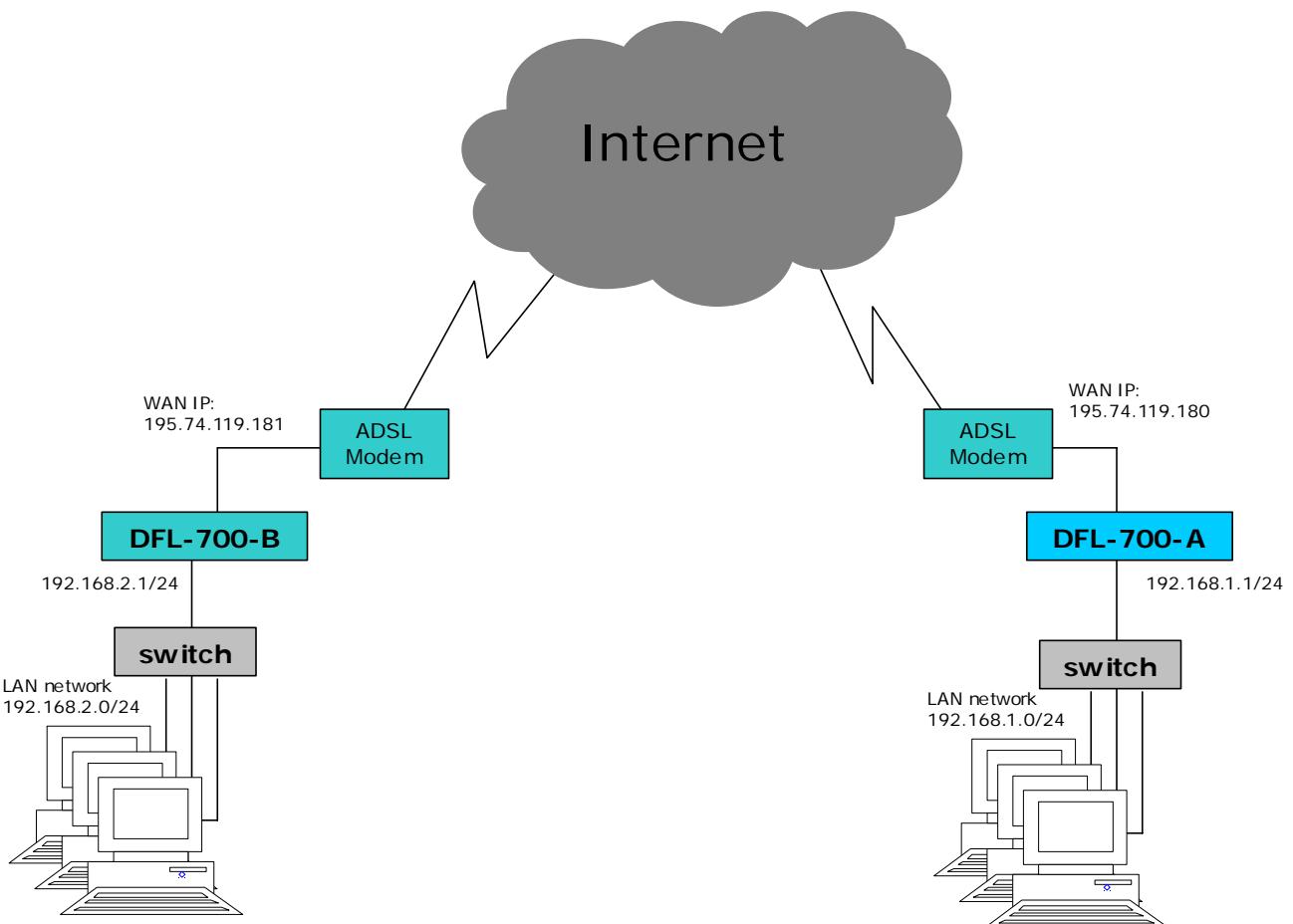


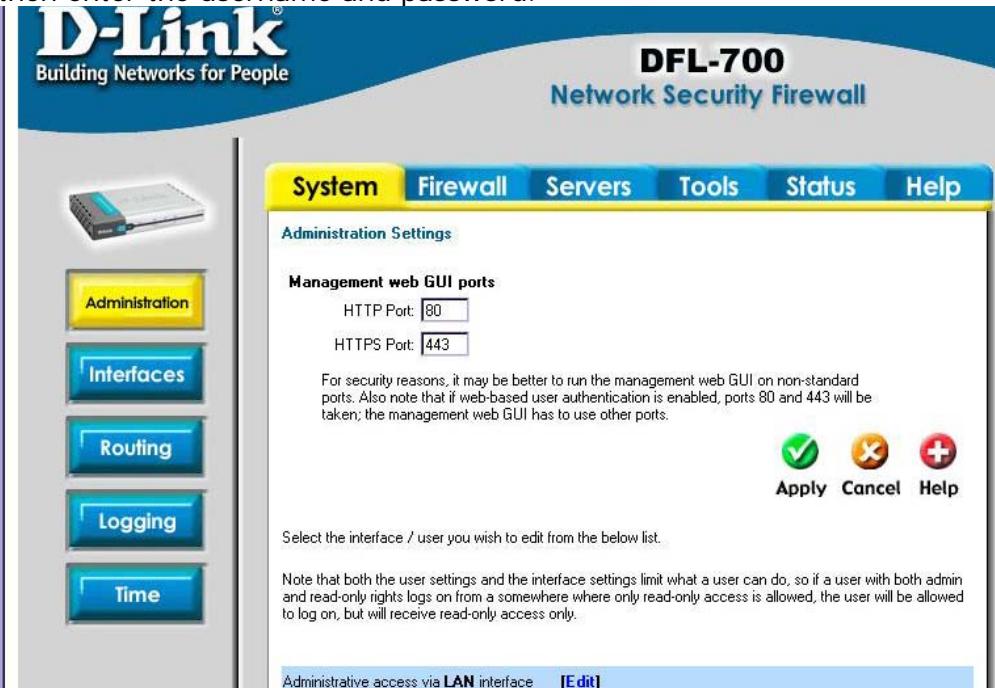
# DFL-700 with DFL-700 IPsec VPN Configuration Guide

This configuration shows how to connect a DFL-700 to another DFL-700 with an IPsec tunnel. Please check the D-Link AUS FTP Site at <ftp://202.129.109.68> for updates on the firmware.

