



TheGreenBow IPsec VPN Client Configuration Guide

Watchguard Firebox X Edge e-Series

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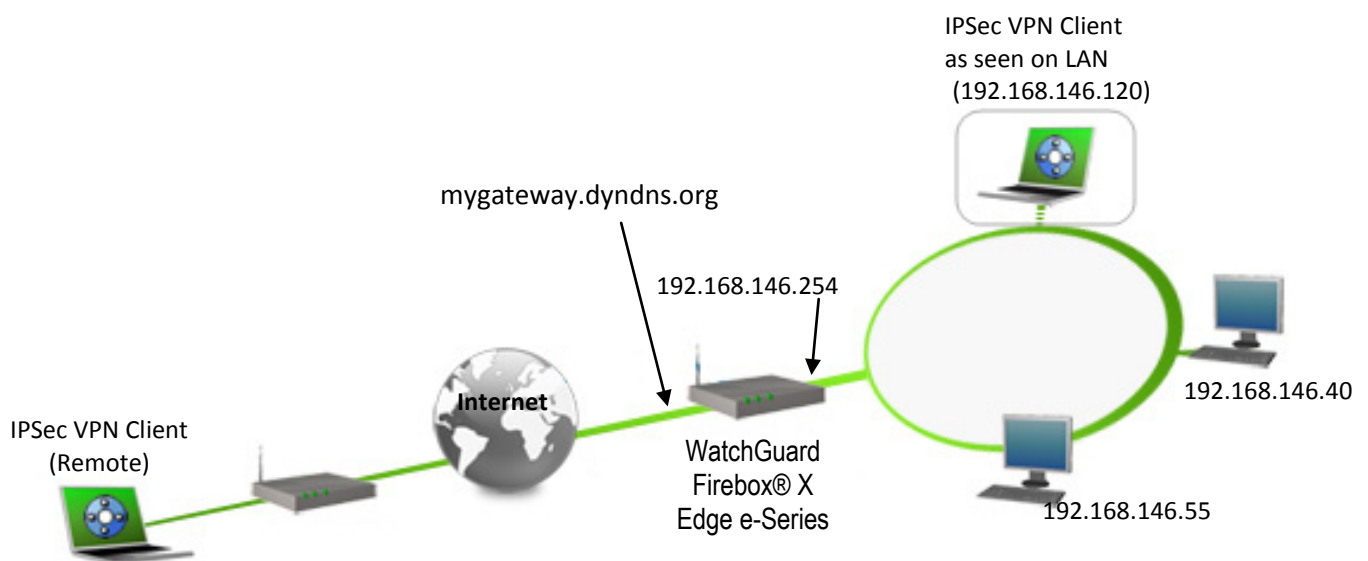
1 Introduction

1.1 Goal of this document

This configuration guide describes how to configure TheGreenBow IPsec VPN Client software with a WatchGuard Firebox® X Edge e-Series VPN router to establish VPN connections for remote access to corporate network

1.2 VPN Network topology

In our VPN network example (diagram hereafter), we will connect TheGreenBow IPsec VPN Client software to the LAN behind the WatchGuard Firebox® X Edge e-Series router. The VPN client is connected to the Internet with a DSL connection or through a LAN. All the addresses in this document are given for example purpose.




1.3 WatchGuard Firebox® X Edge e-Series Restrictions

There are no known restrictions regarding the WatchGuard Firebox® X Edge e-Series. Please make sure you use one of the latest firmware releases from Watchguard. You can see your firmware version on the main site just below "Device Information". For more details visit <http://www.watchguard.com/>.

1.4 WatchGuard Firebox® X Edge e-Series VPN Gateway

Our tests and VPN configuration have been conducted with a WatchGuard Firebox® X55e box and a firmware release 11.2.3.B267784 (Fireware XTM OS).

1.5 WatchGuard Firebox® X Edge e-Series VPN Gateway product info

	Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
	Doc.version	1.0 – May 2010
	VPN version	4.x

It is critical that users find all necessary information about WatchGuard VPN Gateways. All product info, User Guide and knowledge base for the WatchGuard Firebox® X Edge e-Series VPN Gateway can be found on the WatchGuard website: <http://www.watchguard.com/>.

