

ZYXEL VMG VE VIGOR ROUTER ARASINDA IPSEC VPN

Bu uygulama notu, Vigor router ve Zyxel VMG router arasında nasıl IPsec VPN tüneli kurulacağını göstermektedir. Vigor Router'ın 192.168.24.0/24 IP adresinde LAN alt ağına sahip olduğunu ve Zyxel VMG'nin 192.168.1.0/24 adresinde olduğunu varsayalım.

Vigor Router Ayarları

1. **VPN and Remote Access >> IPsec General Setup** sayfasına gidin ve **Pre-Shared Key** girin.

VPN and Remote Access >> IPsec General Setup

VPN IKE/IPsec General Setup
Dial-in Set up for Remote Dial-in users and Dynamic IP Client (LAN to LAN).

IKE Authentication Method	
Pre-Shared Key
Confirm Pre-Shared Key
IPsec Security Method	
<input checked="" type="checkbox"/> Medium (AH)	Data will be authentic, but will not be encrypted.
High (ESP) <input checked="" type="checkbox"/> DES <input checked="" type="checkbox"/> 3DES <input checked="" type="checkbox"/> AES	Data will be encrypted and authentic.

OK Cancel

2. **VPN and Remote Access >> LAN to LAN** sayfasına gidin ve uygun bir indexe tıklayın,
 - **Profile name** girin.
 - **Enable this profile**'ı etkinleştirin.
 - **Call Diction** için "Dial-in" seçeneğini seçin.

3. Dial-In Settings

Allowed Dial-In Type <input type="checkbox"/> PPTP <input checked="" type="checkbox"/> IPsec Tunnel <input type="checkbox"/> L2TP with IPsec Policy None	Username ??? Password(Max 11 char) VJ Compression On Off
<input type="checkbox"/> Specify Remote VPN Gateway Peer VPN Server IP or Peer ID	IKE Authentication Method <input checked="" type="checkbox"/> Pre-Shared Key IKE Pre-Shared Key <input type="checkbox"/> Digital Signature(X.509) None Local ID <input checked="" type="radio"/> Alternative Subject Name First <input type="radio"/> Subject Name First
	IPsec Security Method <input checked="" type="checkbox"/> Medium(AH) High(ESP) <input checked="" type="checkbox"/> DES <input checked="" type="checkbox"/> 3DES <input checked="" type="checkbox"/> AES

4. TCP/IP Network Settings

My WAN IP 0.0.0.0	RIP Direction Disable
Remote Gateway IP 0.0.0.0	From first subnet to remote network, you have to do
Remote Network IP 192.168.24.1	Route
Remote Network Mask 255.255.255.0	<input type="checkbox"/> Change default route to this VPN tunnel (Only single WAN supports this)
Local Network IP 192.168.1.1	
Local Network Mask 255.255.255.0	
More	

- Dial-in Settings'de **IPsec Tunnel** izin verin.
- **TCP/IP Network Settings > Remote Network IP/Mask**'da VMG Router'ın LAN'ını girin.

3. Dial-In Settings

Allowed Dial-In Type <input type="checkbox"/> PPTP <input checked="" type="checkbox"/> IPsec Tunnel <input type="checkbox"/> L2TP with IPsec Policy None	Username <input type="text" value="???"/> Password(Max 11 char) <input type="text"/> VJ Compression <input checked="" type="radio"/> On <input type="radio"/> Off
<input type="checkbox"/> Specify Remote VPN Gateway Peer VPN Server IP <input type="text"/> or Peer ID <input type="text"/>	IKE Authentication Method <input checked="" type="checkbox"/> Pre-Shared Key IKE Pre-Shared Key <input type="text"/> <input type="checkbox"/> Digital Signature(X.509) None
	Local ID <input checked="" type="radio"/> Alternative Subject Name First <input type="radio"/> Subject Name First
	IPsec Security Method <input checked="" type="checkbox"/> Medium(AH) High(ESP) <input checked="" type="checkbox"/> DES <input checked="" type="checkbox"/> 3DES <input checked="" type="checkbox"/> AES

