



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 192.168.0.0/2'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.

<u>i</u>	Cisco ASDM 7.1 fo	r ASA -	
File	View Tools	Wizards Window Help	
	Home 🔗 Conf	Startup Wizard	Back 🕥 Forward 🦻 Help
	Gite to Cite VD	VPN Wizards	> Site-to-site VPN Wizard
ja;	Site-to-Site VP	High Availability and Scalability Wizard	·· AnyConnect VPN Wizard
vice	Group Poli	Unified Communication Wizard	Clientless SSL VPN Wizard site-
ě	🗄 🔂 Certificate	Packet Capture Wizard	IPsec (IKEv1) Remote Access VPN Wizard
	Advanced Tunnel	Groups	able interfaces for IPsec access.

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

teps	Peer Device Identificat	tion	
1. Introduction	This step lets you iden	tify the peer VPN device by its IP address and the interface u	used to access the peer
2. Peer Device Identification	Peer IP Address:	1.1.1.1	
3. Traffic to protect			
4. Security	VPN Access Interface:	OUTSIDE	~
5. NAT Exempt			
6. Summary			

3. Local Network ve Remote Network'ü belirtin.

Site-to-site VPN Connect	tion Setup Wizard
Steps	Traffic to protect
1. Introduction	This step lets you identify the local network and remote network between which the traffic is to be protected using IPsec encryption.
2. Peer Device Identificatio	
3. Traffic to protect	Local Network: 10.1.0.0/24
4. Security	Remote Network: 192.168.0.0/24
5. NAT Exempt	
6. Summary	





4. Pre-shared Key girin.

🔄 Site-to-site VPN Connec	tion Setup Wizard	×
Steps 1. Introduction 2. Peer Device Identificatio 3. Traffic to protect 4. Security 5. NAT Exempt 6. Summary	Security This step lets you secure the selected traffic.	
1		

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

📧 Site-to-site VPN Connection Setup Wizard						
Steps	NAT Exempt					
1. Introduction	This step allows you to exempt the local network addresses from network translation.					
2. Peer Device Identificatio						
3. Traffic to protect	Exempt ASA side host/network from address translation					
4. Security						
5. NAT Exempt						
6. Summary						

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

🧧 Site-to-site VPN Connect	ion Setup Wizard	>
VPN Wizard	Summary	
Branch	Here is the summary of the configuration.	
SON TO	Name	Value
T ISP	Summary	
TORD	Peer Device IP Address	1.1.1.1
Home	VPN Access Interface	OUTSIDE
Corporate	Protected Traffic	Local Network: 10.1.0.0/24 Remote Network: 192.168.0.0/24
Network	IKE Version Allowed	IKE version 1 and IKE version 2
- ant	Authentication Method	
A State	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
LIIIIII	 Encryption Policy 	
	Perfect Forward Secrecy (PFS)	Disabled
Therefull	□ IKE v1	
The	IKE Policy	pre-share-aes-256-sha
TR	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
	□ IKE v2	
	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
VPN Wizard		
HERE Brains	< Back Finish	Cancel 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.

Interface: OUTSIDE	Policy Type: static	Priority: 3
IPsec Proposals (Transf	orm Sets)	
IKE v1 IPsec Proposal:	ESP-AES-128-SHA, ESP-AES-128-MD5, ESP-AE	S-192-SHA, ESP-AES-192- Select
IKE v2 IPsec Proposal:	AES256, AES192, AES, 3DES, DES, AES_SHA	Select
The Connection Type is for LAN-to-LAN redund redundant peers. Connection Type: IP Address of Peer to B	applicable to static tunnel policies only. Uni-dire ancy. Tunnel policies of the 'Originate Only' con bidirectional	ectional connection type policies are used nection type may specify up to 10 Move Up Move Down
Enable Perfect Forwa	rding Secrecy	





