МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ
Федеральное государственное автономное образовательное учреждение
высшего образования
«КРЫМСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ им. В. И. ВЕРНАДСКОГО»
ФИЗИКО-ТЕХНИЧЕСКИЙ ИНСТИТУТ
Кафедра компьютерной инженерии и моделирования

Web and Email Servers

Отчет по лабораторной работе № 1
по дисциплине «Компьютерные сети»
студента 2 курса группы ИВТ-б-о-202(1)
Шор Константина Александровича

Направления подготовки 09.03.01«Информатика и вычислительная техника»

Симферополь, 2022

Part 1: Configure and Verify Web Services

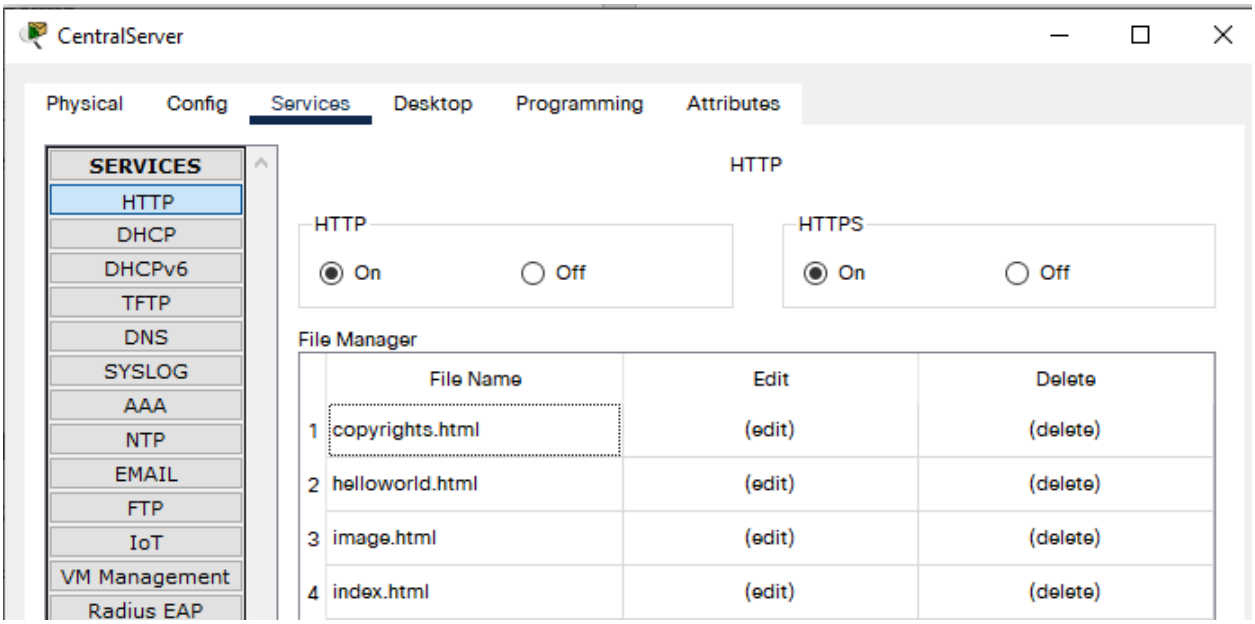
Step 1: Configure web services on CentralServer and BranchServer.

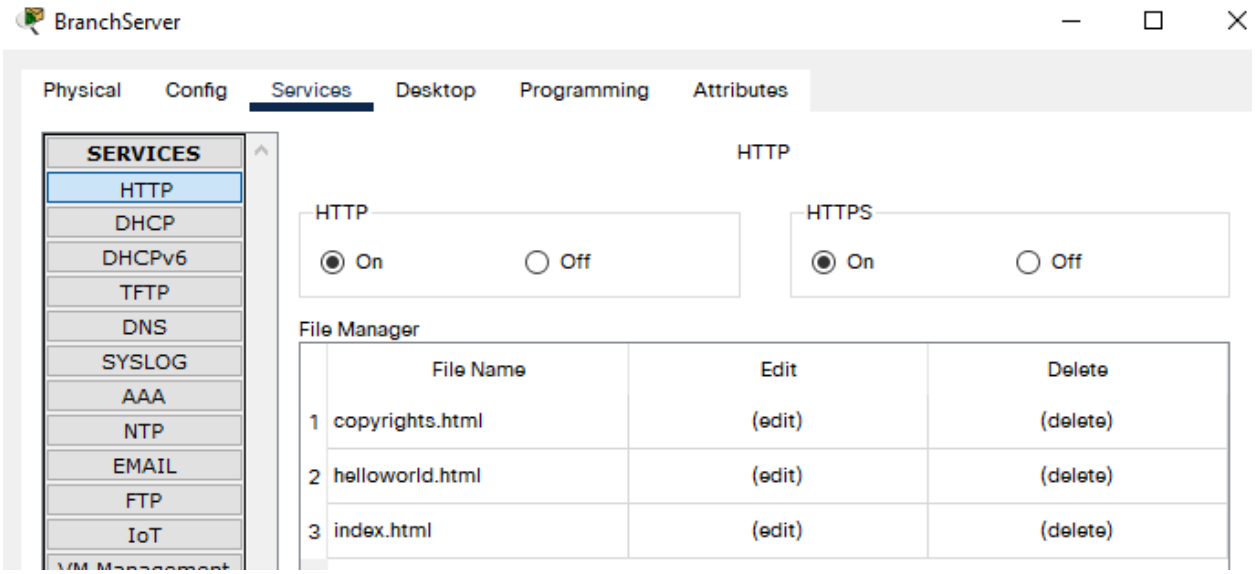
a. Click **CentralServer** and click the **Config** tab > **HTTP**.

b. Click **On** to enable HTTP and HTTP Secure (HTTPS).

c. Optional. Personalize the HTML code.

d. Repeat Step1a – 1c on **BranchServer**.





Step 2: Verify the web servers by accessing the web pages.

There are many endpoint devices in this network, but for the purposes of this step, use PC3.

a. Click PC3 and click the **Desktop** tab > **Web Browser**.

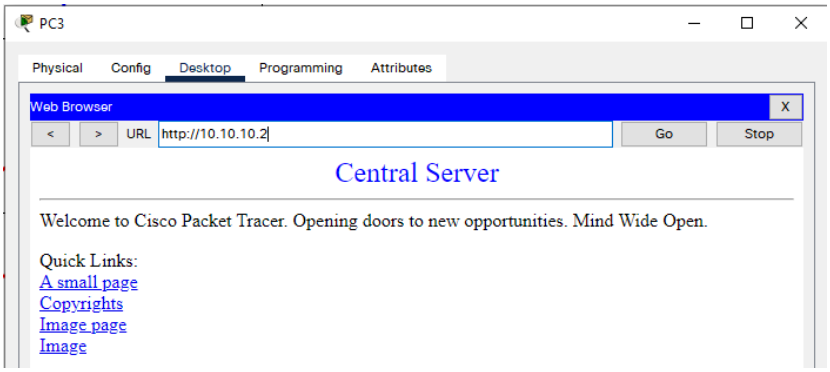
b. In the URL box, enter **10.10.10.2** as the IP address and click **Go**. The **CentralServer** website displays.

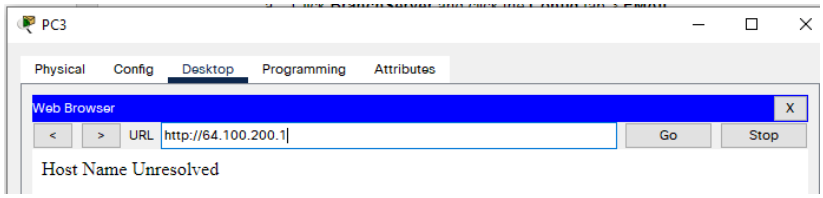
c. In the URL box, enter **64.100.200.1** as the IP address and click **Go**. The **BranchServer** website displays.

