

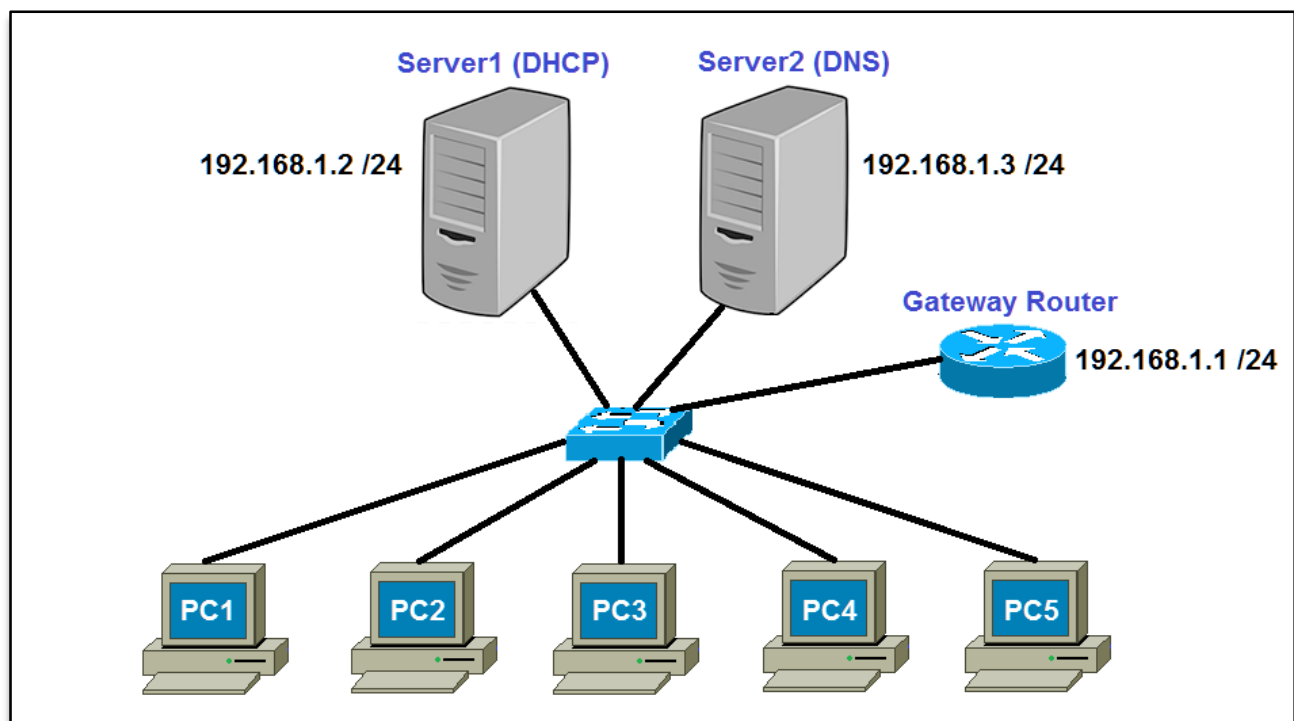
Packet Tracer Mini-Lab 10: Supplement

Setting Up DHCP Server, DNS Naming, and Gateway Router in Packet Tracer

CAVEAT: THE LABS IN CC2-180 MAY NOT WORK ENTIRELY AS PLANNED. WE WILL BE UTILIZING BOTH A SERVER 2012 R2 HOST PC AND VIRTUAL MACHINES (VMs) ON THE HOST PC, IN WHICH CASE THERE MAY BE UNFORESEEN ISSUES. AS SUCH WE WILL LIKELY GET SOME UNEXPECTED 'REAL WORLD' TROUBLESHOOTING PRACTICE AND MAY EVEN HAVE TO "WING IT"

Mini-Lab 10 Objective

The lab provides further practice in a simulated environment using Cisco's Packet Tracer application.



1. Create one small **network** using **2 Servers**, **5 PC** hosts, **1 Switch**, and **1 Router** connected with **8 copper straight-through** cables.

