

Computer Networks (Design Network of Case Study)

Assignment # 02

Section-S

Due: April 02, 2023

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Course Instructor

Computer Networks

CS-3001

Group Members:

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20i-2465

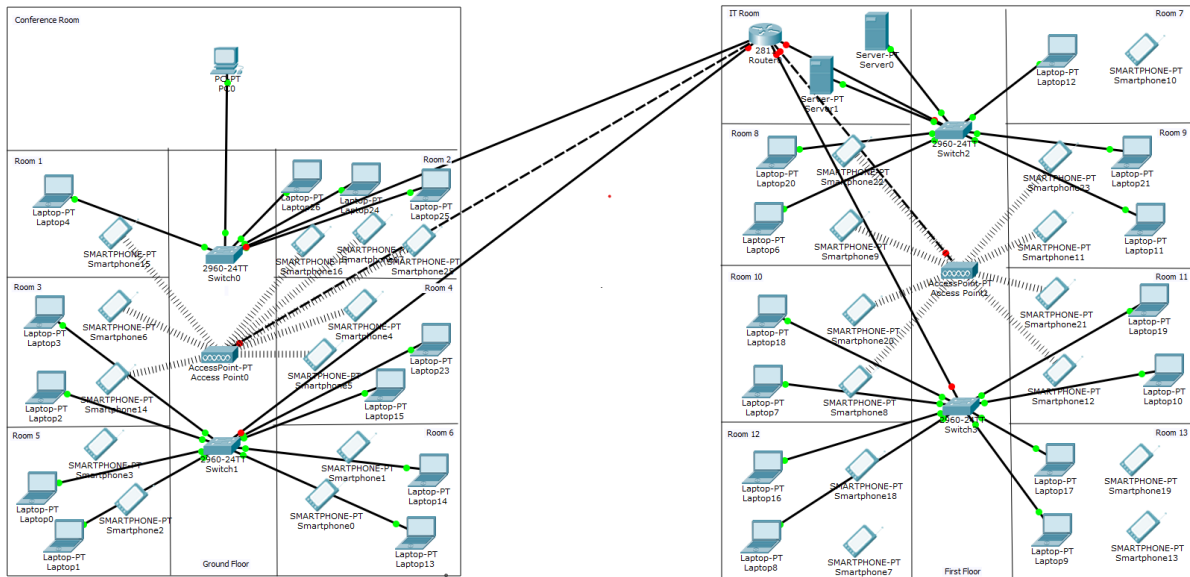
Ans Zeeshan

20i-0543

Assignment # 02

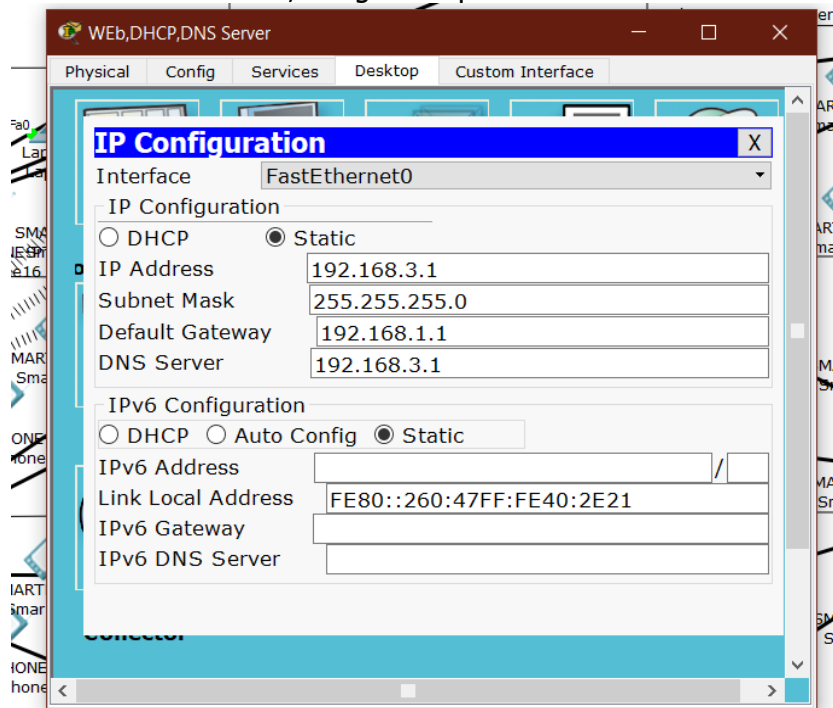
Network Design of previous case study:

Network Diagram of 25 Employees are:

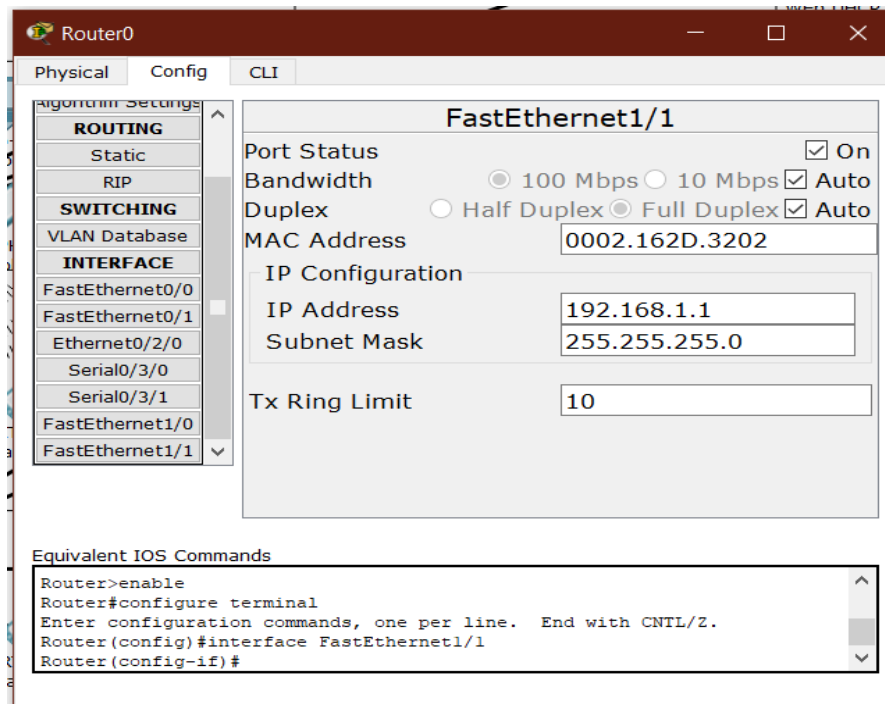


Task-1(DHCP):

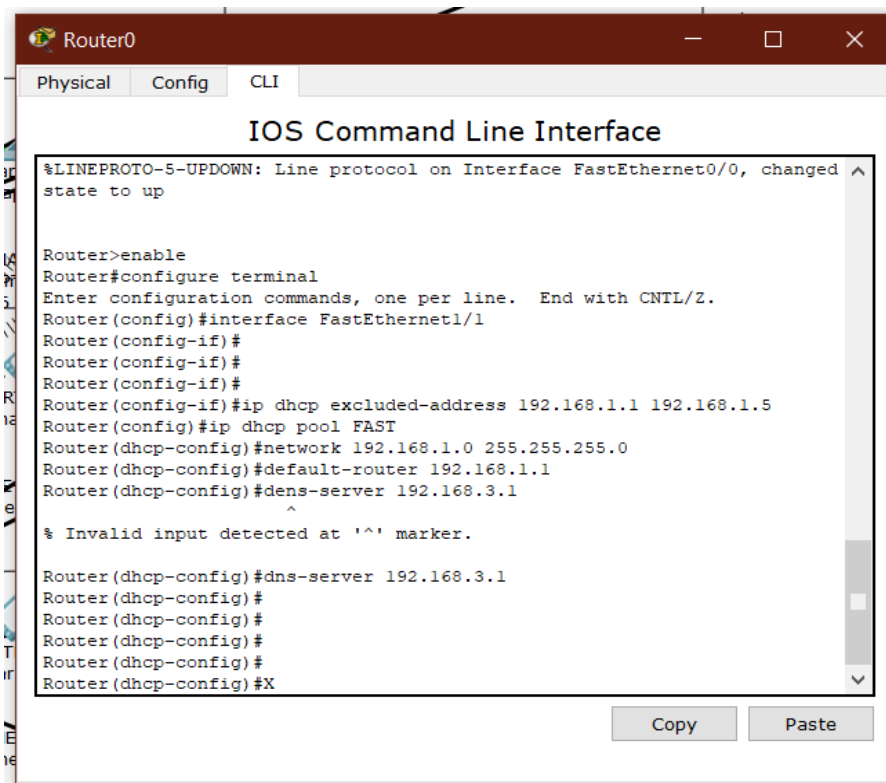
To apply the DHCP in the network, assign the Ip to the server.



Now assigning the ip to the router, that is attached with the switch with such interface.



After assigning the ip to the router, now perform the dhcp using these commands.



After performing commands to both interfaces on which the switches are connected with routers. Now, Add pools in the server, to do dhcp.

WEb,DHCP,DNS Server

Physical Config Services Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address : 192 168 3 0

Subnet Mask: 255 255 255 0

Maximum number of Users : 512

TFTP Server: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server
Switch2	192.168.1.1	192.168.1.1	192.168.1.5	255.255.255.0	251	0.0.0.0
Switch0	192.168.2.1	192.168.2.1	192.168.2.5	255.255.255.0	251	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.168.3.0	255.255.255.0	512	0.0.0.0

After this, the DHCP request is successful to all the Pc's, Laptop and servers.

Laptop26

Physical Config Desktop Custom Interface

IP Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.2.11

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server: 192.168.3.1

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

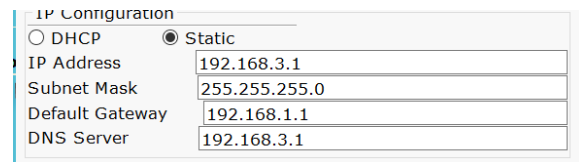
Link Local Address: FE80::290:2BFF:FECA:4363

IPv6 Gateway:

IPv6 DNS Server:

Task-2(DNS):

To apply the DNS in the network, assign the DNS-Server Ip to the server.



IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.3.1

Subnet Mask: 255.255.255.0

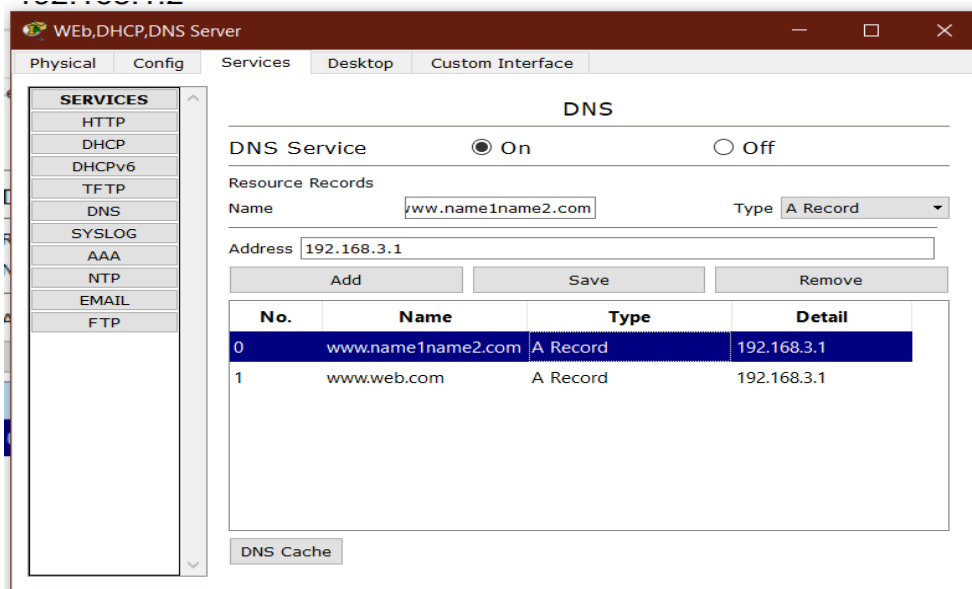
Default Gateway: 192.168.1.1

DNS Server: 192.168.3.1

Now, adding the host name to the server with his ip, so that we can have easily access from all the pc's and laptop, to view the server data.

Host Name: www.name1name2.com

IP address: 192.168.3.1



Web, DHCP, DNS Server

Physical Config Services Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

DNS

DNS Service ☒ On ☐ Off

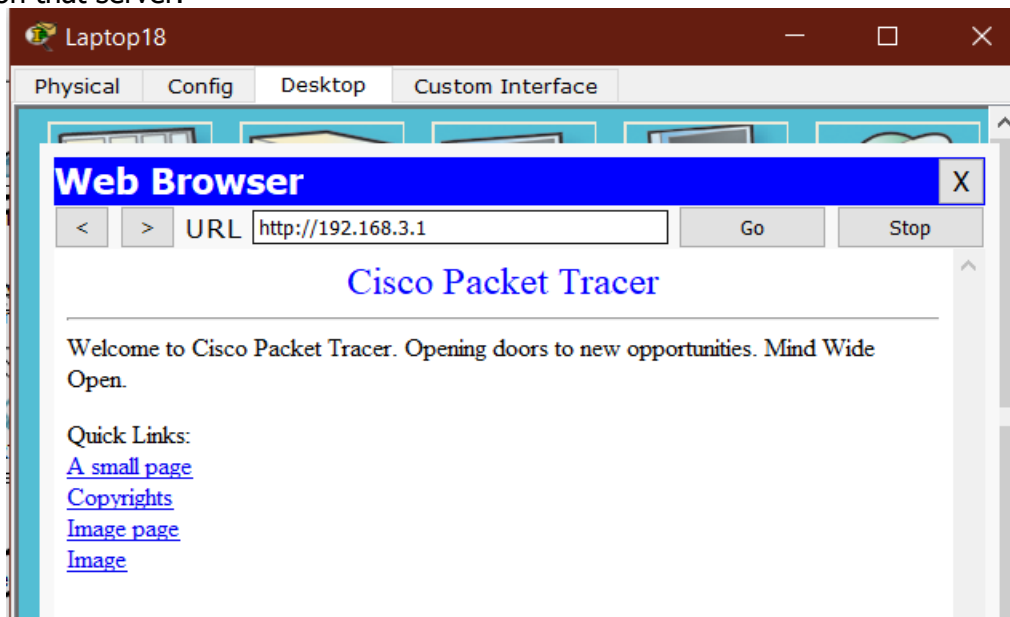
Resource Records

Name: Type:

Address:

No.	Name	Type	Detail
0	www.name1name2.com	A Record	192.168.3.1
1	www.web.com	A Record	192.168.3.1

We have accessed the web server through the domain-server ip address. We can see all the data present on that server.



