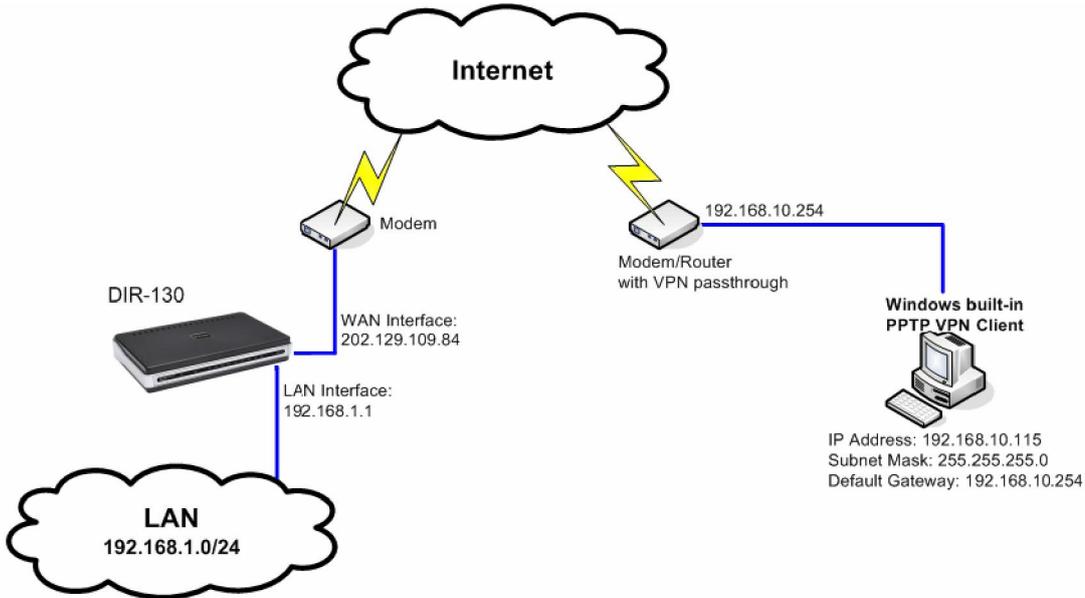


## How to Setup PPTP VPN Between a Windows PPTP Client and the DIR-130.

Note: DIR-130 FW: 1.21

This setup example uses the following network settings:



## Configuration of DIR-130

**Step 1:** Open your web browser and type in the IP address of the router (192.168.0.1 by default). Enter the username (admin by default) and password (blank by default), and then click **OK**.

**Step 2:** Click on **Advanced tab->User Group**. Select **Group1** then click on **EDIT** Button. Enter the desired PPTP username and password. Click **Save Settings** button then click **Continue**.

The screenshot shows the D-Link DIR-130 web interface. The top navigation bar includes 'DIR-130', 'SETUP', 'ADVANCED', 'MAINTENANCE', and 'STATUS'. The left sidebar lists various settings: Port Forwarding, Application Rules, Network Filter, Website Filter, Firewall Settings, Advanced Network, Routing, Certificates, User Group, and Bandwidth Control. The main content area is titled 'USER GROUP SETTINGS :'. It contains a text box explaining that this section allows creating user names and passwords for different groups of users. Below this are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'USER SETTINGS :' section shows a 'Group Name' field with 'PPTP\_users' entered. Below it is a 'Clear the list below...' button and a table with three columns: 'User Name' and 'Password'. The table has three rows, with the first two containing 'dlink' and 'User2' respectively.

**Step 3:** Click on **SETUP tab->VPN SETTINGS** and select **PPTP/L2TP** from the **ADD VPN PROFILE** dropdown list and click **Add**.

The screenshot shows the D-Link DIR-130 web interface. The top navigation bar includes 'DIR-130', 'SETUP', 'ADVANCED', 'TOOLS', and 'STATUS'. The left sidebar lists various settings: INTERNET, NETWORK SETTINGS, and VPN SETTINGS. The main content area is titled 'VPN SETTINGS'. It contains a section titled 'ADD VPN PROFILE :'. Below this is a dropdown menu with 'PPTP/L2TP' selected and an 'Add' button. Below this is a section titled '20 - VPN PROFILE :'. Below this is a table with two columns: 'Name' and 'Type'.

