

## CISCO ASA VE VIGOR3900 ARASINDA IPSEC VPN

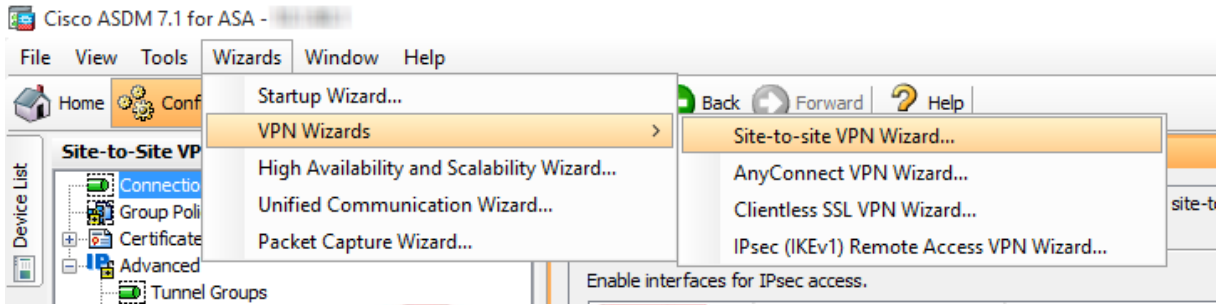
Bu belge CiscoASA ve Vigor3900 / 2960 arasında nasıl bir IPsec tüneli kurulacağını tanıtmaktadır. Senaryo, Vigor2960'ın iki WAN ara yüzüne sahip olduğu ve WAN1 kapalıyken Cisco'ya WAN2 aracılığıyla nasıl sesleneceğidir.

Bu örnekte, Vigor2960'ın WAN1'inin Public bir IP adresi 1.1.1.1, WAN2'nin 2.2.2.2'si vardır ve local subnet IP'si 192.168.0.0/24'dir. Cisco ASA 5515'in Public bir WAN IP'si 4.4.4.4'ü vardır ve local subnet IP'si 10.1.0.0/24'tür.

