Semester 5th | Practical Assignment | Computer Networks (2101CS501)

Date: 18/08/24

Lab Practical #06:

Study the application layer protocol DNS, DHCP, FTP.

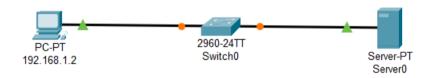
Practical Assignment #06:

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

Instructions:

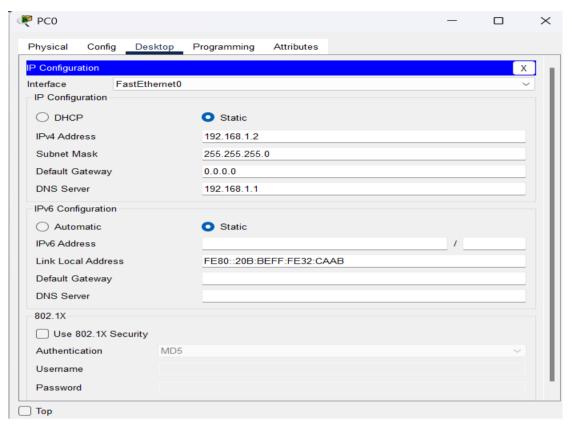
- 1. Protocol-wise configuration setup screenshot.
- 2. Mention IP address of each pc as label.
- 3. Ping command or PDU screenshot between two pcs.

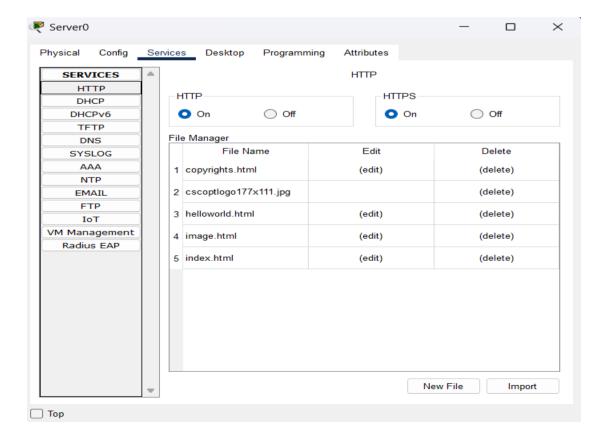
1->> DNS:





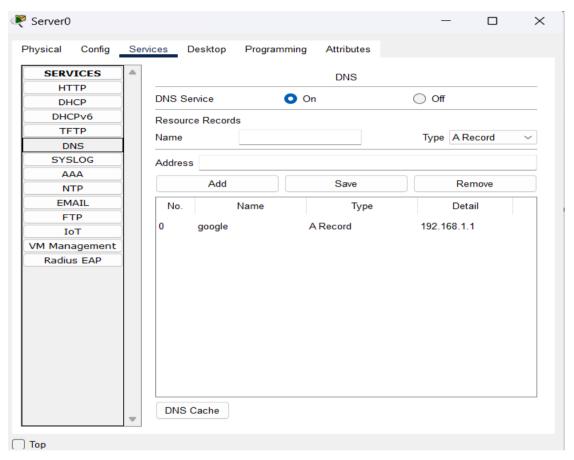
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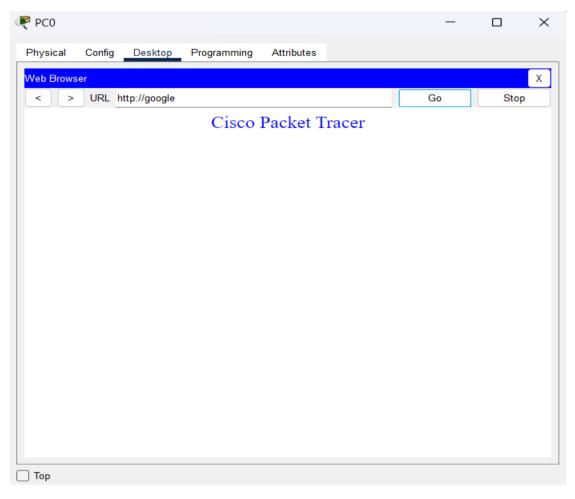


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Steps:-

- Add One PC, One Switch, One Server.
- Connect the devices.
- Assign an IP address(192.168.1.1) in server.
- On Http and Https on button in Http in services.
- Turn on the DNS Service by clicking the On button.
- Add a DNS record like Name: google, Address: 192.168.1.1
- Assign an IP address(192.168.1.2), subnet mask(255.255.255.0), and DNS server(192.168.1.1) address.
- In PCO, go to the Desktop tab.
- Open the Web Browser.

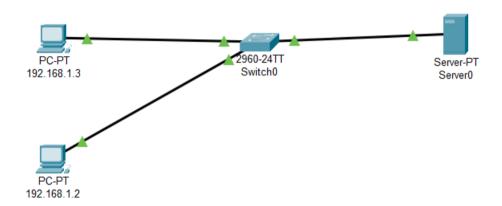


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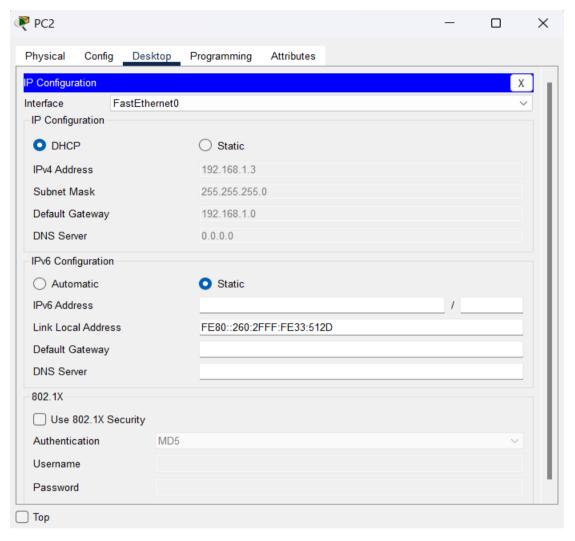
- Enter http://google in the URL field and click Go.
- The web browser should attempt to connect to 192.168.1.1.

