

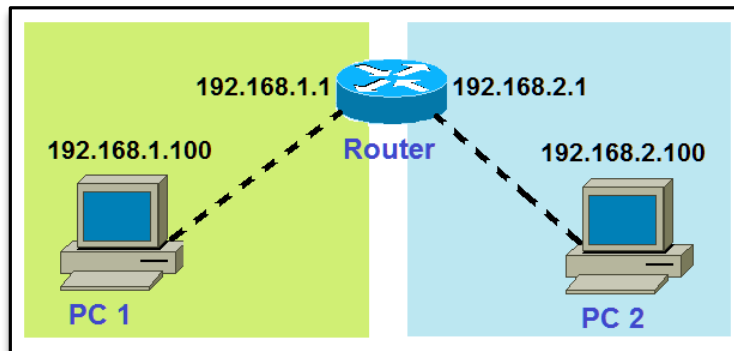
Packet Tracer Mini-Lab 01: Supplement

Using a Router with Config 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 01 Objective

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



1. Create two small **networks** using only **2 PC** hosts and **1 Router**, connected with **2 crossover** cables.
2. Click on **PC1** and select the **Desktop** tab.



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

IP Configuration [X]

IP Configuration

DHCP Static

IP Address: 192.168.1.100

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server:

4. Click on **PC2** and select the **Desktop** tab.

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

IP Configuration [X]

IP Configuration

DHCP Static

IP Address: 192.168.2.100

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server:

6. Roll the mouse cursor over **PC 1** to confirm the **address configuration** on the **popup box**.

```

Port          Link  IP Address      IPv6 Address      MAC Address
FastEthernet0 Down  192.168.1.100/24 <not set>         0001.4371.122A

Gateway: 192.168.1.1
DNS Server: <not set>
Line Number: <not set>

Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet

```

7. Roll the mouse cursor over **PC 2** to confirm the **address configuration** on the **popup box**.

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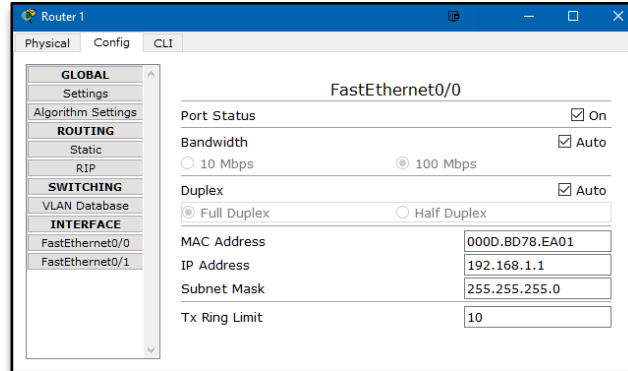
Port          Link  IP Address      IPv6 Address      MAC Address
FastEthernet0 Down  192.168.2.100/24 <not set>         0001.C794.211D

