

This example will demonstrate how to configure a LAN-to-LAN IPSec VPN tunnel between two DIR-130.

In this example: LAN1 (Sydney) has the subnet of 192.168.0.0/24 LAN2 (Melbourne) has the subnet of 192.168.10.0/24

Configuration of Sydney VPN

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**.

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

DIR-130	SETUP	ADVANCED	MAINTENANCE	STATUS
Internet Network Settings	VPN SETTINGS Use this section to cre	ate and configure your VF	PN settings.	
in it bottings	ADD VPN PROFILE Select a type Select a type	E :		
	IPSec - Internet Protoco PPTP/L2TP SSLVPN Enable	l Security	lame	Туре

Step 3: Configure the IPSec VPN as followed: **Enable Settings**: 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 LAN network and Subnet Mask Authentication Protocol: enter a Pre-shared Key (must be the same as the Remote Side) Phase 1 IKE Proposal List: leave as is NAT-T Enabled: leave as is PFS: check to enable Phase 2 IPSec Proposal List: leave as is

DIR-130	SETUP	ADVANCE	D	MAINTENANCE	STATUS	
Internet	VPN - IPSEC					
Network Settings	User this section to create and configure your VPN-IPSec page.					
VPN Settings	Save Settings Don't Save Settings					
	IPSEC SETTING :					
	✓ Enable					
		Name :	Sydney			
	L	ocal Net /Mask :	192.168.	0.0/24		
	Remote IP : 🛛 Remote User 💿 Site to Site 202.1.				202.129.109.82	
	Remote Local I	AN Net /Mask :	192.168	.10.0/24		
		Authentication :	1 : 💿 Pre-shared Key 123456			
			🔘 X.50	9 Certificate		
		Local Identity D-Link Demo 💌				
	Certificates					
			() S	erver mode		
			0.0	Authentication database L		
				ker Name		
			;			
		Local ID :	Default]	
		Remote ID :	Default			

PHASE 1 :		
	⊙ Main mode ○ Aggressive mode	
NAT-T Enable:		
Keep Alive / DPD:	🔘 none 💿 Keep Alive 🔘 DPD (De	ad Peer Detection)
DH Group :	2 - modp 1024-bit 🛛 🔽	
IKE Proposal List :		
	Cipher	Hash
#1:	3DES 💌	MD5 💌
#2:	3DES V	MD5
#3:	3DES V	MDE
#4. IVE Lifotimo :	30ES	MDS Y
INE LITEUTIE .	20000 Seconus	
PHASE 2 :		
PFS Enable:	Perfect Forward Secrecy PFS	
PFS DH Group :	2 - modp 1024-bit 💉	
IPSec Proposal List :		
	Cipher	Hash
#1:	3DES 💙	MD5 💌
#2:	3DES 💌	MD5 💌
#3:	3DES 💌	MD5
#4:	3DES 💌	MD5 💌
IPSec Lifetime :	3600 Seconds	

Step 4: Click Save Settings once done.

Configuration of Remote Network

Note: Both sides cannot be on the same subnet.

Step 1: Open your web browser and type in the IP address of the router (192.168.10.1). Enter the username (admin by default) and password (blank by default), and then click **OK**.

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

Step 3: Configure the IPSec VPN as followed:

Enable Settings: 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 LAN network and Subnet Mask Authentication Protocol: enter a Pre-shared Key (must be the same as the Remote Side) Phase 1 IKE Proposal List: leave as is NAT-T Enabled: leave as is PFS: check to enable Phase 2 IPSec Proposal List: leave as is

DIR-130	SETUP	ADVANCE	D	MAINTENANCE	STATUS		
Internet	VPN - IPSEC						
Network Settings	User this section to create and configure your VPN-IPSec page.						
VPN Settings	Save Settings	Save Settings Don't Save Settings					
	IPSEC SETTING :						
		✓ Enable					
		Name :	Melbourn	e			
	L	ocal Net /Mask :	192.168.	10.0/24			
		Remote IP :	: ORemote User ③ Site to Site 202.129.109.200				
	Remote Local L	AN Net /Mask :	: 192.168.0.0/24				
		Authentication :	: 💿 Pre-shared Key 123456				
			🔘 X.50'	9 Certificate			
	Local Identity D-Link Demo 😒						
	Certificates						
	XAUTH						
			🖲 S	erver mode			
			,	Authentication database	~		
			0.0	ilent mode			
			ų	Jser Name			
			I	Password			
		Local ID :	Default	¥			
		Remote ID :	Default	~			

PHASE 1:	
● Main mode ○ A	ggressive mode
NAT-T Enable:	
Keep Alive / DPD: 🔵 none 💿 Keep A	live 🔘 DPD (Dead Peer Detection)
DH Group : 2 - modp 1024-bit 📘	
IKE Proposal List :	
Cipher	Hash
#1: 3DE5 💌	MD5 💌
#2: 3DE5 💌	MD5 💌
#3: 3DE5 💌	MD5 💌
#4: 3DES 💌	MD5 🗸
IKE Lifetime : 28800 Seconds	
PHASE 2 :	
PFS Enable: 🗹 Perfect Forward	Secrecy PFS
PFS DH Group : 2 - modp 1024-bit 🕓	
IPSec Proposal List :	
Cipher	Hash
#1: 3DES 💌	MD5 🗸
#2: 3DES 💌	MD5 🗸
#3: 3DES 💌	MD5 🗸
#4: 3DES 💌	MD5 🗸
IPSec Lifetime : 3600 Seconds	

Step 4: Click Save Settings.

Step 5: The tunnel should be established. To verify connection, open a command prompt and ping to a client on the remote network.

C:\WINDOWS\system32\cmd.exe	⊐ ×
Ethernet adapter Local Area Connection:	-
Connection-specific DNS Suffix .: IP Address: 192.168.0.136 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.0.1	
C:\Documents and Settings\dlinktech>ping 192.168.10.100	
Pinging 192.168.1.100 with 32 bytes of data:	
Reply from 192.168.10.100: bytes=32 time=3ms TTL=62 Reply from 192.168.10.100: bytes=32 time=1ms TTL=62 Reply from 192.168.10.100: bytes=32 time=1ms TTL=62 Reply from 192.168.10.100: bytes=32 time=1ms TTL=62	
Ping statistics for 192.168.10.100: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 3ms, Average = 1ms	
C:\Documents and Settings\dlinktech>	-