

Semester 5th | Practical Assignment | Computer Networks (2301CS501)

Date: 13/08/2024

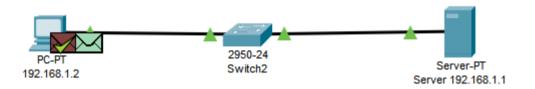
Lab Practical #06:

Study the application layer protocol DNS, DHCP, FTP.

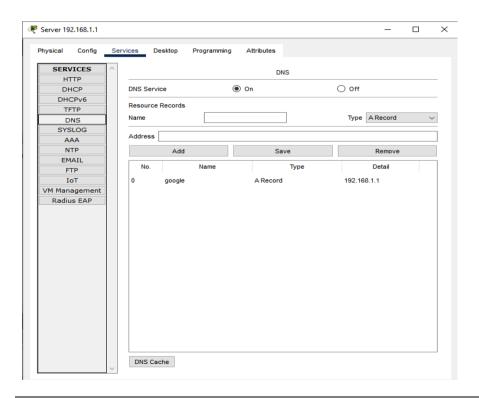
Practical Assignment #06:

1. Implement the application layer protocol DNS, DHCP, and FTP. Also check connectivity between them using ping command or PDU utility.

DNS(Domain Name System):



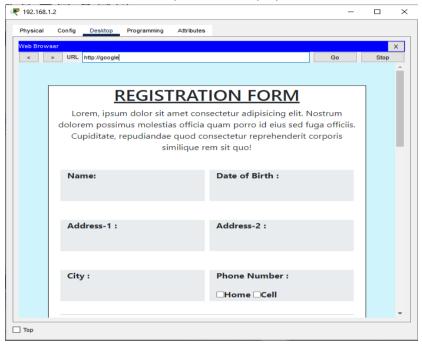
- Make a network displayed as per the above image.
- Assign 192.168.1.1 IP address to Server and assign 192.168.1.2 IP address to PC.
- Click on Server(192.168.1.1) and choose Services
- Now Choose **DNS** from the left side.
- Now click **On the** radio button as per the below image.
- Fill out **google** in Name textbox and **192.168.1.1** in Address textbox. Click on the Add button.

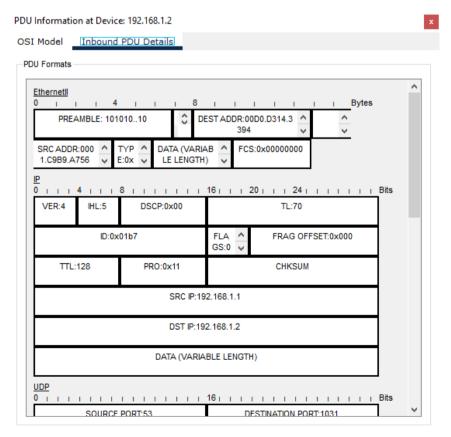




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- Click on 192.168.1.2(PC) and choose Desktop then choose web browser from it.
- Enter http://google in the URL textbox and click on Go.
- After some time output will be displayed.

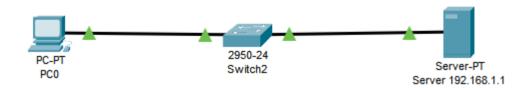




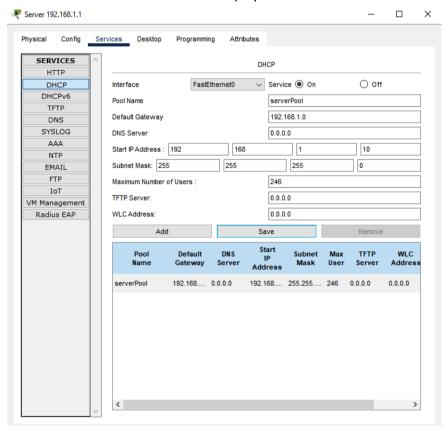
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DHCP(Dynamic Host Configuration Protocol):



- Make a network displayed as per the above image.
- Assign **192.168.1.1** IP Address to Server.
- Click on Server(192.168.1.1) and choose Services
- Now Choose **DHCP** from the left side.
- Now select the **On** radio button of Service as per the below image.
- Enter **Default Gateway, Start IP Address, Subnet Mask, and Maximum Number of Users** as per the below image.
- Click on the Add button.
- Your added serverPool will displayed below.



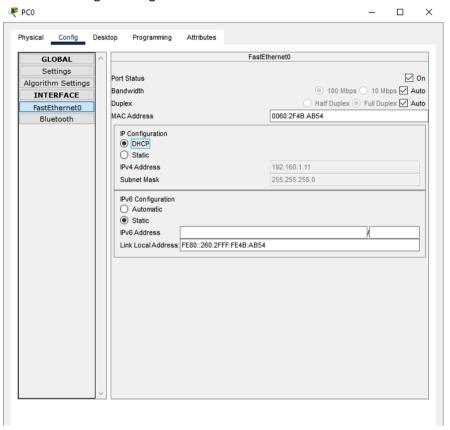
- Click on PCO and choose Config.
- Choose FastEthernet0 from the left side.

