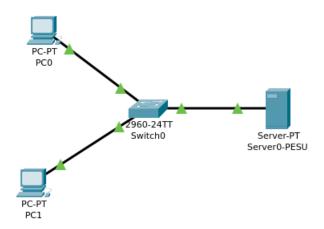
Lab #4 Implementation of a Local DNS Server using Cisco Packet Tracer

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Task 1 (Demo)

Network Topology:

To replicate given scenario, create a topology in packet tracer, as shown in following image.



PC & Router Configuration Details:

Here along with the IP we'll assign the DNS server address to let the PC know about its Local DNS Server

PC0	IP - 192.168.1.2
	DNS
	192.168.1.1
PC1	IP - 192.168.1.3
	DNS -
	192.168.1.1
Server	IP - 192.168.1.1
	DNS -
	192.168.1.1

Name = PESU IP= 192.168.1.1 ADD Click on other PC1- 192.168.1.3 Command Prompt \$Ping- 192.168.1.2

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=lms TTL=128

Ping statistics for 192.168.1.2:

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

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

\$Ping-PESU1

```
C:\ping pesul Ping request could not find host pesul. Please check the name and try again. C:\
```

Click on the server- services-DNS – DNS service =on

Name = PESU1 IP= 192.168.1.2 ADD

Click on other PC1- 192.168.1.3□ Command Prompt \$Ping- PESU1

```
C:\>ping pesul

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=11ms TTL=128

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

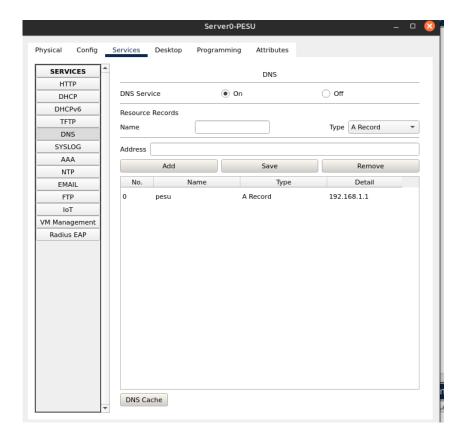
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

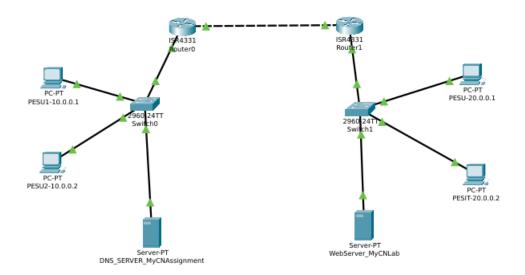
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 11ms, Average = 3ms
```

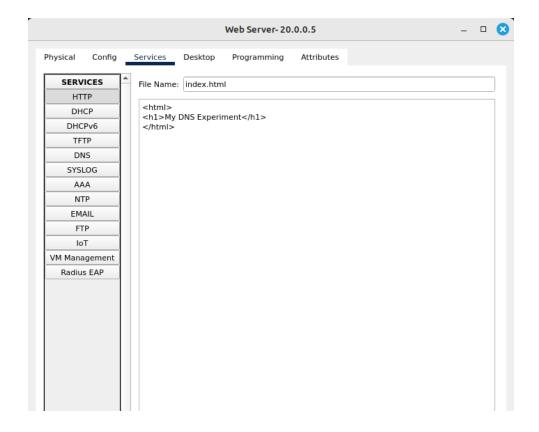


Task 2 (Mandatory)

Students should create the given topology and get the successful ping by adding entries in the DNS Server. Also students should be able to access the web server.



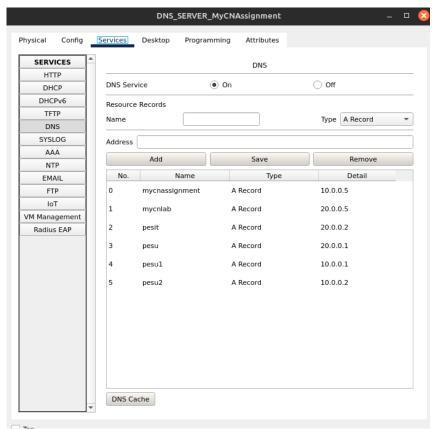
Click on Web Server-Services- HTTP -->Index.html □edit.



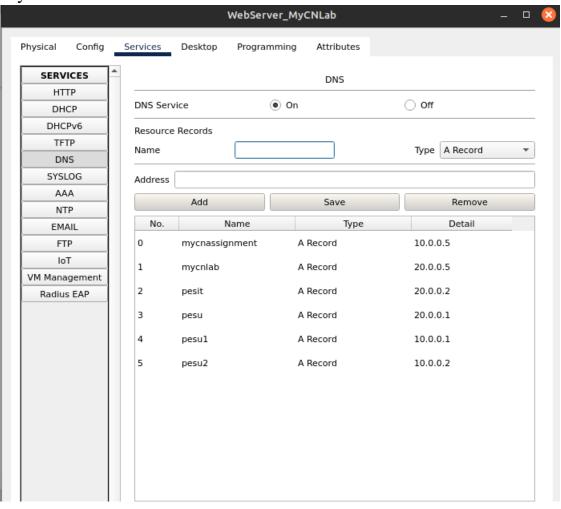
Save. (Overwrite= yes)

Screenshots of the entries in DNS server

MyCNAssignment



MyCnLab



Pinging Of Various Systems From PC1

```
C:\>ping pesu2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
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 = 0ms, Average = 0ms
C:\>ping pesu
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.1: bytes=32 time<1ms TTL=126
Reply from 20.0.0.1: bytes=32 time<1ms TTL=126
Reply from 20.0.0.1: bytes=32 time<1ms TTL=126
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping pesit
Pinging 20.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.2: bytes=32 time<1ms TTL=126
Reply from 20.0.0.2: bytes=32 time<1ms TTL=126
Reply from 20.0.0.2: bytes=32 time<1ms TTL=126
Ping statistics for 20.0.0.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms
  C:\>ping mycnlab
  Pinging 20.0.0.5 with 32 bytes of data:
 Reply from 20.0.0.5: bytes=32 time<1ms TTL=126
Reply from 20.0.0.5: bytes=32 time<1ms TTL=126
  Reply from 20.0.0.5: bytes=32 time=14ms TTL=126 Reply from 20.0.0.5: bytes=32 time<1ms TTL=126
  Ping statistics for 20.0.0.5:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 3ms
  C:\>ping mycnassignment
  Pinging 10.0.0.5 with 32 bytes of data:
  Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
 Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
  Ping statistics for 10.0.0.5:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Webpages:

