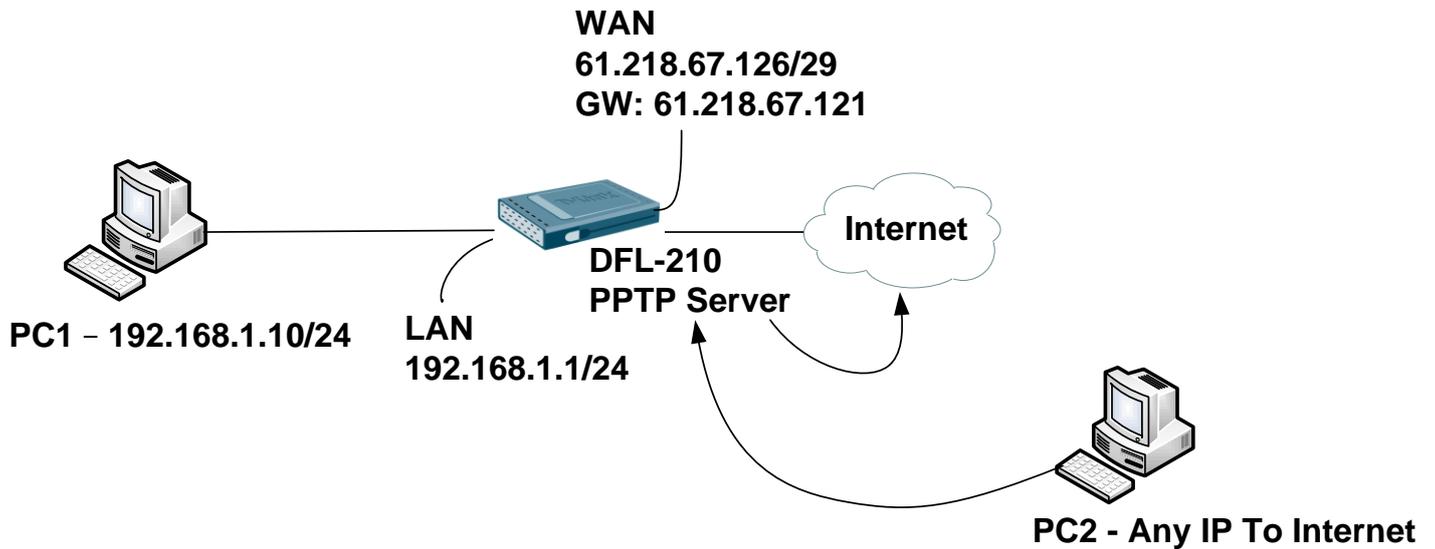


How to set up PPTP Server make remote user traffic to go through the internet



DFL-210 Set up SOP

1. Create some of objects

Address Book > InterfaceAddresses

#	Name	Address	User Auth Groups	Comments
1	wan_ip	61.218.67.126		IPAddress of interface wan
2	wannet	255.255.255.248		The network on interface wan
3	wan_gw	61.218.67.121		Default gateway for interface wan.
4	wan_dns1	0.0.0.0		Primary DNS server for interface wan.
5	wan_dns2	0.0.0.0		Secondary DNS server for interface wan.
6	lan_ip	192.168.1.1		IPAddress of interface lan
7	lannet	192.168.1.0/24		The network on interface lan
8	dmz_ip	172.17.100.254		IPAddress of interface dmz
9	dmznet	172.17.100.0/24		The network on interface dmz
10	PPTP_Server_IP	10.10.10.100		
11	PPTP_POOL	10.10.10.110-10.10.10.120		
12	Google_DNS	8.8.8.8		
13	HiNet_DNS	168.95.1.1		

2. Create PPTP Server

Interfaces > PPTP/L2TP Servers

General

PPTP1
A PPTP/L2TP server interface terminates PPP (Point to Point Protocol) tunnels set up over existing IP networks.

General | PPP Parameters | Add Route

General

Name: PPTP1

Inner IP Address: PPTP_Server_IP

Tunnel Protocol: PPTP

Outer Interface Filter: wan

Server IP: wan_ip

PPP Parameters

PPTP1
A PPTP/L2TP server interface terminates PPP (Point to Point Protocol) tunnels set up over existing IP networks.

General | **PPP Parameters** | Add Route

IPPool: PPTP_POOL

DNS: Primary: Google_DNS, Secondary: HiNet_DNS
NBNS/WINS: (None), (None)

3. Create Local User Database (PPTP_Users)

Users > Add

PPTP_Users
A local user database contains user accounts used for authentication purposes.

General | **Users**

Add

Name	Groups	IP Pool	Networks	Comments
dlink				

dlink
User credentials may be used in User Authentication Rules, which in turn are used in e.g. PPP, IPsecXAuth, Web Authentication, etc

General | **SSH Public Key**

General

Name: dlink
Password:
Confirm Password:
Note! Existing passwords will always be shown with 8 characters to hide the actual length.

Groups: [Empty field]

Comma separated list of groups
Users that are members of the 'administrators' group are allowed to change the firewall configuration.
Users that are members of the 'auditors' group are only allowed to view the firewall configuration.

Add administrators | Add auditors

Per-user PPTP/L2TP IP Configuration

Static Client IP Address: (None)
Networks behind user: (None)
Metric for networks: [Empty field]

4. Create User Authentication Rule

User Authentication > User Authentication Rule

General

PPTP
The User Authentication Ruleset specifies from where users are allowed to authenticate to the system, and how.

General | Log Settings | Authentication Options | Accounting | Agent Options | Restrictions

General

Name: PPTP
Authentication agent: PPP
Authentication Source: Local
Interface: PPTP1
Originator IP: all-nets
Terminator IP: wan_ip

For XAuth and PPP, this is the tunnel originator IP.

Authentication Options

The screenshot shows the 'Authentication Options' tab in the PPTP configuration interface. The 'Local User DB' dropdown menu is set to 'PPTP_Users'.

5. Create IP Rules

The screenshot shows the 'PPTP_Rules' configuration page. A table lists three IP rules. A red box highlights the table, and a red notice states: "Notice: NAT Action must set up the lowed rules." (Note: 'lowed' is likely a typo for 'lower').

#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	VPN_Incoming	Allow	PPTP1	all-nets	lan	lannet	all_services
2	VPN_Outgoing	Allow	lan	all-nets	PPTP1	all-nets	all_services
3	PPTP_NAT	NAT	PPTP1	all-nets	wan	all-nets	all_services

VPN_Incoming

General

The screenshot shows the 'General' configuration page for the 'VPN_Incoming' rule. The 'Name' is 'VPN_Incoming', 'Action' is 'Allow', 'Service' is 'all_services', and 'Schedule' is '(None)'. The 'Address Filter' section shows 'Source' as 'PPTP1' and 'Destination' as 'lan'.