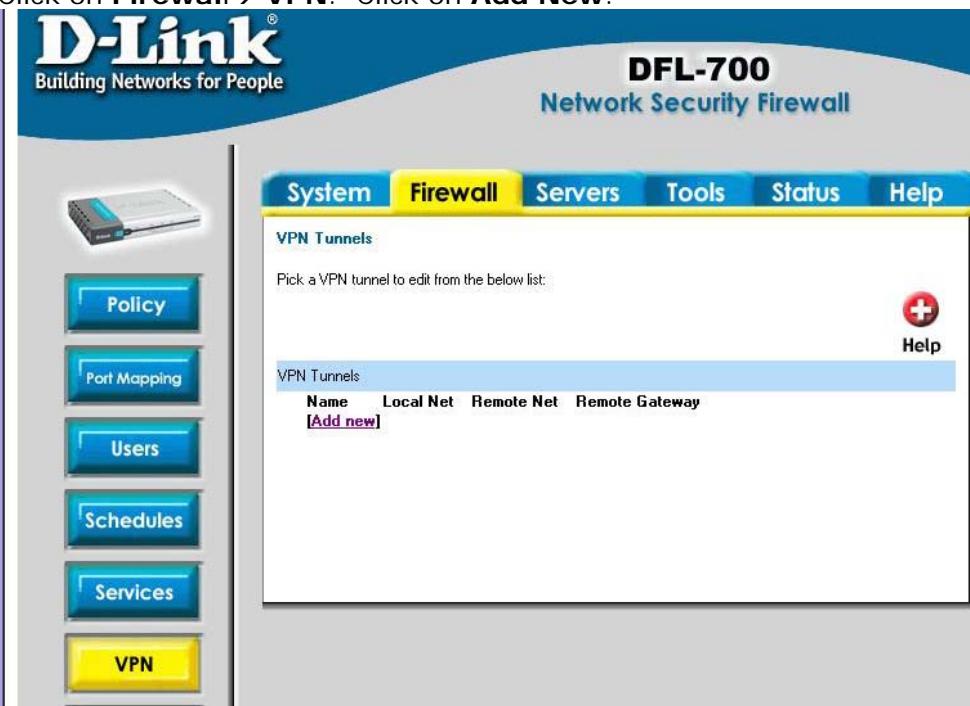


## **DFL-700-A configuration**

- 1) Log into the DFL-700 using its IP address (https://192.168.1.1 in this example) and then enter the username and password.



- 2) Click on **Firewall** → **VPN**. Click on **Add New**.



- 3) Enter the details for the Tunnel.

Name: DFL-700-B  
 Local Net: 192.168.1.0/24  
 Authentication: PSK  
 Pre-shared key: dlinktest  
 LAN-to-LAN tunnel

Remote net: 192.168.2.0/24  
 Remote gateway: 195.74.119.181

Click on **Apply** when done

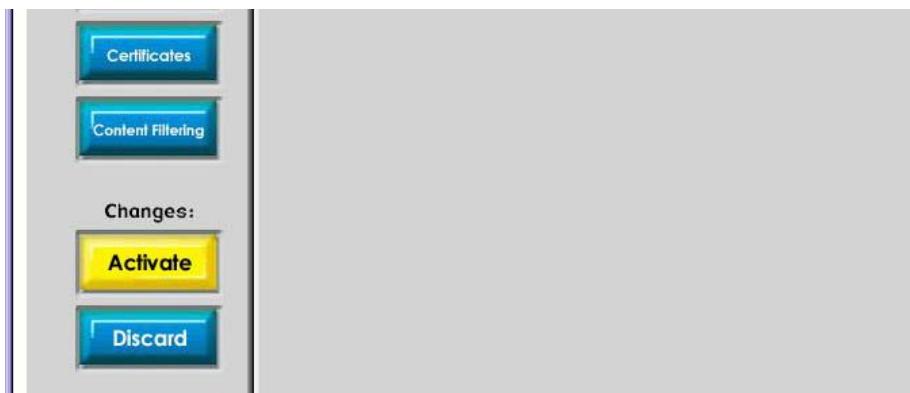
- 4) Click on **Edit** on the newly created **DFL-700-B** profile

Name	Local Net	Remote Net	Remote Gateway	
DFL-700-B	192.168.1.0/24	192.168.2.0/24	195.74.119.181	[Edit]

- 5) Click on **Advanced**. Set IKE mode to 'Main Mode' (default), IKE DH Group '2 – modp 1024-bit' (default). Check the PFS option. Set the PFS DH Group to '2-modp 1024-bit'. Set NAT traversal to 'On if supported and needed'. Click on '**Apply**' when done.

Cipher	Hash	Life KB	Life Sec
#1: AES-128 Allowed:128-256	SHA-1	0	3600
#2: AES-128 Allowed:128-256	MD5	0	3600
#3: 3DES	MD5	0	3600
#4: DES	MD5	0	3600
#5: -	MD5	0	0
#6: -	MD5	0	0
#7: -	MD5	0	0
#8: -	MD5	0	0

- 6) Click on '**Activate**' on the bottom left hand corner of the screen.



