Packet Tracer – Creating a Cyber World

Addressing Table

Device	IP Address	Subnet Mask	Site
FTP/Web Server	10.44.1.254	255.255.255.0	Metropolis Bank HQ
Email/DNS Server	10.44.1.253	255.255.255.0	Metropolis Bank HQ
NTP/AAA Server	10.44.1.252	255.255.255.0	Metropolis Bank HQ
File Backup Server	10.44.2.254	255.255.255.0	Gotham Healthcare Branch

Objectives

Part 1: Configure the FTP Server

Part 2: Configure the Web Server

Part 3: Configure the Email Server

Part 4: Configure the DNS Server

Part 5: Configure the NTP Server

Part 6: Configure the AAA Server

Background / Scenario

In this activity, you will configure basic server components. The IP addressing configuration is already complete. You will use the Services tab on multiple servers to deploy FTP, Web, Email, DNS, NTP, and AAA services.

Part 1: Configure the FTP Server

Step 1: Activate the FTP Service.

a. Click the **Metropolis Bank HQ** and then click the **FTP/Web** server.

b. Click the **Services** tab and then click **FTP**.

c. Turn on the FTP service using the radial button at the top.

Step 2: Allow users' access to the FTP server.

a. Create user account names of **bob**, **mary**, and **mike**, each with the password of **cisco123**.

b. Each user account should have full permissions (RWDNL) on the FTP/Web server.

Part 2: Configure the Web Server

Step 1: Activate the HTTP Service.

a. Within the **Metropolis Bank HQ**, click the **FTP/Web** server.

b. Click the **Services** tab and then click **HTTP**.

c. Turn on both the HTTP and HTTPS services using the radial buttons at the top.

Step 2: Verify the HTTP Service.

   a. Click the PC named Sally, and click the **Desktop** tab.

   b. Click the **Web Browser**. Browse to the website **www.cisco.corp**.

   c. Within the Web Browser, browse to the IP **10.44.1.254**.

   Why would a user be able to browse to an IP address but not a FQDN?

Part 3: Configure the DNS Server

Step 1: Activate the DNS Service.

   a. Within the **Metropolis Bank HQ**, click the **Email/DNS** server.

   b. Click the **Services** tab and then click **DNS**.

   c. Turn on the DNS service using the radial button at the top.

Step 2: Create the DNS A records.

   a. Create the **A** record **email.cisco.corp** with IP address **10.44.1.253**. Click **Add** to save the record.

   b. Create the **A** record **www.cisco.corp** with IP address **10.44.1.254**. Click **Add** to save the record.

Step 3: Verify the DNS Service.

   a. Click the PC named Sally, and click the **Desktop** tab.

   b. Click the **Web Browser**. Browse to the website **www.cisco.corp**.

   Why is the user able to browse to an FQDN?

Part 4: Configure the Email Server

Step 1: Activate the Email Services.

   a. Within the **Metropolis Bank HQ**, click the **Email/DNS** server.

   b. Click the **Services** tab and then click on **EMAIL**.

   c. Turn on both the SMTP and POP3 services using the radial buttons at the top.

Step 2: Create Email accounts for users.

   a. Create the domain name of **cisco.corp**.

   b. Create user account names of **phil**, **sally**, **bob**, **dave**, **mary**, **tim** and **mike,** each with the password of **cisco123**.

Step 3: Configure user Email clients.

   a. Click the PC named **Sally**, and click the **Desktop** tab.

b. Click **Email** and enter the following information:

Name: **Sally**

Email Address: **sally@cisco.corp**

Incoming & Outgoing Email Server(s): **email.cisco.corp**

Username: **sally**

Password: **cisco123**

c. Repeat Step **3b** on the PC named **Bob** but replace the name **sally** with **bob** as needed.

Why does the Email service require both SMTP and POP3 to be activated?

Part 5: Configure the NTP Server

Step 1: Activate the NTP Service.

a. Within the **Metropolis Bank HQ**, click the **NTP/AAA** server.

b. Click the **Services** tab and then click **NTP**.

c. Turn on the NTP service using the radial button at the top.

Step 2: Secure the NTP Service.

a. Enable the NTP authentication feature using the radial button.

b. Configure **Key 1** with a password of **cisco123**.

Part 6: Configure the AAA Server

Step 1: Activate the AAA Service.

a. Within the **Metropolis Bank HQ**, click the **NTP/AAA** server.

b. Click the **Services** tab and then click **AAA**.

c. Turn on the AAA service using the radial button at the top.

Step 2: Configure the AAA Network Configuration.

a. Configure the Client Name **HQ_Router** with the Client IP **10.44.1.1** with a secret of **cisco123**. Click **Add** to save the client information.

b. Configure the AAA user account of **admin** with a password of **cisco123**. Click **Add** to save the user information.

Suggested Scoring Rubric

Activity Section	Question Location	Possible Points	Earned Points
Part 2: Configure the Web Server	Step 2	2	
Part 3: Configure the DNS Server	Step 3	2	
Part 4: Configure the Email Server	Step 3	2	
Questions		**6**	
Packet Tracer Score		**94**	
Total Score		**100**	