

Home Computer Networks NoZoM NoZoMGeeKs NoZoMeDiA NoZoMEvents

Computer Networks >

HTTP Lab

Web/HTTP Lab

In this activity, you are supposed to be familiar with:

- Applying a Network Topology to Packet Tracer
- Familiar with the Different Functionalities and Protocols required by Application Layer; HTTP, HTTPS, and DNS to support Web pages Request from Clients to Web Servers
- · Familiar with Subnetting; so You know that Two Different Network IDs are Required to run the Network Topology

Task

Request a Web page from the Client PC; http://www.elghareeb.net and view the Results.

First Step: Apply the Following Topology to Your Packet Tracer.



Hints:

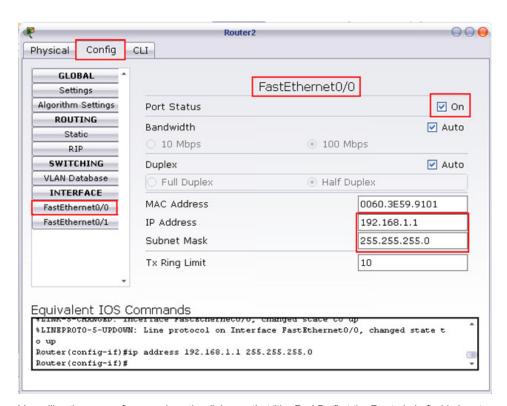
- Use Router 2811: because it contains two already installed Fast Ethernet Ports, and this topology requires both of them. Otherwise, you will have to turn off the Router and install a new module.
- Do not Use Auto Connection: Use Manual Connections. Straight ConnectionCable is used to connect: PC with Switch, Switch and Router. Crossover Connection Cable is used to connect the Router to the Server.
- · Router Ports are Turned OFF by default: So, you will see the "Red dots" besides Router as indicated in the figure
- Switch Ports are Turned ON by default: So, you will see the "Green dots" besides Switch as indicated in the figure.

Second Step: Configure Router

In this activity, you will be allowed to Use "Config" Tab. Click on the Router, a new Window Opens. Choose "Config" tab as in the figure. Then:

- Chose FaseEthernet0/0 Interface from the Left Pane:
 - o Turn it On
 - Enter IP Address and Subnet Mask: 192.168.1.1/24 FOR EXAMPELE





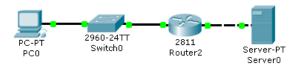
You will notice now; after you close the dialogue, that "the Red Dot" at the Router's Left side has turned to "a Green Dot" as shown in the figure.

Now, Repeat the Process with the other Port: FastEthernet0/1

- Turn it On
- Enter IP Address and Subnet Mask: 192.168.1.1/24 FOR EXAMPLE



Again, You will notice now; after you close the dialogue, that "the Red Dot" at the Router's Right side has turned to "a Green Dot" as shown in the figure,

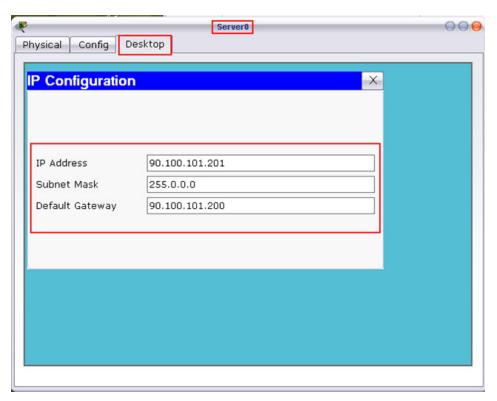


Third Step: Configure Server

Click on the Server, when the dialogue opens, choose "**Desktop**" tab, then "**IP Configuration**" as shown in the figure. A new window will open. Enter the following Configurations as shown in the figure.

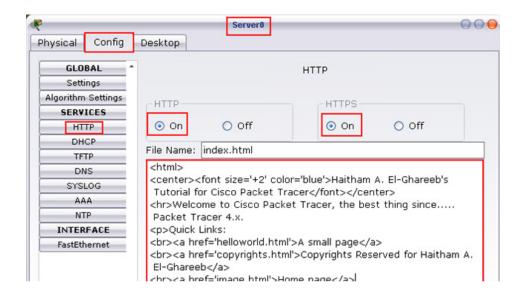
- Enter IP Address: 90.100.101.201 FOR EXAMPLE (or any other IP Address that Belongs to the Same Network ID as the Router Interface)
- Enter Subnet Mask: Default
- Enter Default Gateway: that would be the Routers Interface IP Address "90.100.101.200"





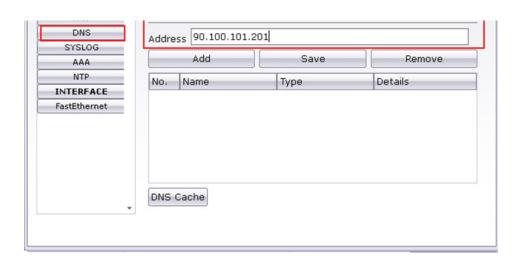
Close this Window, and Move to "Config" tab. Now, you will Perform the "Basic Server Configurations".

1. Configure HTTP: Ensure that Settings are as shown in the Figure.



2. Configure DNS:

Move to the "**DNS Services**" from the "**Config**" tab. Ensure that DNS Services is "**ON**" and Add a New "**Type A**" Record for the Destination Web address as shown in the figure. Web site Name: is the same name you will use at Client to Request Web page, and IP Address is the Server's. Then, click: "**Add**" to save the New Record as shown.

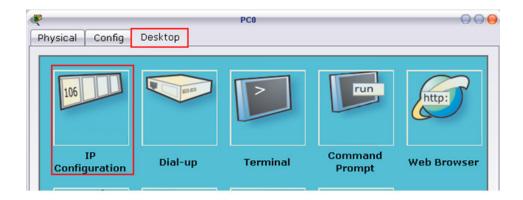


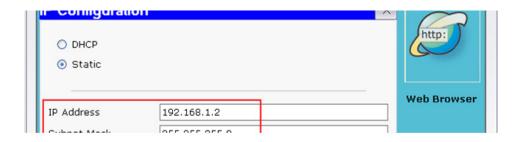


Final Step: Configure PC Addressing

Click on the PC, when the dialogue opens, choose "Desktop" tab, and then choose "IP Configuration" tab; as shown in the figure. A new window will open. Enter the following Configurations as shown in the figure.

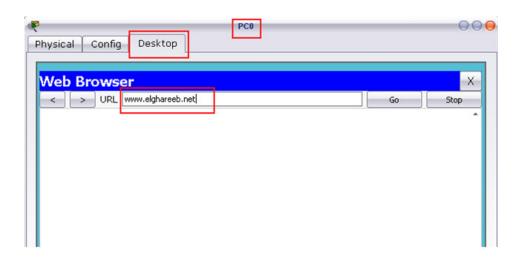
- Enter IP Address: 192.168.1.2 FOR EXAMPLE (or any other IP Address that Belongs to the Same Network ID as the Router Interface)
- Enter Subnet Mask: Default
- Enter Default Gateway: that would be the Routers Interface IP Address "192.168.1.1"
- Enter DNS Server: Server's IP Address "90.100.101.201"





Run Web Page:

Now, Click on PC, Open "Desktop" tab and Choose "Web browser" as shown in the figure. In the "URL", enter $\underline{www.elghareeb.net}$ or the name you used in DNS Configuration, then hit "Go". Here you Go!

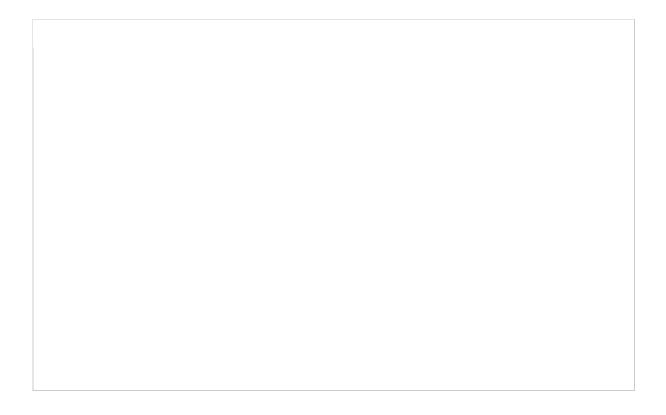


Thanks

--

Haitham A. El-Ghareeb

Sunday, January 03, 2010



Sign in Recent Site Activity Terms Report Abuse Print page | Powered by Google Sites