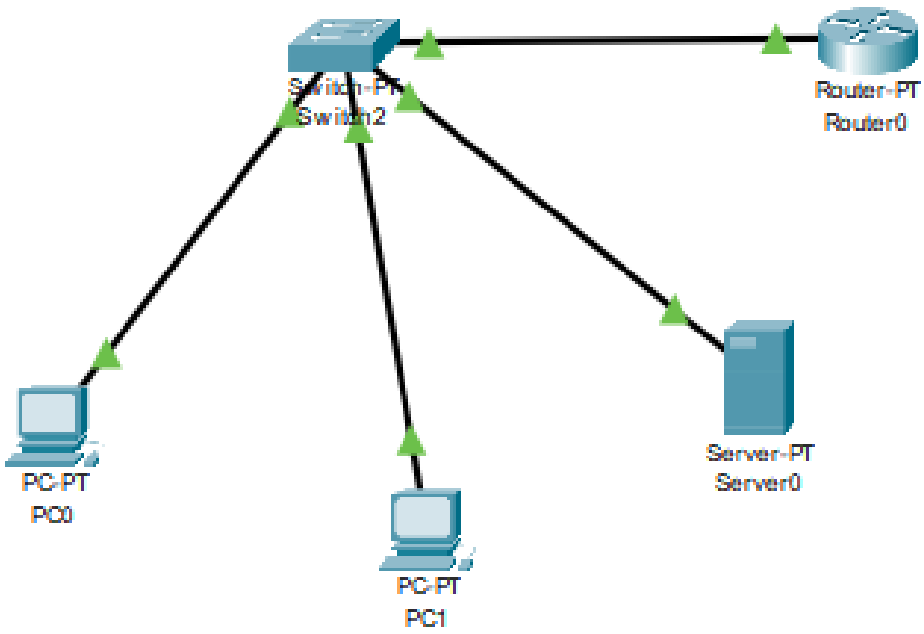
Lab-5

5A)AIM:to config IP addresses of host using DHCP server present within same LAN

Daigram->



DHCP->

DHCP

Interface FastEthernet0 Service On Off

Pool Name serverPool

Default Gateway 10.0.0.2

DNS Server 10.0.0.1

Start IP Address : 10 0 0 0

Subnet Mask: 255 0 0 0

Maximum Number of Users : 512

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	10.0.0.2	10.0.0.1	10.0.0.0	255.0.0.0	512	0.0.0.0	0.0.0.0

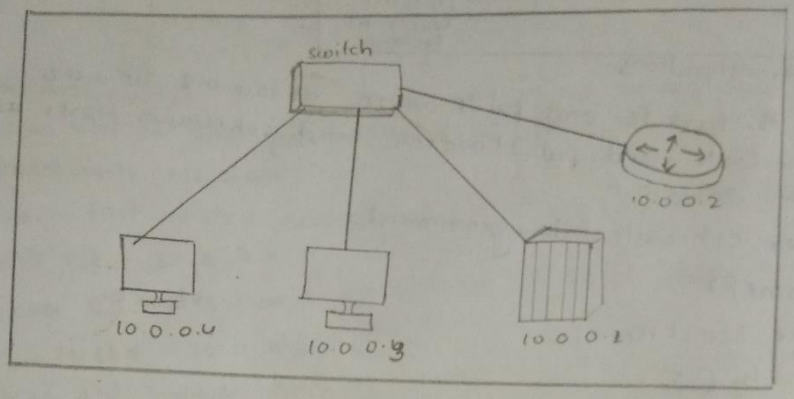
Observation:=

Lab-05

AIM:-) Configure IP address of the host using DHCP server present with in the LAN

2) Configue I/p address of the host using DHCP server present in Different LAN

1a)



1a) * click on first Router In fastEthernet 0/0 Enter IP address as 10.0.0.2 and Subnet Masks as 255.0.0.0 and DNS server = 10.0.0.1

* Click on server and IP address should be - 10.0.0.1 and Subnet Masks as 255.0.0.0, getway - 10.0.0.2 and DNS server as 10.0.0.1 } both IMP

* and in Server and in Services click on DHCP and add services like

Pool NAME = serverpool
Default gateway IP address = 10.0.0.2
DNS server = 10.0.0.1 } ON server

start IP address = 10 and click on add Button

* go to the first PC1 and click on Desktop and IP address on then select DHCP etc

* Similar to the PC2

Output → Ping 10.0.0.3

Ping 10.0.0.3 with 32 bytes of Data

Reply from 10.0.0.3: Bytes = 32 time<1ms TTL = 128

" " " " "
" " " " "
" " " " "

Ping statistics for 10.0.0.3

Packets = sent = 4 Received = 4 lost = 0%.