WatchGuard Firebox Product page	http://www.watchguard.com/international/de/products/index.asp?t=main
WatchGuard Firebox User Guide	http://www.watchguard.com/help/documentation/edge.asp
WatchGuard FAQ/Knowledge Base	http://www.watchguard.com/help/documentation/xm.asp

2 WatchGuard Firebox® X Edge e-Series VPN configuration

This section describes how to build an IPSec VPN configuration with your WatchGuard Firebox® X Edge e-Series VPN router.

2.1 Preparations

To connect to your WatchGuard Firebox® X Edge e-Series from the internet by a host or domain name, you might configure a dynamic name resolution service. You will find more detailed information about this topic in your WatchGuard documentation or on the user guide website:

<http://www.watchguard.com/help/documentation/edge.asp>.

2.2 WatchGuard Firebox® X Edge e-Series VPN configuration

Once connected to your WatchGuard Firebox® X Edge e-Series VPN gateway administration interface, you must select **VPN**. Now choose **Mobile VPN with IPSec** from the left side. Enter a name for the group policy, e.g. "GREENBOW" as in the example below. In the tab **General** enter the preshared key into the field **Passphrase**. In the "Firebox IP Addresses" section, enter your hostname or static IP into the field **External IP address** and click **Save** to apply these changes.

The screenshot shows the WatchGuard web interface for configuring a Mobile VPN with IPSec. The page title is "Mobile VPN with IPSec Settings" and the user is logged in as "admin". The left sidebar shows the navigation menu with "VPN" selected and "Mobile VPN with IPSec" highlighted. The main content area has tabs for "General", "IPSec Tunnel", "Resources", and "Advanced", with "General" selected. The "General Settings" section includes an "Authentication Server" dropdown set to "Firebox-DB". The "Passphrase" section has two input fields for "Passphrase" and "Confirm", both containing asterisks. The "Firebox IP Addresses" section has a note: "Mobile VPN with IPSec clients will connect to one of these External IP addresses or domains". It includes an "External IP address" field with "mygateway.dyndns.org" and an empty "Backup IP address" field. The "Timeouts" section has a note: "If the session and idle timeouts are configured on your authentication server, they will take precedence over these settings". It includes "Session Timeout" set to 480 minutes and "Idle Timeout" set to 30 minutes. At the bottom right are "Save" and "Cancel" buttons.

Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
Doc.version	1.0 – May 2010
VPN version	4.x

Now, choose the “IPSec Tunnel” tab and select the option „Use the passphrase of the end user profile as the pre-shared key”. Now select settings like shown in the screenshots below:

The screenshot shows the WatchGuard web interface for configuring Mobile VPN with IPSec Settings. The left sidebar contains navigation options: Dashboard, System Status, Network, Firewall, Subscription Services, Authentication, VPN (selected), and System. Under VPN, options include Branch Office VPN, Mobile VPN with IPSec (selected), Mobile VPN with PPTP, Mobile VPN with SSL, and Global Settings. The main content area is titled "Mobile VPN with IPSec Settings" and includes a "Group name" field set to "GREENBOW". There are four tabs: General, IPSec Tunnel (selected), Resources, and Advanced. The "IPSec Tunnel" section has two radio buttons: "Use the passphrase of the end user profile as the pre-shared key" (selected) and "Use a certificate". Below this are fields for "CA IP address" and a "Timeout" spinner set to 25 seconds. The "Phase 1 Settings" section has an "Advanced" button, "Authentication" set to "SHA-1", and "Encryption" set to "3DES". The "Phase 2 Settings" section has an "Advanced" button, a checked "PFS" checkbox, and "Diffie-Hellman Group 2" selected. "Save" and "Cancel" buttons are at the bottom.

Click the button “Advanced” in the “Phase 1 Settings” section:

This screenshot shows the "Phase 1 Advanced Settings" section of the WatchGuard interface. It features a "Return to General Settings" button. The "SA Life" is set to 8 hours. The "Key Group" is "Diffie-Hellman Group 2". There are several checkboxes: "NAT Traversal" (checked), "IKE Keep-alive" (unchecked), and "Dead Peer Detection" (checked). The "Keep-alive Interval" is 20 seconds, "Message Interval" is 10 seconds, and "Max failures" is 3. Under "Dead Peer Detection", "Traffic idle timeout" is 90 seconds and "Max retries" is 5. "Save" and "Cancel" buttons are at the bottom.

Click the button “Advanced” in the “Phase 2 Settings” section:

The screenshot shows the WatchGuard configuration interface for a Mobile VPN with IPsec. The 'Advanced' tab is selected under the 'Phase 2 Settings' section. The 'Group name' is 'GREENBOW'. The 'Phase 2 Proposal' settings are: Type: ESP (Encapsulating Security Payload), Authentication: SHA-1, Encryption: 3DES, and Force Key Expiration is checked. The key expiration is set to 8 hours and 128000 kilobytes. 'Save' and 'Cancel' buttons are at the bottom.

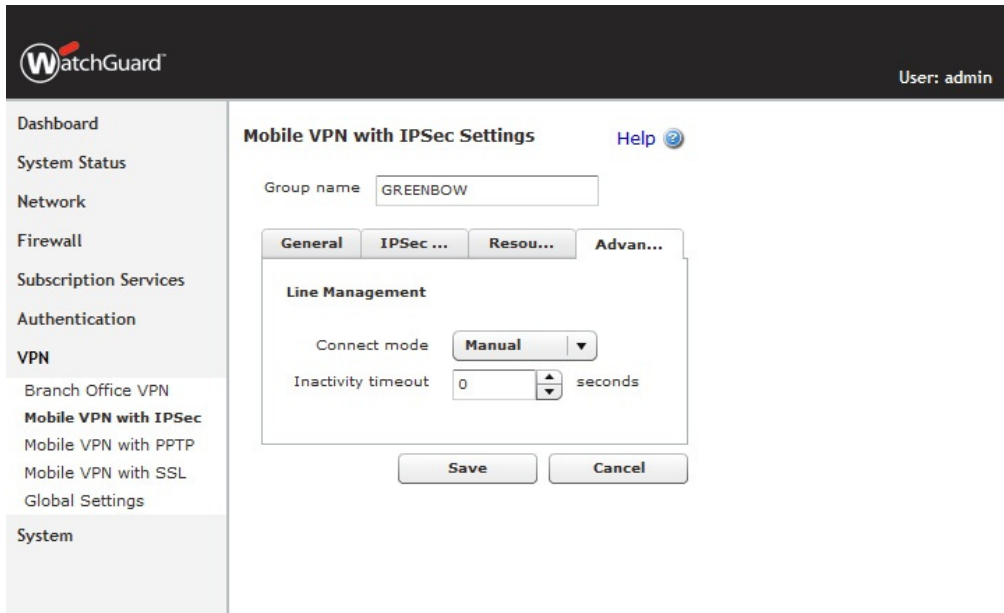
Now select the tab “Resources”. Enter the subnet to which the VPN client(s) shall have access to and add it to the “Allowed Resources” list. In this example, the subnet behind the gateway is 192.168.146.0/24.

The screenshot shows the 'Resources' tab selected. The 'Allow All Traffic Through Tunnel' checkbox is unchecked. The 'Allowed Resources' list contains one entry: 192.168.146.0/24. Below this, the 'Choose Type' is set to 'Network IP'. The 'Network IP' field is empty, followed by a slash and a dropdown set to '24'. An 'Add' button is next to it. The 'Virtual IP Address Pool' list contains one entry: 192.168.50.1-192.168.50.10. Below this, the 'Choose Type' is set to 'Host Range'. The 'From' and 'To' fields are empty, with an 'Add' button next to them. 'Save' and 'Cancel' buttons are at the bottom.

Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
Doc.version	1.0 – May 2010
VPN version	4.x

In the “**Virtual IP Address Pool**” list, you can assign IP addresses for the VPN client(s). These addresses shall not be within the same subnet range as the subnet(s) defined in the “**Allowed Resources**” list. Neither they shall be within the range of the dynamic IP pool which is assigned to the machine where the vpn client is installed. In this example, we use 192.168.50.1 bis 192.168.50.10 as virtual client addresses.

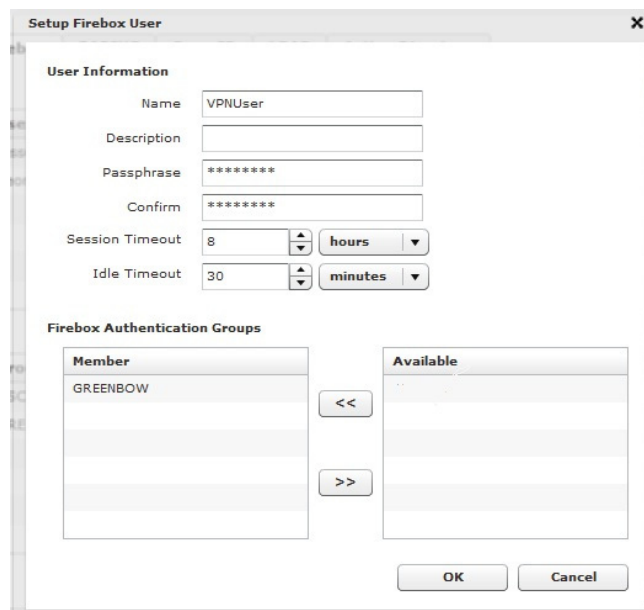
Now select the tab “**Advanced**”. No changes are necessary here.



Apply all changes with “**Save**”. You can check the settings by clicking “**Firewall**” and then „**Mobile VPN Policies**” if VPN rules have been set for the group “**GREENBOW**”. Usually, no additional rules are necessary for the firewall.

Important: To establish a VPN tunnel successfully, it is necessary that the person who likes to use the VPN client has either an active local user account on the WatchGuard Firebox® or - in case you have configured an Active Directory environment – an active AD user account.

In this example, we’ll create a user on the WatchGuard Firebox® called “**VPNUser**”. To do that, select “**VPN**” and “**Authentication**” on the left menu. Now click on “**Servers**” and select the tab “**Firebox**”. Click on “**Add**” to apply a new user to the Firebox user database.



THEGREENBOW 0011101	Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
	Doc.version	1.0 – May 2010
	VPN version	4.x

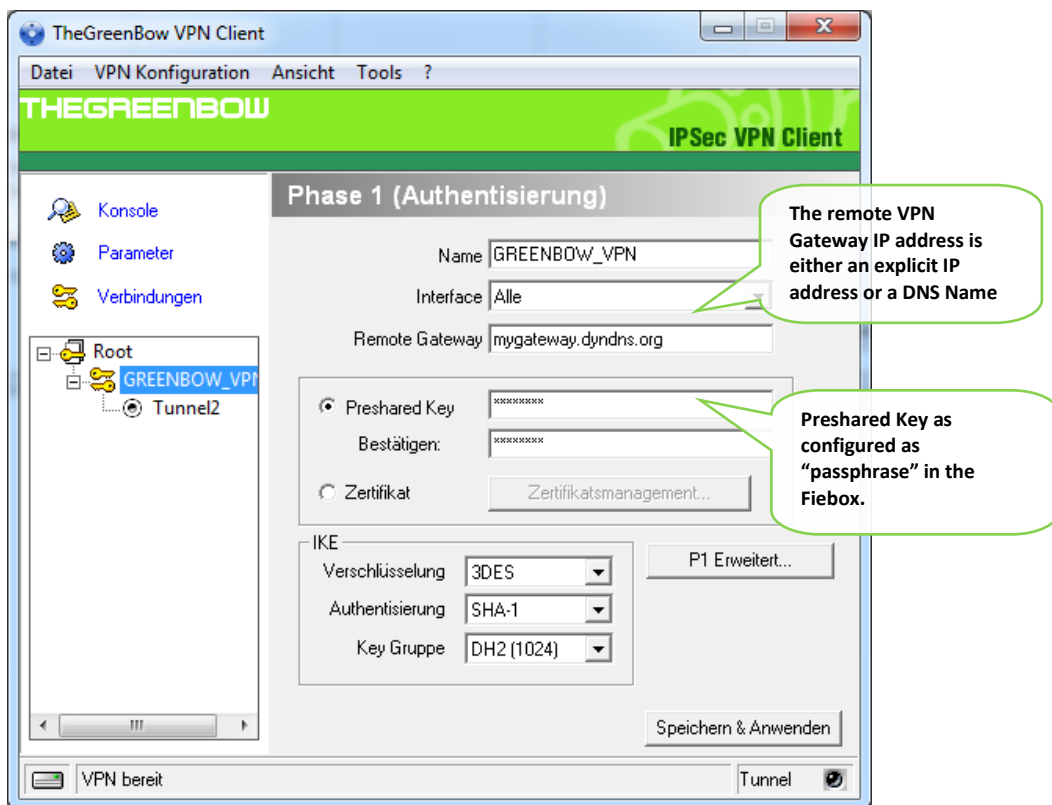
In that window, you can define user name and password. In the section “**Firebox Authentication Groups**”, you can apply a VPN Group to that particular user, in our case GREENBOW. Save changes by clicking “**OK**”.

3 TheGreenBow IPSec VPN Client configuration

This section describes the required configuration to connect to a WatchGuard Firebox® VPN router via VPN connections.

To download the latest release of TheGreenBow IPSec VPN Client software, please go to http://www.thegreenbow.com/vpn_down.html.

3.1 VPN Client Phase 1 (IKE) Configuration



Phase 1 configuration

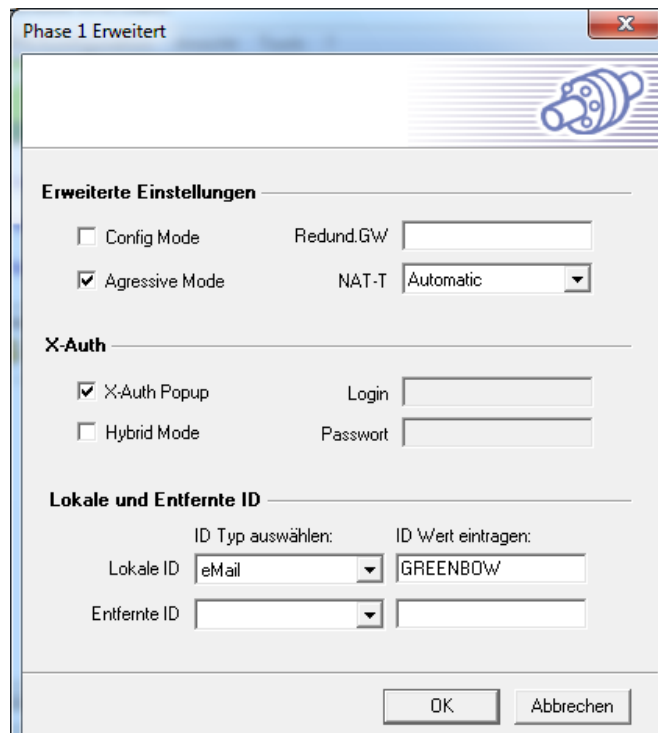
To authenticate the user, in this example we're using a combination between Preshared Key and X-Auth.

Enter a name for your VPN connection, e.g. GREENBOW_VPN. Enter your gateway host name or IP address and leave Interface to "all". Please match the values of the IKE section with the settings you have already done on the firebox.

You may as well use either Preshared key, Certificates, USB Tokens, OTP Token (One Time Password) or X-Auth combined with RADIUS Server for User Authentication with your WatchGuard Firebox® router. This configuration is one example of what can be accomplished in term of User Authentication. You may want to refer to either the WatchGuard Firebox® router user guide or TheGreenBow IPSec VPN Client software User Guide for more details on different User Authentication options.