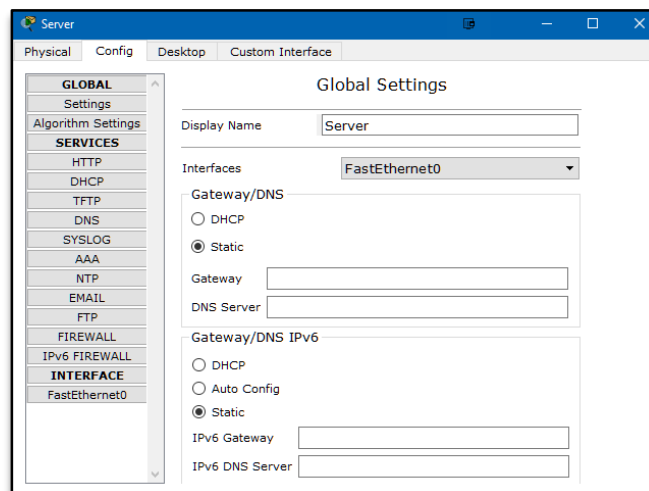
- Click on **Server 1** and select the **Desktop** tab.



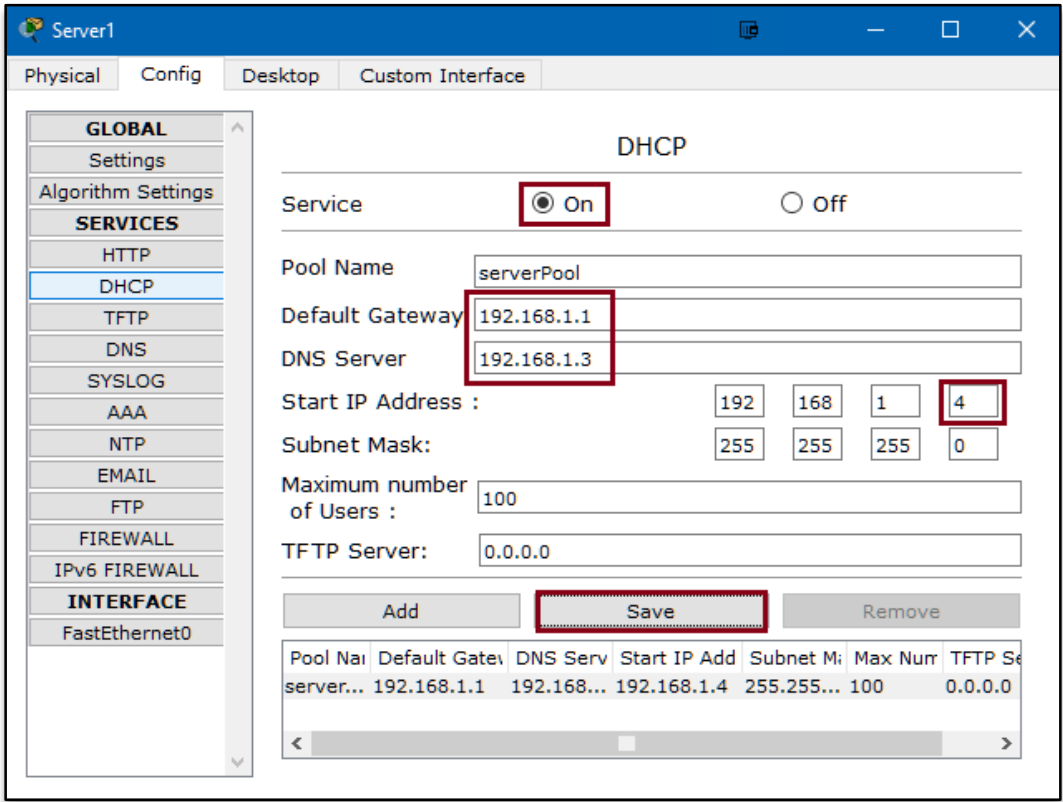
- Select **IP Configuration**, and enter the following **address information**:

A screenshot of the IP Configuration window. The window title is "IP Configuration" and it has a close button (X) in the top right corner. The "Interface" dropdown menu is set to "FastEthernet0". Under "IP Configuration", the "Static" radio button is selected. The fields are filled with the following values: IP Address: 192.168.1.2, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.1.1, and DNS Server: 192.168.1.3.