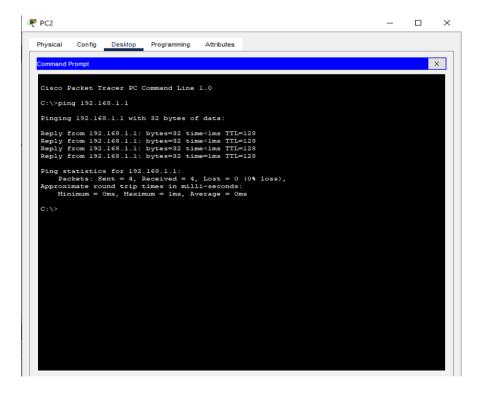


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• In the **IP Configuration tab** select **DHCP** after some time server will automatically assign the IP Address from a given range.

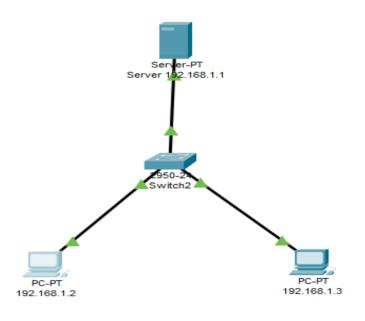


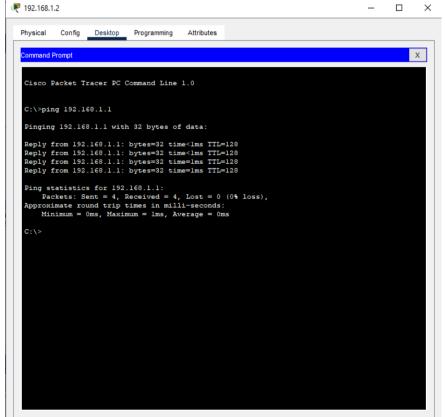


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FTP(File Transfer Protocol):

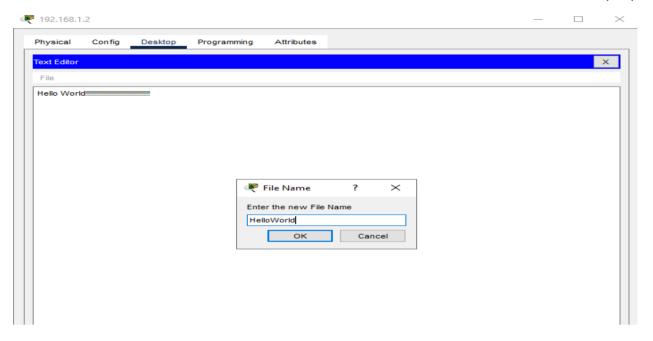




- Click on 192.168.1.2 choose desktop and select Text Editor
- Make new text file named "HelloWorld.txt"



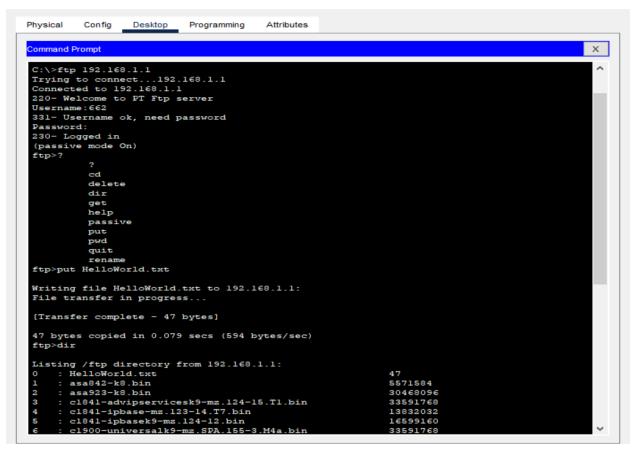
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- Now again click on **192.168.1.2** and choose **desktop** and select **Command Prompt**.
- Write ftp 192.168.1.1 in Command Prompt.
- Enter Username and Password.
- Write "?" to display all ftp related options.
- Now write "put HelloWorld.txt" to upload file on server.
- Now write "dir" to check file uploaded to server or not.



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- Write "quit" to close ftp service.
- Now click on 192.168.1.3 and choose desktop and select Command Prompt.
- Write ftp 192.168.1.1 in Command Prompt.
- Enter Username and Password.
- Write "get HelloWorld.txt" to download file from server.
- Write "quit" to close ftp service.
- Write "dir" to check required file downloaded or not.



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