2->>DHCP:



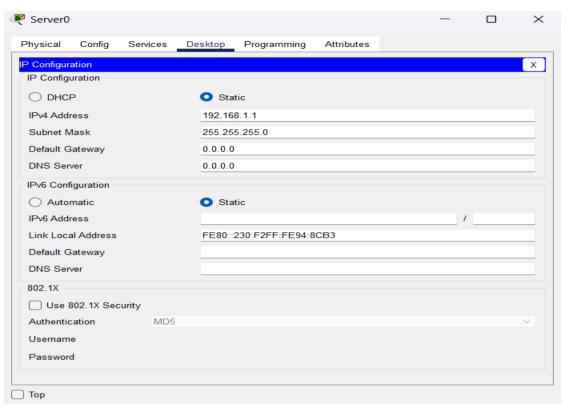


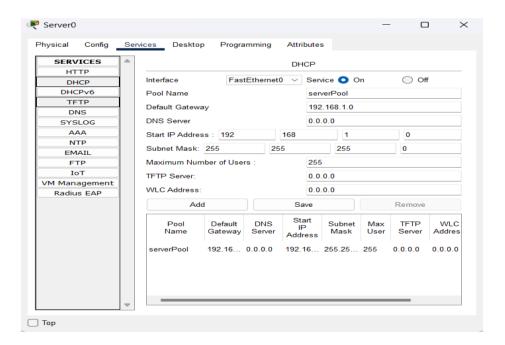
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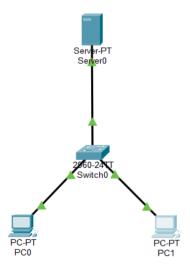
Steps:-

- Add Two PC, One Switch, One Server.
- Connect the devices.
- Turn on the DHCP Service by clicking the On button.
- Pool Name: serverPool, Default Gateway: 192.168.1.1, DNS Server: 192.168.1.1,

Start IP Address: 192.168.1.2, Subnet Mask: 255.255.255.0.

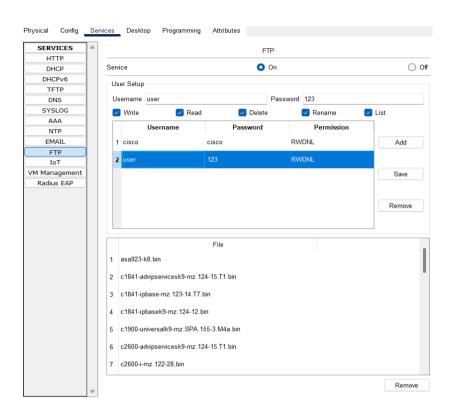
- Click Add to save the DHCP pool configuration.
- Turn on the DHCP desktop and configure IPaddress to static.
- Configure the PCs , Set the IP configuration to DHCP.

3->>FTP:





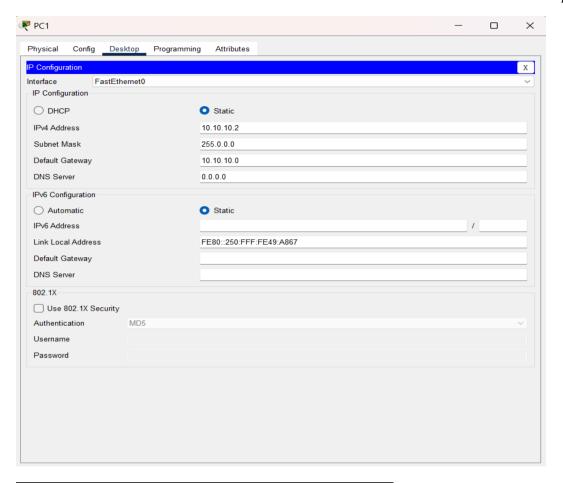
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```
C:\>ftp 10.10.10.0
Trying to connect...10.10.10.0
Connected to 10.10.10.0
220- Welcome to PT Ftp server
Username:user
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
```



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```
ftp>put ducn.html
Writing file ducn.html to 10.10.10.0:
File transfer in progress...
[Transfer complete - 20 bytes]
20 bytes copied in 0.043 secs (465 bytes/sec)
ftp>
```

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Steps:-

- Add Two PC, One Switch, One Router, One Server.
- Connect the devices.
- Assign IPaddress (10.10.10.0) in sever.
- Turn on the FTP Service by clicking the On button.
- Configure username(cisco 1) and password (text) and allow permission and click add button.
- Now one text file(hello.txt) created in text editor in desktop.
- Now open command prompt in desktop in server.
- Write ftp IPaddress (10.10.10.0) after enter username and password.
- After login write dir to check filename.
- Assign ipaddress(10.10.10.20), subnetmask(255.255.255.0), default gateway(10.10.10.0) in client.
- Now open command prompt in desktop in client.
- Write ftp IPaddress after enter username and password.
- Now write get textfilename.