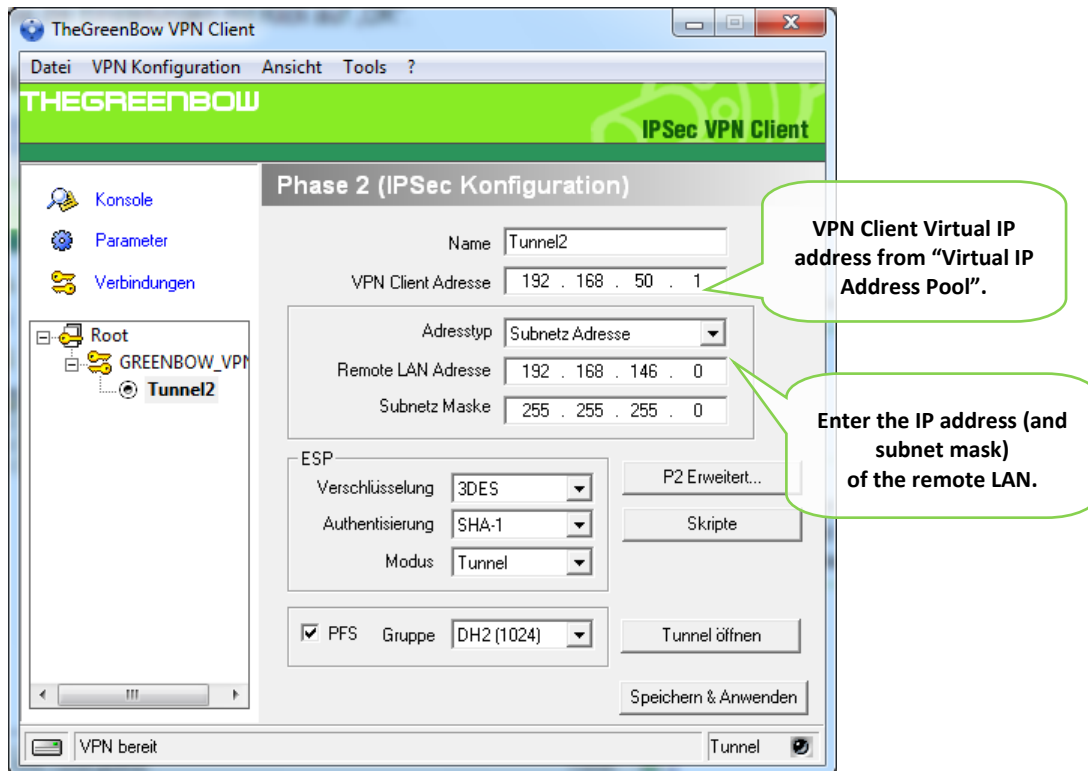
3.2 Phase 1 Advanced settings

Klick the button "P1 Advanced" to adjust more settings.



Select the options “**Agressive mode**” and “**X-Auth Popup**”. As local ID, enter the VPN Group name (GREENBOW) and select “eMail” as ID type. Remote ID type and value can be left blank. Apply changes with “OK”.

3.3 VPN Client Phase 2 (IPSec) Configuration



Phase 2 Configuration

Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
Doc.version	1.0 – May 2010
VPN version	4.x

Klick "Save & Apply" to save all configuration settings.

3.4 Open IPsec VPN tunnels

Once both WatchGuard Firebox® router and TheGreenBow IPsec VPN Client software have been configured accordingly, you are ready to open VPN tunnels. First make sure you enable your firewall with IPsec traffic.

1. Click on "**Save & Apply**" to take into account all modifications we've made on your VPN Client configuration
2. Click on "**Open Tunnel**", or generate traffic that will automatically open a secure IPsec VPN Tunnel (e.g. ping, IE browser). Once the tunnel starts, a popup window will ask you for your user name and password.
3. Select "**Connections**" to see opened VPN Tunnels
4. Select "**Console**" if you want to access to the IPsec VPN logs and adjust filters to display less IPsec messaging. The following example shows a successful connection between TheGreenBow IPsec VPN Client and a WatchGuard Firebox® VPN router.

```

20090630 104525 Default (SA Gateway2-P1) SEND phase 1 Main Mode [SA] [VID] [VID] [VID] [VID] [VID]
20090630 104525 Default (SA Gateway2-P1) RECV phase 1 Main Mode [SA] [VID] [VID]
20090630 104526 Default (SA Gateway2-P1) SEND phase 1 Main Mode [KEY_EXCH] [NONCE] [NAT_D] [NAT_D]
20090630 104526 Default (SA Gateway2-P1) RECV phase 1 Main Mode [KEY_EXCH] [NONCE] [NAT_D] [NAT_D]
20090630 104526 Default (SA Gateway2-P1) SEND phase 1 Main Mode [HASH] [ID] [NOTIFY]
20090630 104526 Default (SA Gateway2-P1) RECV phase 1 Main Mode [HASH] [ID]
20090630 104526 Default phase 1 done: initiator id 192.168.205.151, responder id mygateway.dyndns.org
20090630 104526 Default (SA Gateway2-Tunnel3-P2) SEND phase 2 Quick Mode [HASH] [SA] [KEY_EXCH] [NONCE] [ID] [ID]
20090630 104527 Default (SA Gateway2-Tunnel3-P2) RECV phase 2 Quick Mode [HASH] [SA] [KEY_EXCH] [NONCE] [ID] [ID]
20090630 104527 Default (SA Gateway2-Tunnel3-P2) SEND phase 2 Quick Mode [HASH]
20090630 104555 Default (SA Gateway2-P1) SEND Informational [HASH] [NOTIFY] type DPD_R_U_THERE
20090630 104555 Default (SA Gateway2-P1) RECV Informational [HASH] [NOTIFY] type DPD_R_U_THERE_ACK
    
```

4 Tools in case of trouble

Configuring an IPSec VPN tunnel can be a hard task. One missing parameter can prevent a VPN connection from being established. Some tools are available to find source of troubles during a VPN establishment.

4.1 A good network analyser: Wireshark

Wireshark is a free software that can be used for packet and traffic analysis. It shows IP or TCP packets received on a network card. This tool is available on website <http://www.wireshark.org>. It can be used to follow protocol exchange between two devices. For installation and use details, read its specific documentation (<http://www.wireshark.org/docs/>).

No. .	Time	Source	Destination	Protocol	Info
1	0.000000	192.168.1.3	192.168.1.2	ISAKMP	Identity Protection (Main Mode)
2	0.153567	192.168.1.2	192.168.1.3	ISAKMP	Identity Protection (Main Mode)
3	0.205363	192.168.1.3	192.168.1.2	ISAKMP	Identity Protection (Main Mode)
4	0.257505	192.168.1.2	192.168.1.3	ISAKMP	Identity Protection (Main Mode)
5	0.300882	192.168.1.3	192.168.1.2	ISAKMP	Identity Protection (Main Mode)
6	0.310186	192.168.1.2	192.168.1.3	ISAKMP	Identity Protection (Main Mode)
7	0.313742	192.168.1.3	192.168.1.2	ISAKMP	Quick Mode
8	0.321913	192.168.1.2	192.168.1.3	ISAKMP	Quick Mode
9	0.323741	192.168.1.3	192.168.1.2	ISAKMP	Quick Mode
10	0.334980	192.168.1.2	192.168.1.3	ISAKMP	Quick Mode
11	0.691160	192.168.1.3	192.168.1.2	ESP	ESP (SPI=0x919bfabc)
12	1.692568	192.168.1.2	192.168.1.2	ESP	ESP (SPI=0x919bfabc)
13	1.693164	192.168.1.2	192.168.1.3	ESP	ESP (SPI=0x53a5925e)
14	2.693600	192.168.1.3	192.168.1.2	ESP	ESP (SPI=0x919bfabc)
15	2.694026	192.168.1.2	192.168.1.3	ESP	ESP (SPI=0x53a5925e)

Frame 1 (142 bytes on wire, 142 bytes captured)
 Ethernet II, Src: 00:50:04:ad:f2:73, Dst: 00:10:b5:07:2f:ff

5 VPN IPSec Troubleshooting

5.1 « PAYLOAD MALFORMED » error (wrong Phase 1 [SA])

```

114920 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
114920 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [NOTIFY]
114920 Default exchange_run: exchange_validate failed
114920 Default dropped message from 195.100.205.114 port 500 due to notification
type PAYLOAD_MALFORMED
114920 Default SEND Informational [NOTIFY] with PAYLOAD_MALFORMED error

```

If you have an « PAYLOAD MALFORMED » error you might have a wrong Phase 1 [SA], check if the encryption algorithms are the same on each side of the VPN tunnel.

5.2 « INVALID COOKIE » error

```

115933 Default message_recv: invalid cookie(s) 5918ca0c2634288f 7364e3e486e49105
115933 Default dropped message from 195.100.205.114 port 500 due to notification
type INVALID_COOKIE
115933 Default SEND Informational [NOTIFY] with INVALID_COOKIE error

```

If you have an « INVALID COOKIE » error, it means that one of the endpoint is using a SA that is no more in use. Reset the VPN connection on each side.

5.3 « no keystate » error

```

115315 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
115317 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA] [VID]
115317 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY] [NONCE]
115319 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY] [NONCE]
115319 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID] [HASH] [NOTIFY]
115319 Default ipsec_get_keystate: no keystate in ISAKMP SA 00B57C50

```

Check if the preshared key is correct or if the local ID is correct (see « Advanced » button). You should have more information in the remote endpoint logs.

