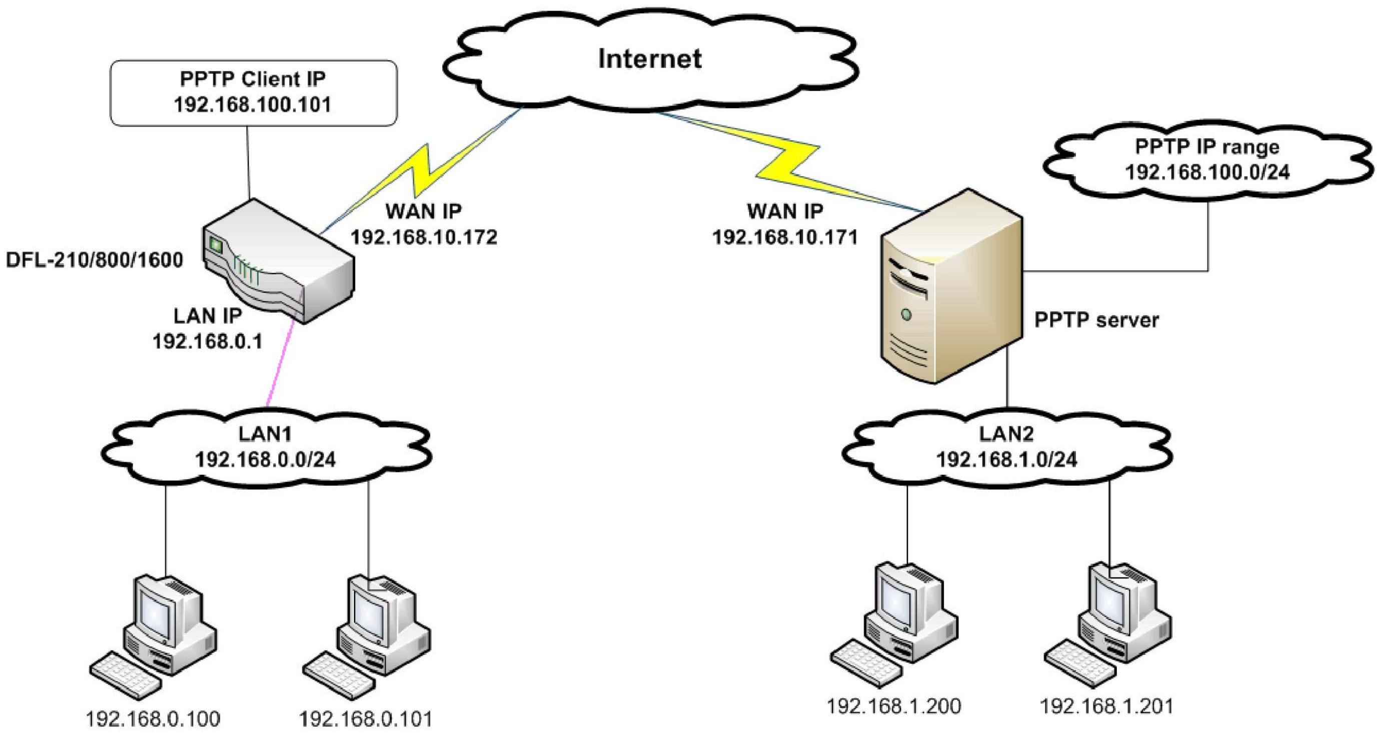
DFL-210/DFL-800/DFL1600 PPTP client Interface setup guide

