ABHISHEK SHARMA
CS 2ND YEAR
SECTION : "I"
ROLL NO.: 01
ENROLLMENT NO.: 12019009001127

COMPUTER NETWORKS LAB 8

WEEK : 8

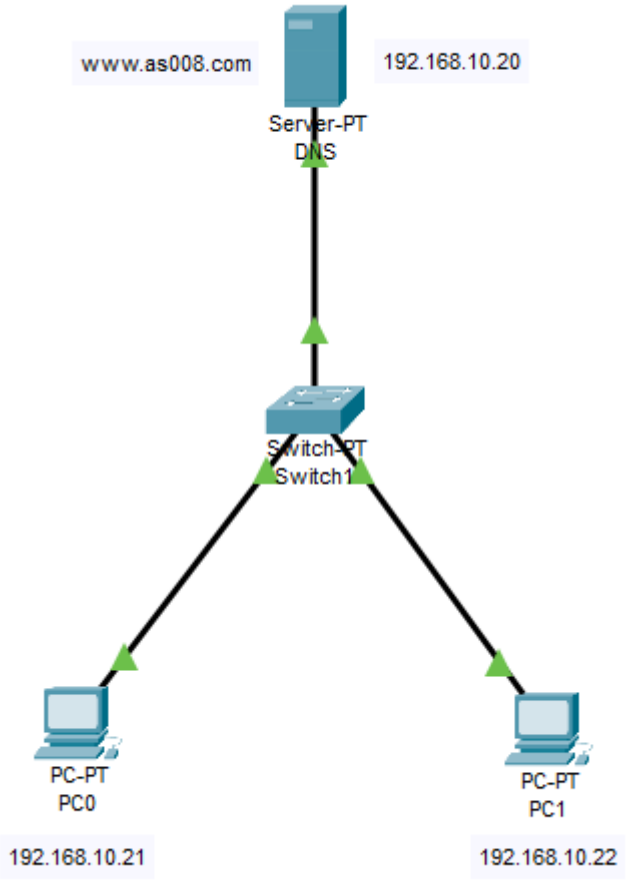
ASSIGNMENT : 8

Experiment 7 & 8

PLATFORM USED : CISCO PACKET TRACER 7.2
DATE : 01.04.2021

UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Q1. Configure the DNS Server using Packet Tracer Software.