Approximate round trip times in Milli Seconds

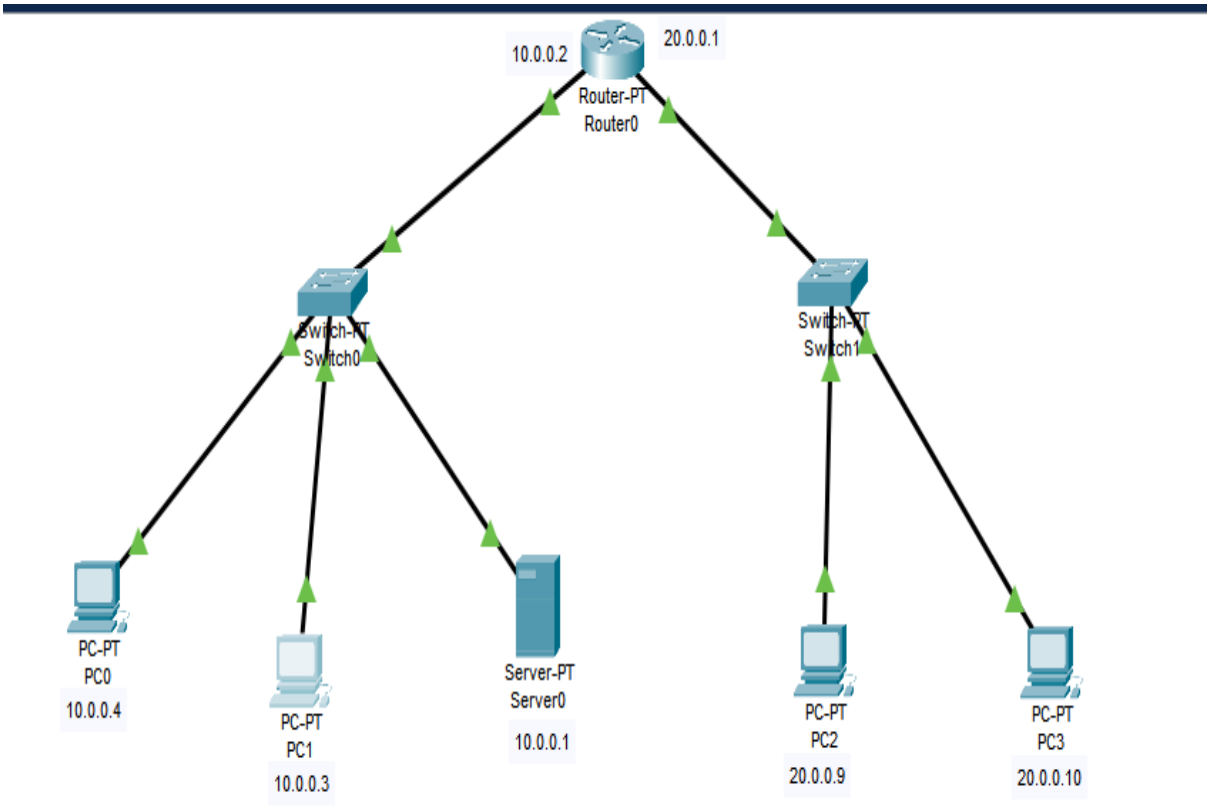
Minimum = 0ms Max = 0ms Avg = 0ms

2024.11.15 00:

OUTPUT:=

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

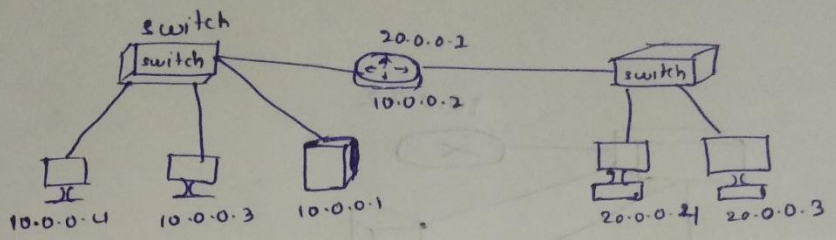
5B)AIM:to config IP addresses of host using DHCP server present within Different LAN



Observation:=

5b)

all process of first pictures will apply for this also here we add 1 switch, 2 pc's and 1 Router



* click on first ~~Server~~ Router and add the IPaddress as 20.0.0.1 and DNS server ~~255~~ 10.0.0.1 and Next hope 20.0.0.1, ~~000~~ subnet Marks 255.0.0.0

* Similar click server add DHCP services
~~Next hope~~ Pool Name = serverpool
Default I/p address = 20.0.0.1
DNS server = 10.0.0.1
and on the Server.

* click on first pc. on Desktop I/p address click on DHCP automatic filled I/p address, subnet, Default, DNS server
Similar to the PC2

O/p => ping 20.0.0.4
Ping 20.0.0.4 with 32 bytes of Data
Reply from 20.0.0.4 Bytes = 32 time < 1ms TTL = 125
" " " " " "
" " " " " "
" " " " " "

Ping statistics for 20.0.0.4
Packets = Sent = 4 Reved = 4 lost = 0%.
Approximate Round trip times in Milliseconds
Minimum = 0ms Max = 0ms Avg = 0ms

2024.11.15 00:46

DHCP

Interface FastEthernet0 Service On Off

Pool Name serverPool

Default Gateway 10.0.0.2

DNS Server 255.0.0.0

Start IP Address : 10 0 0 0

Subnet Mask: 255 0 0 0

Maximum Number of Users : 512

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	10.0.0.2	255.0.0.0	10.0.0.0	255.0.0.0	512	0.0.0.0	0.0.0.0
serverPool2	20.0.0.1	10.0.0.1	20.0.0.0	255.0.0.0	512	0.0.0.0	0.0.0.0

Output:=

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time<1ms TTL=128
Reply from 10.0.0.1: bytes=32 time<1ms TTL=128
Reply from 10.0.0.1: bytes=32 time<1ms TTL=128
Reply from 10.0.0.1: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time<1ms TTL=255
Reply from 10.0.0.2: bytes=32 time=1ms TTL=255
Reply from 10.0.0.2: bytes=32 time<1ms TTL=255
Reply from 10.0.0.2: bytes=32 time=21ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Reply from 10.0.0.2: bytes=32 time<1ms TTL=255
Reply from 10.0.0.2: bytes=32 time=1ms TTL=255
Reply from 10.0.0.2: bytes=32 time<1ms TTL=255
Reply from 10.0.0.2: bytes=32 time=21ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 21ms, Average = 5ms

C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=6ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time=14ms TTL=128
Reply from 10.0.0.3: bytes=32 time=11ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 14ms, Average = 7ms

C:\>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time<1ms TTL=255
Reply from 20.0.0.1: bytes=32 time=1ms TTL=255
Reply from 20.0.0.1: bytes=32 time=20ms TTL=255
Reply from 20.0.0.1: bytes=32 time=1ms TTL=255