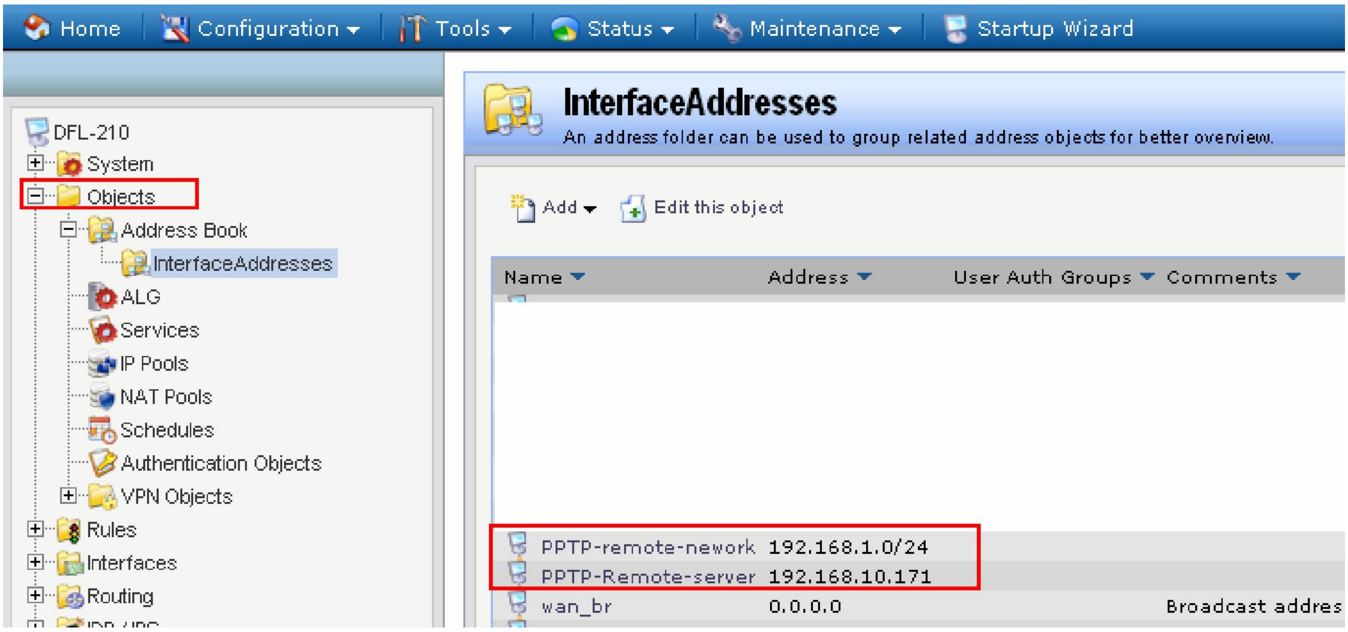


DFL-210/DFL-800/DFL1600 can act as PPTP clients, which allows multiple computers behind it to use resources on the remote network simultaneously via the same PPTP tunnel.

NOTE: It is essential to have private networks (LAN 1 and LAN 2) on different subnets.

Step 1. Log into the DFL-210 by opening Internet Explorer and typing the LAN address of the Firewall. In our example we are using 192.168.0.1

Step 2. Go to Objects > Address Book > Interface Addresses. Click on Add and select “IP4 Host/Network”. Please see below for the necessary addresses.
PPTP-remote-server: 192.168.10.171 (the WAN IP address of the remote PPTP server)
PPTP-remote-network: 192.168.1.0/24 (the LAN subnet of the remote PPTP server)