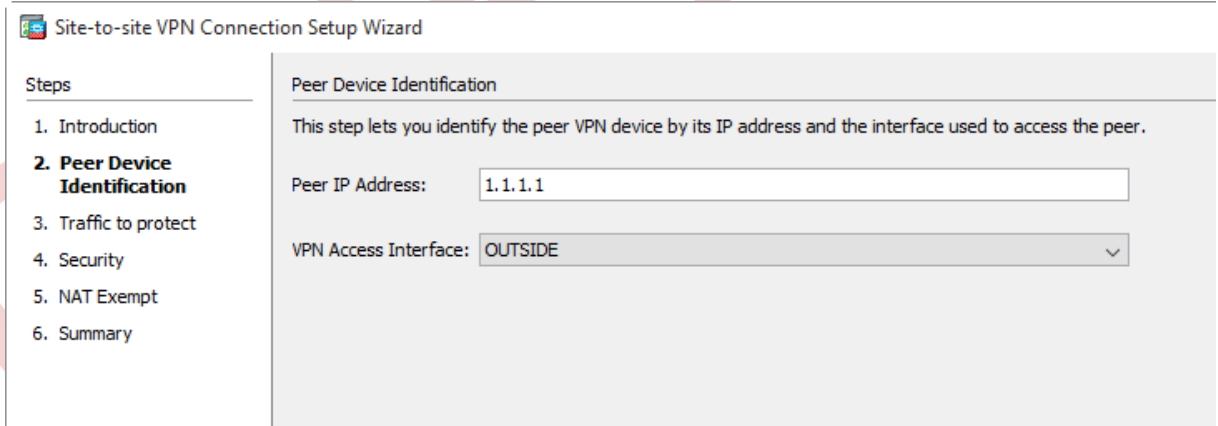


### Cisco'yu VPN Sunucusu Olarak Yapılandırma (Dial-In)

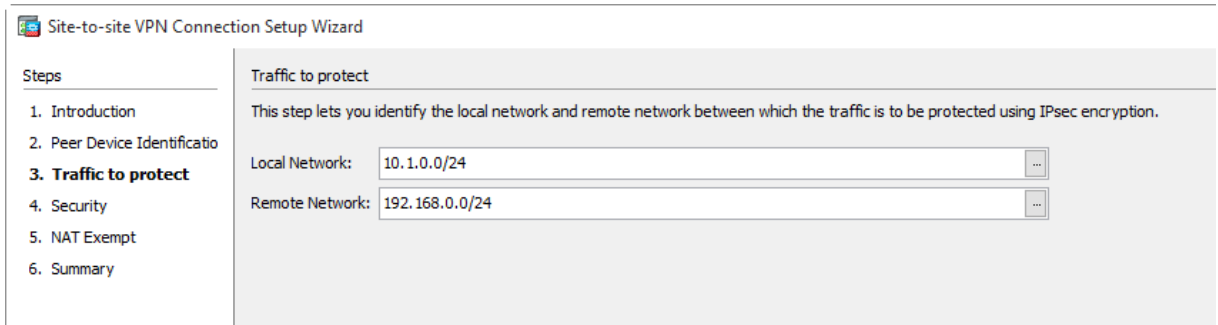
1. Vigor2960 Dial-In için Site to Site VPN profili oluşturmak için VPN Sihirbazlarını kullanın.



2. Vigor2960'ın WAN1 IP "1.1.1.1" yi Peer IP Adresi olarak belirtin.



3. Local Network ve Remote Network'ü belirtin.



4. Pre-shared Key girin.

The screenshot shows the 'Security' step of the 'Site-to-site VPN Connection Setup Wizard'. The 'Steps' list on the left includes: 1. Introduction, 2. Peer Device Identification, 3. Traffic to protect, 4. Security (selected), 5. NAT Exempt, and 6. Summary. The main content area explains that this step is for securing selected traffic. Two options are available: 'Simple Configuration' (selected) and 'Customized Configuration'. The 'Simple Configuration' section states that ASA uses the pre-shared key entered here for authentication and that ASDM will select common IKE and ISAKMP security parameters. A 'Pre-shared Key' field is shown with a masked key (12 dots). The 'Customized Configuration' section mentions the use of pre-shared keys or digital certificates and the ability to fine-tune encryption algorithms.

5. "Exempt ASA side host/network from address translation" seçeneğini seçmeyin.

The screenshot shows the 'NAT Exempt' step of the 'Site-to-site VPN Connection Setup Wizard'. The 'Steps' list on the left includes: 1. Introduction, 2. Peer Device Identification, 3. Traffic to protect, 4. Security, 5. NAT Exempt (selected), and 6. Summary. The main content area explains that this step allows exempting local network addresses from network translation. There is a checkbox labeled 'Exempt ASA side host/network from address translation' which is currently unchecked. To the right of the checkbox is a dropdown menu showing 'INSIDE'.

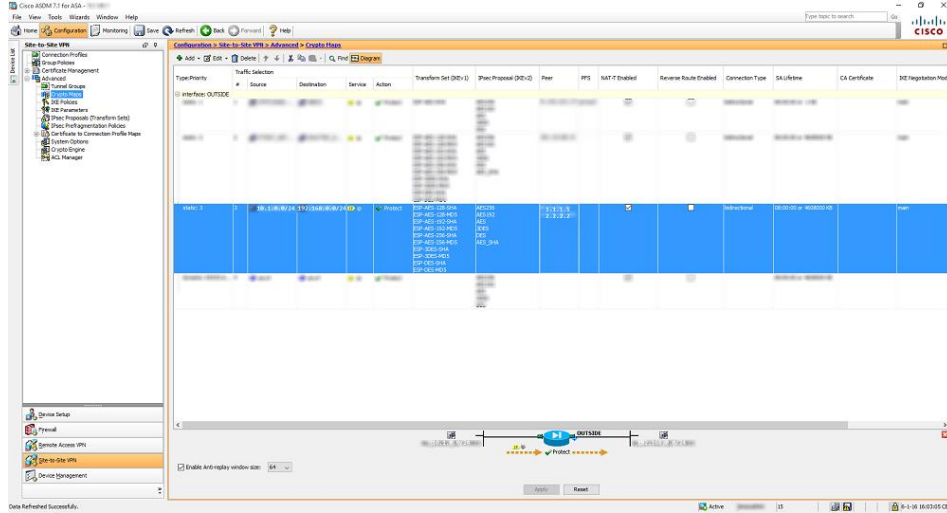
6. Bu VPN profilinin özeti, aşağıdaki şekilde gösterilecektir, kabul edilen IKE Protocol'ünü, IKE Policy'i ve IPsec Proposal'ı içerir.

