

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

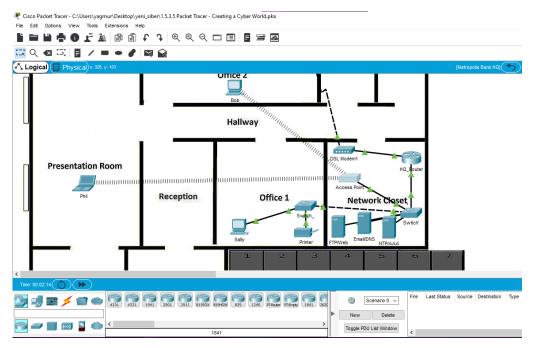
In this activity, you will configure basic server components. The IP addressing configuration is already complete. You will use the Services tab on multiple servers to deploy FTP, Web, Email, DNS, NTP, and AAA services.

Part 1: Configure the FTP Server

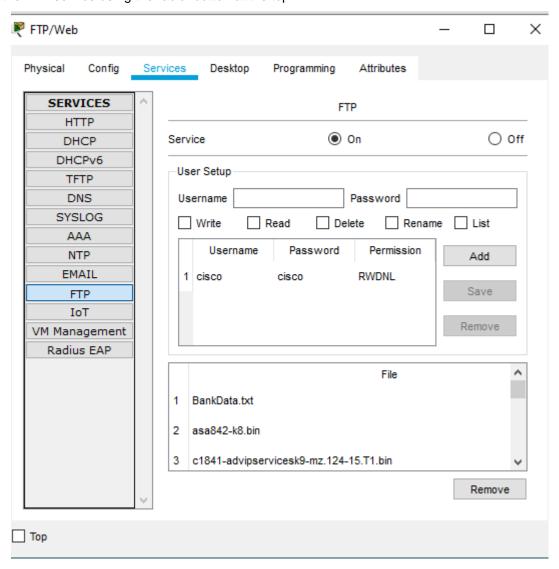
Step 1: Activate the FTP Service.

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



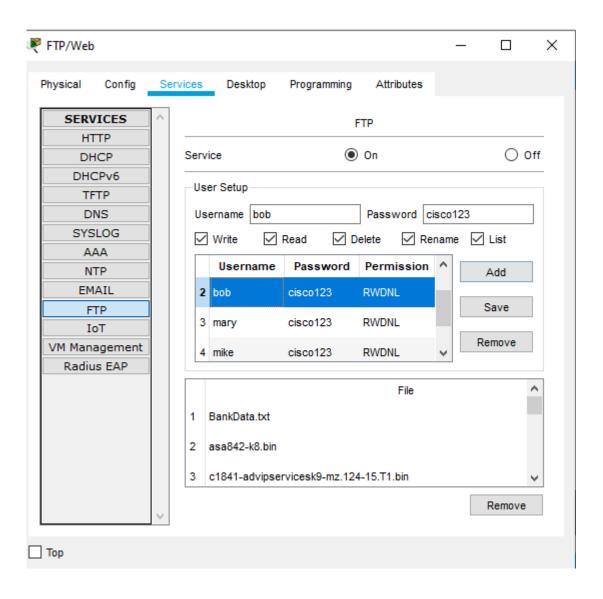


- b. Click the **Services** tab and then click **FTP**.
- c. Turn on the FTP service using the radial button at the top.



