

This setup example uses the following network settings:

In our example the IPSec VPN tunnel is established between two LANs: 192.168.0.x and 192.168.1.x.

NOTE: It is essential to have private networks (LAN 1 and LAN 2) on different subnets.

# Configuration of the DIR-130

**Step 1.** Log into the DIR-130 by opening Internet Explorer and typing the LAN address of the device. In our example we are using the default 192.168.0.1. Enter Username and Password which you specified during the initial setup of the Firewall.

Step 2: Click on SETUP, select VPN SETTINGS, and select IPSec from the ADD VPN PROFILE dropdown list and click Add.

D-Link	ć			
DIR-130	SETUP	ADVANCED	TOOLS	STATUS
INTEIRNET NETWORK SETTINGS VPN SETTINGS	VPN SETTINGS ADD VPN PROFILE			
	20 - VPN PROFILE	ame	Туре	

Step 3: Configure the *IPSec VPN* as followed: IPSEC SETTING

- Enable: check box to enable
- Name: enter a name for the VPN
- Encapsulation Mode:: Tunnel
- **Remote IP:** select Site to Site and enter the remote gateway
- Remote Local LAN Net /Mask: enter the remote network and remote subnet mask

Authentication: enter a Pre-shared Key (Pre-share key must match remote side)

VPN - IPSEC						
User this section to create and configure your VPN-IPSec page.						
Save Settings Don't Save Settings						
IPSEC SETTING :						
	🗹 Enable					
Name :	test					
Local Net /Mask :	192.168.0.0/24					
Remote IP :	◯ Remote User ⊙ Site to Site 192.168.100.2					
Remote Local LAN Net /Mask :	192.168.1.0/24					
Authentication :	Pre-shared Key test					
	🔿 X.509 Certificate					
	Local Identity D-Link Demo 🔽					
	Certificates 🔜					
	XAUTH					
	Server mode					
	Authentication database Group1 💌					
	O Cilent mode					
	User Name					
	Password					
Local ID :	Default 💌					
Remote ID :	Default					

#### PHASE 1

• IKE Proposal List: leave at default (3DES, SHA1)

#### PHASE 2

• IPSec Proposal List: leave at default (3DES, SHA1)

Click Save Settings.

PHASE 1 :	
💿 Main mode 🔘 Aggressiv	ve mode
NAT-T Enable:	
Keep Alive / DPD: 🔿 none 💿 Keep Alive 🔿	DPD (Dead Peer Detection)
DH Group : 🛛 2 - modp 1024-bit 💌	
IKE Proposal List :	
Cipher	Hash
#1: 3DES 💌	MD5 💌
#2: 3DE5 💌	MD5
#3: 3DES 💌	MD5
#4: 3DE5 💌	MD5 💌
IKE Lifetime : 28800 Seconds	
PHASE 2 :	
PFS Enable: 🗹 Perfect Forward Secrec	y PFS
PFS DH Group : 2 - modp 1024-bit 💌	
IPSec Proposal List :	
Cipher	Hash
#1: 3DES 💌	MD5 💌
#2: 3DE5 💌	MD5 💌
#3: 3DES 💌	MD5
#4: 3DE5	MD5 💌
IPSec Lifetime : 3600 Seconds	

# Configuration of DI804HV/808HV

**Step 1:** Open your web browser and type in the IP address of the router (*192.168.0.1* by default). Enter the username (*admin* by default) and password (blank by default), and then click **OK**.

In our setup we changed the IP of the unit to 192.168.1.1 (NOTE both routers can not be on the same subnet).

Step 2: Click on the Home tab and select the VPN button and configure as followed:

- VPN: check to enable
- Max. number of tunnels: enter the number of tunnels

ID 1

- Tunnel Name: enter a name of the VPN
- Method: select IKE

Click **Apply** to save the settings.

