# 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.

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

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

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

a. 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	
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	Step 3	20	
	Questions	60	
Pack	40		
	100		