

Packet Tracer – Skills Integration Challenge

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
HQ_Router	G0/0	10.44.1.1	255.255.255.0	N/A
	G0/1	209.165.201.2	255.255.255.248	N/A
VPN server	NIC	209.165.201.19	255.255.255.248	N/A
HQ_Wireless	LAN	10.44.0.254	255.255.255.0	10.44.1.1
FTP/Web server	NIC	10.44.1.252	255.255.255.0	10.44.1.1
BackupFiles server	NIC	10.44.2.10	255.255.255.0	10.44.2.1

Scenario

This culminating activity includes many of the skills that you have acquired during this course. You will configure a wireless router, upload and download files using FTP, connect securely to a remote site using a VPN, and secure a Cisco IOS router.

Implementation

Note: You only have access to the Metropolis HQ site. You can access all the servers and PCs within this site for testing purposes.

Implement to following requirements:

Sally's Computer – Metropolis Bank HQ

- Upload the **secure.txt** file to the **FTP/Web** server using FTP:
 - User **sally** with password **ftpaccess**
 - The file to upload is **secure.txt**
 - Use the IP address of the **FTP/Web server** located in the addressing table.
- Connect **Sally's** computer to the **Gotham Healthcare Branch** site via a client-to-site VPN:
 - Use the IP address of the VPN server located in the addressing table and ping the VPN server
 - Connect the client-to-site VPN with user **sally** and password **vpnsally**
 - Use the group **VPNGROUP** and key **123**
- Using the VPN connection, download the **data.txt** file from the **BackupFiles** server using FTP:
 - Use the IP address of the **BackupFiles** server located in the addressing table.
 - User **sally** with password **securesally**
 - The file to download is **data.txt**

Phil's Laptop – Metropolis Bank HQ

- Configure the **HQ_Wireless** router.
 - Use the IP address of the **HQ_Wireless** router located in the addressing table.
 - Use the Web Browser to configure the **HQ_Wireless** router from **Phil's** laptop.
 - User **admin** with password **p@ssword**

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- Change the SSID from **Default** to **HQwifi**
- Set the SSID to be viewable (broadcasted) to wireless clients.
- Configure wireless security of **WPA2 Personal** with the passphrase of **cisco321**.
- Secure the **HQ_Router**.
 - Use the IP address of **HQ_Router** router located in the addressing table.
 - Use the Command prompt to ssh to **HQ_Router** with the user **phil** and password **securessh**
 - Use the **enable** command and password **cisco**.
 - Activate the Cisco IOS resilient configuration feature.
 - Configure a banner motd message that includes the phrase **Authorized Access Only**

Gina's Laptop – Metropolis Bank HQ

- Connect **Gina's** laptop to the wireless network.
 - Connect to the SSID of **HQwifi**
 - Use the Pre-shared Key of **cisco321**
 - Verify that the laptop uses **DHCP**

Suggested Scoring Rubric

Packet Tracer scores 100 points.