

# IFT 259 Introduction to Internet Networking

## Lab 13

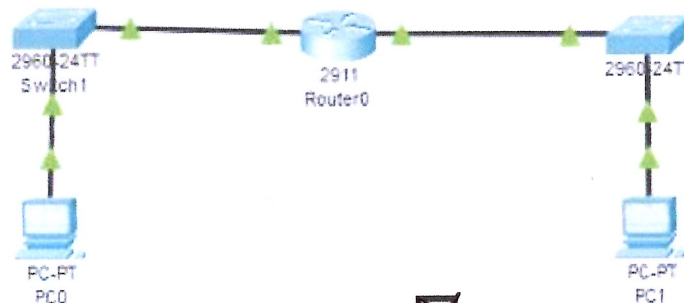
### Understanding the importance of Default Gateways

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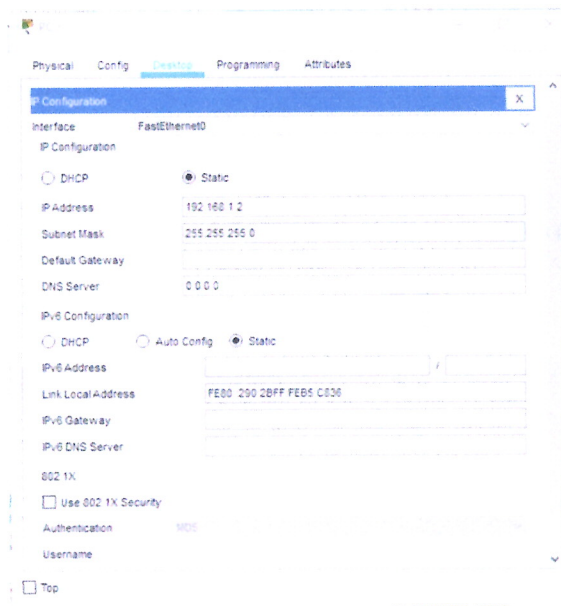
After you complete each step, put a '✓' or 'x' in the completed box

1. Set up the following topology in packet tracer.



Completed ☒

2. Configure PC0 as shown below



Completed ☒

3. Repeat the previous step for PC1 giving it a different IP address so it is assigned to the 19.168.2.0

Completed ☒

4. Now assign IP addresses to both GigabitEthernet0/0 interfaces on the router. You can use GUI or the command line.

Completed ☒

5. Attempt to ping PC1 from PC0.

What happened?

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*Did not ping request timed out*

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Why didn't the ping work?

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*There was no default gateway*

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6. On PC0, enter in the default gateway as the IP address you set for GigabitEthernet0/0.

The screenshot shows the 'IP Configuration' window for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The fields are filled with the following values:

Field	Value
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	0.0.0.0

Under 'IPv6 Configuration', the 'Static' radio button is also selected. The fields are filled with the following values:

Field	Value
IPv6 Address	
Link Local Address	FE80:290:2BFF:FE5C:83B6
IPv6 Gateway	
IPv6 DNS Server	

At the bottom, there is a checkbox for '802.1X' and a checkbox for 'Use 802.1X Security'. The 'Authentication' dropdown is set to 'MD5' and the 'Username' field is empty.

Completed

7. Repeat the same step for PC1 and GigabitEthernet0/1, that you did for PC0 in step 6.

Completed

8. Attempt to ping PC1 from PC0 again.

Did it work?

It should be a "yes"

If not.....start troubleshooting 😊

9. Attach a screenshot of your successful ping below