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

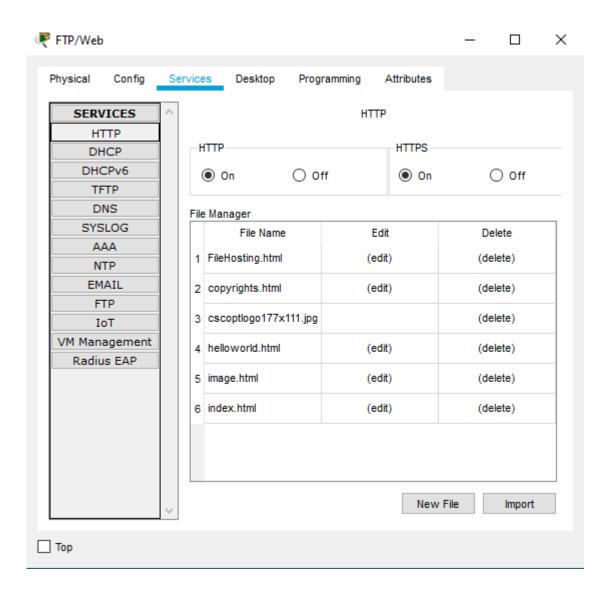
- a. Create user account names of bob, mary, and mike, each with the password of cisco123.
- b. Each user account should have full permissions (RWDNL) on the FTP/Web server.



Part 2: Configure the Web Server

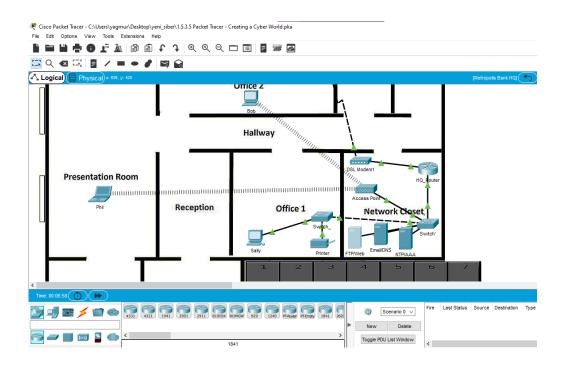
Step 1: Activate the HTTP Service.

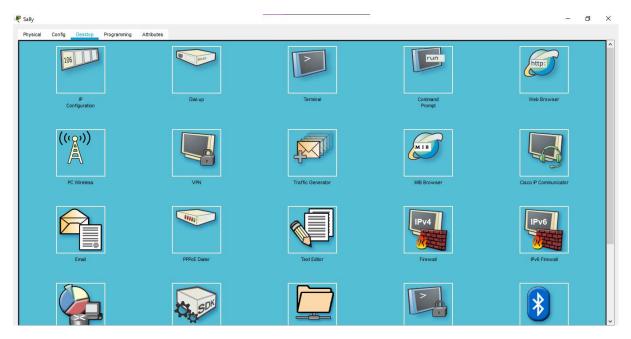
- a. Within the Metropolis Bank HQ, click the FTP/Web server.
- b. Click the **Services** tab and then click **HTTP**.
- c. Turn on both the HTTP and HTTPS services using the radial buttons at the top.



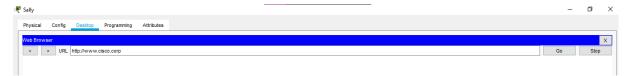
Step 2: Verify the HTTP Service.

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.



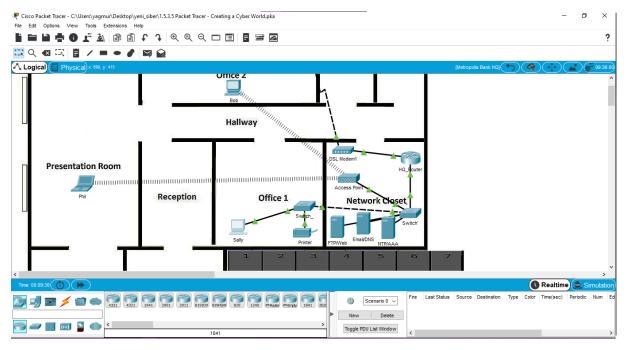
Why would a user be able to browse to an IP address but not a FQDN?

The web browser does not know IP address without DNS to translate the domain name to the IP address.