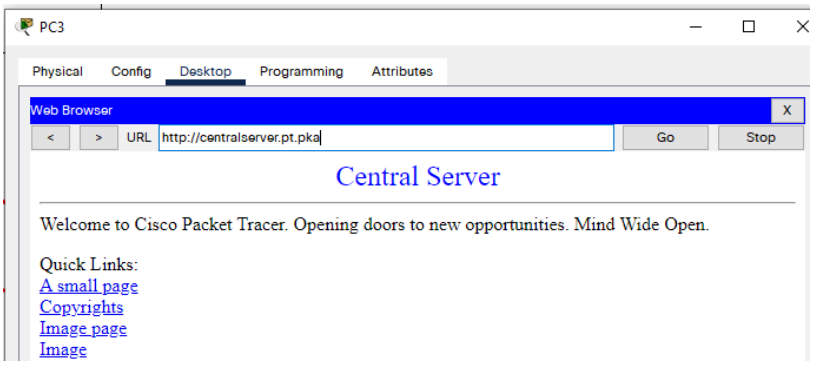
d. In the URL box, enter **centralserver.pt.pka** and click **Go**. The **CentralServer** website displays.

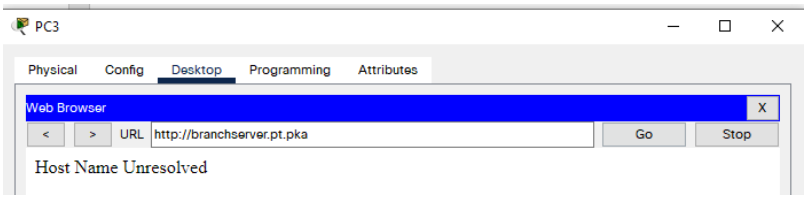
e. In the URL box, enter **branchserver.pt.pka** and click **Go**. The **BranchServer** website displays.

f. What protocol is translating the **centralserver.pt.pka** and **branchserver.pt.pka** names to IP addresses?









f. DNS

Part 2: Configure and Verify Email Services on Servers

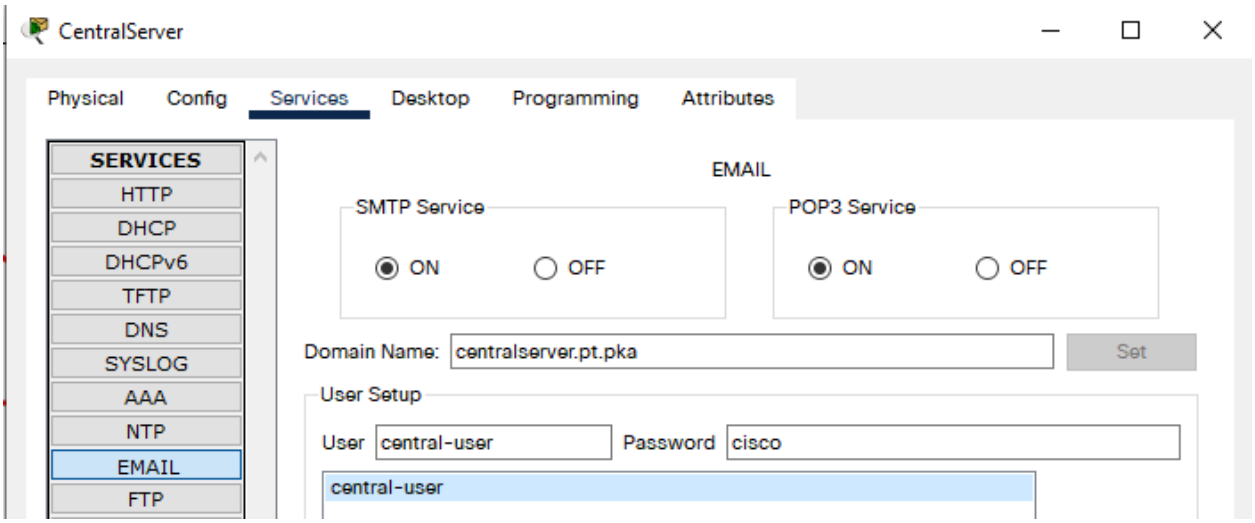
Step 1: Configure CentralServer to send (SMTP) and receive (POP3) Email.