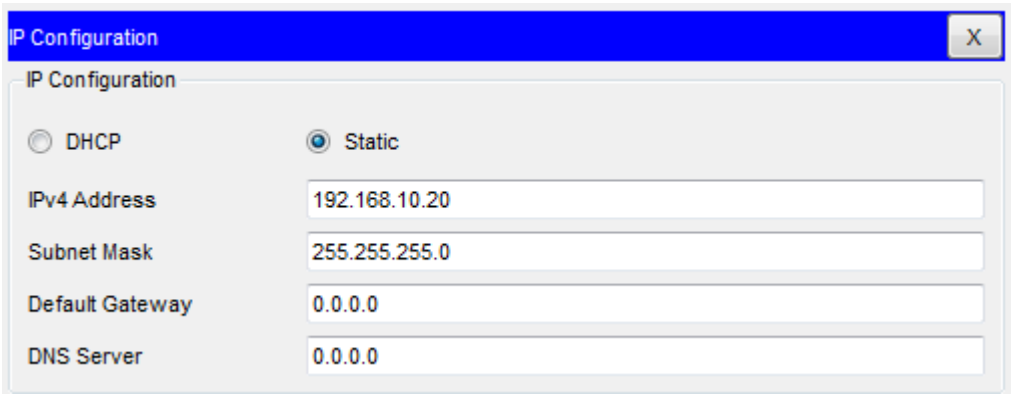


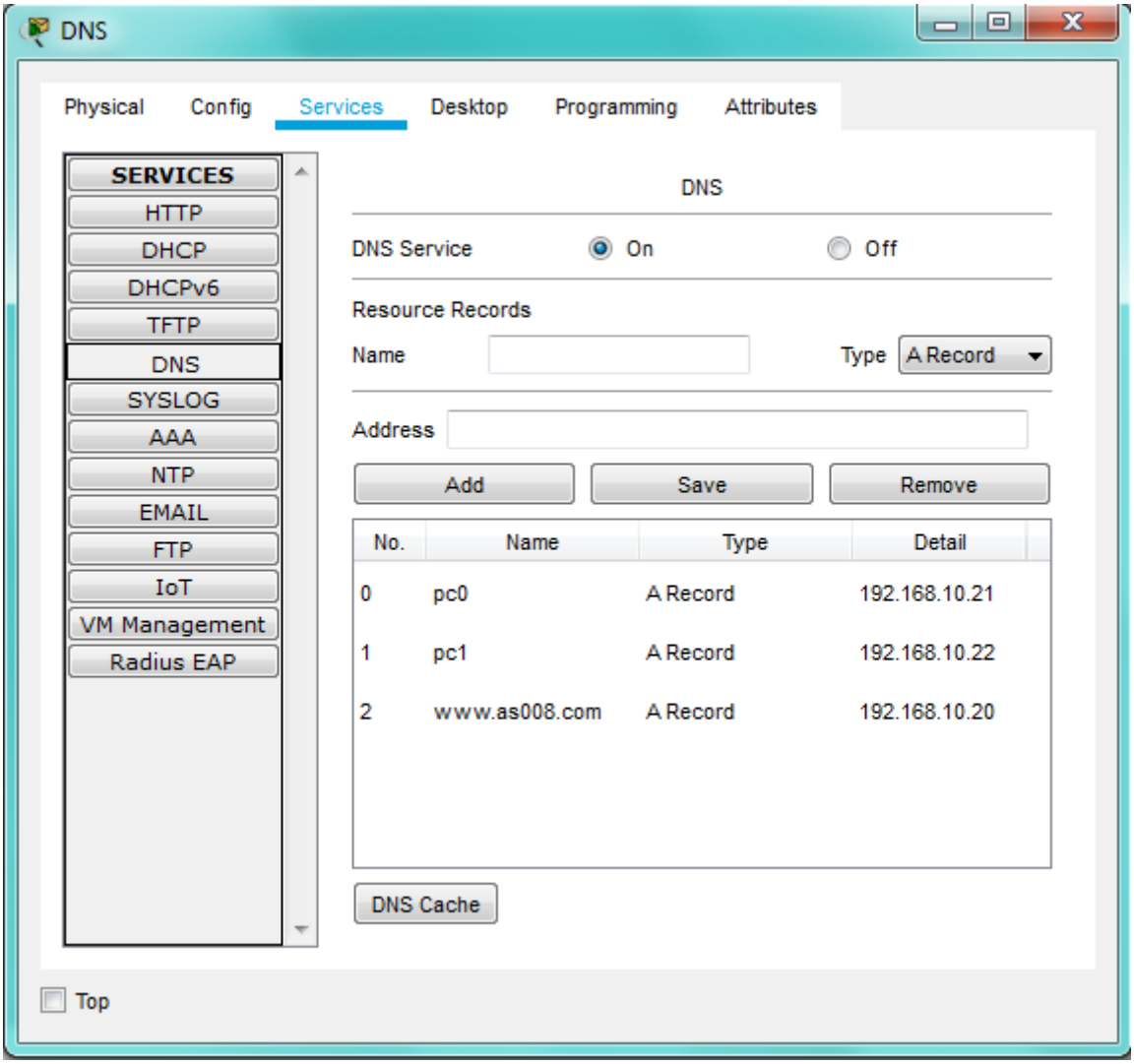
IP address for PC0 : 192.168.10.21
IP address for PC1 : 192.168.10.22
IP address for DNS server : 192.168.10.20
Subnet mask : 255.255.255.0

By providing the domain name we can easily contact the server by using the domain name instead of the IP address.

Same goes to PC0 and PC1, we have renamed the end devices with their IP addresses and contact with both of them using the domain name.

Naming the server using a server name and domain name and also configuring the server with its IP address :





Checking the ping command from PC0 :

```
C:\>ping www.as008.com

Pinging 192.168.10.20 with 32 bytes of data:

Reply from 192.168.10.20: bytes=32 time=11ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 11ms, Average = 2ms

C:\>ping pc1

Pinging 192.168.10.22 with 32 bytes of data:

Reply from 192.168.10.22: bytes=32 time=10ms TTL=128
Reply from 192.168.10.22: bytes=32 time<1ms TTL=128
Reply from 192.168.10.22: bytes=32 time<1ms TTL=128
Reply from 192.168.10.22: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 2ms
```

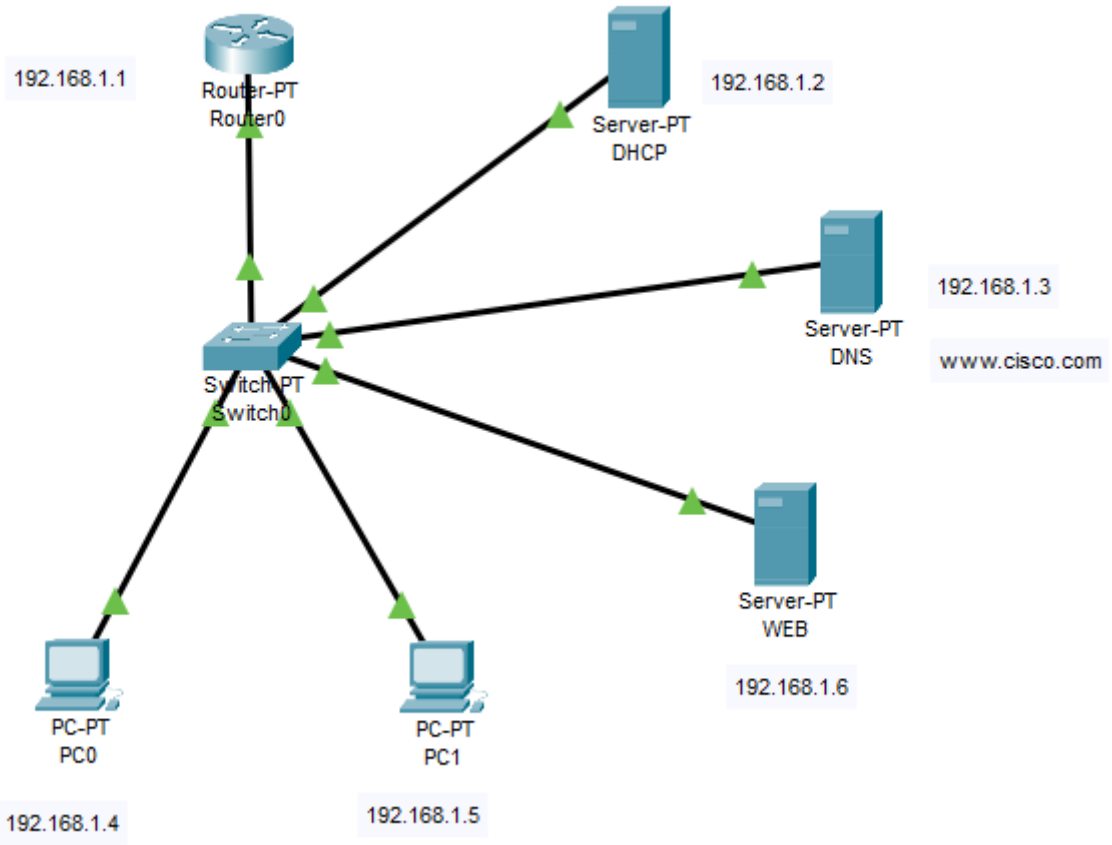
Sending the PDU for checking the successful simulation :

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC1	PC0	ICMP		0.000	N	1	(edit)	(delete)

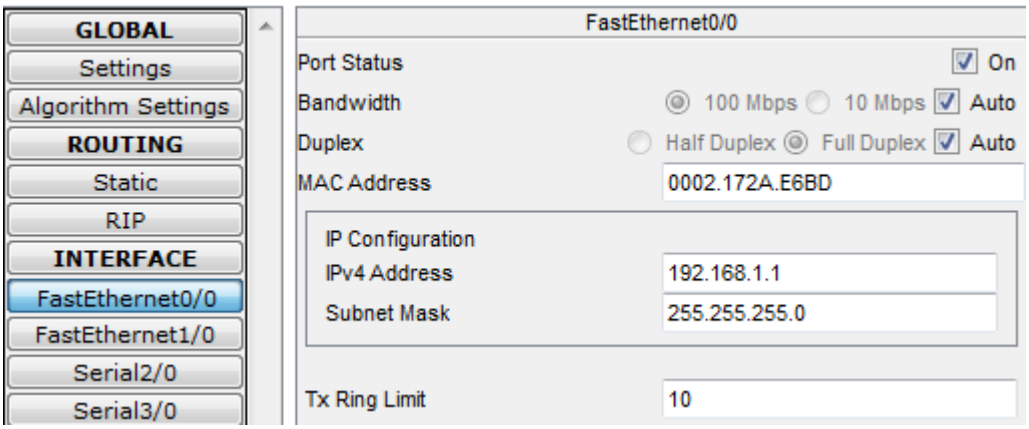
Conclusion :

The DNS server is deployed successfully and also the simulation is done correctly by checking the PDU status and it shows "Successful".