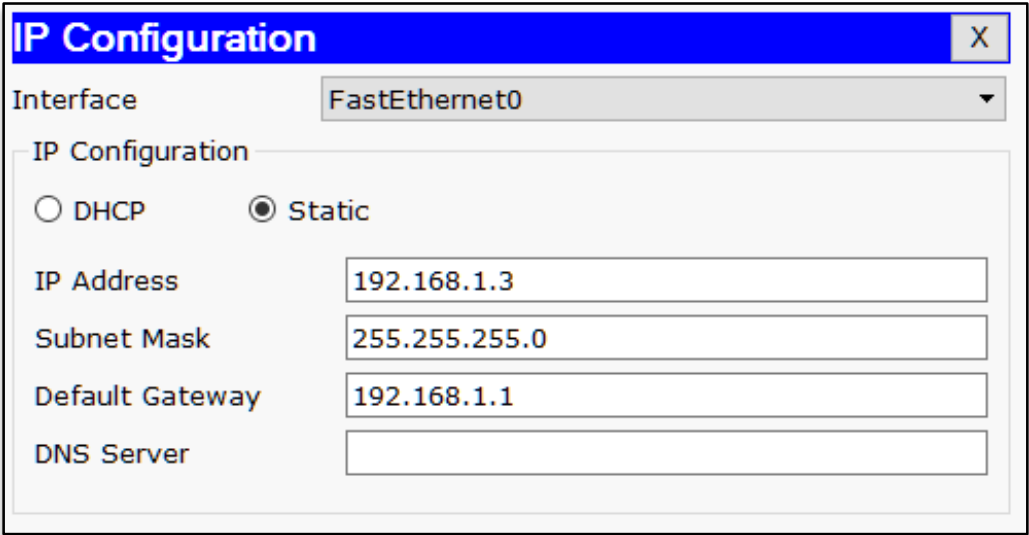
- Close the **IP Configuration** window, and select the **Config** tab.



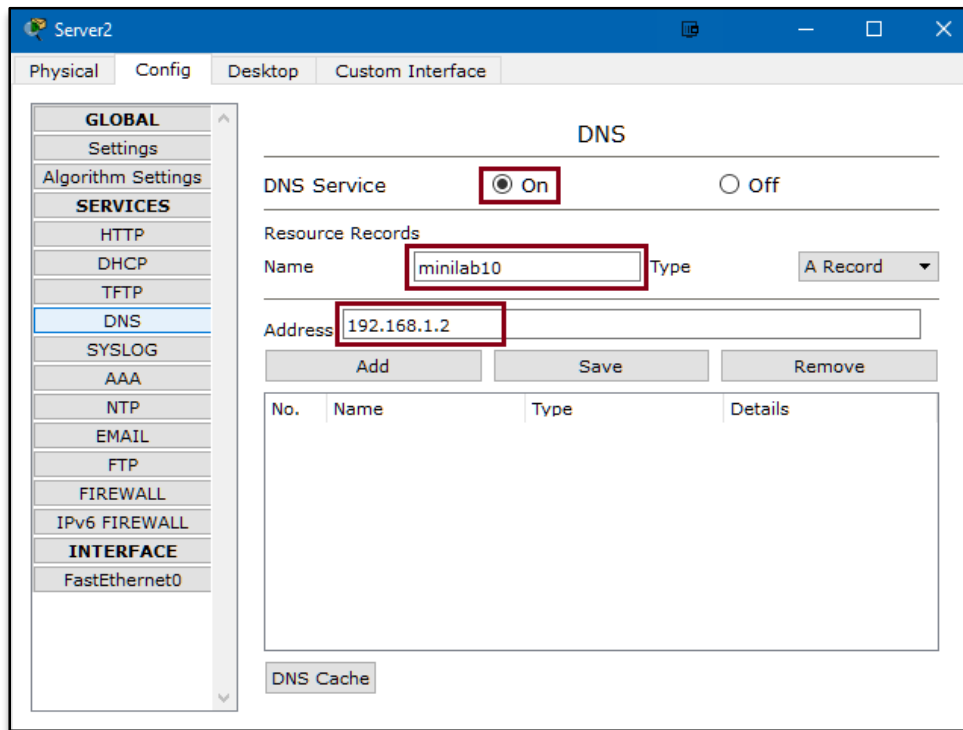
5. Under **SERVICES**, select **DHCP**, and enter the following, then the **Save** button:



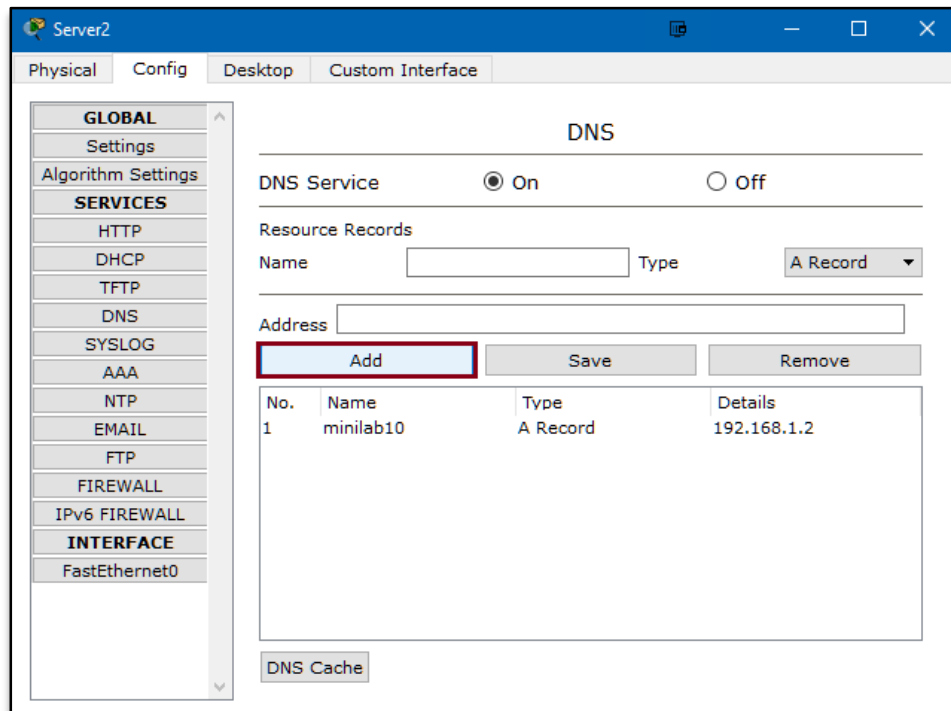
6. Close the **Server1** window, and open **Server2**, then select **Desktop**, then **IP Configuration**, and enter the following **address information**:



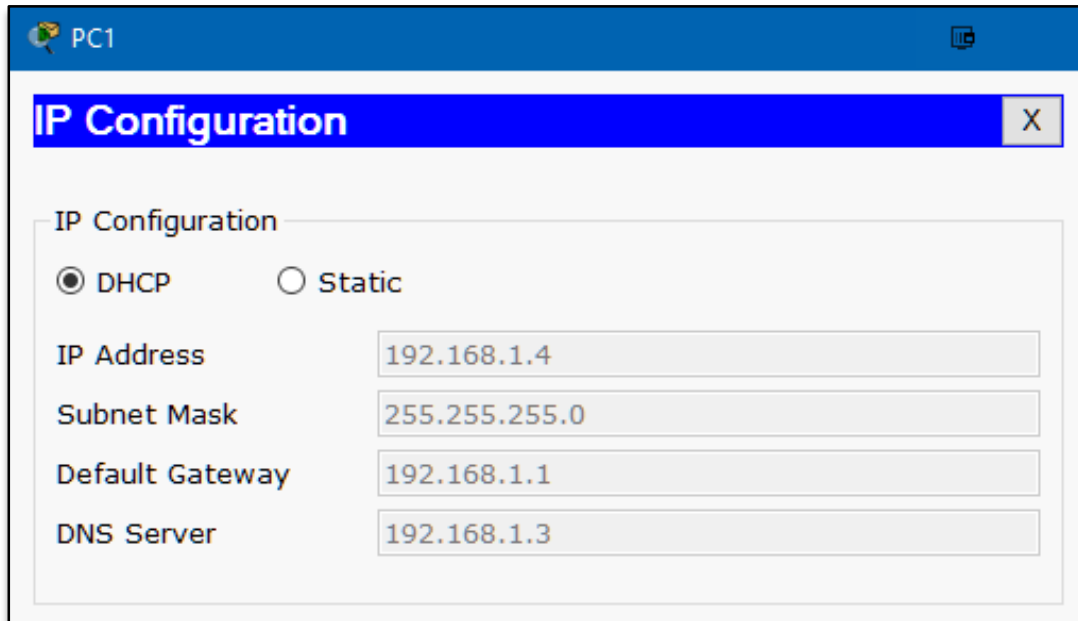
7. Close the **Desktop** window, select the **Config** tab, and under **SERVICES** select **DNS** and fill in the following information:



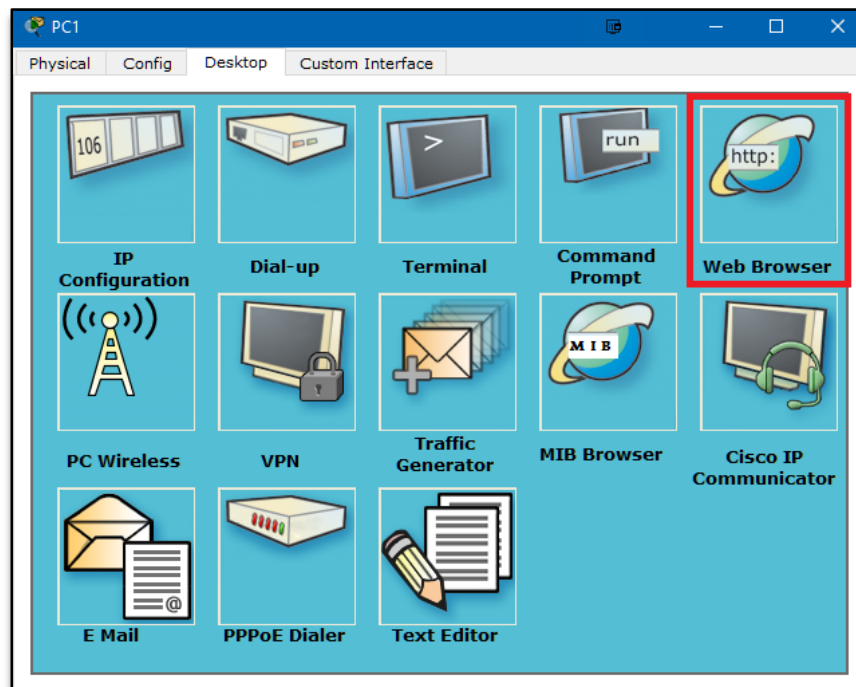
Now, click the **Add** button:



8. Go into each of the five **PCs**, select **Desktop**, select **IP Configuration**, and change the IP Configuration from **Static** to **DHCP** to be assigned an address from the **DHCP server** (as per the example for **PC1** below).



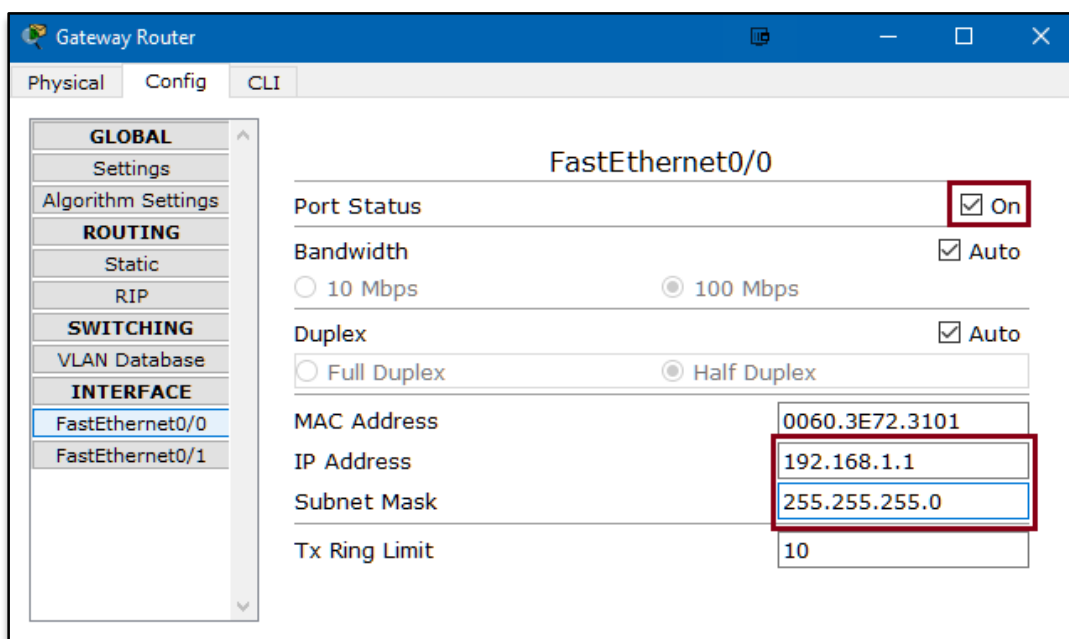
9. To test that the **DNS** naming service is working, open any of the five **PCs**, select **Desktop** tab, then select **Web Browser**.