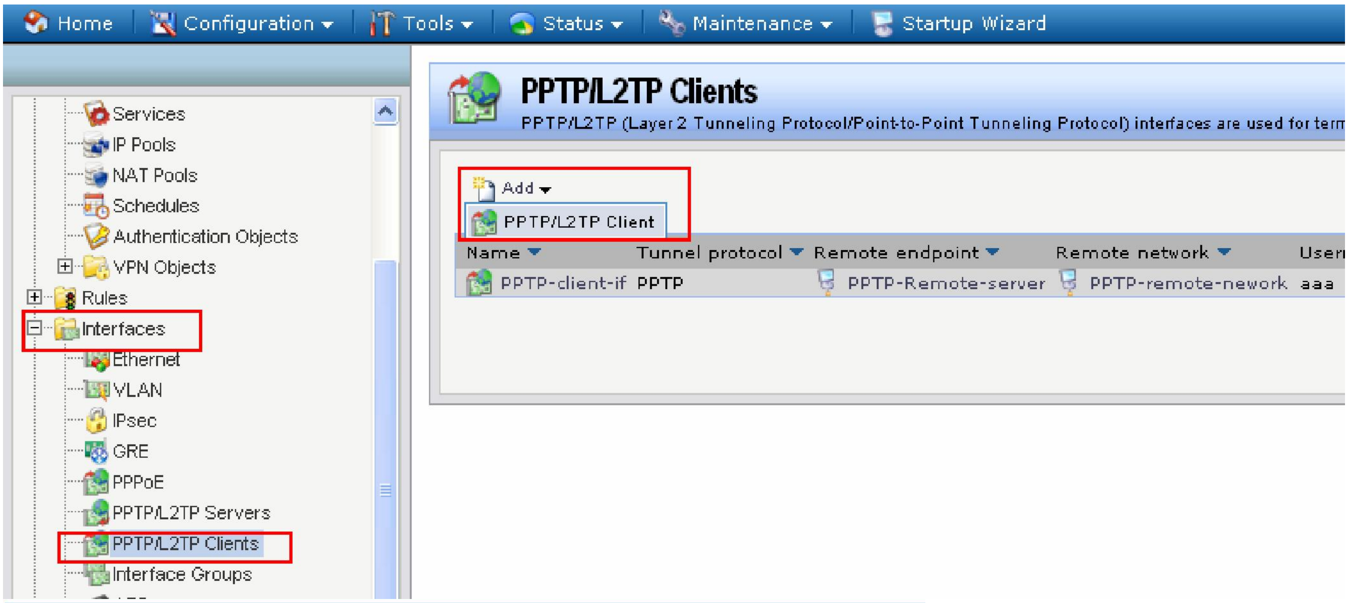
InterfaceAddresses

An address folder can be used to group related address objects for better overview.

Name	Address	User Auth Groups	Comments
PPTP-remote-nework	192.168.1.0/24		
PPTP-Remote-server	192.168.10.171		
wan_br	0.0.0.0		Broadcast addres

Step 3. Go to ‘Interfaces’> ‘PPTP/L2TP Client’ page and add a PPTP/L2TP client. Please see detail settings below:

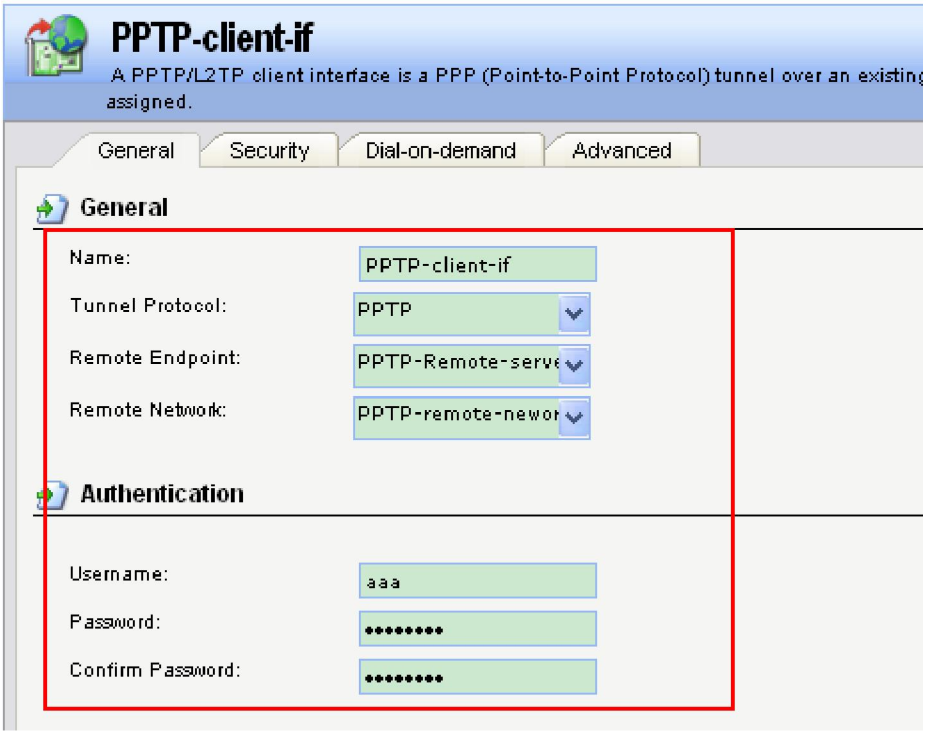
Tunnel protocol: PPTP
Remote end point: PPTP-remote-server (192.168.10.171)
Remote Network: PPTP-remote-network (192.168.1.0/24)
Username/password: Valid PPTP username/password configured in the remote PPTP server.