5.4 « received remote ID other than expected » error

```

120348 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
120349 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA] [VID]
120349 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY] [NONCE]
120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY] [NONCE]
120351 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID] [HASH] [NOTIFY]
120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID] [HASH] [NOTIFY]
120351 Default ike_phase_1_recv_ID: received remote ID other than expected
support@thegreenbow.fr

```

The « Remote ID » value (see « Advanced » Button) does not match what the remote endpoint is expected.

5.5 « NO PROPOSAL CHOSEN » error

```

115911 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
115913 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA] [VID]
115913 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY] [NONCE]
115915 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY] [NONCE]
115915 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID] [HASH] [NOTIFY]
115915 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID] [HASH] [NOTIFY]
115915 Default phase 1 done: initiator id c364cd70: 195.100.205.112, responder id
c364cd72: 195.100.205.114, src: 195.100.205.112 dst: 195.100.205.114
115915 Default (SA CNXVPN1-CNXVPN1-P2) SEND phase 2 Quick Mode
[SA] [KEY] [ID] [HASH] [NONCE]
115915 Default RECV Informational [HASH] [NOTIFY] with NO_PROPOSAL_CHOSEN error
115915 Default RECV Informational [HASH] [DEL]
115915 Default CNXVPN1-P1 deleted
    
```

If you have an « NO PROPOSAL CHOSEN » error, check that the « Phase 2 » encryption algorithms are the same on each side of the VPN Tunnel.

Check « Phase 1 » algorithms if you have this:

```

115911 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
115911 Default RECV Informational [NOTIFY] with NO_PROPOSAL_CHOSEN error
    
```

5.6 « INVALID ID INFORMATION » error

```

122623 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA] [VID]
122625 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA] [VID]
122625 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY] [NONCE]
122626 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY] [NONCE]
122626 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID] [HASH] [NOTIFY]
122626 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID] [HASH] [NOTIFY]
122626 Default phase 1 done: initiator id c364cd70: 195.100.205.112, responder id
c364cd72: 195.100.205.114, src: 195.100.205.112 dst: 195.100.205.114
122626 Default (SA CNXVPN1-CNXVPN1-P2) SEND phase 2 Quick Mode
[SA] [KEY] [ID] [HASH] [NONCE]
122626 Default RECV Informational [HASH] [NOTIFY] with INVALID_ID_INFORMATION error
122626 Default RECV Informational [HASH] [DEL]
122626 Default CNXVPN1-P1 deleted
    
```

If you have an « INVALID ID INFORMATION » error, check if « Phase 2 » ID (local address and network address) is correct and match what is expected by the remote endpoint.

Check also ID type (“Subnet address” and “Single address”). If network mask is not check, you are using a IPV4_ADDR type (and not a IPV4_SUBNET type).

5.7 I clicked on “Open tunnel”, but nothing happens.

Read logs of each VPN tunnel endpoint. IKE requests can be dropped by firewalls. An IPSec Client uses UDP port 500 and protocol ESP (protocol 50).

5.8 The VPN tunnel is up but I can’t ping !

If the VPN tunnel is up, but you still cannot ping the remote LAN, here are a few guidelines:

- Check Phase 2 settings: VPN Client address and Remote LAN address. Usually, VPN Client IP address should not belong to the remote LAN subnet
- Once VPN tunnel is up, packets are sent with ESP protocol. This protocol can be blocked by firewall. Check that every device between the client and the VPN server does accept ESP
- Check your VPN server logs. Packets can be dropped by one of its firewall rules.
- Check your ISP support ESP

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Doc.version	1.0 – May 2010
VPN version	4.x

- If you still cannot ping, follow ICMP traffic on VPN server LAN interface and on LAN computer interface (with Wireshark for example). You will have an indication that encryption works.
- Check the “default gateway” value in VPN Server LAN. A target on your remote LAN can receive pings but does not answer because there is a no “Default gateway” setting.
- You cannot access to the computers in the LAN by their name. You must specify their IP address inside the LAN.
- We recommend you to install Wireshark (<http://www.wireshark.org>) on one of your target computer. You can check that your pings arrive inside the LAN.

THEGREENBOW 0011101	Doc.Ref	tgbvpn-cg-watchgard-firebox-edge-en
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6 Contacts

News and updates on TheGreenBow web site: <http://www.thegreenbow.com>

Technical support by email at support@thegreenbow.com

Sales contacts by email at sales@thegreenbow.com

Secure, Strong, Simple.

TheGreenBow Security Software