4. TCP/IP Network Settings

My WAN IP <input type="text" value="0.0.0.0"/> Remote Gateway IP <input type="text" value="0.0.0.0"/> Remote Network IP <input type="text" value="192.168.24.1"/> Remote Network Mask <input type="text" value="255.255.255.0"/> Local Network IP <input type="text" value="192.168.1.1"/> Local Network Mask <input type="text" value="255.255.255.0"/> <input type="button" value="More"/>	RIP Direction <input type="text" value="Disable"/> From first subnet to remote network, you have to do <input type="button" value="Route"/> <input type="checkbox"/> Change default route to this VPN tunnel (Only single WAN supports this)
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Zyxel VMG Router Ayarları

- IPsec VPN Setup sayfasına gidin ve **Add New Connection**'a tıklayın.
 - Active'i işaretleyin.
 - IPsec Connection Name girin.
 - Remote IPsec Gateway Address'de Vigor Router'ın WAN IP'si ya da Domainini girin.
 - Tunnel access from local IP addresses için Subnet'i seçin ve Vigor Router'ın LAN'ını girin.
 - Pre-Shared Key girin.

IPSEC VPN Add

<input checked="" type="checkbox"/> Active	
IPSec Connection Name	<input type="text" value="client"/>
Remote IPsec Gateway Address (IP or Domain Name)	<input type="text" value="vigor.vpnserver.net"/>
Tunnel access from local IP addresses	<input type="text" value="Subnet"/>
IP Address for VPN	<input type="text" value="192.168.24.1"/>
IP Subnetmask	<input type="text" value="255.255.255.0"/>
Tunnel access from remote IP addresses	<input type="text" value="Subnet"/>
IP Address for VPN	<input type="text" value="192.168.1.1"/>
IP Subnetmask	<input type="text" value="255.255.255.0"/>
Protocol	<input type="text" value="ESP"/>
Key Exchange Method	<input type="text" value="Auto(IKE)"/>
Authentication Method	<input type="text" value="Pre-Shared Key"/>
Pre-Shared Key	<input type="text" value="presharedkey"/>

2. IKE Advanced Settings'de **more**'a tıklayın.

- **Mode** için "Main" i seçin.
- **Phase 1 Encryption Algorithm**'i "AES128_SHA1_G2" olarak ayarlayın.
- **Phase 1 Key Lifetime**'i 86400 olarak ayarlayın.
- **Phase 2 Encryption Algorithm**'i "AES128_SHA1" olarak ayarlayın.
- **Phase 2 Key Lifetime**'i 3600 olarak ayarlayın.

Advanced IKE Settings [less](#)

NAT_Traversal Enable

Phase 1

Mode

Encryption Algorithm

Integrity Algorithm

Select Diffie-Hellman Group for Key Exchange

Key Life Time Seconds

Phase 2

Encryption Algorithm

Integrity Algorithm

Perfect Forward Secrecy(PFS)

Key Life Time Seconds

Dial VPN

IPsec VPN Monitor sayfasına girin ve **Trigger**'a tıklayın.

IPSec VPN

Setup Monitor

The status of IPSec Tunnel is displayed on this page. You can trigger the IPSec Tunnel or change its status by clicking the button in the table.

Monitor

Refresh Interval :

Status :

Status	Connection Name	Remote Gateway	Local Addresses	Remote Addresses	Action
	client	118.166.168.105	192.168.24.1	192.168.1.1	Trigger

VPN bağlandıktan sonra VPN durumunu görebiliriz.

IPSec VPN

Setup Monitor

The status of IPSec Tunnel is displayed on this page. You can trigger the IPSec Tunnel or change its status by clicking the button in the table.

Monitor

Refresh Interval :

Status :

Status	Connection Name	Remote Gateway	Local Addresses	Remote Addresses	Action
	client		192.168.24.1	192.168.1.1	Disconnect

VPN and Remote Access >> Connection Management

Dial-out Tool

Refresh Seconds : 10 Refresh

VPN Connection Status

Current Page: 1

Page No. Go >>

VPN	Type	Remote IP	Virtual Network	Tx Pkts	Tx Rate(Bps)	Rx Pkts	Rx Rate(Bps)	UpTime
1 (server)	IPsec Tunnel AES-SHA1 Auth	 via WAN1	192.168.24.1/24	650	4554	693	432	0:0:37 <input type="button" value="Drop"/>

xxxxxxx : Data is encrypted.
xxxxxxx : Data isn't encrypted.

