



UBUNTU'DAN VIGOR ROUTER'A IPsec VPN ÜZERİNEDEN L2TP

Bu makale Vigor Router'ın VPN serverı olarak, özellikle Ubuntu ve IPsec VPN üzerinden Ubuntu'dan (16.04) Vigor Router'ın özel ağına L2TP (layer 2 Tunneling Protocol) için nasıl kurulacağını göstermektedir. Bu makale Vigor Router konfigürasyonunu, Ubuntu'da IPsec üzerinden L2TP yüklemek için komutları ve Ubuntu üzerine Vigor Router bir VPN arabirimi oluşturmayı kapsamaktadır.

Vigor Router Konfigürasyonu

1. VPN and Access >> Remote Dial-In User bölümüne gidin ve uygun bir indexe tıklayın.

			•				
Remote A	ccess User A	Set to	Factory Default				
Index	User	Active	Status	Index	User	Active	Status
1.	???			<u>17.</u>	???		
2.	???			<u>18.</u>	???		
<u>3.</u>	???			<u>19.</u>	???		
<u>4.</u>	???			<u>20.</u>	???		
<u>5.</u>	???			<u>21.</u>	???		
<u>6.</u>	???			22.	???		
7	222			22	222		

VPN and Remote Access >> Remote Dial-in User

2. Enable this account'u işaretleyin ve username/password girin. Allowed Dial-in Type sekmesinde L2TP with

IPsec Policy "Must" olacak şekilde etkinleştirildiğinden emin olun.

Index No. 1	
User account and Authentication Contemporation Contemporation Contemporatio Contemporation Contemporatio Contemporatio Contemporatio Contem	Username vpnuser Password ••••••
Allowed Dial-In Type	Enable Mobile One-Time Passwords(mOTP) PIN Code Secret
PPTP IPsec Tunnel IPsec XAuth	IKE Authentication Method
L2TP with IPsec Policy Must SSL Tunnel OpenVPN Tunnel IVEV2 FAR	IKE Pre-Shared Key Max: 64 characters Digital Signature(X.509) None ▼
Specify Remote Node Remote Client IP	IPsec Security Method ☞ Medium(AH) High(ESP) ☞ DES ☞ 3DES ☞ AES

VPN and Remote Access >> Remote Dial-in User

3. VPN and Remote Access >> General Setup bölümüne gidin ve IPsec üzerinden L2TP için bir General Pre-

Shared Key girin.





VPN and	Remote	Access	>>	IPsec	General	Setun

IKE Authentication Method		
Certificate for Dial-in	None 🔻	
General Pre-Shared Key		
Pre-Shared Key	•••••	
Confirm Pre-Shared Key	•••••	
Pre-Shared Key for XAuth User		
Pre-Shared Key	•••••	
Confirm Pre-Shared Key	•••••	
IPsec Security Method		
Medium (AH)		
Data will be authenticated, I	out will not be encrypted.	
High (ESP) 🕑 DES 🕑 3D	ES 🗹 AES	
Data will be encrypted and a	uthenticated.	

Ubuntu'da IPsec Üzerinden L2TP Kurulumu

Aşağıdaki komutlarla ağ yöneticisine L2TP'yi IPsec üzerinden kurmak için terminali açın:

sudo apt-get update

louis@louis-VirtualBox:~S sudo apt-get update
[sudo] password for louis:
Hit:1 http://tw.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://tw.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:3 http://tw.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]
Hit:5 http://ppa.launchpad.net/nm-l2tp/network-manager-l2tp/ubuntu_xenial_InRelease
Get:6 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [849 kB]
Get:7 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main i386 Packages [763 kB]
Get:8 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main Translation-en [347 kB]
Get:9 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main amd64 DEP-11 Metadata [320 kB]
Get:10 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main DEP-11 64x64 Icons [227 kB]
Get:11 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [691 kB]
Get:12 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe i386 Packages [632 kB]
Get:13 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe Translation-en [279 kB]
Get:14 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 DEP-11 Metadata [247 kB]
Get:15 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe DEP-11 64x64 Icons [333 kB]
Get:16 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [16.4 kB]
Get:17 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse i386 Packages [15.5 kB]
Get:18 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 DEP-11 Metadata [5956 B]
Get:19 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse DEP-11 64x64 Icons [14.3 kB]
Get:20 http://tw.archive.ubuntu.com/ubuntu xenial-backports/main amd64 DEP-11 Metadata [3324 B]
Get:21 http://tw.archive.ubuntu.com/ubuntu xenial-backports/universe amd64 DEP-11 Metadata [5100 B]
Get:22 http://security.ubuntu.com/ubuntu xenial-security/main amd64 DEP-11 Metadata [67.7 kB]
Get:23 http://security.ubuntu.com/ubuntu xenial-security/main DEP-11 64x64 Icons [68.0 kB]
Get:24 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 DEP-11 Metadata [108 kB]
Get:25 http://security.ubuntu.com/ubuntu xenial-security/universe DEP-11 64x64 Icons [150 kB]
Fetched 5464 kB in 4s (1361 kB/s)
AppStream cache update completed, but some metadata was ignored due to errors.
Reading package lists Done

sudo apt-get upgrade

louis@louis-VirtualBox:~\$ sudo apt-get upgrade
Reading package lists Done
Building dependency tree
Reading state information Done
Calculating upgrade Done
The following packages will be upgraded:
binutils fonts-opensymbol fwupd gstreamer1.0-libav gstreamer1.0-plugins-bad gstreamer1.0-plugins-b
initramfs-tools initramfs-tools-bin initramfs-tools-core libappstream-glib8 libdfu1 libfwupd1 libg
libreoffice-base-core libreoffice-calc libreoffice-common libreoffice-core libreoffice-draw libreo
libreoffice-pdfimport libreoffice-style-breeze libreoffice-style-galaxy libreoffice-writer libsmbc
samba-libs squashfs-tools uno-libs3 ure va-driver-all x11-common xorg xserver-common
49 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 73.5 MB/88.1 MB of archives.
After this operation, 4232 kB of additional disk space will be used.
Do you want to continue? [Y/n] y





sudo add-apt-repository ppa:nm-12tp/network-manager-12tp

louis@louis-VirtualBox:-\$ sudo add-apt-repository ppa:nm-l2tp/network-manager-l2tp
network-manager-l2tp for Ubuntu 14.04 and 16.04.
network-manager-l2tp is a VPN plugin for NetworkManager which provides support for L2TP and L2TP/IPsec (*
Note: Ubuntu 17.10 and later ship with network-manager-l2tp and network-manager-l2tp-gnome packages in th
After adding this PPA to your system, issue the following to install :
 sudo apt install network-manager-l2tp network-manager-l2tp-gnome
Home page : https://github.com/nm-l2tp/NetworkManager-l2tp
If you would like this package added to the official Ubuntu 16.04 backport repository, please login to th
https://bugs.launchpad.net/xenial-backports/+bug/1697934
More info: https://launchpad.net/-nm-l2tp/+archive/ubuntu/network-manager-l2tp
Press [ENTER] to continue or ctrl-c to cancel adding it
gpg: keyring '/tmp/tmp75a5a5m4/pubring.gpg' created
gpg: requesting key 665AB177 from hkp server keyserver.ubuntu.com
gpg: /tmp/tmp75a5a5m4/pubring.gpg trustdb created
gpg: keyring '/tmp/tmp75a5a5m4/pubring.ppg trustdb created
gpg: total number processed: 1
gpg: imported: 1 (RSA: 1)
K

sudo apt-get update

louis@louis-VirtualBox:~\$ sudo apt-get update	
Hit:1 http://tw.archive.ubuntu.com/ubuntu xenial InRelease	
Hit:2 http://tw.archive.ubuntu.com/ubuntu xenial-updates InRelease	
Hit:3 http://tw.archive.ubuntu.com/ubuntu xenial-backports InRelease	
Get:4 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]	
Hit:5 http://ppa.launchpad.net/nm-l2tp/network-manager-l2tp/ubuntu_xenial_InRelease	
Fetched 107 kB in 1s (63.2 kB/s)	
AppStream cache update completed, but some metadata was ignored due to errors.	
Reading package lists Done	

sudo apt-get install network-manager-l2tp network-manager-l2tp-gnome

louis@louis-VirtualBox:~\$ sudo apt-get install network-manager-l2tp nework-manager-l2tp-gnome Reading package lists... Done Building dependency tree Reading state information... Done

Ubuntu'dan VPN Kurulumu

1. System Settings >> Network açın. Yeni bir VPN ara yüzü oluşturmak için '+' tıklayın.

All Settings Network Airplane Mode OFF





2. VPN bağlantı tipi için "L2TP" seçin.

Choose a VPN Connection Type	
elect the type of VPN you wish to use for the ype of VPN connection you wish to create do ist, you may not have the correct VPN plugin i	new connection. If the es not appear in the installed.
Layer 2 Tunneling Protocol (L2TP)	•
Compatible with Microsoft and other L2TP VPN	servers.
	Cancel Create

3. Vigor Router'in IP ve domain adı olan Gateway'i ve Vigor Router'da oluşturulan username/password'ü girin.

IPsec Settins 'e tıklayın ve Pre-Shared Key'de Vigor Router'da ayarlanan General Pre-Shared Key'i girin.

S 🔵 🐵 Editing L2TP	😣 🗊 L2TP IPsec Options
Connection name: L2TP General VPN IPv4 Settings General Gateway: vigor.vpnserver.net Optional User name: vpnuser Password: ••••••• •• Show password NT Domain:	Cancel OK
IPsec Settings PPP Settings Export Cancel	

4. VPN bağlantısını açın.







Router'da İstemcinin VPN and Remote Access >> Connection Management bölümünden bağlanıp bağlanmadığını kontrol edebiliriz.

VPN and Remote Access >> Connection Management

Dia	-out	Tool

Dial-out Tool			Refresh	
General Mode:	T	Dial		
Backup Mode:	T	Dial		
Load Balance Mode:	•	Dial		

VPN Connection Status

All VPN Status	LAN-to-LAN VPN Status		Remote Dial-in User Status						
VPN	Туре	Remote IP	Virtual Network	Tx Pkts	Tx Rate(bps)	Rx Pkts	Rx Rate(bps)	UpTime	
1 (vpnuser) Local User Database	L2TP AES-SHA1 Auth	J11.251 222.105 via WAN1	192.168.32.11/32	8	72	8	72	0:1:52	Drop

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