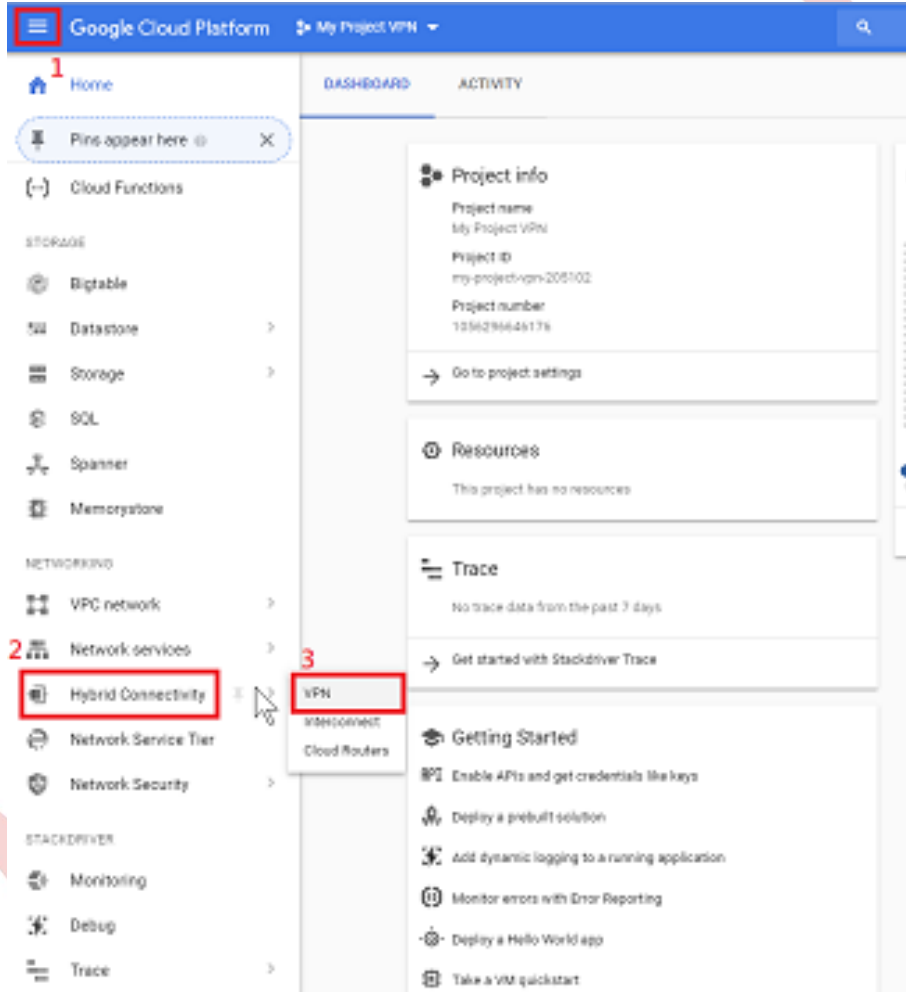


## GOOGLE CLOUD PLATFORM VE VIGOR ROUTER ARASINDA IPSEC VPN

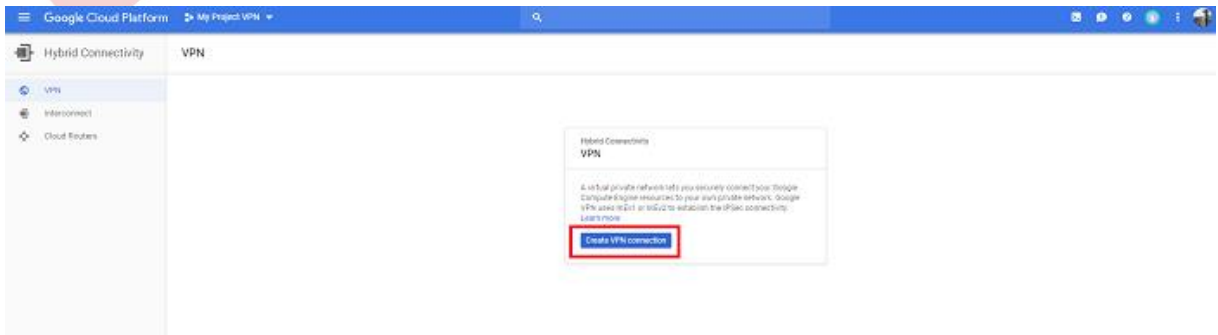
Google Cloud Platform, IPsec VPN'i destekler; bu, kullanıcıların platformu güvenli bir bağlantıyla kendi özel ağlarına bağlamalarına ve veri aktarımına bir koruma katmanı eklemelerine olanak sağlar. Bu makale Vigor Router ve Google platformu arasında nasıl VPN bağlantısı kurulacağını göstermektedir.

### Google Cloud Platformunun Yapılandırması

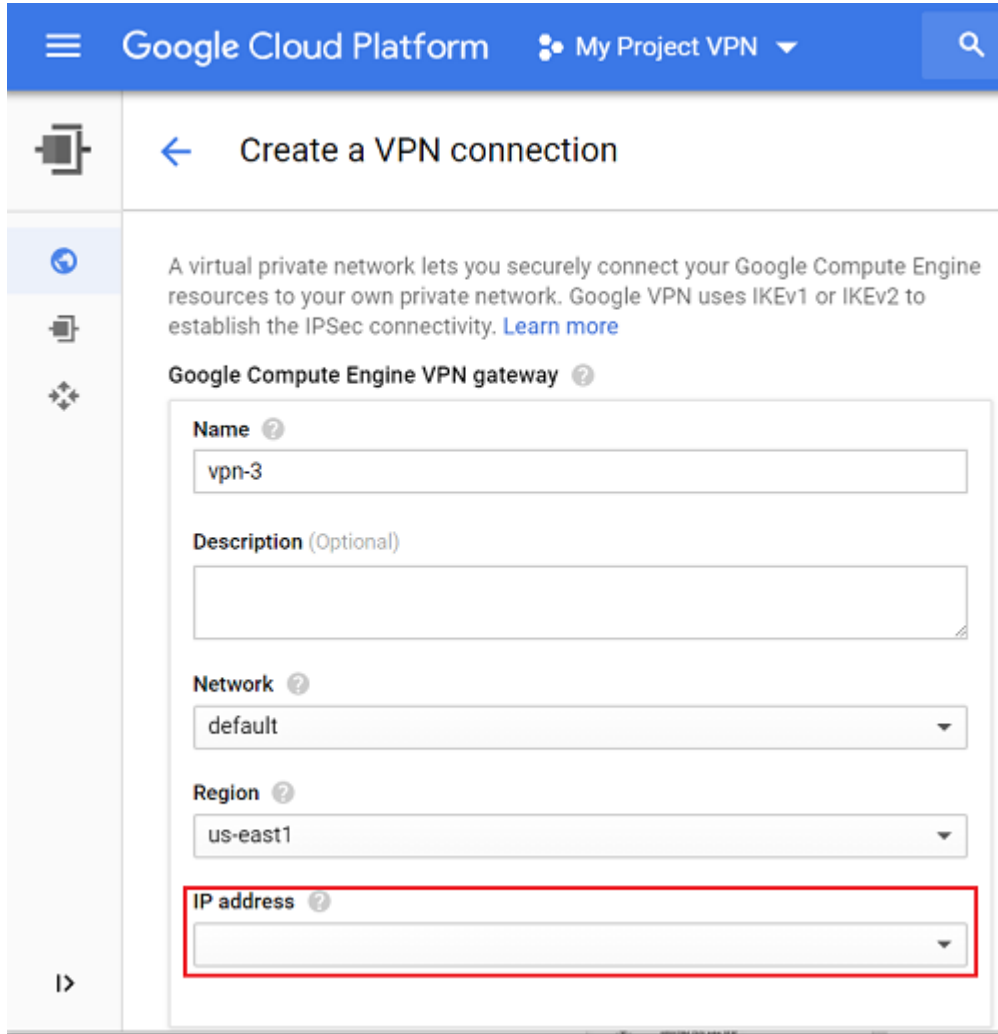
1. Google Cloud Platform'a girin. **Menu > Hybrid Connectivity** sayfasına gidin ve **VPN** 'e tıklayın.



