Week 10 Lab - 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.
- 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	t 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