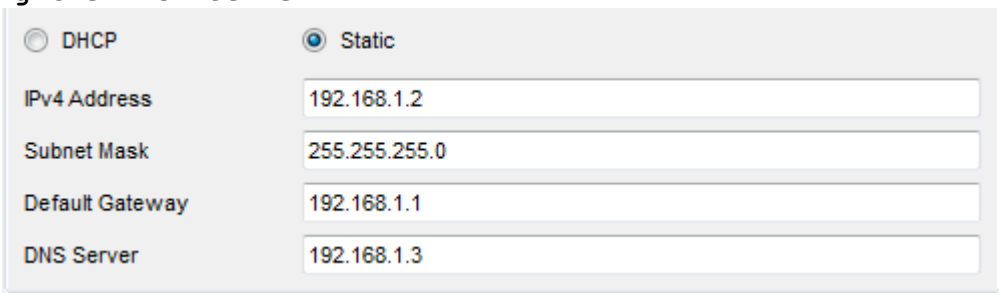
Q2. Configure Web-server using the Cisco Packet Tracer.

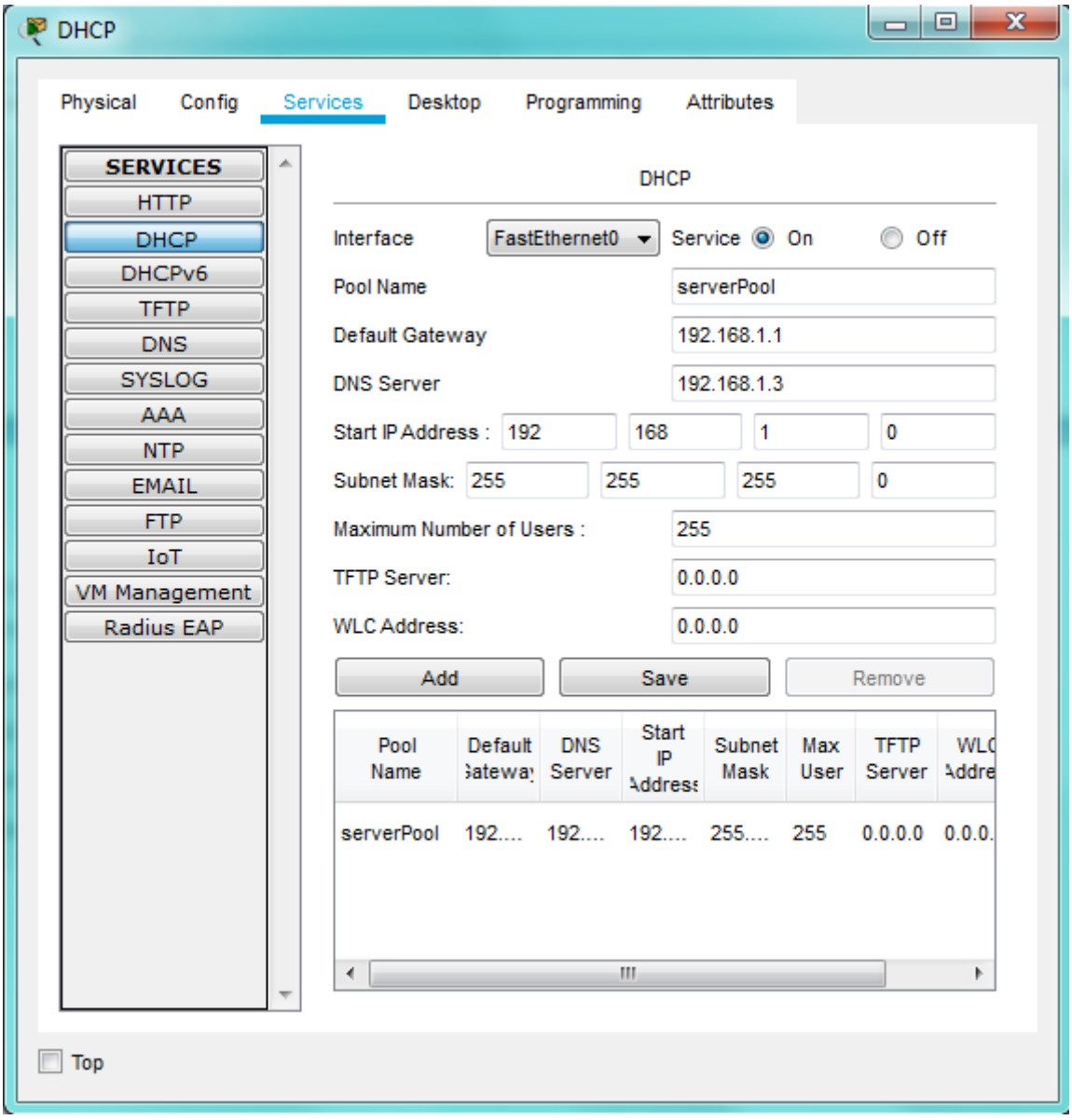


