



Date: 18 / 07 / 2025

Lab Practical #07:

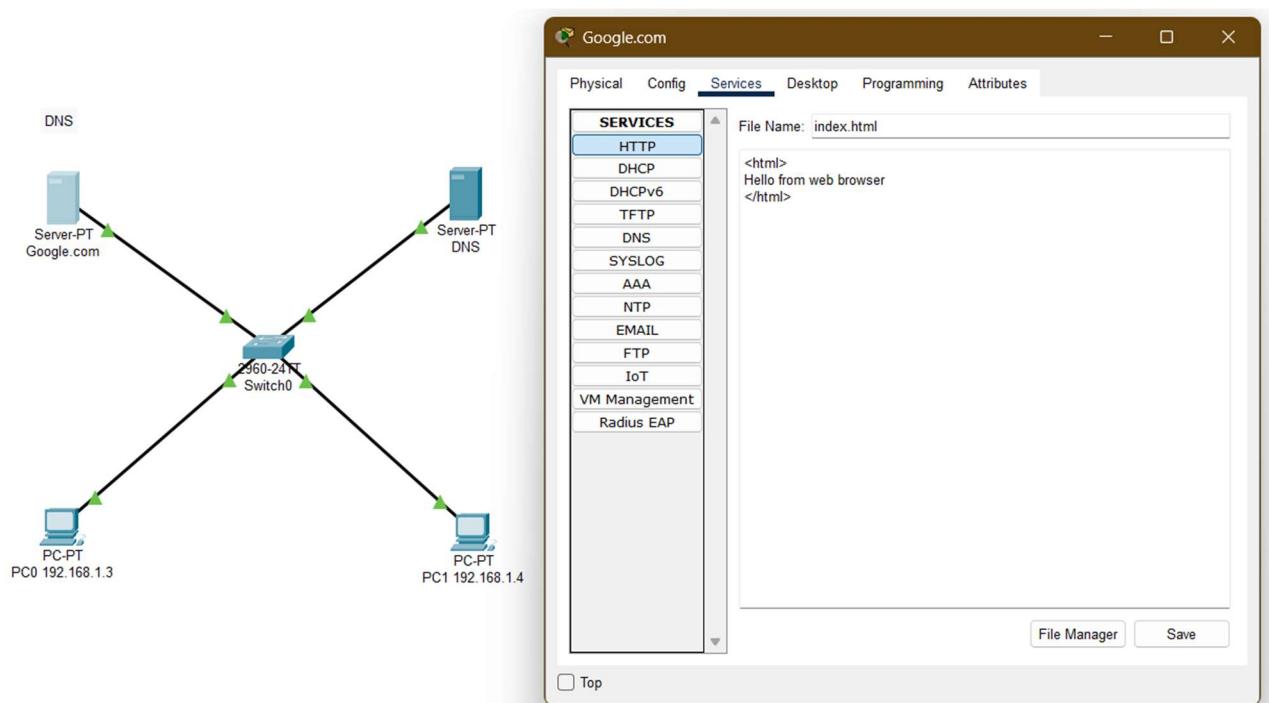
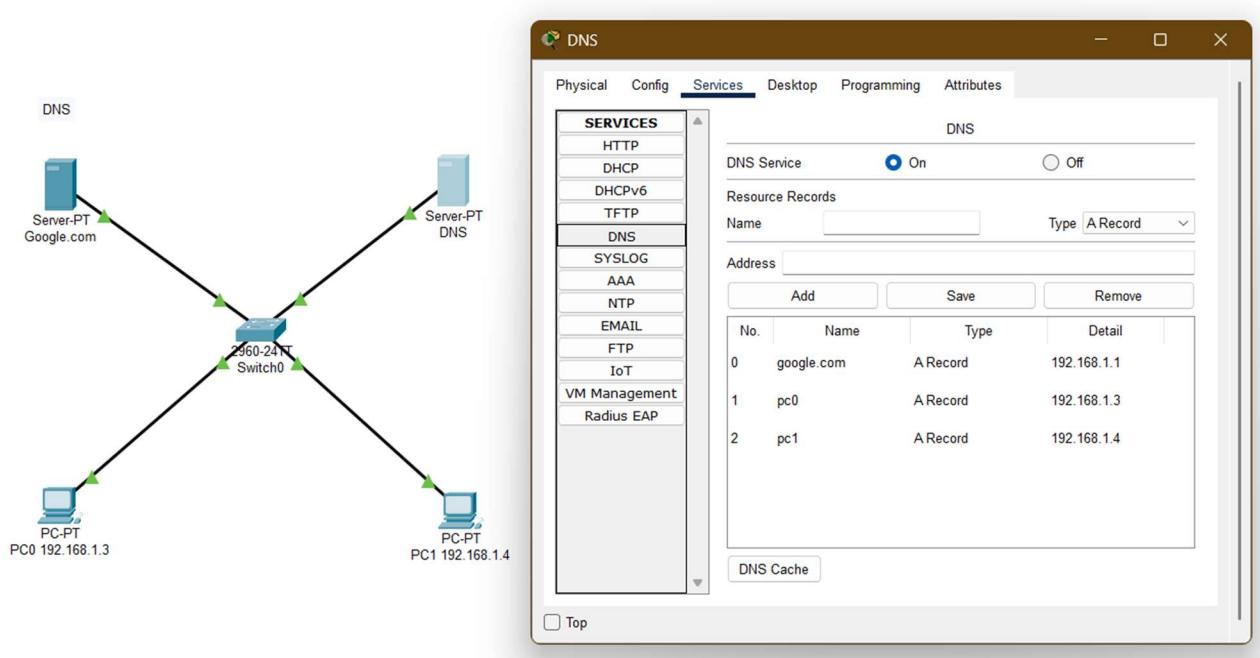
Study the application layer protocol DNS, DHCP, FTP.