**Step 4:** Configure the *PPTP* server as followed:

- **Enable Settings:** check box to enable
- **Name:** enter a VPN name
- **Connection type:** select PPTP
- **VPN Server IP:** enter an IP address for the VPN Server (It is recommended to use the LAN IP of the DIR-130.)
- **Remote IP Range:** assign a range of IP to be assigned to the PPTP client (The range must be on the same subnet as the VPN Server IP.)
- **Authentication Protocol:** select desired authentication protocol (*PAP/CHAP/MSCHAP v2*)
- **MPPE Encryption Mode:** select desired level of encryption (*40 bit/128 bit*)
- **Authentication Database:** select the PPTP user group that you modified from **Step 2.**
- **User Name 1:** enter a desired username
- **Password 1:** enter a desired password

Click **Save Settings** then **Continue**.

Product Page: DIR-130



**DIR-130** // **SETUP** **ADVANCED** MAINTENANCE STATUS

Internet  
Network Settings  
VPN Settings

### VPN - PPTP/L2TP SERVER

Use this section to configure your VPN-PPTP/L2TP Server settings.

#### PPTP/L2TP SETTING :

Enable setting :

Name :

Connection type :  PPTP  L2TP  L2TP over IPsec

VPN Server IP :

Remote IP range :  -

Authentication Protocol :  PAP  CHAP  MSCHAP v2

MPPE Encryption Mode : RC4  None  40 bit  128 bit

Authentication database :  ▼

The PPTP server should now appear in the **VPN PROFILE** list below.

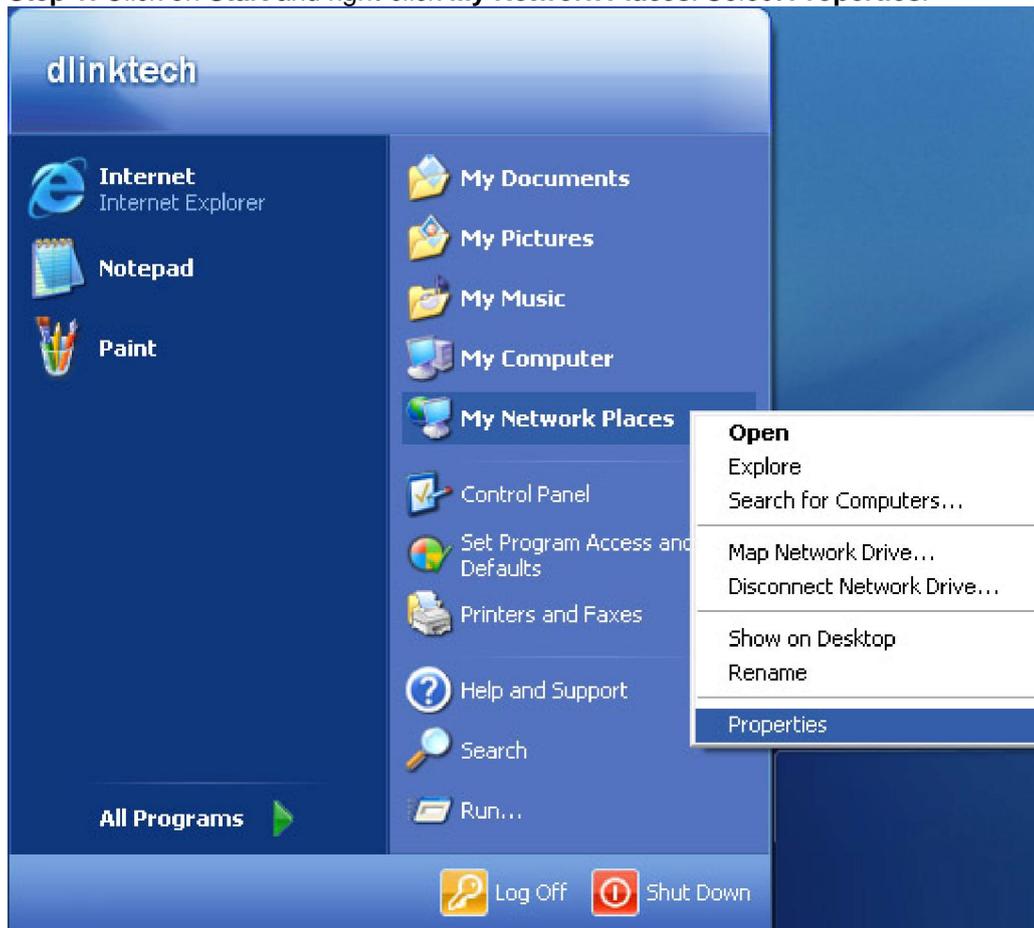


<b>DIR-130</b> //	<b>SETUP</b>	<b>ADVANCED</b>	<b>MAINTENANCE</b>	<b>STATUS</b>
Internet	<b>VPN SETTINGS</b>			
Network Settings	Use this section to create and configure your VPN settings.			
VPN Settings	<b>ADD VPN PROFILE :</b>			
	Select a type <input type="text"/> <input type="button" value="Add"/>			
	<b>25 - VPN PROFILE :</b>			
	<b>Enable</b>	<b>Name</b>	<b>Type</b>	
	<input checked="" type="checkbox"/>	pptptest	PPTP	

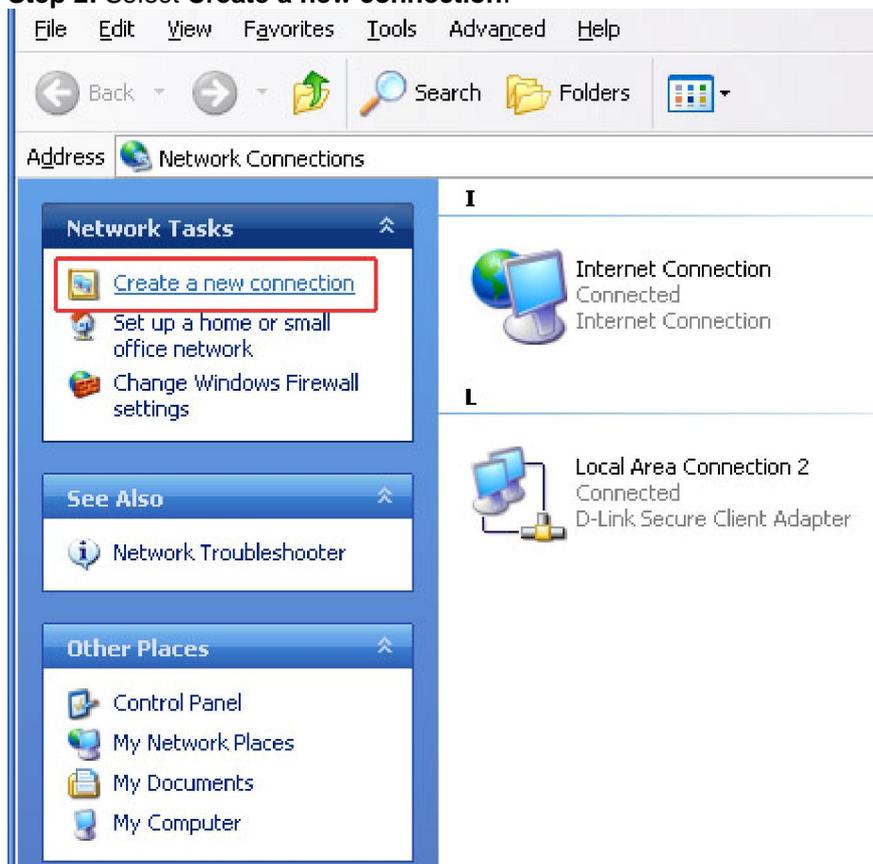
## Configuration of Virtual Private Network

**Note:** These instructions are for WinXP

**Step 1:** Click on **Start** and right-click **My Network Places**. Select **Properties**.



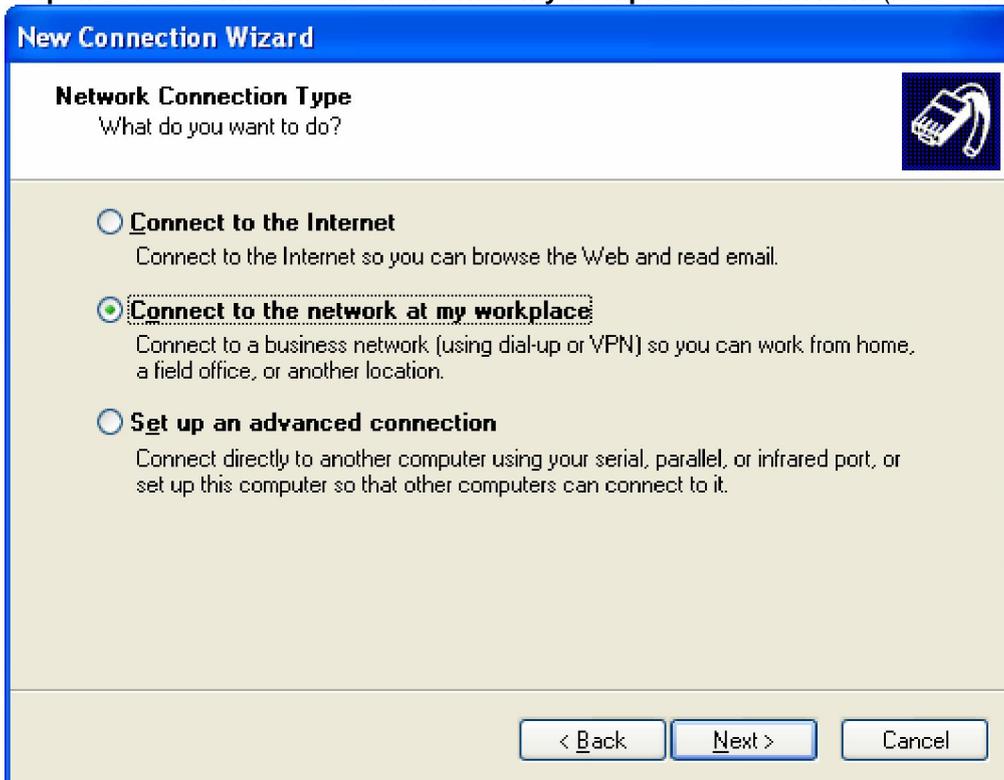
**Step 2: Select Create a new connection.**



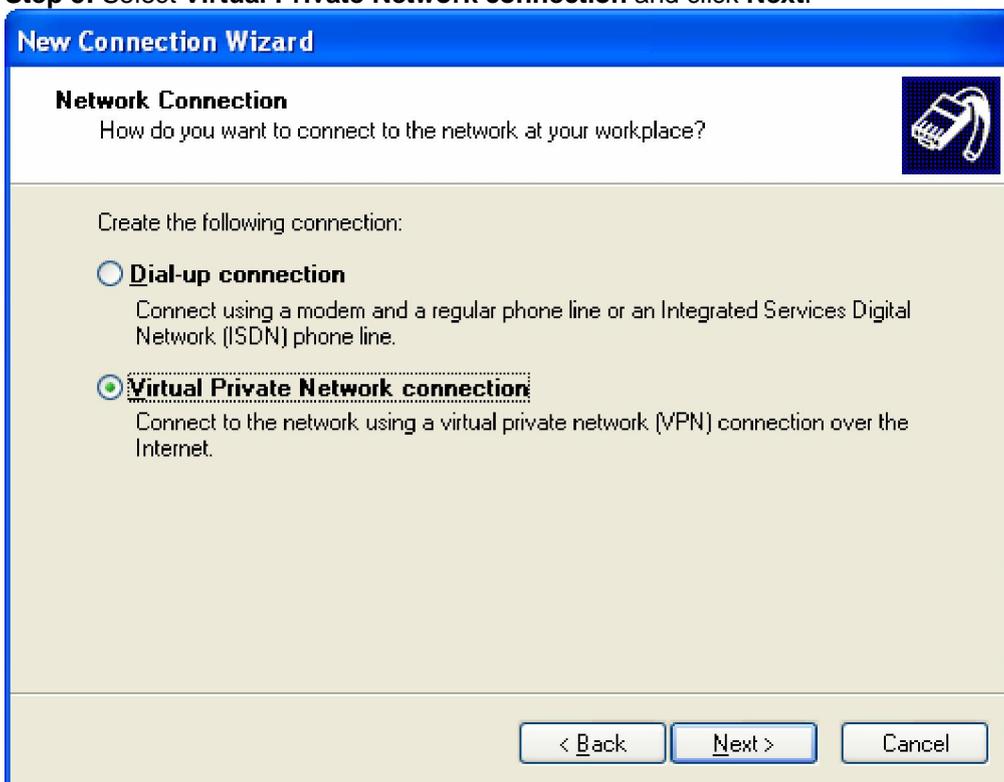
**Step 3: Click Next on the New Connection Wizard.**



