

# Packet Tracer – Configuring VPN Transport Mode

## Addressing Table

Device	Private IP Address	Public IP Address	Subnet Mask	Site
Private_FTP server	10.44.2.254	N/A	255.255.255.0	Gotham Healthcare Branch
Public_FTP server	10.44.2.253	209.165.201.20	255.255.255.0	Gotham Healthcare Branch
Branch_Router	N/A	209.165.201.19	255.255.255.248	Gotham Healthcare Branch
Phil's computer	10.44.0.2	N/A	255.255.255.0	Metropolis Bank HQ

## Objectives

**Part 1: Sending Unencrypted FTP Traffic**

**Part 2: Configuring the VPN Client within Metropolis**

**Part 3: Sending Encrypted FTP Traffic**

## Background

In this activity, you will observe the transfer of unencrypted FTP traffic between a client and a remote site. You will then configure a VPN client to connect to the Gotham Healthcare Branch site and send encrypted FTP traffic. The IP addressing, network configuration, and service configurations are already complete. You will use a client device within Metropolis Bank HQ to transfer unencrypted and encrypted FTP data.

## Part 1: Sending Unencrypted FTP Traffic

### Step 1: Access the Cyber Criminals Sniffer.

- Click the **Cyber Criminals Sniffer** and click the **GUI** tab.
- Click the **Clear** button to remove any possible traffic entries viewed by the sniffer.
- Minimize the **Cyber Criminals Sniffer**.

### Step 2: Connect to the Public\_FTP server using an insecure FTP connection.

- Click the **Metropolis Bank HQ** site and click **Phil's** laptop.
- Click the **Desktop** tab and click on **Command Prompt**.
- Use the **ipconfig** command to view the current IP address of **Phil's** computer.
- Connect to the **Public\_FTP** server at **Gotham Healthcare Branch** by entering **ftp 209.165.201.20** in the command prompt.
- Enter the username of **cisco** and password of **publickey** to login to the **Public\_FTP** server.
- Use the **put** command to upload the file **PublicInfo.txt** file to the **Public\_FTP** server.

### Step 3: View the traffic on the Cyber Criminals Sniffer.

- Maximize the **Cyber Criminals Sniffer** that was previously minimized.

- b. Click the **FTP** messages displayed on the sniffer and scroll to the bottom of each one.  
What information is displayed in clear text?
- c. Type **quit** to exit **Public\_FTP** server.

### Part 2: Configuring the VPN Client on Phil's Computer

- a. From **Phil's** computer, use the **ping** command and target the IP address of the **Branch\_Router**. The first few pings may timeout. Enter the **ping** to get four successful pings.
- b. On the **Desktop** tab, click on **VPN**
- c. Within the **VPN Configuration** window, enter the following settings:  
GroupName: ..... **VPNGROUP**  
Group Key:..... **123**  
Host IP (Server IP):.. **209.165.201.19**  
Username: ..... **phil**  
Password: ..... **cisco123**
- d. Click **Connect** and Click **OK** on the next window.  
What is the Client IP for the client-to-site VPN connection?

### Part 3: Sending Encrypted FTP Traffic

#### Step 1: View the current IP addressing on Phil's computer.

- a. Within the **Metropolis Bank HQ** site, click **Phil's** computer.
- b. Click the **Desktop** tab and click on **Command Prompt**.
- c. Use the **ipconfig** command to view the current IP address of **Phil's** PC.  
What extra IP address is now shown that was not shown before in Part 1 Step 2c?

#### Step 2: Send encrypted FTP traffic from Phil's computer to the Private\_FTP server.

- a. Connect to the **Private\_FTP** server at **Gotham Healthcare Branch** by entering **ftp 10.44.2.254** in the command prompt.
- b. Enter the username of **cisco** and password of **secretkey** to login to the **Private\_FTP** server.
- c. Upload the file **PrivateInfo.txt** file to the **Private\_FTP** server.

#### Step 3: View the traffic on the Cyber Criminals Sniffer

- a. Maximize the **Cyber Criminals Sniffer** that was previously minimized.
- b. Click the **FTP** messages displayed on the sniffer.  
Are there any FTP messages displaying the password of internal or the file upload of PrivateInfo.txt? Explain.

### Suggested Scoring Rubric

Activity Section	Question Location	Possible Points	Earned Points
Part 1: Sending Unencrypted FTP Traffic	Step 3	20	
Part 2: Configure the VPN Client on Phil's Computer	Step 1	10	
Part 3: Send Encrypted FTP Traffic	Step 1	10	
	Step 3	20	
<b>Questions</b>		<b>60</b>	
<b>Packet Tracer Score</b>		<b>40</b>	
<b>Total Score</b>		<b>100</b>	