Practical Assignment #07:

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

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a. DNS

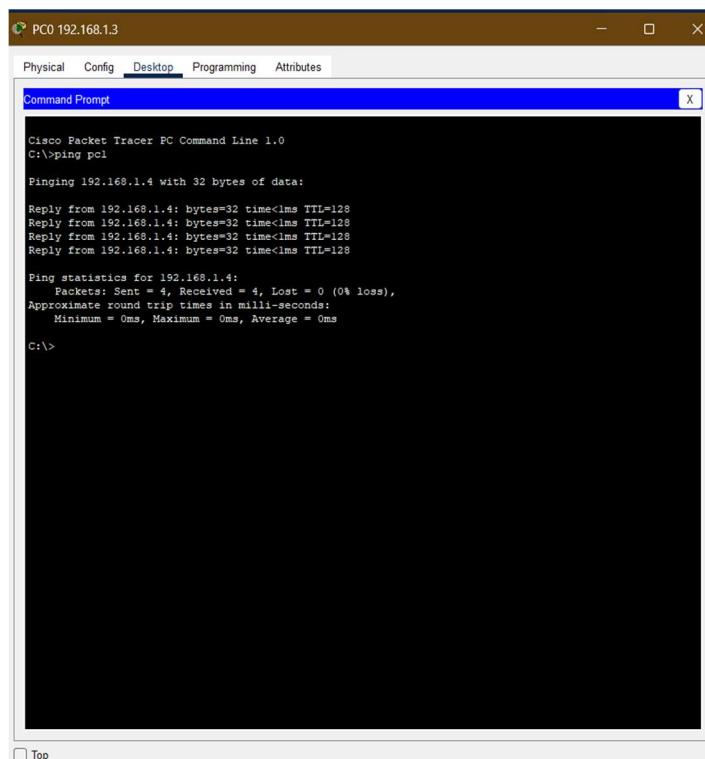
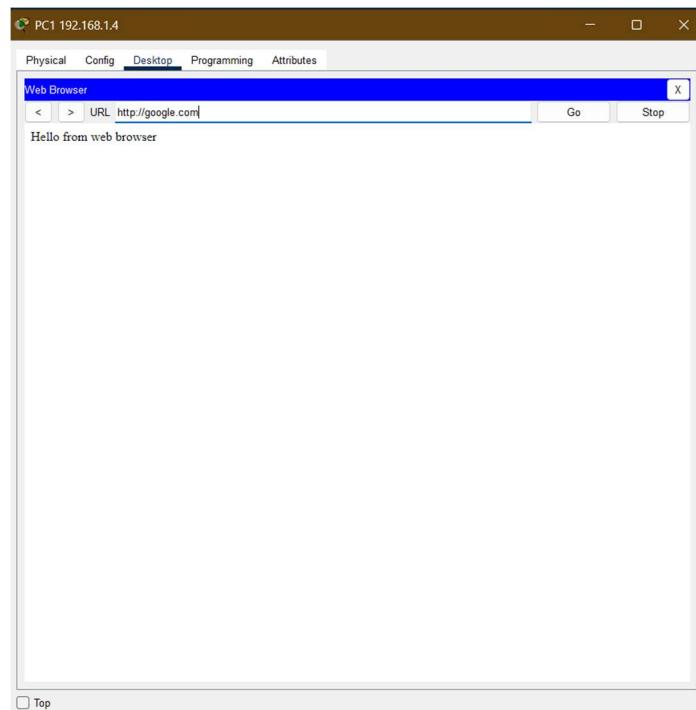