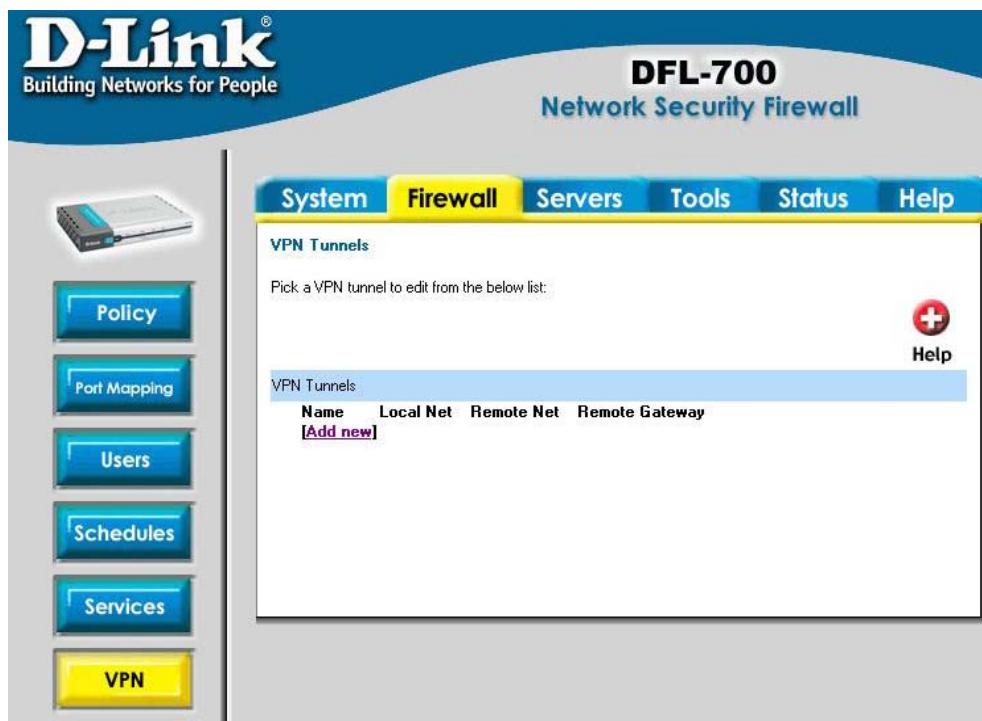
- 7) Click on the '**Activate Changes**' button.



## DFL-700-B configuration

- 1) Log into the DFL-700 using its IP address (<https://192.168.2.1> in this example) and then enter the username and password.

- 2) Click on **Firewall** → **VPN**. Click on **Add New**.



- 3) Enter the details for the Tunnel.

Name: DFL-700-A  
Local Net: 192.168.2.0/24  
Authentication: PSK  
Pre-shared key: dlinktest  
LAN-to-LAN tunnel  
Remote net: 192.168.1.0/24  
Remote gateway: 195.74.119.180

Add VPN tunnel:

Name:

Local Net:

Authentication:

PSK - Pre-Shared Key

PSK:

Retype PSK:

Certificate-based

Local Identity:

Certificates:

Use ctrl/shift click to select multiple certificates.  
To use ID lists below, you must select a CA certificate.

Identity List:

Tunnel type:

Roaming Users - single-host VPN clients

IKE XAuth:  Require user authentication via IKE XAuth to open tunnel

LAN-to-LAN tunnel

Remote Net:

Remote Gateway:

The gateway can be a numerical IP address, DNS name, or range of IP addresses for roaming / NATed gateways.

Proxy ARP:  Publish remote network on all interfaces via Proxy ARP

Click on **Apply** when done.

- 4) Click on **Edit** on the newly created **DFL-700-A** profile

Name	Local Net	Remote Net	Remote Gateway	
DFL-700-A	192.168.2.0/24	192.168.1.0/24	195.74.119.180	[Edit]
<a href="#">[Add new]</a>				

- 5) Click on **Advanced**. Set IKE mode to 'Main Mode' (default), IKE DH Group '2 – modp 1024-bit' (default). Check the PFS option. Set the PFS DH Group to '2-modp 1024-bit'. Set NAT traversal to 'On if supported and needed'. Click on '**Apply**' when done.

The screenshot shows the DFL-700 IPsec VPN configuration interface. The left sidebar contains buttons for Policy, Port Mapping, Users, Schedules, Services, VPN (highlighted in yellow), Certificates, and Content Filtering. The top menu bar includes System, Firewall (highlighted in yellow), Servers, Tools, Status, and Help. The main content area is titled 'VPN Tunnels' and displays settings for VPN tunnel DFL-700-A. It includes fields for Limit MTU (1424), IKE Mode (Main mode IKE selected), IKE DH Group (2 - modp 1024-bit), PFS (Enable Perfect Forward Secrecy checked), PFS DH Group (2 - modp 1024-bit), NAT Traversal (On if supported and needed), Keepalives (No keepalives selected), Source IP, and Destination IP. Below this is the 'IKE Proposal List' table:

Cipher	Hash	Life KB	Life Sec
#1: AES-128 Allowed:128-256	SHA-1	0	3600
#2: AES-128 Allowed:128-256	MD5	0	3600
#3: 3DES	MD5	0	3600
#4: DES	MD5	0	3600

- 6) Click on 'Activate' on the bottom left hand corner of the screen.

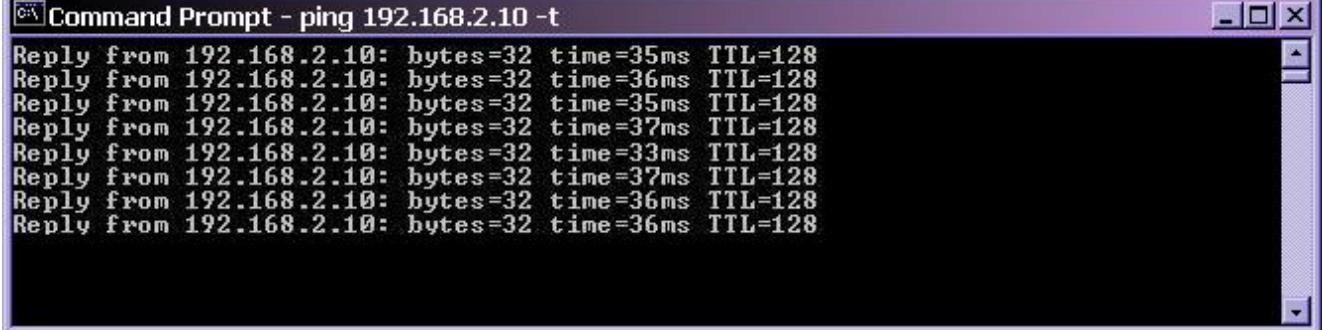
The screenshot shows the 'Changes' screen. On the left, there are buttons for Certificates and Content Filtering. On the right, under 'Changes:', there are two buttons: 'Activate' (highlighted in yellow) and 'Discard'.

- 7) Click on the 'Activate Changes' button.

The screenshot shows the 'Activate Changes' configuration page. The left sidebar contains buttons for Administration, Interfaces, and Routing. The top menu bar includes System, Firewall (highlighted in yellow), Servers, Tools, Status, and Help. The main content area is titled 'Activate Changes' and contains the following text: 'Press "Activate Changes" below to save your changes and have them take effect. If an administrator does not log in within a set time, the unit will assume that you accidentally locked yourself out, and revert to its previous configuration.' A dropdown menu for 'Wait for admin login for:' shows '1 minute'. At the bottom is a large blue 'Activate Changes' button.

## Testing the connection

From the DFL-700-A side, you can initiate a ping to a machine on the LAN side of the DFL-700-B (i.e. 192.168.2.10). The tunnel should then be generated and then you should get a response as shown below.



The screenshot shows a Windows Command Prompt window titled "Command Prompt - ping 192.168.2.10 -t". The window contains the following text output:

```
Reply from 192.168.2.10: bytes=32 time=35ms TTL=128
Reply from 192.168.2.10: bytes=32 time=36ms TTL=128
Reply from 192.168.2.10: bytes=32 time=35ms TTL=128
Reply from 192.168.2.10: bytes=32 time=37ms TTL=128
Reply from 192.168.2.10: bytes=32 time=33ms TTL=128
Reply from 192.168.2.10: bytes=32 time=37ms TTL=128
Reply from 192.168.2.10: bytes=32 time=36ms TTL=128
Reply from 192.168.2.10: bytes=32 time=36ms TTL=128
```