Laptop18

Physical Config Desktop Custom Interface

Web Browser

< > URL

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

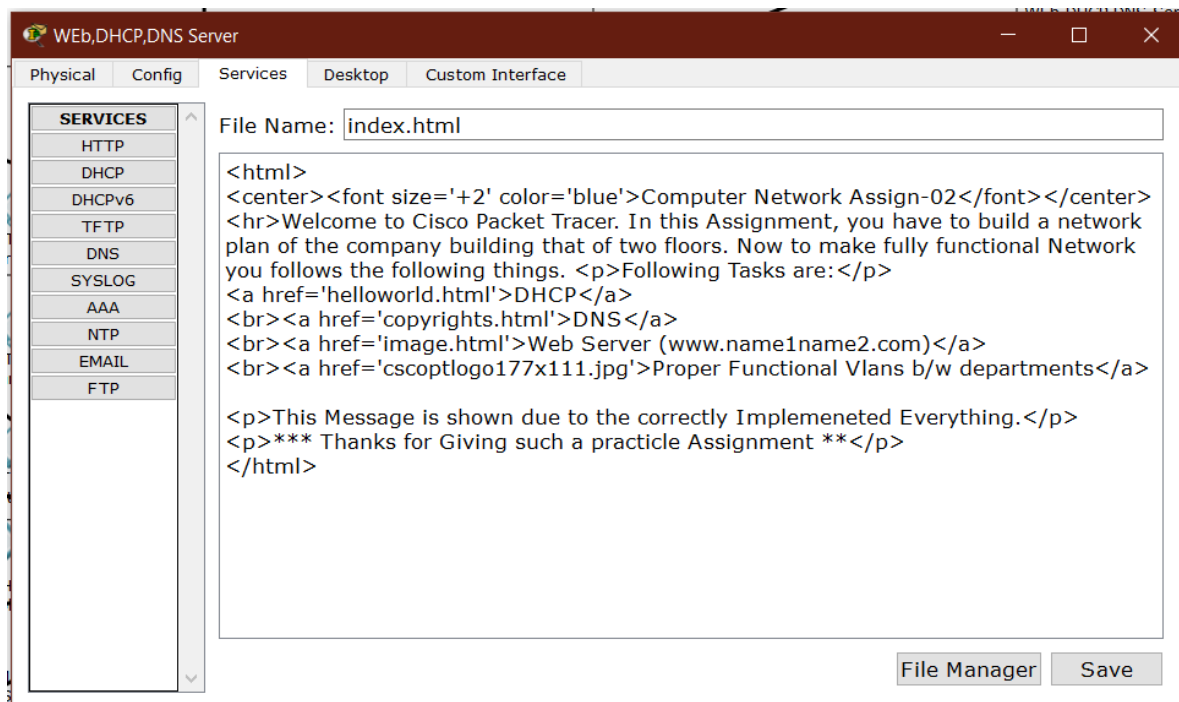
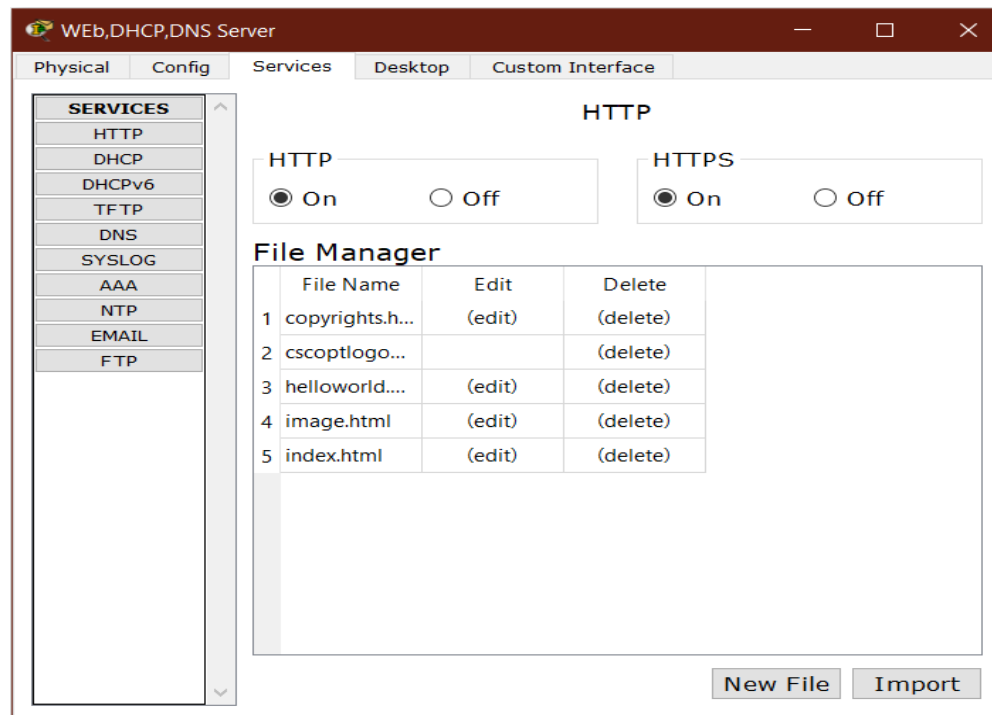
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Task-3(Web Server):

Now, as above we assign the host ip as an domain name of that ip, which is so far called server name.

www.name1name2.com is the server name that we can access from every pc to get its data.





Task-4(Vlan between different departments):