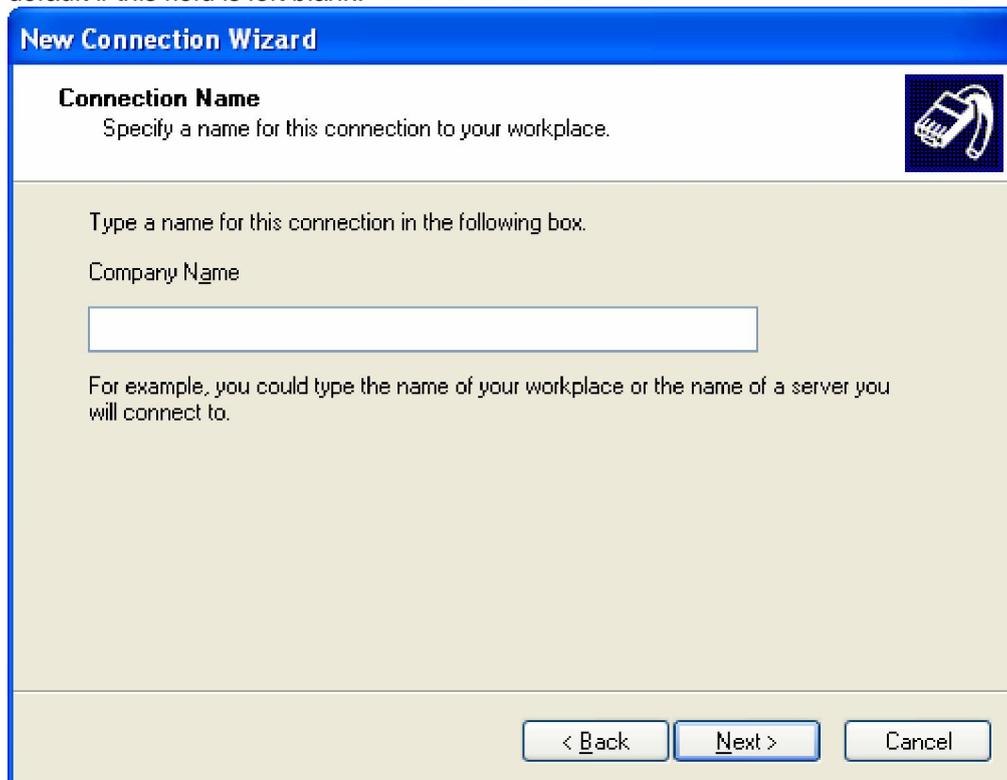
**Step 4:** Select **Connect to the network at my workplace** and click **Next** (notice the keyword **VPN**).



**Step 5:** Select **Virtual Private Network connection** and click **Next**.



**Step 6:** Enter a **Company Name** (*optional*) and click **Next**. The connection name will be *Virtual Private Network* by default if this field is left blank.



**New Connection Wizard**

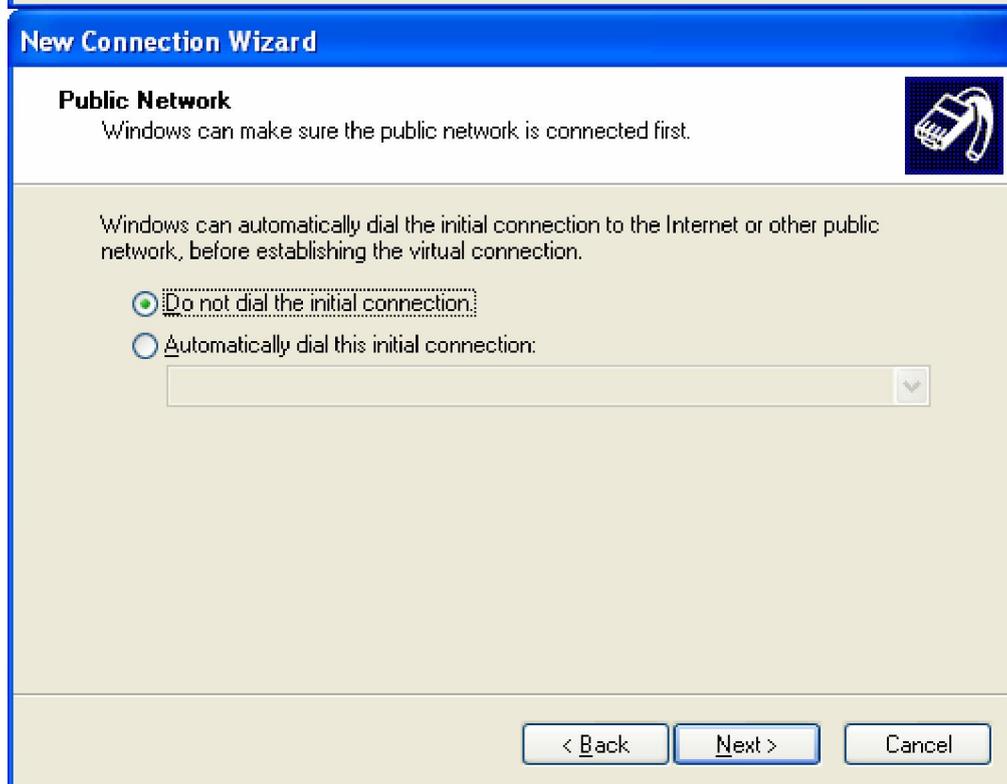
**Connection Name**  
Specify a name for this connection to your workplace.

Type a name for this connection in the following box.