2. **Create VPN Connection**'a tıklayın.



3. Konunuza göre **Region** seçin , ardından **IP address**'ini tıklayın .



Google Cloud Platform My Project VPN

### Create a VPN connection

A virtual private network lets you securely connect your Google Compute Engine resources to your own private network. Google VPN uses IKEv1 or IKEv2 to establish the IPSec connectivity. [Learn more](#)

Google Compute Engine VPN gateway ?

Name ?  
vpn-3

Description (Optional)

Network ?  
default

Region ?  
us-east1

IP address ?

4. IP adresine isim girin ve **RESERVE**'e tıklayın.

### Reserve a new static IP address

Name ?  
draytek

Description (Optional)

CANCEL

RESERVE

5. Tunnel ayarlarında,

- **Remote peer IP address**'de Vigor Router'ın WAN'ını girin.
- **IKE version** için IKEv2 seçeneğini seçin.
- **Shared Secret** girin.
- **Routing Options** için "Route-based" seçeneğini seçin.
- **Remote network IP ranges** için Vigor Router'ın LAN IP'sini girin.

## Tunnels ?

You can have multiple tunnels to a single Peer VPN gateway

New item
🗑️ ✕

**Name** ?

**Description** (Optional)

**Remote peer IP address** ?

**IKE version** ?

**Shared secret** ?

**Routing options** ?

Dynamic (BGP)
  **Route-based**
 Policy-based

**Remote network IP ranges** ?

Enter multiple IP address ranges (in CIDR notation) by pressing Enter after each one

+ Add tunnel

1. Yeni oluşturulan VPN interface'si için **Network**'e tıklayın.

VPN

+ CREATE

Google VPN Tunnels [Google VPN Gateways](#)

Filter by VPN gateway properties

Columns ▾

<input type="checkbox"/> Gateway name ^	Google IP address	Network	Region	Tunnels
<input type="checkbox"/> vpn-1	35.237.209.49	default	us-east1	
<input type="checkbox"/> vpn-1	35.186.185.183	<a href="#">default</a>	us-east4	vpn-2-tunnel-1

2. 3. adımda seçtiğiniz bölgenin **IP address ranges**'ini kopyalayın.

default

Description

Default network for the project

Subnet creation mode

Auto subnets

Dynamic routing mode

Regional

Subnets Static internal IP addresses Firewall rules Routes VPC Network Peering

<input type="checkbox"/>	Name ^	Region	IP address ranges	Gateway	Private Google access	Flow logs	?
<input type="checkbox"/>	default	us-central1	10.128.0.0/20	10.128.0.1	Off	Off	
<input type="checkbox"/>	default	europa-west1	10.132.0.0/20	10.132.0.1	Off	Off	
<input type="checkbox"/>	default	us-west1	10.138.0.0/20	10.138.0.1	Off	Off	
<input type="checkbox"/>	default	asia-east1	10.140.0.0/20	10.140.0.1	Off	Off	
<input type="checkbox"/>	default	us-east1	10.142.0.0/20	10.142.0.1	Off	Off	
<input type="checkbox"/>	default	asia-northeast1	10.146.0.0/20	10.146.0.1	Off	Off	
<input type="checkbox"/>	default	asia-southeast1	10.148.0.0/20	10.148.0.1	Off	Off	
<input type="checkbox"/>	default	us-east4	10.150.0.0/20	10.150.0.1	Off	Off	
<input type="checkbox"/>	default	australia-southeast1	10.152.0.0/20	10.152.0.1	Off	Off	
<input type="checkbox"/>	default	europa-west2	10.154.0.0/20	10.154.0.1	Off	Off	
<input type="checkbox"/>	default	europa-west3	10.156.0.0/20	10.156.0.1	Off	Off	
<input type="checkbox"/>	default	southamerica-east1	10.158.0.0/20	10.158.0.1	Off	Off	
<input type="checkbox"/>	default	asia-south1	10.160.0.0/20	10.160.0.1	Off	Off	
<input type="checkbox"/>	default	northamerica-northeast1	10.162.0.0/20	10.162.0.1	Off	Off	
<input type="checkbox"/>	default	europa-west4	10.164.0.0/20	10.164.0.1	Off	Off	

## Vigor Router Konfigürasyonu

- VPN and Remote Access> LAN to LAN sayfasına gidin. Ve uygun bir indexe tıklayın.
  - Profile name girin.
  - Call Direction için "Dial-in" seçeneğini seçin.
  - Enable this profile işaretleyin.
  - Idle Timeout için 0 değerini girin. Böylece bu tünel trafik olmadığında bile bağlı kalacaktır.

Profile Index : 3

### 1. Common Settings

Profile Name <input type="text" value="Google"/>	Call Direction <input type="radio"/> Both <input type="radio"/> Dial-Out <input checked="" type="radio"/> Dial-in
<input checked="" type="checkbox"/> Enable this profile	Tunnel Mode <input type="radio"/> GRE Tunnel
VPN Dial-Out Through <input type="text" value="WAN1 First"/>	<input type="checkbox"/> Always on
<input type="text" value=""/>	Idle Timeout <input type="text" value="0"/> second(s)
Netbios Naming Packet <input checked="" type="radio"/> Pass <input type="radio"/> Block	<input type="checkbox"/> Enable PING to keep IPsec tunnel alive
Multicast via VPN <input type="radio"/> Pass <input checked="" type="radio"/> Block	PING to the IP <input type="text" value=""/>
(for some IGMP,IP-Camera,DHCP Relay..etc.)	

7. **Allowed Dial-In Type** için "IPsec Tunnel" ini seçin. TCP/IP Network Settings'de, **Remote network IP** ve **Remote Network Mask** için 6.adımda kopyalanan IP ve subnet mask'ı girin. **Local Network IP**'ye ve **Local Network Mask**'a Google Cloud'a bağlamak istediğiniz Local Subnetin IP'sini girin.

3. Dial-In Settings

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

<input type="checkbox"/> Enable IPsec Dial-Out function GRE over IPsec <input type="checkbox"/> Logical Traffic My GRE IP <input type="text"/> Peer GRE IP <input type="text"/>
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5. 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="10.158.0.0"/> Remote Network Mask <input type="text" value="255.255.240.0"/> 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="text" value="Route"/> <input type="checkbox"/> IPsec VPN with the Same Subnets  <input type="checkbox"/> Change default route to this VPN tunnel ( Only active if one single WAN is up )
--	---

8. **VPN and Remote Access >> IPsec General Setup** sayfasına gidin ve 5.adımda girilen **Pre-Shared Key**'i burada da 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).

<b>IKE Authentication Method</b> Certificate for Dial-in <input type="text" value="None"/> <b>Pre-Shared Key</b> Pre-Shared Key <input type="text" value="****"/> Confirm Pre-Shared Key <input type="text" value="****"/> <b>IPsec Security Method</b> <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.
---

9. Konfigürasyondan sonra, VPN otomatik olarak kurulacaktır. **Remote Access >> Connection Management** sayfasından VPN bilgilerini görebiliriz.

#### VPN and Remote Access >> Connection Management

##### Dial-out Tool

General Mode:	<input type="text"/>	Dial
Backup Mode:	<input type="text"/>	Dial
Load Balance Mode:	<input type="text"/>	Dial

##### VPN Connection Status

LAN-to-LAN VPN Status			Remote Dial-in User Status					
VPN	Type	Remote IP	Virtual Network	Tx Pkts	Tx Rate(bps)	Rx Pkts	Rx Rate(bps)	UpTime
1 ( Google )	IKEv2 IPsec Tunnel AES-SHA1 Auth	35.192.146.191 via WAN2	10.158.0.0/20	0	0	0	0	0:1:17 <span>Drop</span>

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

VPN CREATE DELETE

Google VPN Tunnels Google VPN Gateways

Filter by VPN tunnel properties Columns

Tunnel name	Status	Google gateway	Google IP address	Google network	Region	Peer IP address	Routing type
vpn-2-tunnel-1	Established	vpn-2	35.192.146.191	default	us-central1	118.166.185.250	Route-based