PPTP/L2TP Clients

PPTP/L2TP (Layer 2 Tunneling Protocol/Point-to-Point Tunneling Protocol) interfaces are used for term

Name	Tunnel protocol	Remote endpoint	Remote network	User
PPTP-client-if	PPTP	PPTP-Remote-server	PPTP-remote-nework	aaa



PPTP-client-if

A PPTP/L2TP client interface is a PPP (Point-to-Point Protocol) tunnel over an existing assigned.

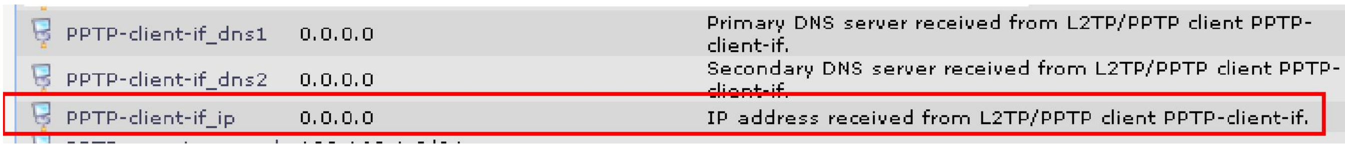
General

Name:	PPTP-client-if
Tunnel Protocol:	PPTP
Remote Endpoint:	PPTP-Remote-serve
Remote Network:	PPTP-remote-newor

Authentication

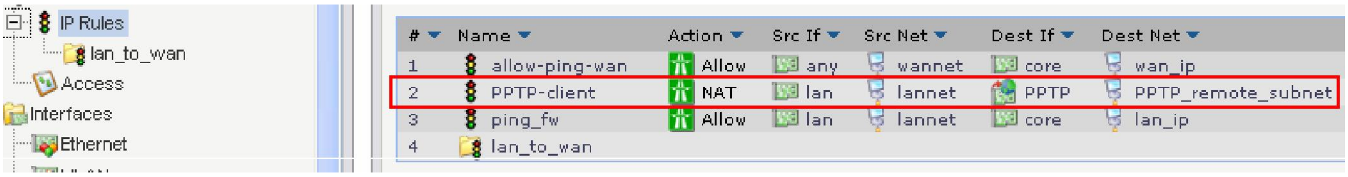
Username:	aaa
Password:	••••••••
Confirm Password:	••••••••

Once you create this interface, the DFL will automatically create a ‘PPTP client interface IP’ in the address book. By default this address is configured as DHCP (0.0.0.0).



PPTP-client-if_dns1	0.0.0.0	Primary DNS server received from L2TP/PPTP client PPTP-client-if.
PPTP-client-if_dns2	0.0.0.0	Secondary DNS server received from L2TP/PPTP client PPTP-client-if.
PPTP-client-if_ip	0.0.0.0	IP address received from L2TP/PPTP client PPTP-client-if.