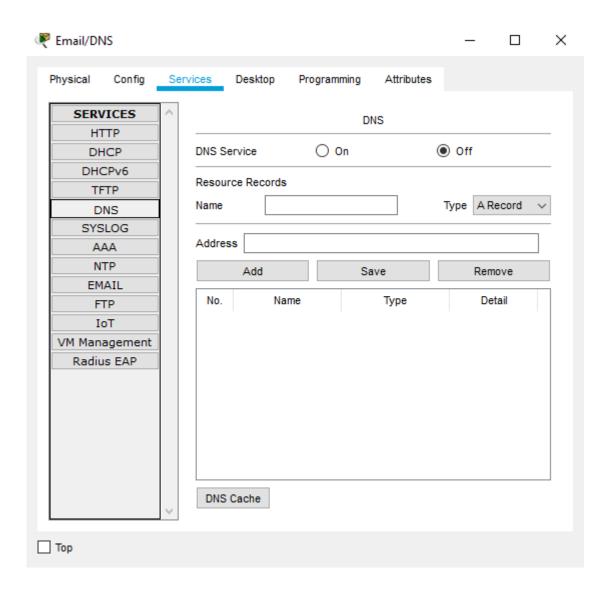
Part 3: Configure the DNS Server

Step 1: Activate the DNS Service.

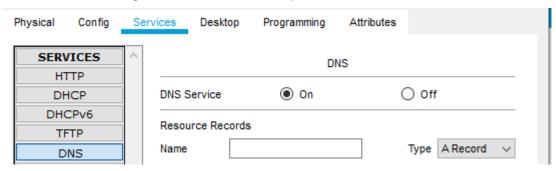
a. Within the Metropolis Bank HQ, click the Email/DNS server.



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

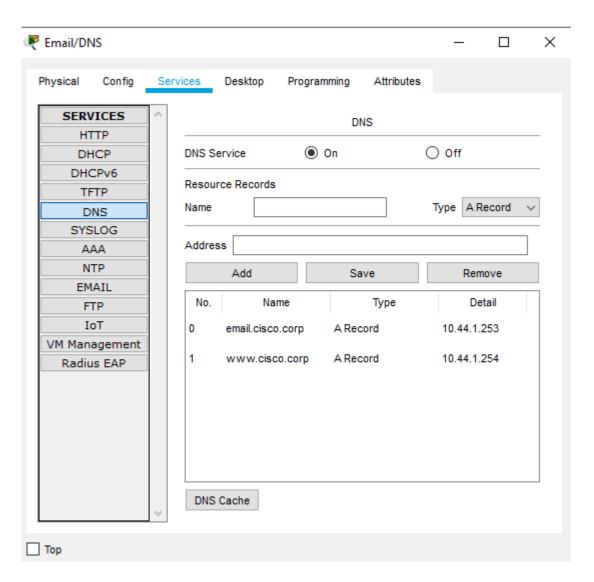


c. Turn on the DNS service using the radial button at the top.



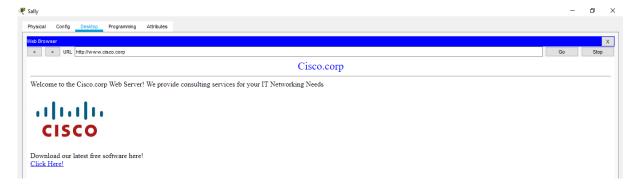
Step 2: Create the DNS A records.

- 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.



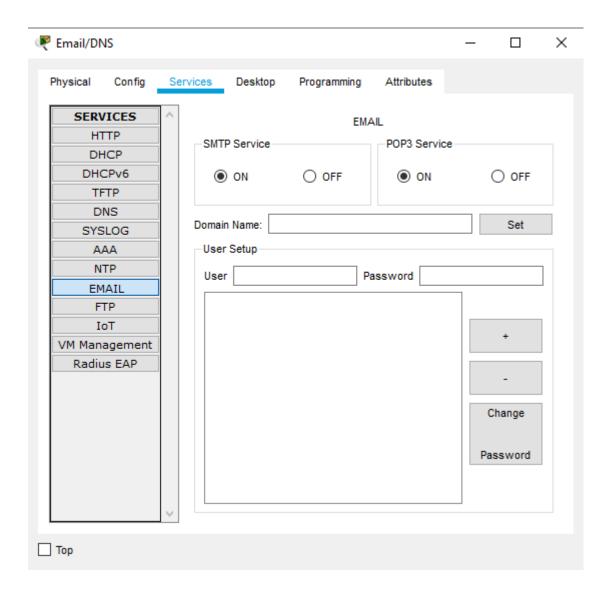
c. Why is the user able to browse to an FQDN?

The DNS server translated the domain name to the associated IP address so the web browser can understand it.

Part 4: Configure the Email Server

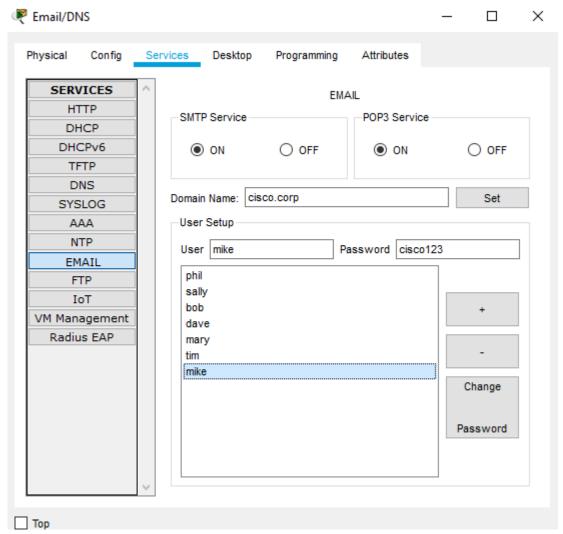
Step 1: Activate the Email Services.

- 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.

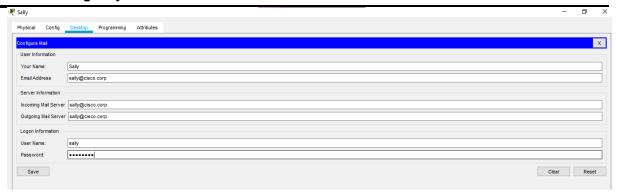
- a. Click the PC named Sally, and click the Desktop tab.
- **b.** Click **Email** and enter the following information:

Name: Sally

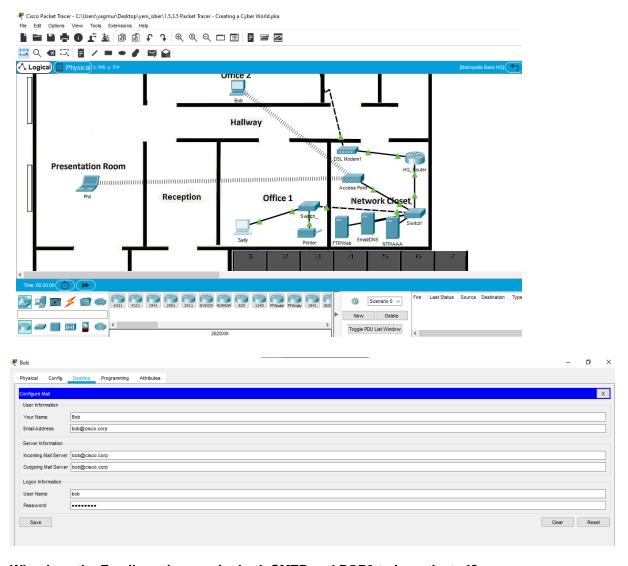
Email Address: sally@cisco.corp

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.