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 20ms, Average = 5ms

C:\>ping 20.0.0.9
```

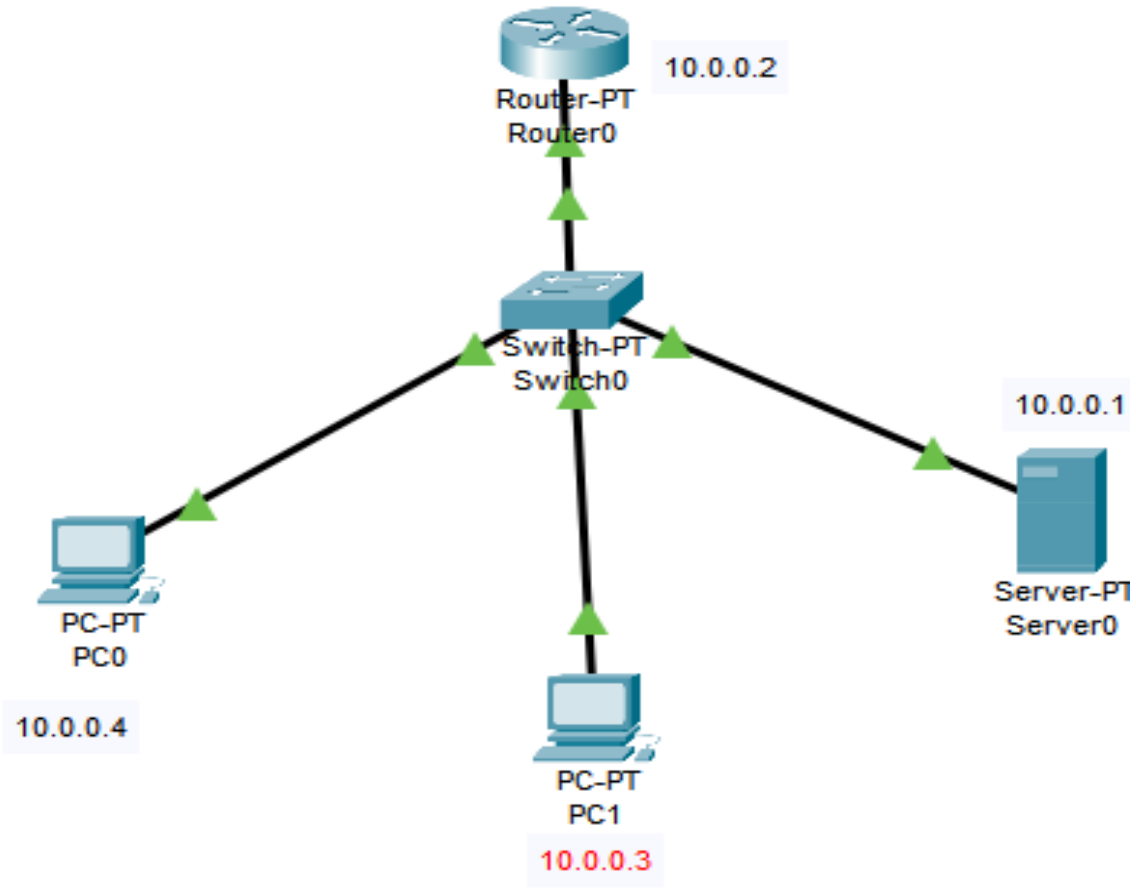
```
Pinging 20.0.0.9 with 32 bytes of data:

Reply from 20.0.0.9: bytes=32 time<1ms TTL=127
Reply from 20.0.0.9: bytes=32 time<1ms TTL=127
Reply from 20.0.0.9: bytes=32 time=1ms TTL=127
Reply from 20.0.0.9: bytes=32 time<1ms TTL=127

Ping statistics for 20.0.0.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 20.0.0.10
```

```
Pinging 20.0.0.10 with 32 bytes of data:

Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
```

```
C:\>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127
Reply from 20.0.0.10: bytes=32 time<1ms TTL=127