a. Click **CentralServer**, and then select the **Config** tab followed by the **EMAIL** button.

b. Click **On** to enable the SMTP and POP3.

c. Set the domain name to **centralserver.pt.pka** and click **Set**.

d. Create a user named **central-user** with password **cisco**. Click **+** to add the user.



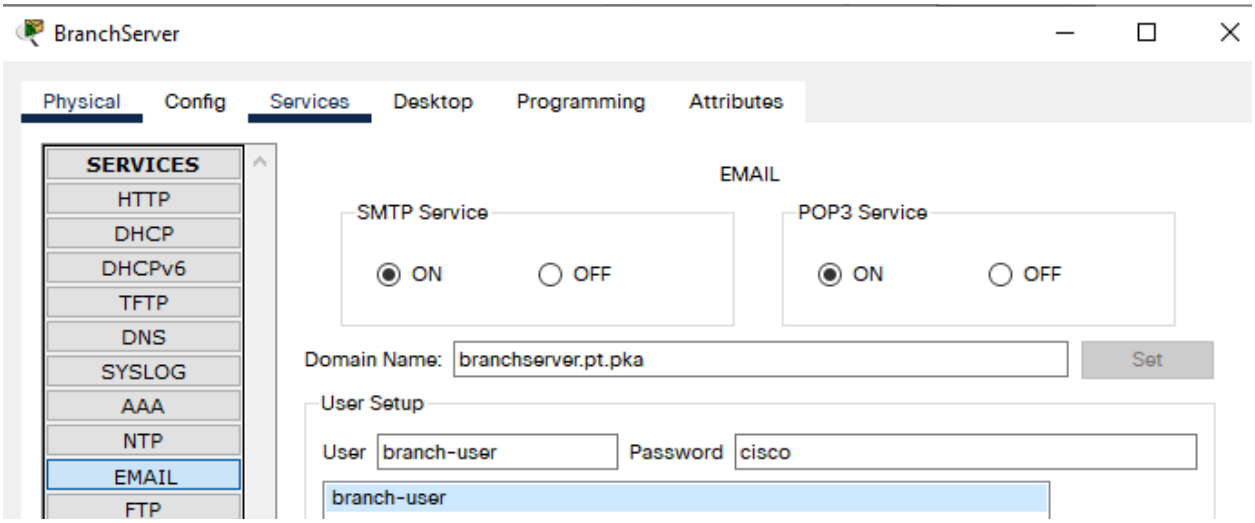
Step 2: Configure BranchServer to send (SMTP) and receive (POP3) Email.

a. Click **BranchServer** and click the **Config** tab > **EMAIL**.

b. Click **On** to enable SMTP and POP3 .

c. Set the domain name to **branchserver.pt.pka** and click **Set**.

d. Create a user named **branch-user** with password **cisco**. Click **+** to add the user.



Step 3: Configure PC3 to use the CentralServer email service.

