fragmentation issue. Windows 7 does not support IKE fragmentation (recent releases of Windows 10 do), so large IKE messages are fragmented on the IP level and such fragments are often dropped by ISPs. See the referenced issue for more.

#3 - 20.08.2019 10:28 - Farhad Sakhaei

Thanks for the reply,
is it possible to add fragmentation support to Windows 7?
Or another way to authenticate like a certificate method for Windows 7?

#4 - 20.08.2019 10:29 - Farhad Sakhaei

Tobias Brunner wrote:

What can be the problem?

Probably an IP fragmentation issue. Windows 7 does not support IKE fragmentation (recent releases of Windows 10 do), so large IKE messages are fragmented on the IP level and such fragments are often dropped by ISPs. See the referenced issue for more.

Thanks for the reply,
is it possible to add fragmentation support to Windows 7?
Or another way to authenticate like a certificate method for Windows 7?

#5 - 20.08.2019 10:44 - Noel Kuntze

No, fragmentation support can not be added. This is a problem on the Windows side. Please provide a log as shown on the [HelpRequests](#) page.

#6 - 20.08.2019 10:52 - Farhad Sakhaei

Noel Kuntze wrote:

No, fragmentation support can not be added. This is a problem on the Windows side. Please provide a log as shown on the [HelpRequests](#) page.

So this means we can't use certificate-based authentication too? Or it will work on Windows 7?

#7 - 20.08.2019 11:31 - Noel Kuntze

Windows 7 does not support IKE fragmentation (recent releases of Windows 10 do),[...]

#8 - 21.08.2019 23:51 - Farhad Sakhaei

Noel Kuntze wrote:

Windows 7 does not support IKE fragmentation (recent releases of Windows 10 do),[...]

OK, I connected through one of my internet connections which didn't have any problem, then switched my Wifi to another connection which has problems of connecting,
The VPN connection is still connected and it is working great!
It seems that the problem is with authentication only, not the whole transfer
So is there any solution to bypass this step?

#9 - 22.08.2019 13:21 - Noel Kuntze

Try giving the clients the certificate of the server and set leftsendcert=no. If authenticating the Windows client against the server then still works, this might be a viable solution for you. If you do that, the certificate needs to be always the same one the server has though and I don't know if that is a possible solution at all.

And yes, IKE is only the management protocol. Data traffic is passed through the ESP or ESP in UDP protocol.

#10 - 23.08.2019 10:14 - Farhad Sakhaei

Noel Kuntze wrote:

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Thank you for your following issues,

I installed the server certificate on the client, still didn't success on authentication,

Is it possible to add l2tp support to Strongswan to cover Windows 7 clients?

Thank you for your support

#11 - 24.08.2019 23:23 - Farhad Sakhaei

Noel Kuntze wrote:

Try giving the clients the certificate of the server and set leftsendcert=no. If authenticating the Windows client against the server then still works, this might be a viable solution for you. If you do that, the certificate needs to be always the same one the server has though and I don't know if that is a possible solution at all.

And yes, IKE is only the management protocol. Data traffic is passed through the ESP or ESP in UDP protocol.

Hiiii

I downloaded and installed TheGreenBow VPN Client (https://www.thegreenbow.com/vpn_products.html)

It works on Windows 7 with support of fragmentation, Although I didn't check that option,

It works great on all connections,

Such Free client will help us too much for users on Windows, is it possible?