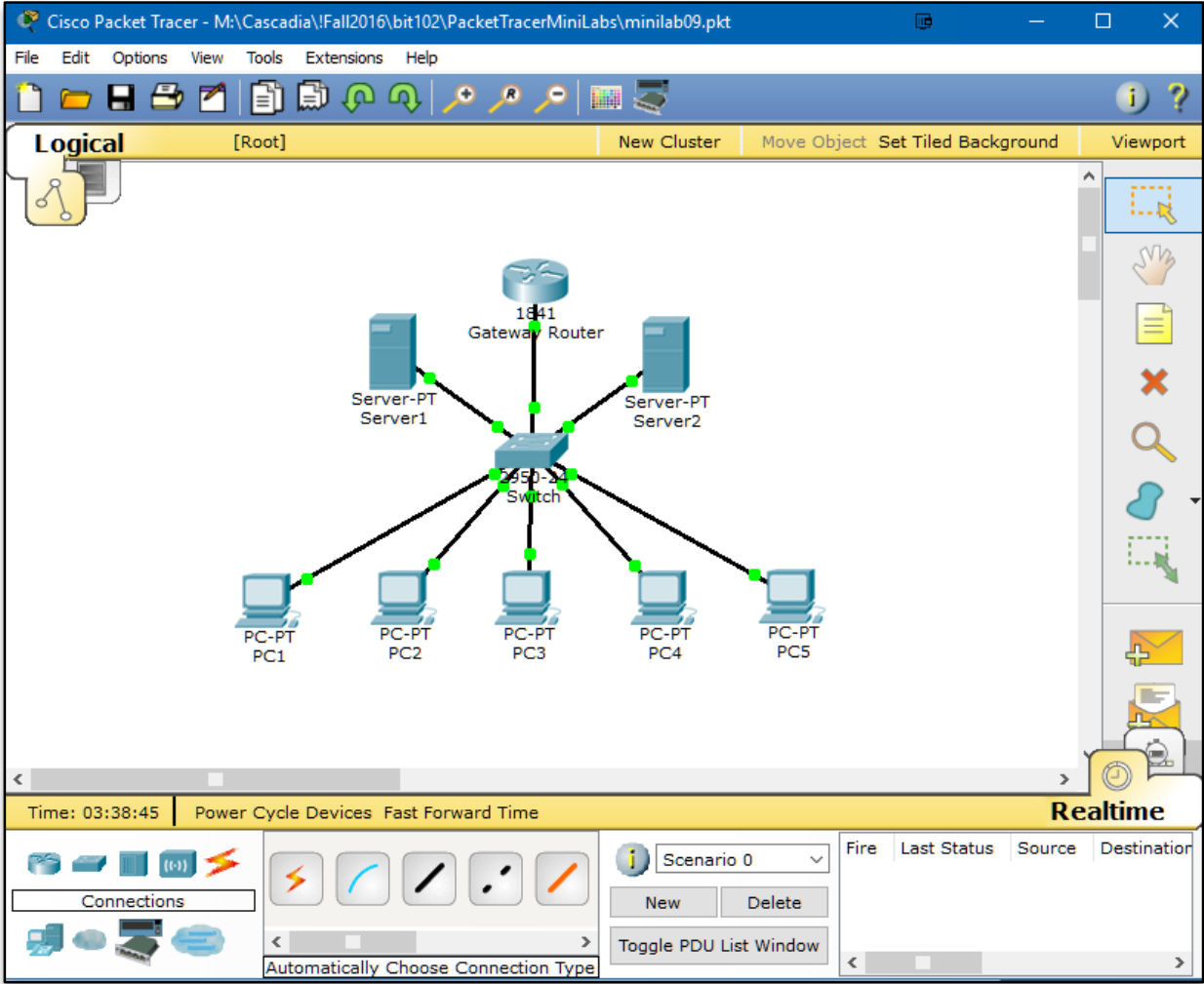
10. In the **URL** address bar of the browser, type in the name you set up in the **DNS server** (e.g., **minilab10**) to open the web page.



11. Close all the windows and select **Gateway Router**, then the **Config** tab and select **FastEthernet0/0** and fill in the following **address information**:



This **Gateway Router** can now be used to connect to a **remote network** when needed.



END OF MINI-LAB 10