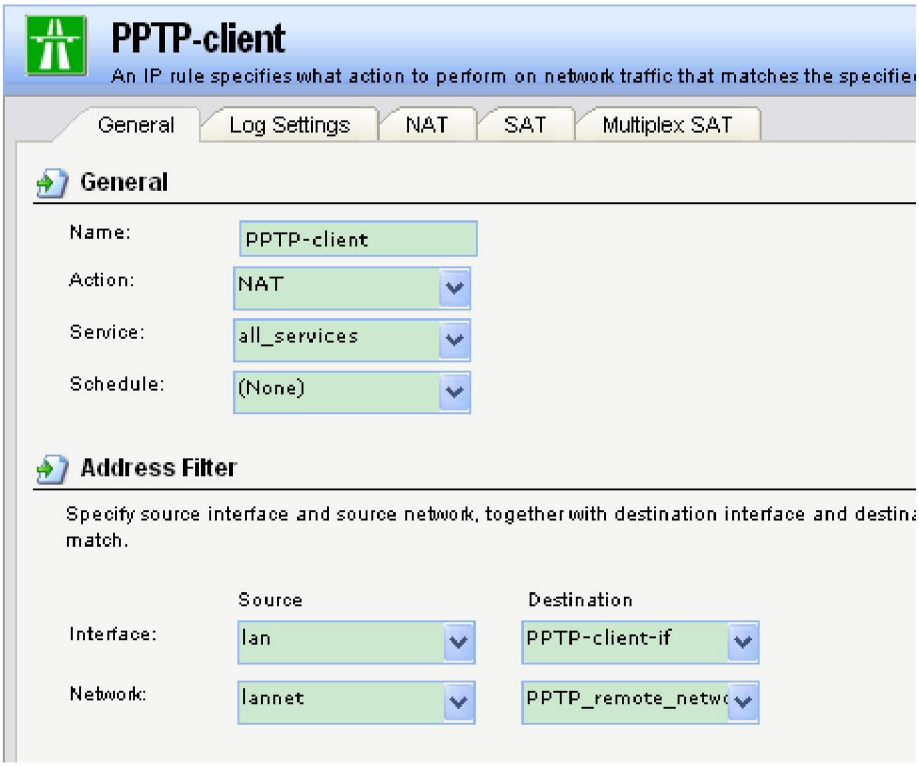
Step 4. Go to ‘Rules’>’IP Rules’ and add an NAT rule for the PPTP client interface.



#	Name	Action	Src If	Src Net	Dest If	Dest Net
1	allow-ping-wan	Allow	any	wannet	core	wan_ip
2	PPTP-client	NAT	lan	lannet	PPTP	PPTP_remote_subnet
3	ping_fw	Allow	lan	lannet	core	lan_ip
4	lan_to_wan					

This rule will allow communication from DFL’s LAN subnet to remote network. The DFL will also perform NAT (network address translation) for clients on the LAN subnet.

Action: **NAT**
Service: **all_services**
Source Interface: **Lan** Destination Interface: **PPTP-client-if**
Souce Network: **lannet** Destination Network: **PPTP_remote_network**



PPTP-client

An IP rule specifies what action to perform on network traffic that matches the specifie

General

Name: PPTP-client

Action: NAT

Service: all_services

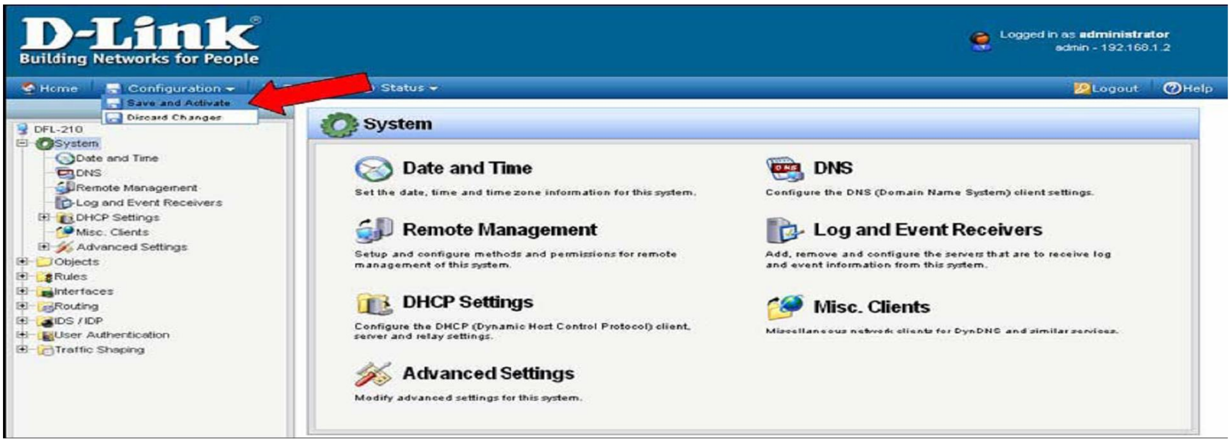
Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destina match.

	Source	Destination
Interface:	lan	PPTP-client-if
Network:	lannet	PPTP_remote_netw

Step 5. Save the new configuration. In the top menu bar click on Configuration and select “Save and Activate”.



System

Date and Time
Set the date, time and time zone information for this system.

DNS
Configure the DNS (Domain Name System) client settings.

Remote Management
Setup and configure methods and permissions for remote management of this system.

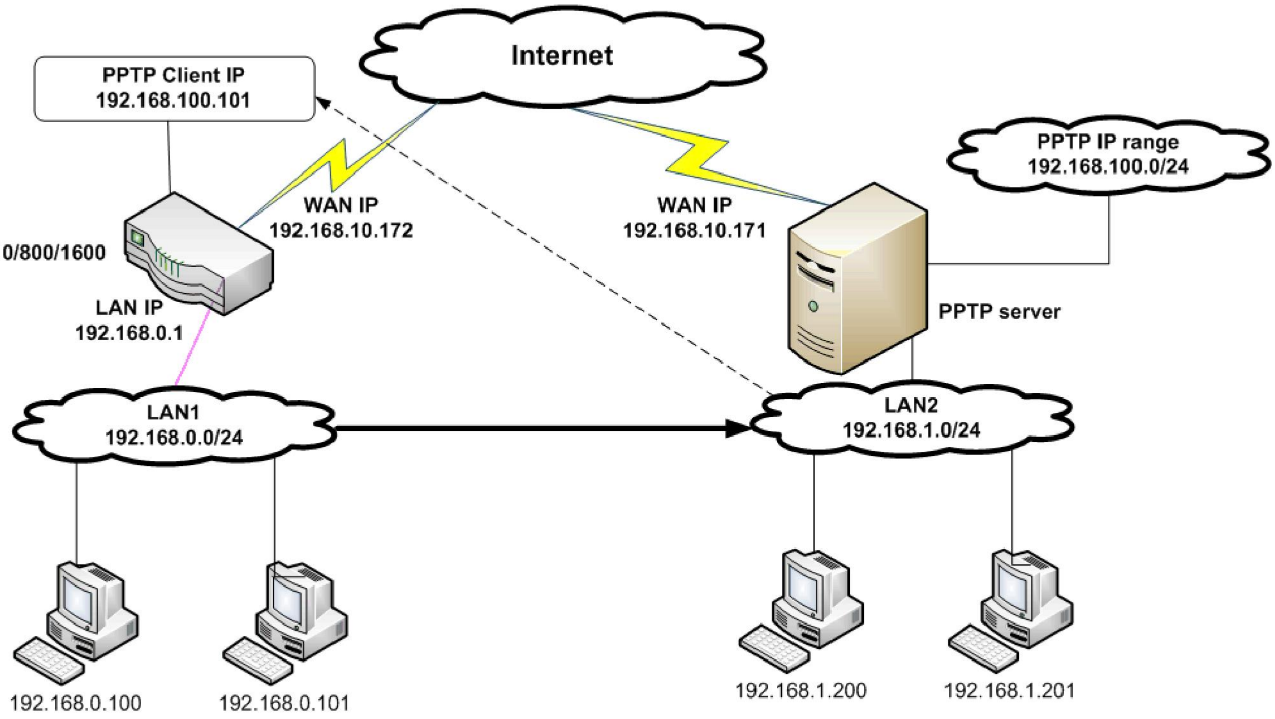
Log and Event Receivers
Add, remove and configure the servers that are to receive log and event information from this system.

DHCP Settings
Configure the DHCP (Dynamic Host Control Protocol) client, server and relay settings.

Misc. Clients
Miscellaneous network clients for DynDNS and similar services.

Advanced Settings
Modify advanced settings for this system.

Once the settings are activated, communication form LAN1 to LAN2 will have no problem at all. However, computer in LAN2 will only be able to see the PPTP client IP on the DFL firewall router. This is the limitation of the PPTP client connection. If you would like to enable full access between LAN1 and LAN2, please consider using Site-to-site IPsec tunnel instead.


Internet
PPTP Client IP
192.168.100.101
PPTP IP range
192.168.100.0/24
WAN IP
192.168.10.172
WAN IP
192.168.10.171
DFL-210/800/1600
LAN IP
192.168.0.1
PPTP server
LAN1
192.168.0.0/24
LAN2
192.168.1.0/24
192.168.0.100
192.168.0.101
192.168.1.200
192.168.1.201