The screenshot shows the 'Summary' step of the 'Site-to-site VPN Connection Setup Wizard'. The 'Steps' list on the left includes: 1. Introduction, 2. Peer Device Identification, 3. Traffic to protect, 4. Security, 5. NAT Exempt, and 6. Summary (selected). The main content area provides a summary of the configuration. A table lists the configuration details:

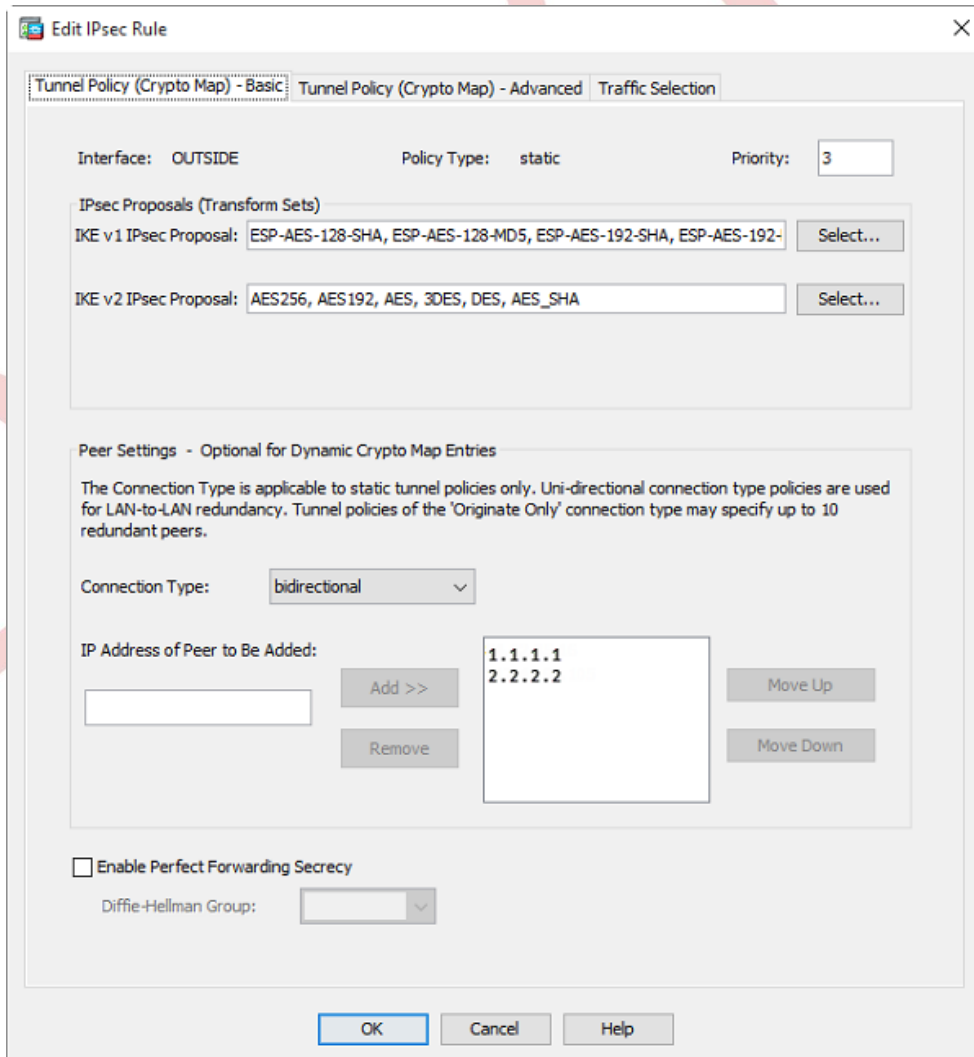
Name	Value
<b>Summary</b>	
Peer Device IP Address	1.1.1.1
VPN Access Interface	OUTSIDE
Protected Traffic	Local Network: 10.1.0.0/24 Remote Network: 192.168.0.0/24
IKE Version Allowed	IKE version 1 and IKE version 2
<b>Authentication Method</b>	
IKE v1	Use pre-shared key
IKE v2	Use pre-shared key when local device access the peer Use pre-share key when peer device access the local device
<b>Encryption Policy</b>	
Perfect Forward Secrecy (PFS)	Disabled
<b>IKE v1</b>	
IKE Policy	pre-share-aes-256-sha
IPsec Proposal	ESP-AES-128-SHA, ESP-AES-128-MD5, ESP-AES-192-SHA, ESP-AES-192-MD5, ESP-AES-256-SHA, ESP-AES-256-MD5, ESP-3DES-SHA, ESP-3DES-MD5, ESP-DES-SHA, ESP-DES-MD5
<b>IKE v2</b>	
IKE Policy	aes-256-sha512&sha384&sha256&sha-sha512&sha384&sha256&sha, aes-192-sha-sha, aes-sha-sha
IPsec Proposal	AES256, AES192, AES, 3DES, DES, AES_SHA
Network Address Translation	The protected traffic can be subjected to network address translation