Ping statistics for 20.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

5C)- sending webpages using DNS server

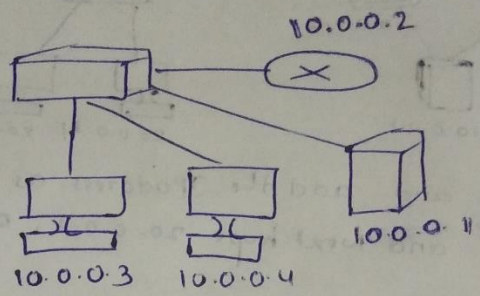
Daigram:=



Observation:=

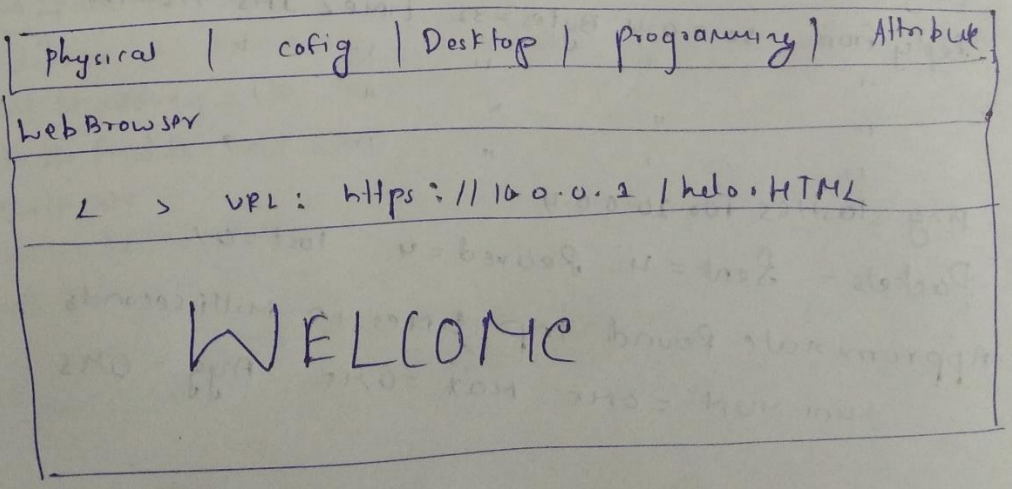
5c)