Hon	ne Advance	d Tools	Status	Help
VPN Setti	ings			
	item		Setting	
VPN		🗹 Enable		
NetBIOS b	iroadcast	📃 Enable		
Max. numł	per of tunnels	1		
ID	Tunnal Nama		Method	
1	test		IKE V More	1
2			IKE 🗸 More	1
3			IKE 🗸 More	า
4			IKE V More	1
5			IKE V More	า้ เ
Previous	nage Next nage			
Dynam	hic VPN Settings	L2TP Server Setting	PPTP Server Settin	iq
View V	PN Status			
			🤍 🔮	3 🔂
			Apply Car	ncel Help

D-Link D-Link Technical Support – How to setup an IPSec VPN connection between a DIR-130 and DI-80xHV Page 5 of 10 TechSupport

Step 3: Click on More under Method and configure as followed:

Tunnel Name: the name of the tunnel should already be entered if done in the previous step

- Local Subnet: enter the local subnet (192.168.0.0 in this example)
- Local Netmask: enter the local subnet mask(255.255.255.0 in this example)
- **Remote Subnet:** enter the remote subnet (192.168.1.0 in this example)
- **Remote Netmask:** enter the remote subnet mask(255.255.255.0 in this example)
- **Remote Gateway:** enter the remote gateway (*172.68.140.140* in this example)
- IKE Keep Alive (Ping IP Address): enter an IP address of a client on the remote side (192.168.1.100 in this example)
- **Preshare Key:** enter preshare key as desired (*Pre-share key* must match remote side)
- IPSec NAT Traversal: check to enable
- Auto-reconnect: check to enable

Click **Apply** to save the settings and click **Continue** when prompted.

Home	Advanced	Tools	Status	Help
VPN Settings -	Tunnel 1			
P	tem		Setting	
Tunnel Name		test		
Aggressive Mode	9	Enable		
Local Subnet		192.168.1.0		
Local Netmask		255.255.255.0		
Remote Subnet		192.168.0.0		
Remote Netmas	k	255.255.255.0		
Remote Gateway	<i>i</i>	192.168.100.2		
IKE Keep Alive (Ping IP Address)	)	192.168.0.1		
Preshare Key		••••		
Extended Authen	tication	Enable		
(XAUTH)		Server mode	Set Local user	
		Client mode		
		User Name		
		Password		
IPSec NAT Travel	rsal	📃 Enable		
Auto-reconnect		Enable		
Remote ID		Type IP Address	~	
		Value		
Local ID		Type IP Address	<b>~</b>	
		Value		
IKE Proposal Ind	ex	Select IKE Prop	oosal	
IPSec Proposal I	ndex	Select IPSec F	Proposal	
			G 🔗 🔗 Back Apply	😡 🛟 Cancel Help

D-Link D-Link Technical Support – How to setup an IPSec VPN connection between a DIR-130 and DI-80xHV Page 6 of 10 TechSupport

Step 4: Click on Select IKE Proposal and configure as followed:

- Proposal Name: enter a name for the Proposal ID Number 1
- **DH Group**: Group 2
- Encrypt algorithm: 3DES
- Authentication Algorithm: SHA1
- Life Time: 28800
- Life Time Unit: Sec
- Proposal ID: select 1 and click on Add To to add to the IKE Proposal index

Click **Apply** and then click **Back**.

Home	Advance	d Tools	Stat	us	Help
VPN Setting	s - Tunnel 1 - Set I	KE Proposal			
	Item		Setting	J	
IKE Proposal	index	IKE			
		Descent	-		
		Renov	2		
ID Proposal	Name DH Group	Encrypt algorithm	with algorithm	Life Time	Life Time Ur
1 IKE	Group 2 🚩	3DES 💌	SHA1 🔛	28800	Sec. 🚩
2	Group 1 📉	3DES 📉	SHA1 💌	0	Sec. 🔽
3	Group 1 💌	3DES 💌	SHA1 💌	0	Sec. 💌
4	Group 1 💌	3DES 💌	SHA1 🔛	0	Sec. 💌
5	Group 1 💌	3DES 🚩	SHA1 💌	0	Sec. 💌
6	Group 1 💌	3DES 💌	SHA1 💌	0	Sec. 💌
7	Group 1 💌	3DES 💌	SHA1 💌	0	Sec. 🔽
8	Group 1 💌	3DES 💌	SHA1 💌	0	Sec. 💌
9	Group 1 💌	3DES 💌	SHA1 🖌	0	Sec. 💌
10	Group 1 💌	3DES 💌	SHA1 💌	0	Sec. 💌