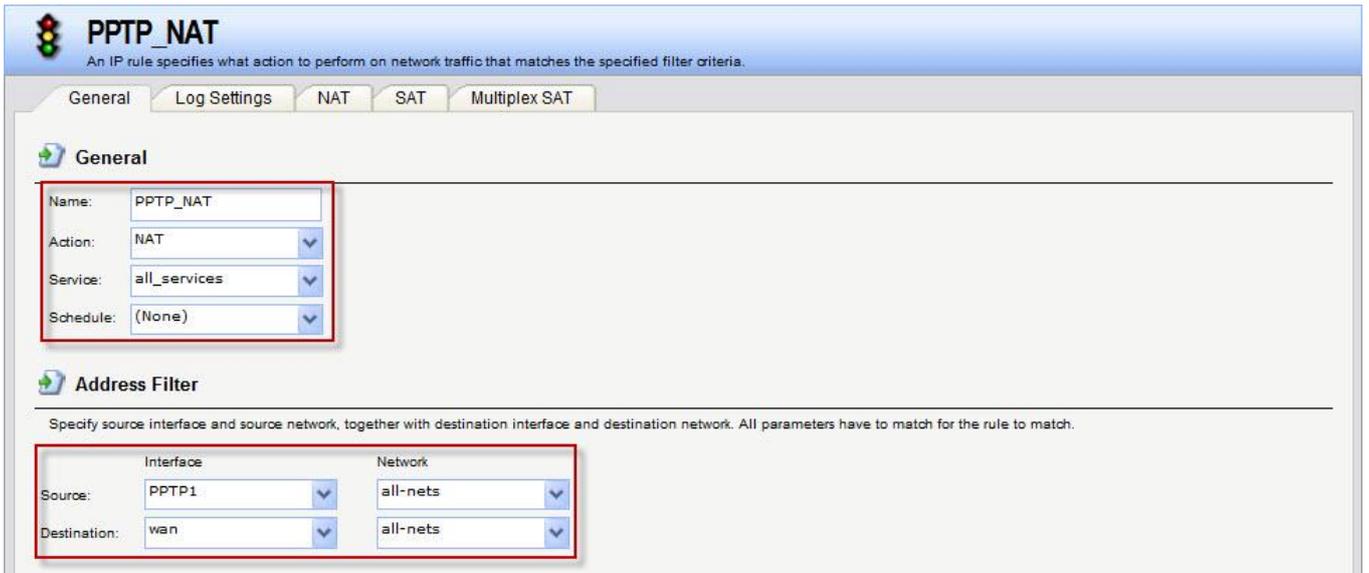
VPN_Outgoing

General

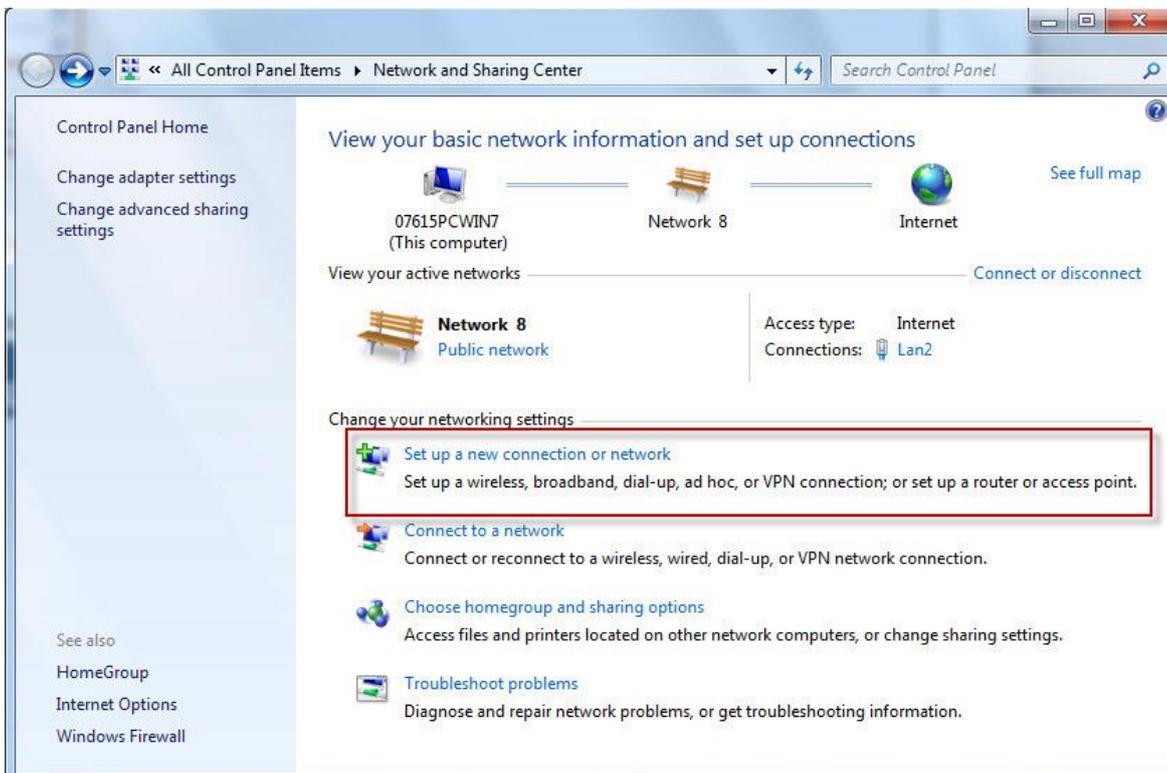
The screenshot shows the 'General' configuration page for the 'VPN_Outgoing' rule. The 'Name' is 'VPN_Outgoing', 'Action' is 'Allow', 'Service' is 'all_services', and 'Schedule' is '(None)'. The 'Address Filter' section shows 'Source' as 'lan' and 'Destination' as 'PPTP1'.