Company Name

For example, you could type the name of your workplace or the name of a server you will connect to.

< Back   Next >   Cancel



**New Connection Wizard**

**Public Network**  
Windows can make sure the public network is connected first.

Windows can automatically dial the initial connection to the Internet or other public network, before establishing the virtual connection.

Do not dial the initial connection:

Automatically dial this initial connection:

< Back   Next >   Cancel

**Step 7:** Enter the **remote gateway** and click **Next**. This is the WAN IP address of the VPN Server.

**New Connection Wizard**

**VPN Server Selection**  
What is the name or address of the VPN server?



Type the host name or Internet Protocol (IP) address of the computer to which you are connecting.

Host name or IP address (for example, microsoft.com or 157.54.0.1):

< Back   Next >   Cancel

**New Connection Wizard**

**Connection Availability**  
You can make the new connection available to any user or only to yourself.



A connection that is created for your use only is saved in your user account and is not available unless you are logged on.

Create this connection for:

Anyone's use

My use only

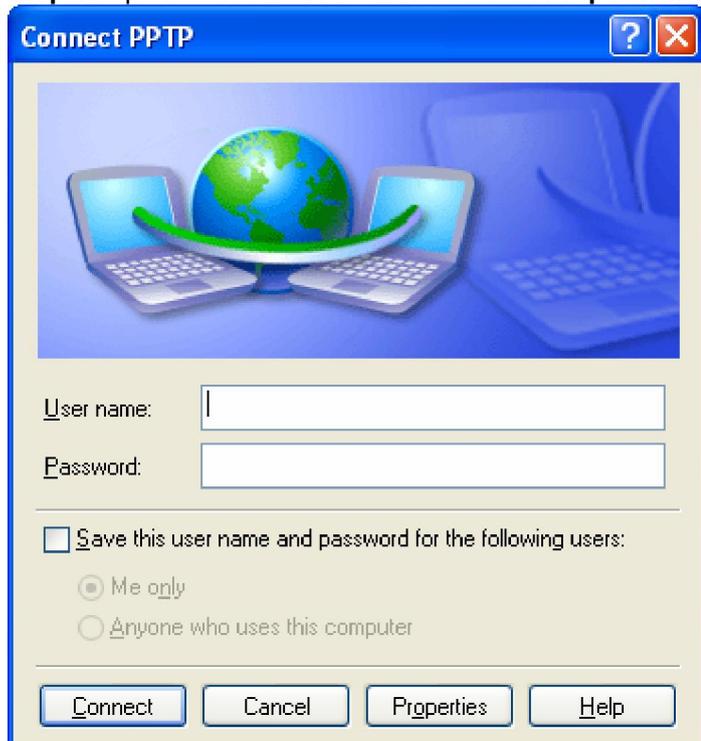
< Back   Next >   Cancel

**Step 8:** Check the box **Add a shortcut to this connection to my Desktop** (*optional*) and click **Finish**.

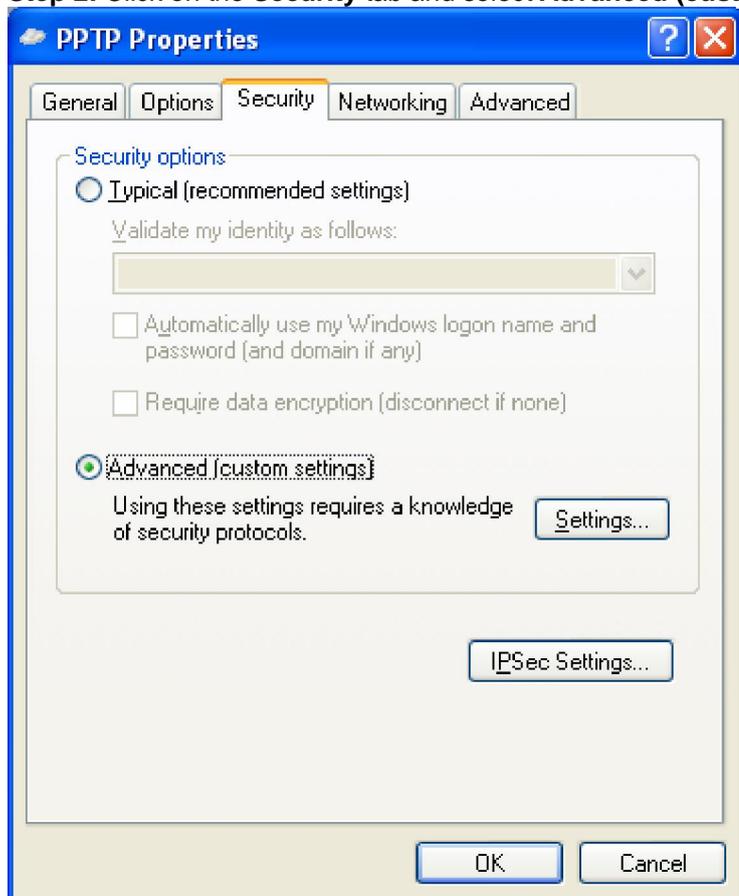


## Configuring the PPTP client

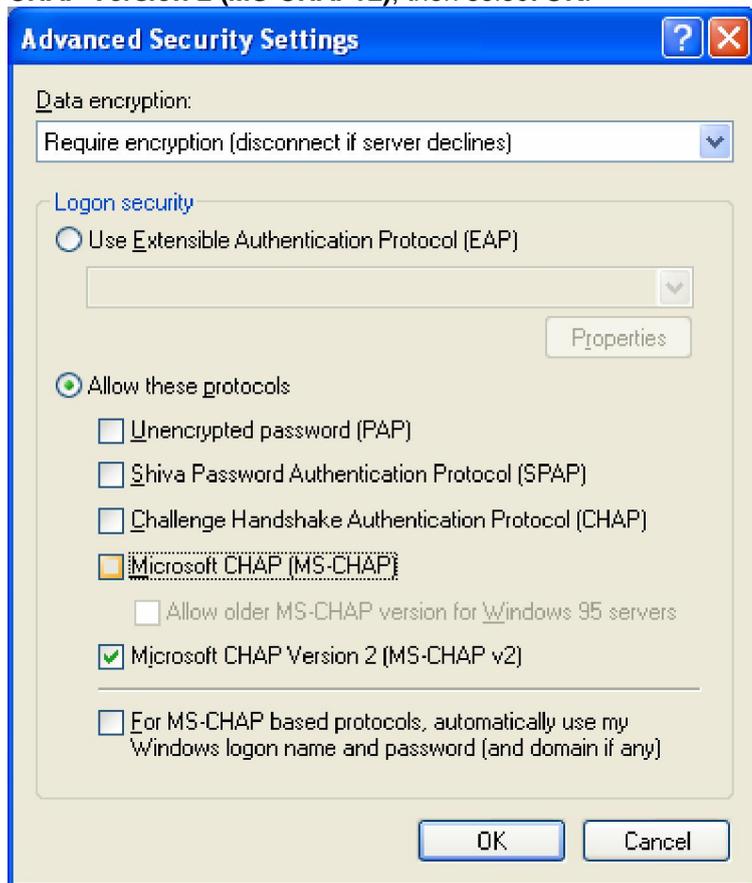
**Step 1:** Open the *PPTP VPN* client and click **Properties**.



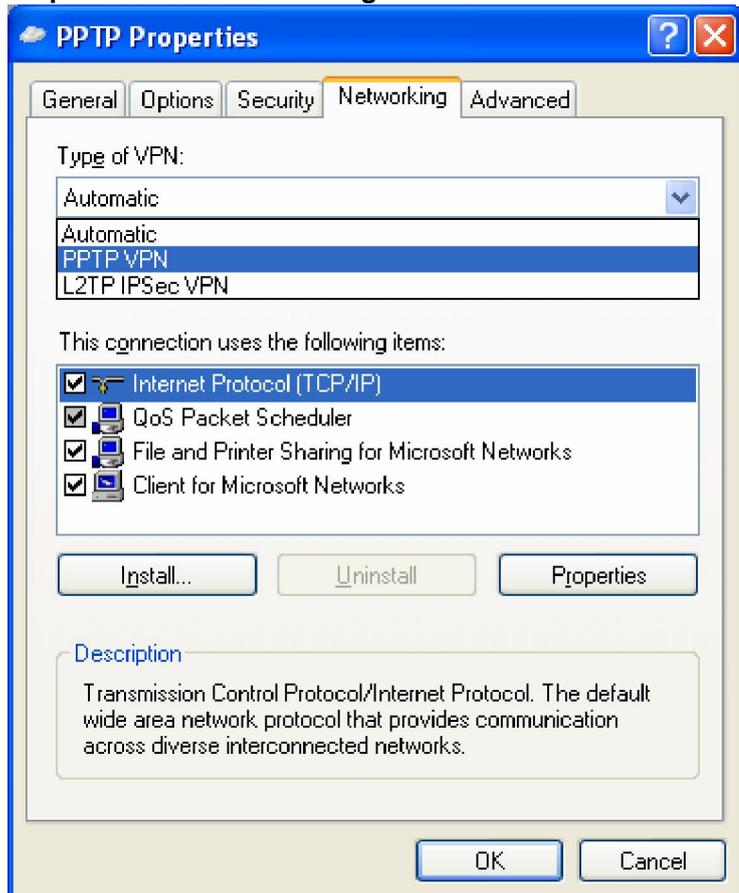
**Step 2:** Click on the **Security** tab and select **Advanced (custom settings)**, then select **Settings**.