At the bottom of the window, there are buttons for '< Back', 'Finish', 'Cancel', and 'Help'.

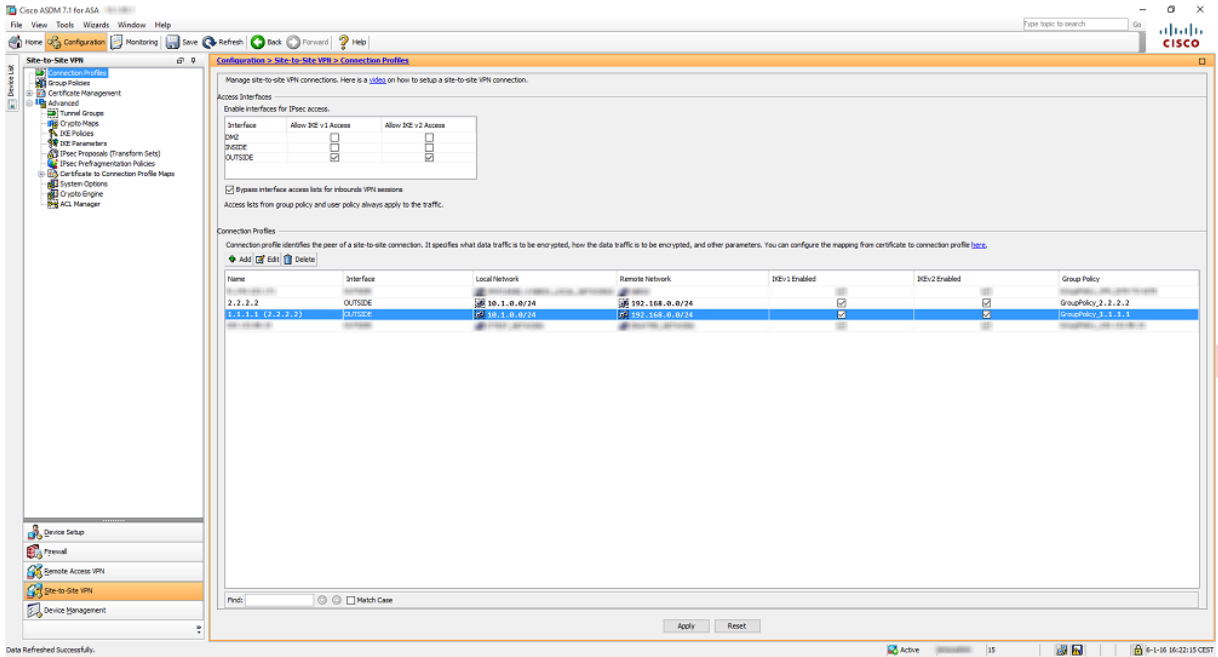
7. İkinci Peer IP Adresini ekleyerek (izin vererek) belirtilen Crypto Map'lere gidin ve belirtilen Crypto Map'leri düzenleyin (Vigor2960'ın WAN2 Public IP 2.2.2.2'sidir).