Configuring the router :

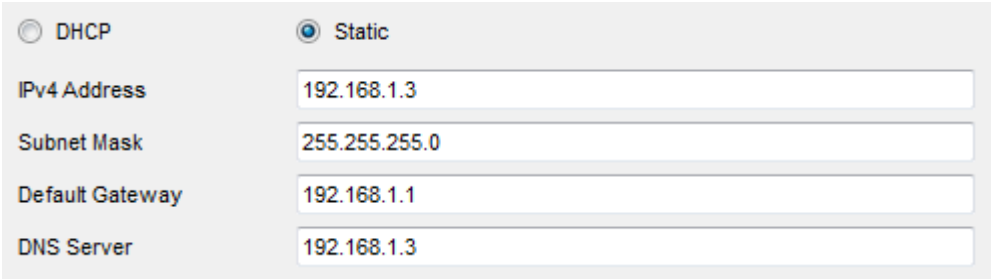


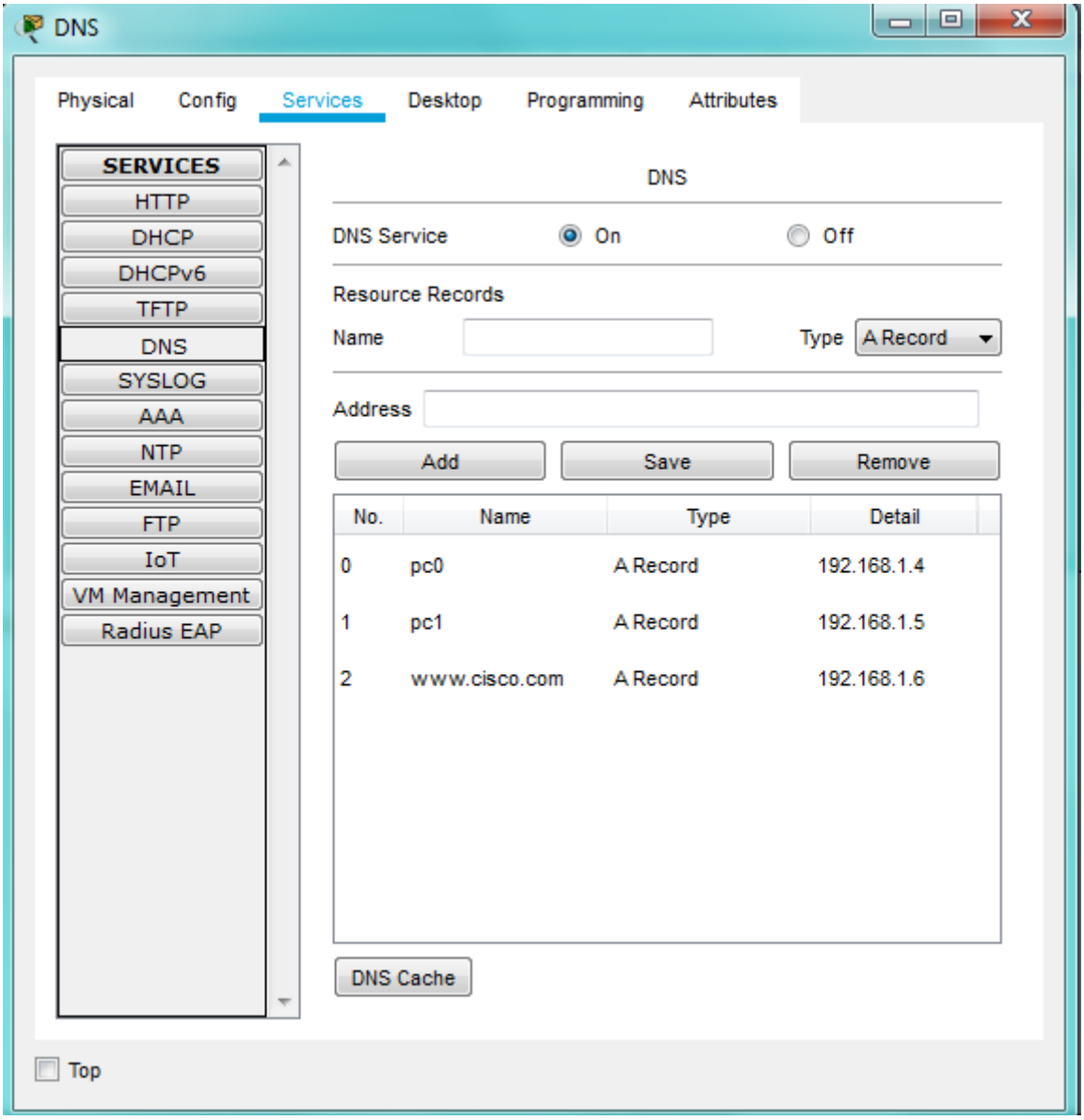
Configuring the DHCP server :