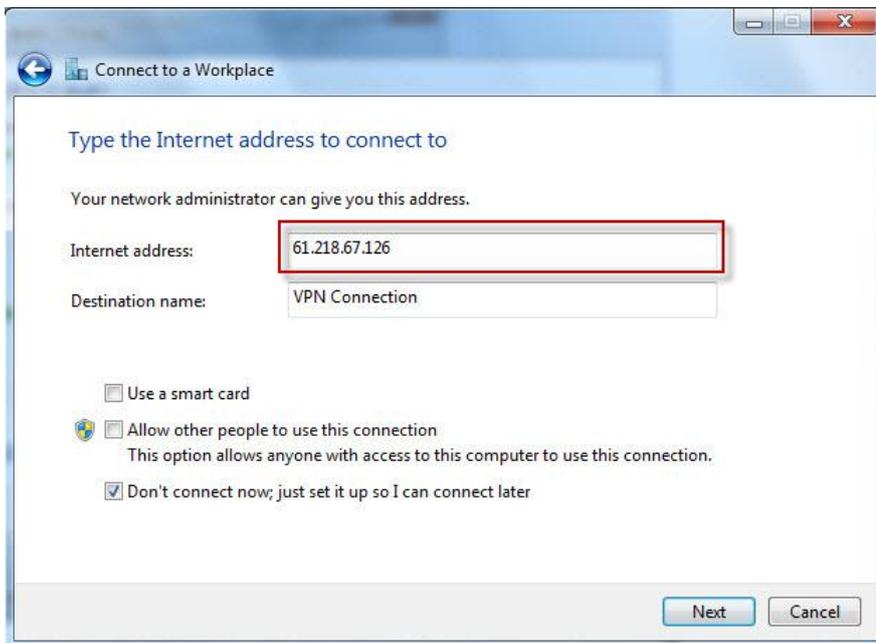
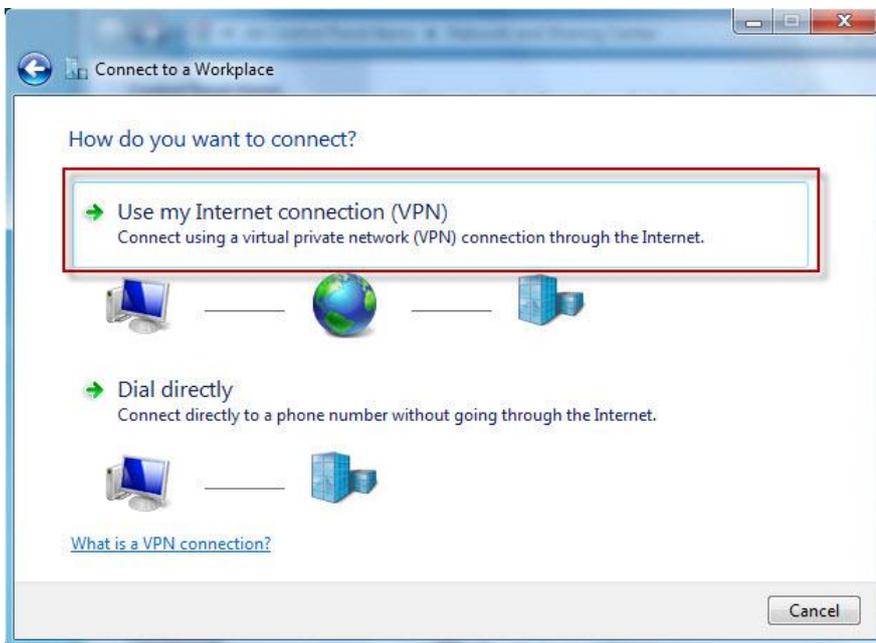
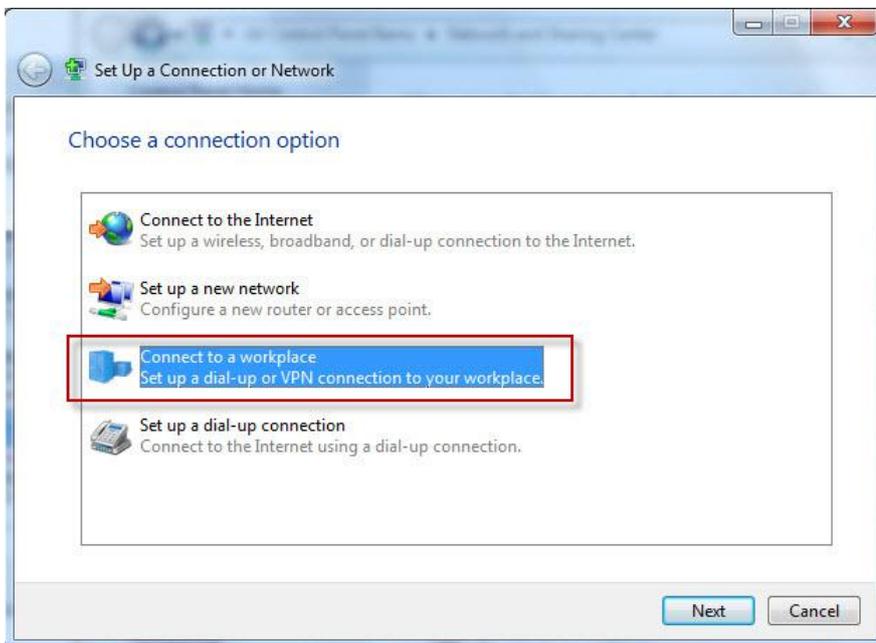
PPTP_NAT