D-Link D-Link Technical Support – How to setup an IPSec VPN connection between a DIR-130 and DI-80xHV Page 7 of 10 TechSupport

Step 5: Click on Select IPSec Proposal and configure as followed:

- Proposal Name: enter a name for Proposal ID Number 1
- **DH Group**: Group 2
- Encapsulation Protocol: ESP
- Encryption Algorithm: 3DES
- Authentication Algorithm: SHA1
- Life Time: 3600
- Life Time Unit: Sec.
- Proposal ID: select 1 and click on Add To to add to the IPSec Proposal index

Click **Apply** and then click **Continue** when prompted.

ink orks for People				Broad	DI-808H band VPN F	V touter	
	Home	Advan	ced	Tools	Statu	s	Help
VPN	l Settings - T	funnel 1 - S	et IPSE	C Proposal			
	It	em			Setting		
18	ec Proposal In	IUEX		Rer	nove		
	<sup>o</sup> roposal Name	DH Group	Encap protoco	Encrypt I algorithr	Auth n algorithm	Life Time	Life Time Unit
1	IPSec	Group 2 💌	ESP	M 3DES	SHA1 💌	3600	Sec. 💌
2		None	ESP	M 3DES	None M	0	Sec. 💌
3		None 🖌	ESP	SDES	V None V	0	Sec. 🛩
4		None 💌	ESP	SDES	None M	0	Sec. 💌
5		None 🔽	ESP	SDES	V None V	0	Sec. 🔽
6		None 💌	ESP	SDES	V None V	0	Sec. 💌
7		None 💌	ESP	M 3DES	None M	0	Sec. 💌
8		None 💌	ESP	M 3DES	None M	0	Sec. 💌
9		None 🖌	ESP	SDES	V None V	0	Sec. 🔽
					[22] Itera [22]	0	

D-Link D-Link Technical Support – How to setup an IPSec VPN connection between a DIR-130 and DI-80xHV Page 8 of 10 TechSupport

**Step 6:** Click on the **Status** tab and select the **VPN Status** button. The VPN should be established. If the tunnel has not been established, click on the **Refresh** button or ping to an IP address on the remote side. When replies are sent back, the tunnel has been established.

D-Link Building Networks for People			Broo	DI-80	<b>OBHV</b> VPN Router		
	Ho	me Advan	iced Too	ls (	Status 🗧	He	lp
	VPN S VPN sta	tatus atus display VPN conne h VPN setting	ection state.				
Device Info	Name	Remote Network IP Address/ Subnet Mask/	Local Network IP Address/ Subnet Mask	Туре	State	Life Time	Drop
Log	IPSec	Gateway 192.168.1.0/ 255.255.255.0/ 172.68.140.140	192.168.0.0/ 255.255.255.0	ESP tunnel	IKE established	3600	Drop
VPN Status Active Sessions							

### Connecting to shared resources via VPN

To connect to shared resources via VPN you can map remote computers' drives and folders by opening Windows Explorer and going to Tools > Map Network Drive (you need to specify the IP address of the computer on remote network and the name of the shared folder):

Map Network Drive		8		
	Windows can help you connect to a shared network folde and assign a drive letter to the connection so that you ca access the folder using My Computer. Specify the drive letter for the connection and the folder that you want to connect to:			
	<u>D</u> rive:	Z: 💌		
	F <u>o</u> lder:	\\192.168.1.20\Shared Do 😽 📴 rowse		
		Example: \\server\share		
		Reconnect at logon		
		Connect using a <u>different user name</u> .		
		<u>Sign up for online storage or connect to a</u> <u>network server</u> .		
		< Back Finish Cancel		

Alternatively you can do Search > Computers or People > Computer on Network > specify the IP address of the computer you are trying to connect to.

If you do not see computers in My Network Places or My Network Neighbourhood you may need to enable NetBIOS over TCP/IP in Windows.

Note that firewall/antivirus software installed on your or remote computer may stop you from accessing remote network.