9. Bundan sonra, yapılandırma aşağıdakine benzer görünmelidir.

<pre>be det vm</pre>	🖓 Configuration 🔯 Monitoring 🔚 Save (🔇 Refresh 🚺 Dack 🔘 Fo	rward 🦻 Help					CISCO
Set State Market More the dot 40 Cardot	to-Site VPN 🗗 🖟	Configuration > Ste-to-St	e VPN > Connection Profiles					0
	Connection Profiles Group Policies	Manage site-to-site VPN con	nections. Here is a <u>video</u> on how to setup a s	te-to-site VPN connection.				
Book	Certificate Management	Access Interfaces						
	Advanced	Enable interfaces for IPsec a	coess.					
Rescand Image: Ima	- Ing Crypto Maps	Interface Allow 3	KE v1 Access Allow IKE v2 Access					
Specific Market Mickel Mic	IXE Policies	DMZ	0 0					
Procession Image: market in a second line of thouse With	IPsec Proposals (Transform Sets)	DISIDE O ITSIDE						
Control Prove Table	IPsec Prefragmentation Policies		2 2					
Cycle Steppe Cycle Steppe Cycle Steppe Cycle Steppe Cycle Steppe Cycle Steppe Cycle Steppe Cycle Steppe <td>System Options</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	System Options							
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gradies for the field Concision profile difficient fragered at the basic concision. It genetifies that data baffic is to be encrypted, and other parameters. The concentry of the magning frame control data to concentry. It genetifies the basic concentry. It genetifies tha basic concentry. It genetifies the basic concentry. It genetifi	- 27 MLL Manager	Access lists from group policy	y and user policy always apply to the traffic.					
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		Connection grafile identifies	the oper of a site to site connection. It speci	fes what data traffic is to be encrunted, how the data	traffic is to be encrunted, and other nacar	meters. You can confine re the marging from cert	ficate to connection modile here.	
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Control Contro Control Control Control Control Control Control Control Control C		Name	Interface	Local Mehoryk	Demote Network	TKFu 1 Feabled	10Ftv2 Finabled	Crean Delay
2.2.2 0/1528 10 10 0000000(2,2,2,2,2) 1.1.1.1.1.1.2.2.2.3 301002 10 10 0000000(2,2,2,2,2) 1.1.1.1.1.2.2.2.3 301002 10 10 0000000(2,2,3,2,2) 1.1.1.1.1.2.2.2.3 301002 10 10 0000000(2,2,3,2,2) 1.1.1.1.1.2.2.2.3 301002 10 10 0000000(2,3,3,2,3,1,3,1,3,1) 1.1.1.1.1.2.2.2.3 301002 10 10 0000000(2,3,3,3,1,3,1,3,1,3,1) 1.1.1.1.1.2.2.2.3 301002 10 10 10 00000000(2,3,3,1,3,1,3,1,3,1)		10-00-00-00	and the second	The second commences of the second	Renow records.	DUT CHERT	PLAT CARDING	diaproxy
Specie False		2.2.2.2	OUTSIDE	10.1.0.0/24	192.168.0.0/24			GroupPolicy_2.2.2.2
geno Sale ¹ Trout geno Sale ¹ Trout geno Sale ¹ Trout geno Sale ¹ Trout ¹ Trout		1.1.1.1 (2.2.2.2)	ounside	10.1.0.0/24	192.168.0.0/24			GroupPolicy_1.1.1.1
Spread Alege Spread Spread Spread Alege SPA Spread Alege SPA		100-10-00-0	10,700	ALC: 1000 - 10000	A DESCRIPTION OF TAXABLE	12	(22)	10000000000000000000000000000000000000
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Vigor2960'ı VPN Client Olarak Yapılandırma (Dial-Out)

10. Teni 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 Alw	ays Dial-Out
For Remote Dial-In User :	Enable Disable	
Dial-Out Through :	wan1 🗸	Default WAN IP OWAN 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
Phase1 Ke	y Life Time :	3600	
Phase2 Ke	y Life Time :	3600	
Perfect Fo	rward Secrecy St	tatus: 🔵 Ena	ble 💿 Disable
Dead Peer	Detection Status	s: 💿 Ena	ble 🔵 Disable
DPD Delay	:	30	
DPD Time	out:	120	
Ping to Ke	ep Alive :	🔵 Ena	ble 💿 Disable
Route / NA	T Mode :	Route	
Source IP	:	auto_det	ect_srcip
Apply NAT	Policy :	🔵 Ena	ble 💿 Disable
Netbios Na	aming Packet :	🔵 Ena	ble 💿 Disable
Multicast	via VPN :	🔵 Ena	ble 💿 Disable
RIP via VP	N :	🔵 Ena	ble 💿 Disable

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

Basic Advanced GRE Proposal	
IKE Phase1 Proposal [Dial-Out] : AES256 G5	~
IKE Phase1 Authentication [Dial-Out] : ALL	~
IKE Phase2 Proposal [Dial-Out] : AES256 with auth	~
IKE Phase2 Authentication [Dial-Out] : ALL	~
Accepted Proposal [Dial-In] : acceptall	~

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