8. Şimdi VPN sihirbazı üzerinden ikinci VPN Bağlantısını ekleyin. Peer Public IP hariç, aynı ayarları kullanın. Şimdi 1.1.1.1 yerine 2.2.2.2 kullanın.



9. Bundan sonra, yapılandırma aşağıdakine benzer görünmelidir.



### Vigor2960'ı VPN Client Olarak Yapılandırma (Dial-Out)

10. Yeni bir profil oluşturmak için **VPN and Remote Access >> VPN Profile >> IPsec** sayfasına gidin.

- Basic sekmesinde profil adı girin ve profil için “Enable” yi etkinleştirin.
- **Auto Dial-Out** için Always Dial-Out ‘u seçin.
- **Dial-Out VPN Through** için wan1 ‘i seçin.
- **Failover** için wan2 ‘yi seçin.
- **Local IP /Subnet Mask**’a Vigor Router’ın LAN ağını girin.
- **Remote Host**’da Cisco’nun WAN IP’sini girin.
- **Remote IP/ Subnet Mask**’a Cisco’nun local ağını girin.
- **IKEv1** seçeneğini seçin.
- **Pre-Shared Key** girin.

Basic Advanced GRE Proposal Multiple SAs

Auto Dial-Out :  Enable  Disable Always Dial-Out

For Remote Dial-In User :  Enable  Disable

Dial-Out Through : wan1  Default WAN IP  WAN Alias IP

Failover to : wan2

Local IP / Subnet Mask : 192.168.0.0 255.255.255.0/24

Local Next Hop : 0.0.0.0 (0.0.0.0 : default gateway)

Remote Host : 4.4.4.4

Remote IP / Subnet Mask : 10.1.0.0 255.255.255.0/24

11. Advanced sekmesinde **Phase1 Key Lifetime** 28800'den 3600'e çevirin. (Çünkü Cisco VPN yapılandırması phase1 key lifetime 3600 saniyedir.)

Basic	Advanced	GRE	Proposal
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Phase1 Key Life Time :	<input type="text" value="3600"/>
Phase2 Key Life Time :	<input type="text" value="3600"/>
Perfect Forward Secrecy Status :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Dead Peer Detection Status :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DPD Delay :	<input type="text" value="30"/>
DPD Timeout :	<input type="text" value="120"/>
Ping to Keep Alive :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Route / NAT Mode :	<input type="text" value="Route"/>
Source IP :	<input type="text" value="auto_detect_srcip"/>
Apply NAT Policy :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Netbios Naming Packet :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Multicast via VPN :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
RIP via VPN :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

12. Proposal sekmesinde Cisco'daki proposal ayarlarında girilenlerin aynısını girin. Profili kaydetmek için **Apply**'a tıklayın.

Basic	Advanced	GRE	Proposal
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IKE Phase1 Proposal [Dial-Out] :	<input type="text" value="AES256 G5"/>
IKE Phase1 Authentication [Dial-Out] :	<input type="text" value="ALL"/>
IKE Phase2 Proposal [Dial-Out] :	<input type="text" value="AES256 with auth"/>
IKE Phase2 Authentication [Dial-Out] :	<input type="text" value="ALL"/>
Accepted Proposal [Dial-In] :	<input type="text" value="acceptall"/>

Yukarıdaki konfigürasyonları tamamladıktan sonra Vigor2960, IPsec tüneline WAN1 üzerinden otomatik olarak Cisco'ya çevirecek ve WAN1 kapalıyken Failover olarak WAN2 üzerinden Cisco'ya çevirecektir.