General



- Those are step is show how to set up PPPOE in Win7 system.







Test:

When you connect PPPOE, it cans use route print to check the route table.

```

C:\Windows\system32\cmd.exe
C:\>ipconfig

Windows IP Configuration

Wireless LAN adapter ??????:

Connection-specific DNS Suffix . : D-Link_HQ_LAB
Link-local IPv6 Address . . . . . : fe80:f0e1:4e71:9d50:2ffd:10
IPv4 Address. . . . . : 192.168.11.155
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.11.254

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . : 
IPv6 Address. . . . . : 2001:0:4137:9e76:28:fa4:9005:ff89
Link-local IPv6 Address . . . . . : fe80:28:fa4:9005:ff89:14
Default Gateway . . . . . : 

Tunnel adapter isatap.D-Link_HQ_LAB:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : D-Link_HQ_LAB

C:\>ipconfig

Windows IP Configuration

PPP adapter UPN ???:

Connection-specific DNS Suffix . : 10.10.10.112
IPv4 Address. . . . . : 255.255.255.255
Subnet Mask . . . . . : 0.0.0.0
Default Gateway . . . . . : 0.0.0.0

Wireless LAN adapter ??????:

Connection-specific DNS Suffix . : D-Link_HQ_LAB
Link-local IPv6 Address . . . . . : fe80:f0e1:4e71:9d50:2ffd:10
IPv4 Address. . . . . : 192.168.11.155
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.11.254

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . : 
IPv6 Address. . . . . : 2001:0:4137:9e76:2ce7:3938:f5f5:f50f
Link-local IPv6 Address . . . . . : fe80:2ce7:3938:f5f5:f50f:14
Default Gateway . . . . . : 

Tunnel adapter isatap.D-Link_HQ_LAB:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : D-Link_HQ_LAB

C:\>_
  
```

```

C:\Windows\system32\cmd.exe
C:\>route print

=====
Interface List
25...00 00 00 00 00 00 UPN 10...00 1d e0 10 09 59 .....Intel(R) Wireless
s WiFi Link 4965AGN
1.....00 00 00 00 00 00 .....Software Loopback Interface 1
14...00 00 00 00 00 00 e0 Teredo Tunneling Pseudo-Interface
26...00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #3
31...00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #4
=====

IPv4 Route Table
=====
Active Routes:
Network Destination        Netmask          Gateway           Interface        Metric
0.0.0.0                    0.0.0.0          192.168.11.254   192.168.11.155   4250
0.0.0.0                    0.0.0.0          On-link          10.10.10.112     26
10.10.10.112              255.255.255.255  On-link          10.10.10.112     281
61.218.67.126            255.255.255.255  192.168.11.254  192.168.11.155   4251
127.0.0.0                  255.0.0.0       On-link          127.0.0.1        4531
127.0.0.1                  255.255.255.255 On-link          127.0.0.1        4531
127.255.255.255          255.255.255.255 On-link          127.0.0.1        4531
192.168.11.0              255.255.255.0   On-link          192.168.11.155   4506
192.168.11.155            255.255.255.255 On-link          192.168.11.155   4506
192.168.11.255            255.255.255.255 On-link          192.168.11.155   4506
224.0.0.0                  240.0.0.0       On-link          127.0.0.1        4531
224.0.0.0                  240.0.0.0       On-link          192.168.11.155   4507
224.0.0.0                  240.0.0.0       On-link          10.10.10.112     26
255.255.255.255          255.255.255.255 On-link          127.0.0.1        4531
255.255.255.255          255.255.255.255 On-link          192.168.11.155   4506
255.255.255.255          255.255.255.255 On-link          10.10.10.112     281
=====

Persistent Routes:
None
  
```

END