Gateway: 192.168.2.1
DNS Server: <not set>
Line Number: <not set>

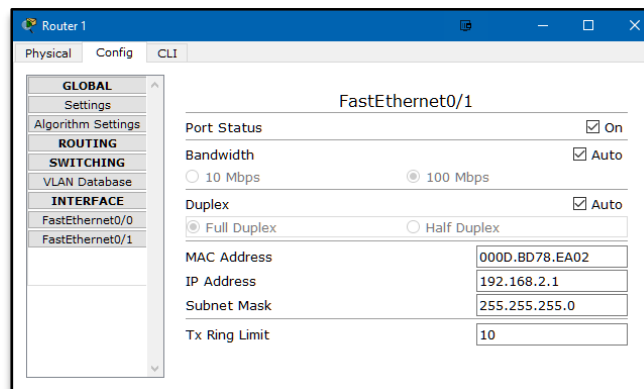
Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet

```

8. Click on **Router 1**, and select **FastEthernet 0/0**
 - a. Turn **on Port Status**
 - b. **IP Address: 192.168.1.1**
 - c. **Subnet Mask: 255.255.255.0**



9. Click on **Router 1**, and select **FastEthernet 0/1**
 - a. Turn **on Port Status**
 - b. **IP Address: 192.168.2.1**
 - c. **Subnet Mask: 255.255.255.0**

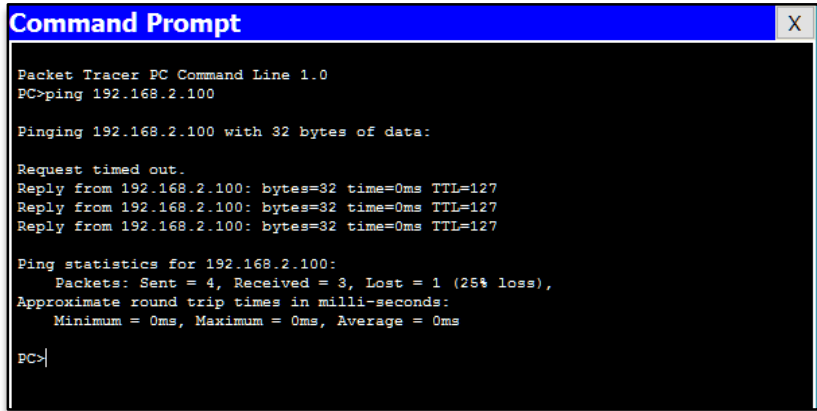


10. Click on **PC1** and select the **Desktop** tab.




11. Select the **Command Prompt**, and ping **PC 2**, using

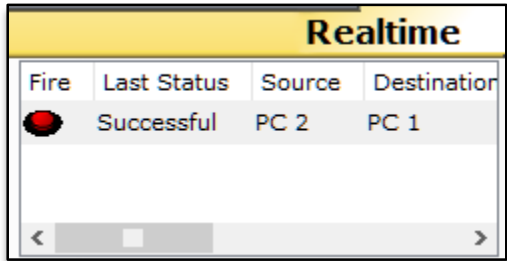
```
ping 192.168.2.100
```



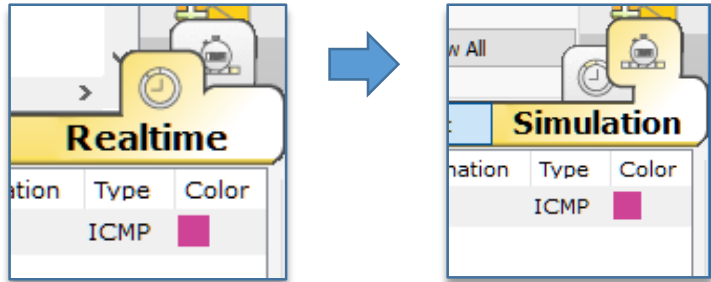
The first request may time out as the process works through the router

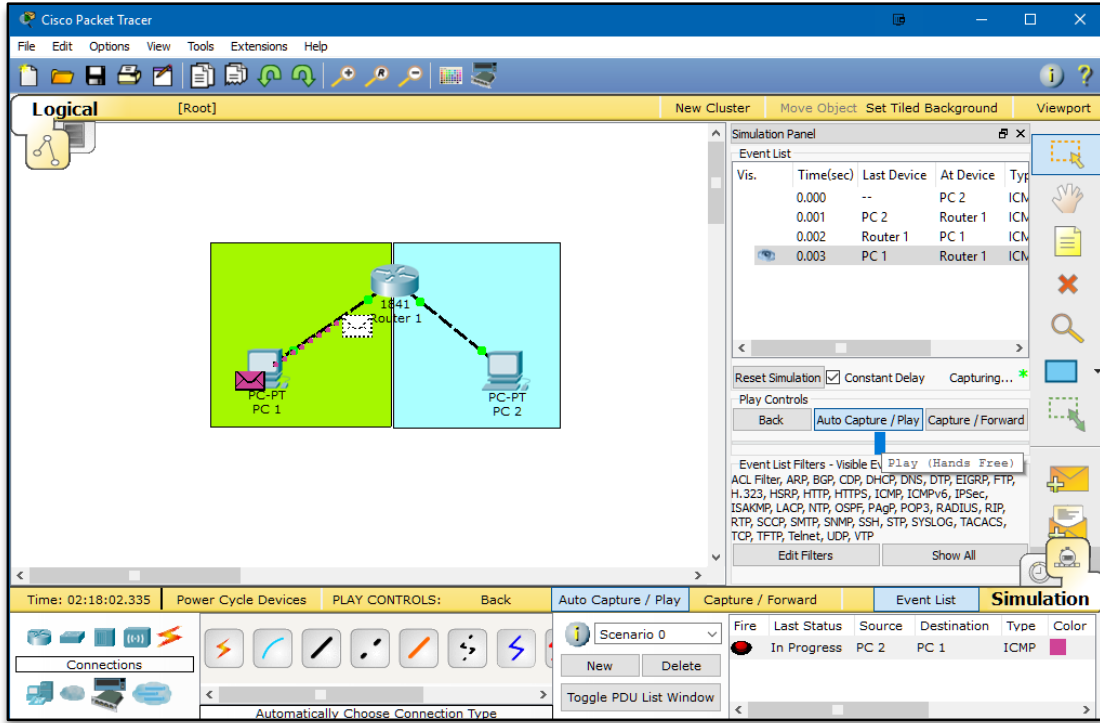
12. Select the **Add Simple PDU** icon from the right-hand icon bar  and click on **PC 2** and then click on **PC 1**.

13. The packet should have successfully travelled from PC2 to PC1 and back again



14. To watch the **packets** in action, you can repeat the process in **Simulation** mode by selecting the tab just behind the **Realtime** tab, and running the PDU again using either **Add Capture/Play** or **Capture/Forward**.





END OF MINI-LAB 01