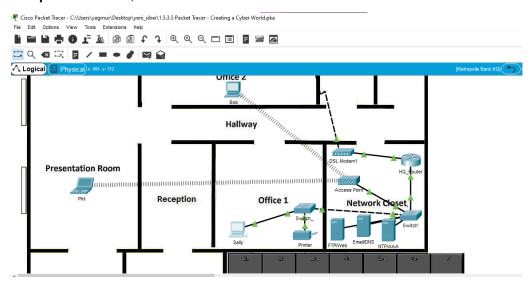
Why does the Email service require both SMTP and POP3 to be activated?

SMTP is the protocol responsible for sending emails between servers, and POP is a protocol used by local email clients to retrieve emails from a server.

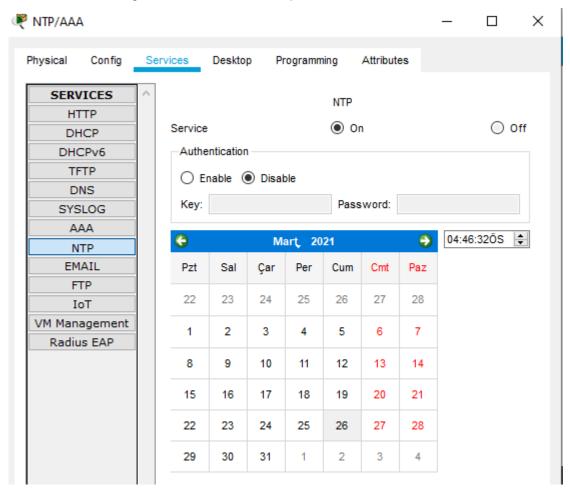
Part 5: Configure the NTP Server

Step 1: Activate the NTP Service.

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

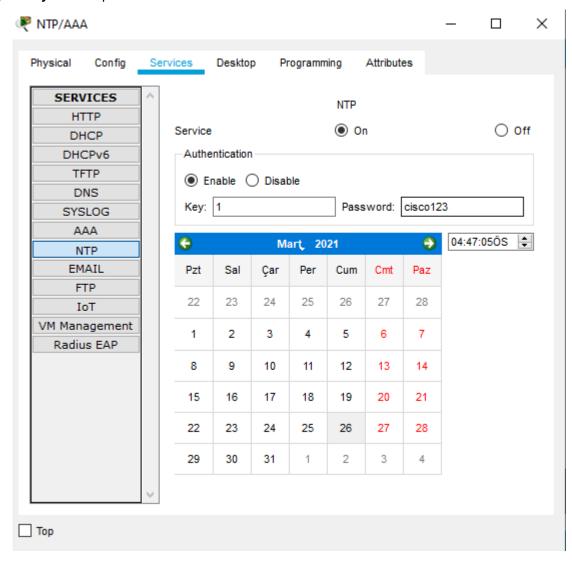


- b. Click the Services tab and then click NTP.
- c. Turn on the NTP service using the radial button at the top.



Step 2: Secure the NTP Service.

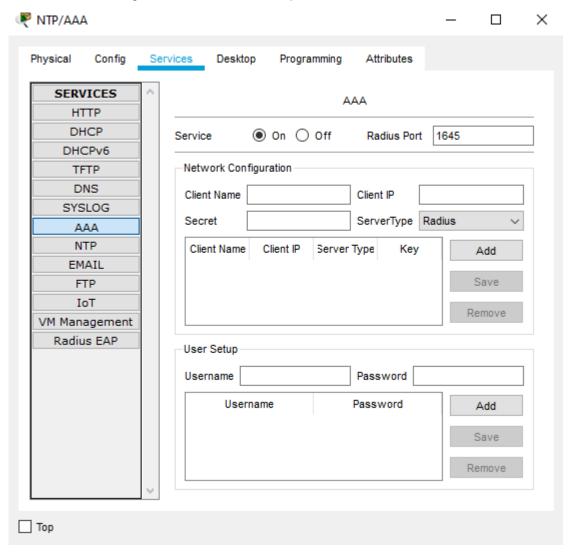
- a. Enable the NTP authentication feature using the radial button.
- b. Configure **Key 1** with a password of **cisco123**.



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.