AIM) to config IP address of Host using DHCP server present outside same LAN

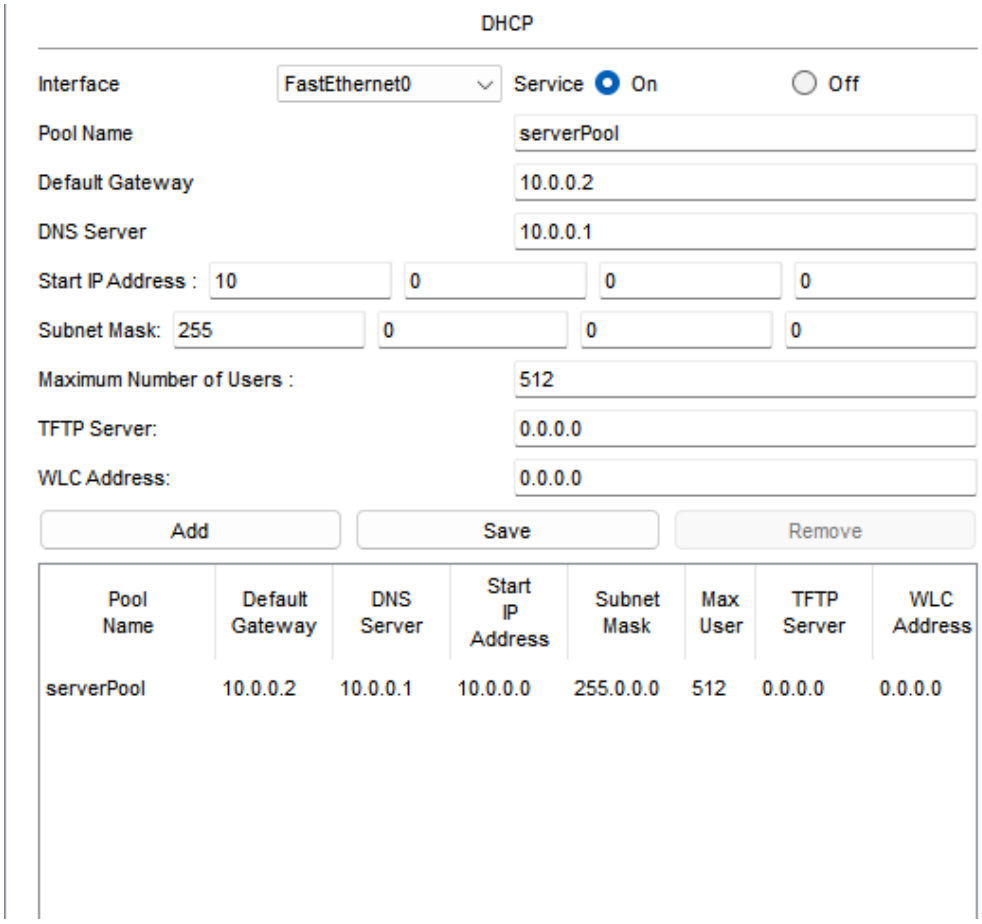


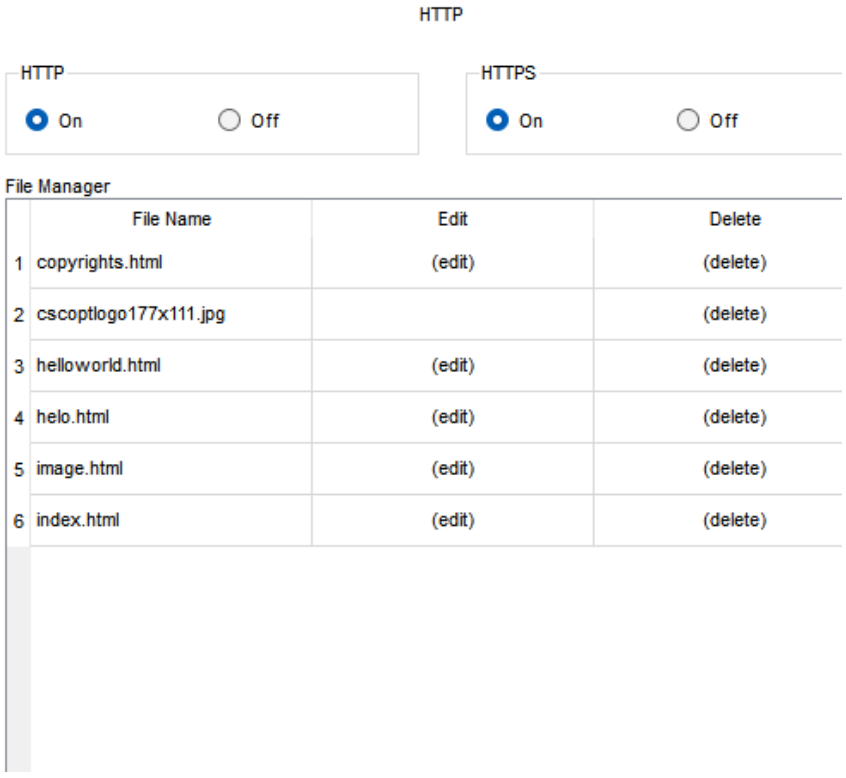
* Structure and assign IP address similar to the SA.
* here we accessing webpages
* go to then server1
* In HTTP create HTML file click on New button
* write code and save (Hello.HTML) go to the file Manage
* go to the pc1 and Destop of the pc1 click on the browser option
* In that top side write 10.0.0.1/Hello.HTML Now It shows output

o/p →



2024.11.15 00


DHCP
Interface
FastEthernet0
Service
On
Off
Pool Name
serverPool
Default Gateway
10.0.0.2
DNS Server
10.0.0.1
Start IP Address :
10
0
0
0
Subnet Mask:
255
0
0
0
Maximum Number of Users :
512
TFTP Server:
0.0.0.0
WLC Address:
0.0.0.0
Add
Save
Remove
Pool Name
Default Gateway
DNS Server
Start IP Address
Subnet Mask
Max User
TFTP Server
WLC Address
serverPool
10.0.0.2
10.0.0.1
10.0.0.0
255.0.0.0
512
0.0.0.0
0.0.0.0


HTTP
HTTP
On
Off
HTTPS
On
Off
File Manager
File Name
Edit
Delete
1 copyrights.html (edit) (delete)
2 cscoptlogo177x111.jpg (delete)
3 helloworld.html (edit) (delete)
4 helo.html (edit) (delete)
5 image.html (edit) (delete)
6 index.html (edit) (delete)

Output:=

```
<html>
<head>
<title>hi</title>
<h1>welcome</h1>
</head>
</html>
```

File Manager Save