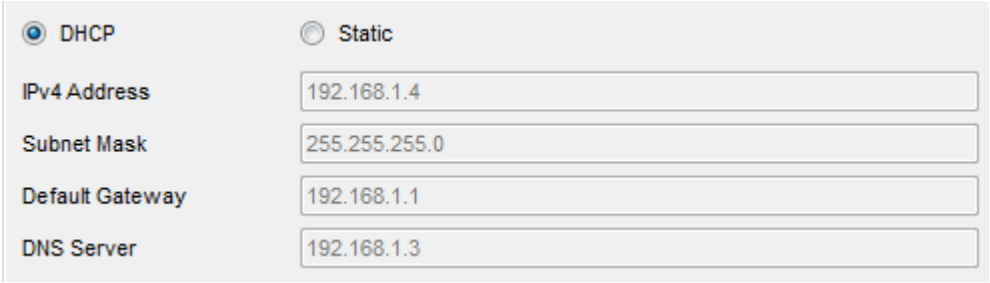
Configuring the DNS server :



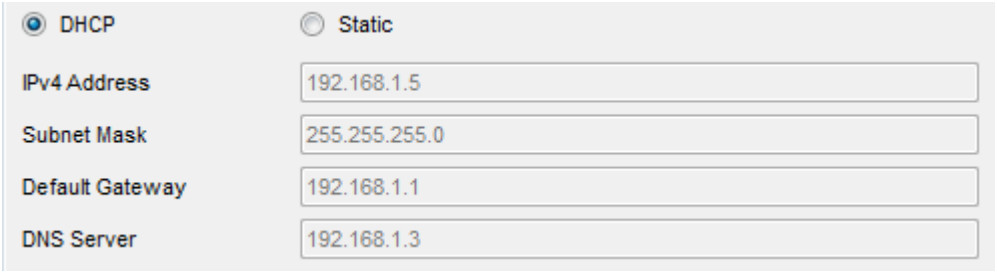


Getting the IPs for PC0 and PC1 using the DHCP :

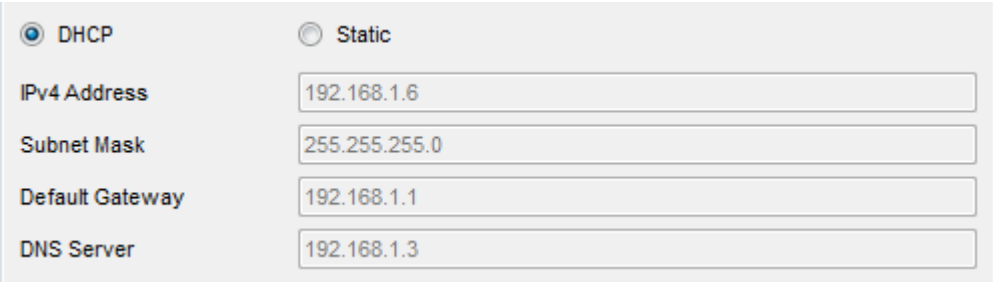
PC0 :



PC1 :



Getting the IP of the web server using the DHCP :



Now checking the website is working properly using the web browser of the PC1 through web server :

Conclusion :

The web server is deployed successfully, and it is working properly.

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