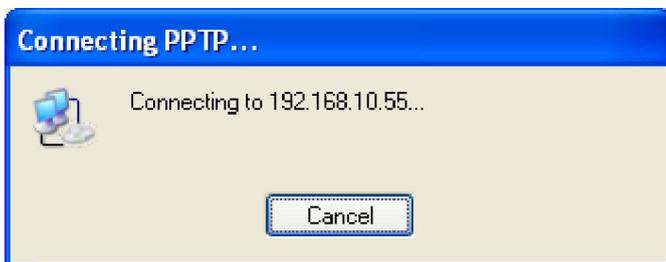
**Step 3:** Under **Data encryption**, select **Required encryption (disconnect if server declines)** and check **Microsoft CHAP Version 2 (MS-CHAPv2)**, then select **OK**.



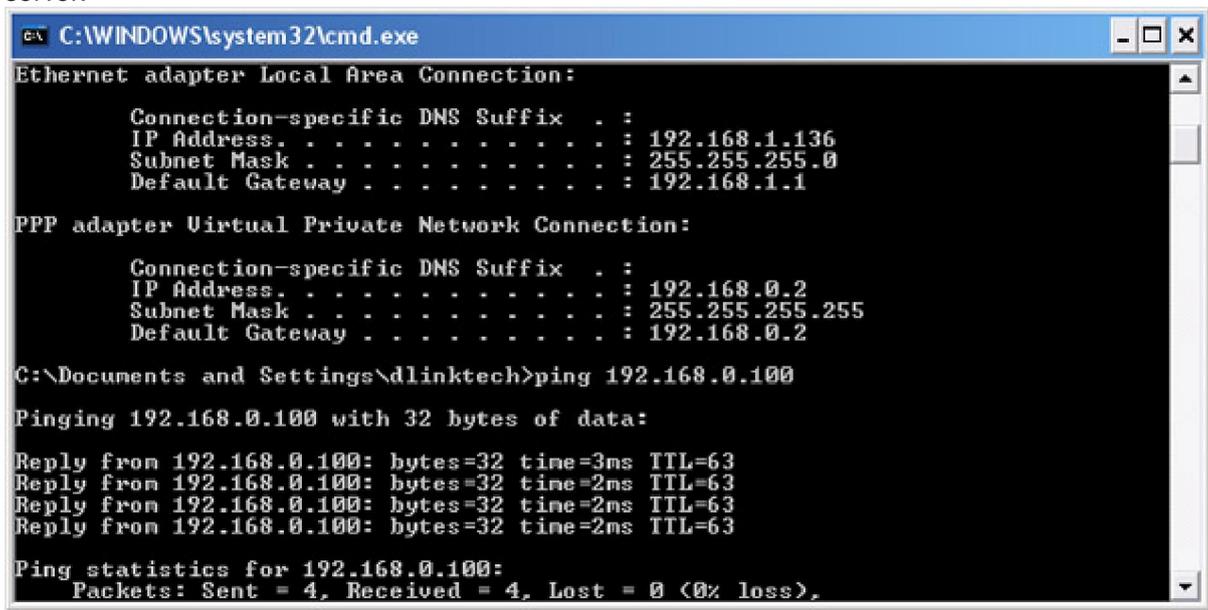
**Step 4:** Select the **Networking** tab and select **PPTP VPN** under **Type of VPN**. Click **OK**.



**Step 5:** Enter the **username** and **password** that was created on the PPTP server and click **Connect**.



**Step 6:** After the connection has been established, go to the command prompt and ping a client behind the PPTP server.



```
C:\WINDOWS\system32\cmd.exe
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.1.136
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.1.1

PPP adapter Virtual Private Network Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.0.2
    Subnet Mask . . . . .             : 255.255.255.255
    Default Gateway . . . . .         : 192.168.0.2

C:\Documents and Settings\dlinktech>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time=3ms TTL=63
Reply from 192.168.0.100: bytes=32 time=2ms TTL=63
Reply from 192.168.0.100: bytes=32 time=2ms TTL=63
Reply from 192.168.0.100: bytes=32 time=2ms TTL=63

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```