
Lab 10A: Configuring a VPN Connection

Objectives

After completing this lab, you will be able to:

- Configure Microsoft® Windows® XP Professional to allow incoming VPN connections.
- Configure and test an outgoing VPN connection by using the Network Connection Wizard.

Prerequisites

Before working on this lab, you must have:

- Completed Lab 1C Upgrading Windows 98 to Windows XP Professional.
- A computer running Windows XP Professional.

Lab Setup

To complete this lab, you need the following:

- The IP address or computer name of your partner's computer.
- A computer running Windows XP Professional configured as a member of a workgroup.

Scenario

Your organization has employees that travel to remote locations. You do not have the resources to set up a worldwide network that would allow dial-up connections to these locations. Instead, you will need to configure a VPN server on the Internet and allow your staff to connect to your network through the VPN connection.

Estimated time to complete this lab: 30 minutes

Exercise 1

Configuring Inbound VPN Connections


Scenario

The sales staff in your organization has started traveling to remote locations. Although the traveling sales force will have access to the Internet at all of the remote locations, they still need access to your network for demonstration purposes. You need to enable secure remote access to your network over the Internet for these traveling users.

Goal

In this exercise, you will work with your partner to set up Routing and Remote Access and create VPN ports. You will then grant access permissions to both your account and your partner's account, and then you will test the connections.

Tasks	Detailed Steps
<p>1. Log on to the local computer as Administrator with a password of password. Configure an inbound VPN connection with the following values: For the IP address, use 10.1.x.10 (where <i>x</i> is your student number). Address range: 5 addresses.</p>	<ol style="list-style-type: none"> Log on to the local computer as Administrator with a password of password. Click Start, and then click My Computer. From My Computer, click My Network Places, and then click View Network Connections. Under Network Tasks, click New Connection Wizard. On the Location Information page, type 555 in What area code (or city code) are you now, and then click OK. On the Phone and Modem Options page, click OK. On the Welcome page of the Network Connections wizard, click Next. On the Network Connection Type page, select Set up an Advanced Connection, and then click Next. On the Advanced Connection Options page, verify Accept incoming connections is selected and then click Next. On the Device for Incoming Connections page, click Next. On the Incoming Virtual Private Network (VPN) Connection page, select Allow virtual private connections, and then click Next. On the User Permissions page, click Userxxx (where <i>xxx</i> is the first three letters of your computer name), and Useryyy (where <i>yyy</i> is the first three letters of your partner's computer name), and then click Next. On the Networking Software page, click Internet Protocol (TCP/IP), and then click Properties. On the Incoming TCP/IP Properties page, verify Assign TCP/IP addresses automatically using DHCP, and then click OK. On the Networking Software page, click Next. On the Completing the Network Connection Wizard page, click Finish.

Tasks	Detailed steps
<p>2. Create an outbound VPN connection.</p>	<ol style="list-style-type: none"> In the Network Connections window, double-click New Connection Wizard. On the Welcome to the Network Connection Wizard page, click Next. On the Network Connection Type page, click Connect to the network at my workplace, and then click Next. On the Network Connection page, click Virtual Private Network connection, and then click Next. On the Connection Name page, type Virtual Private Connection, and then click Next. On the Destination Address page, in the Host name or IP address box, type the IP address 192.168.x.y (where x.y is the address of your partner's computer) or the name of your partner's computer. On the Connection Availability page, verify Anyone's use is selected, and then click Next. On the Account Information page, type Userxxx for the User name and password for the Password and Confirm password, and then click Next. On the Completing the Network Connection Wizard page, click Finish. When the Logon window appears, click Cancel. In the Network Connections window, right-click Virtual Private Connection and then click Properties. On the Virtual Private Connections Properties dialog box, verify that Show icon in notification area when connected is selected, and then click OK.
<p> Important: Stop at this point and tell your partner that you have completed Task 2. When both of you have completed Task 2, you may continue with the lab.</p>	
<p>3. Test the VPN connection.</p>	<ol style="list-style-type: none"> Open Network Connections, and then double-click Virtual Private Connection. Log on as Userxxx with a password of password. On the Connection Complete dialog box, click OK. Open a command prompt, type IPCONFIG /ALL and then press ENTER. <div data-bbox="750 1602 792 1644" data-label="Image"> </div> <p><i>You will have three adapters listed: the Local Area Connection, which is the LAN adapter with the DHCP assigned address; a PPP adapter Virtual Private Connection with the address that was assigned by your partner's computer; and a PPP adapter RAS Server (Dial In), which is the inbound connection that you created.</i></p> Return to the Network Connections window, right-click Virtual Private Connection, and then click Disconnect. Close the command prompt, and then log off.