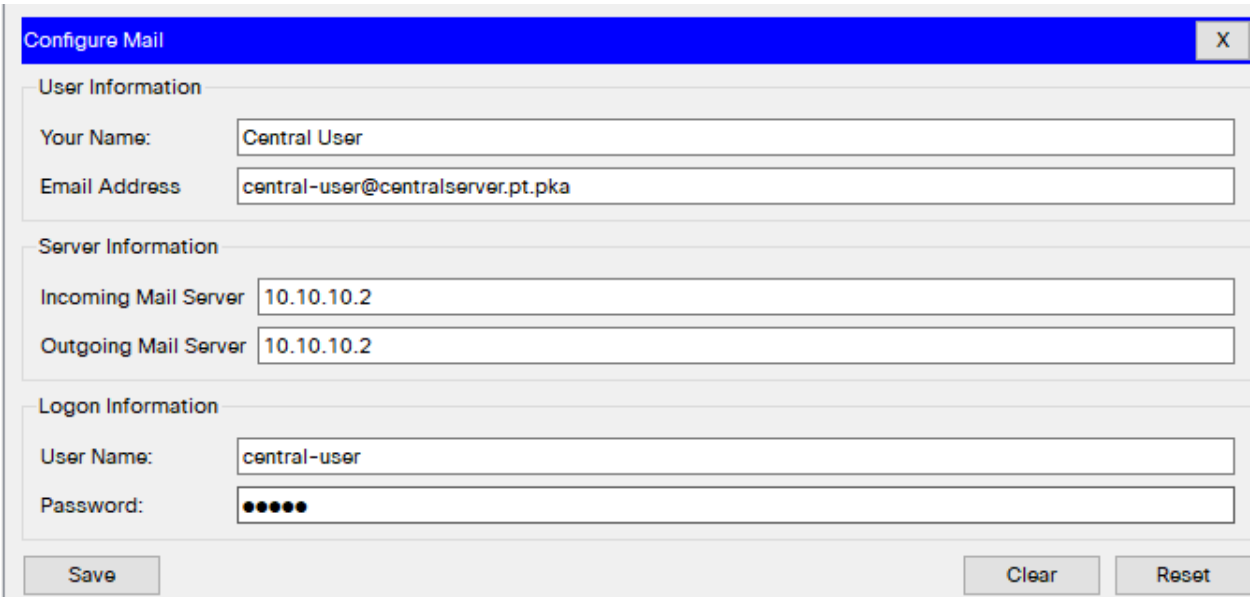
a. Click PC3 and click the **Desktop** tab > E **Mail**.

b. Enter the following values into their respective fields:

1) Your Name: **Central User**
2) Email Address: **central-user@centralserver.pt.pka**
3) Incoming Mail Server: **10.10.10.2**
4) Outgoing Mail Server: **10.10.10.2**
5) User Name: **central-user**
6) Password: **cisco**

c. Click **Save**. The Mail Browser window displays.

d. Click **Receive**. If everything has been set up correctly on both the client and server, the Mail Browser window displays the `Receive Mail Success` message confirmation.



Receiving mail from POP3 Server 10.10.10.2
Receive Mail Success.

Step 4: Configure Sales to use the Email service of BranchServer.

a. Click **Sales** and click the **Desktop** tab > E **Mail**.

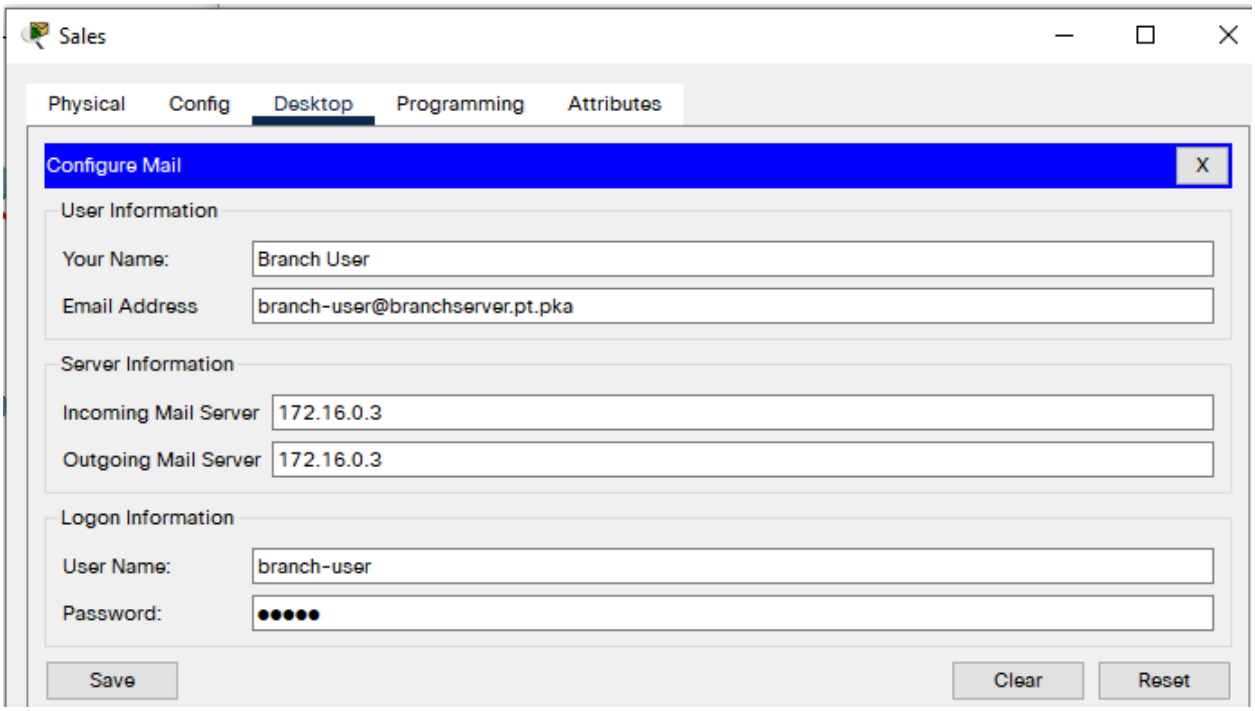
b. Enter the following values into their respective fields:

1) Your Name: **Branch User**
2) Email Address: **branch-user@branchserver.pt.pka**
3) Incoming Mail Server: **172.16.0.3**
4) Outgoing Mail Server: **172.16.0.3**
5) User Name: **branch-user**
6) Password: **cisco**

c. Click **Save**. The Mail Browser window displays.

d. Click **Receive**. If everything has been set up correctly on both the client and server, the Mail Browser window displays the `Receive Mail Success` message confirmation.

e. The activity should be 100% complete. Do not close the Sales configuration window or the Mail Browser window.



Receiving mail from POP3 Server 172.16.0.3
Receive Mail Success.

Step 5: Send an Email from the Sales client and the PC3 client.

a. From the **Sales Mail Browser** window, click **Compose**.

b. Enter the following values into their respective fields:

1) To: **central-user@centralserver.pt.pka**

2) Subject: *Personalize the subject line.*

3) **Email** Body: *Personalize the email.*

c. Click **Send**.

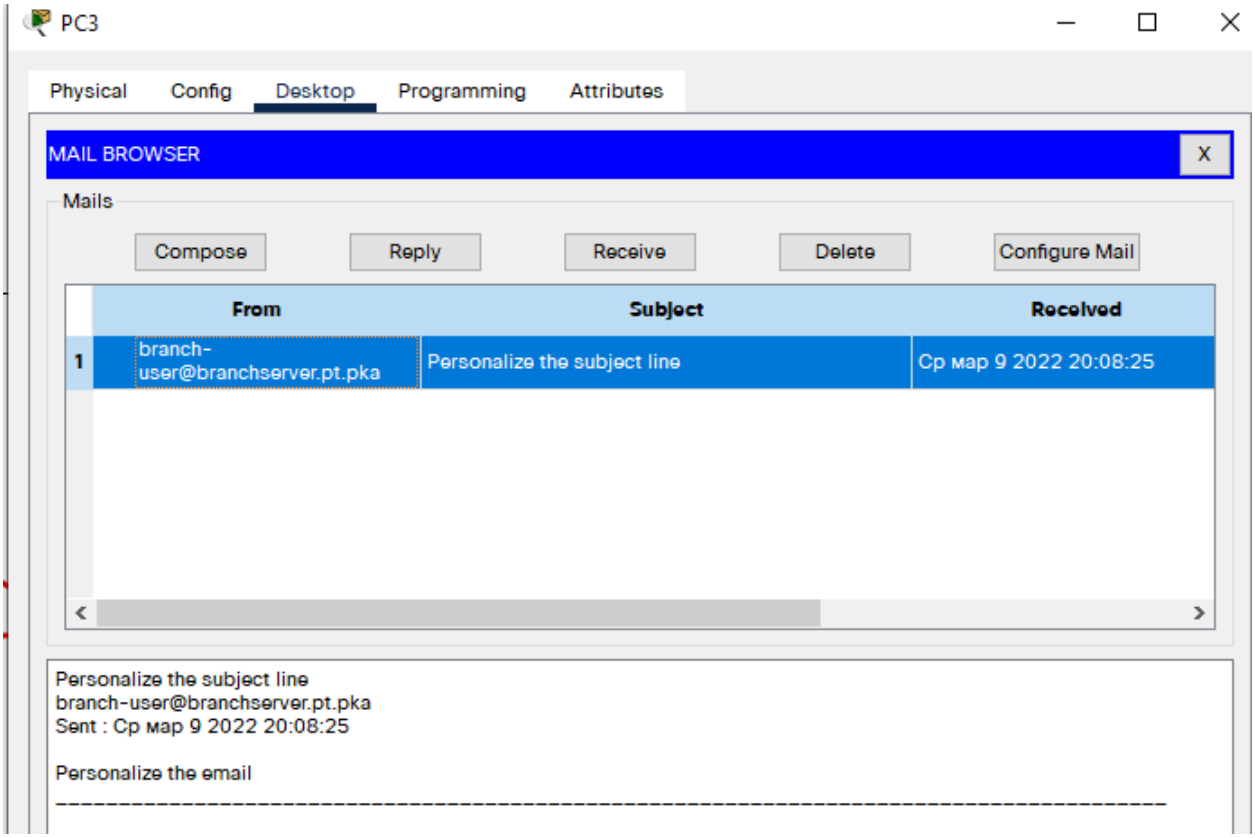
d. Verify that **PC3** received the email. Click **PC3**. If the Mail Browser window is closed, click **E Mail**.

e. Click **Receive**. An email from Sales displays. Double-click the email.

f. Click **Reply**, personalize a response, and click **Send**.

g. Verify that **Sales** received the reply.

```
Sending mail to central-user@centralserver.pt.pka , with
subject : Personalize the subject line ..  Mail Server:
172.16.0.3
Send Success.
```



Switch L3

```
D1(config)#ip route 0.0.0.0 0.0.0.0 10.255.255.245

D2(config)#ip route 0.0.0.0 0.0.0.0 10.255.255.249
```

Маршрутизаторы

```
R2(config)#ip route 0.0.0.0 0.0.0.0 64.100.100.2

R4(config)#ip route 0.0.0.0 0.0.0.0 64.100.150.2
```

Интернет

```
S     10.0.0.0/8 [1/0] via 64.100.100.1
      64.0.0.0/8 is variably subnetted, 12 subnets, 3 masks
D        64.100.8.0/24 [90/5376] via 64.104.222.2, 00:27:02, GigabitEthernet0/0
C        64.100.100.0/30 is directly connected, Serial0/0/0
C        64.100.100.1/32 is directly connected, Serial0/0/0
L        64.100.100.2/32 is directly connected, Serial0/0/0
C        64.100.150.0/30 is directly connected, Serial0/1/0
C        64.100.150.1/32 is directly connected, Serial0/1/0
L        64.100.150.2/32 is directly connected, Serial0/1/0
S        64.100.200.0/30 is directly connected, Serial0/1/0
C        64.104.222.0/30 is directly connected, GigabitEthernet0/0
L        64.104.222.1/32 is directly connected, GigabitEthernet0/0
C        64.104.223.0/30 is directly connected, GigabitEthernet0/1
L        64.104.223.1/32 is directly connected, GigabitEthernet0/1
D     128.107.0.0/16 [90/28416] via 64.104.222.2, 00:27:02, GigabitEthernet0/0
      172.16.0.0/24 is subnetted, 1 subnets
S        172.16.0.0/24 [1/0] via 64.100.150.1

Tier3a(config)#
```