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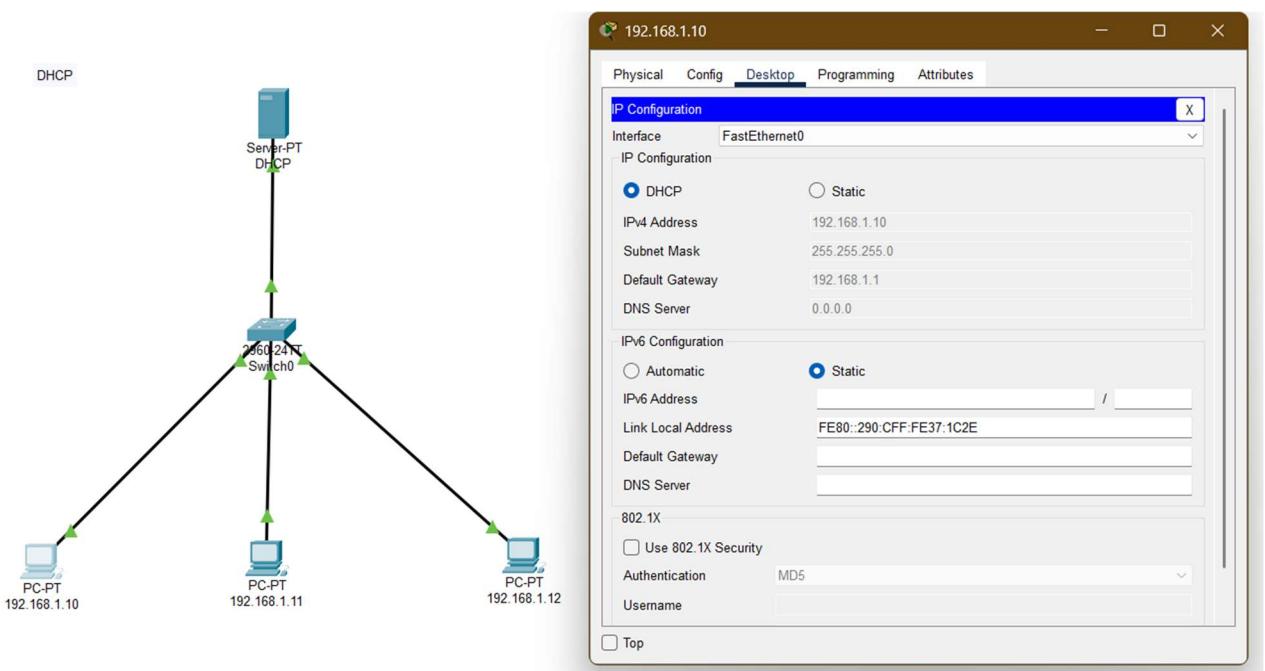
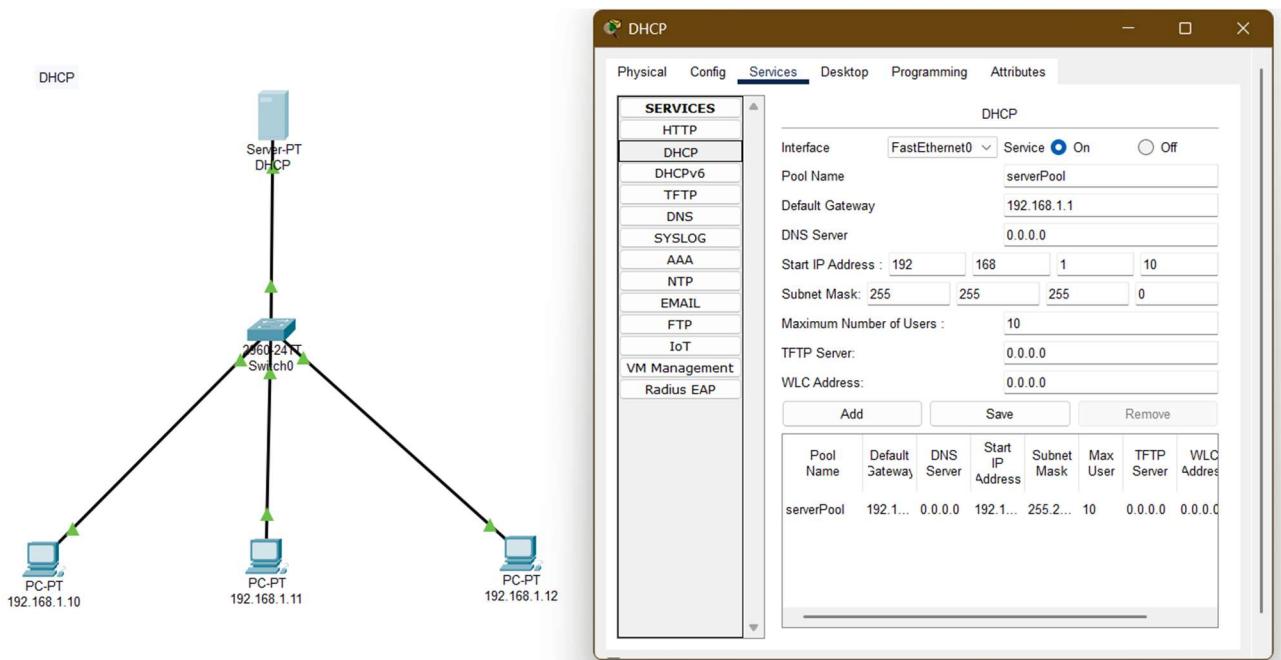
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b. DHCP



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c. FTP

Server0

Physical Config Services Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP**
- IoT
- VM Management
- Radius EAP

FTP

Service On Off

User Setup

Username _____ Password _____

Write Read Delete Rename List

Username	Password	Permission
1 cisco	cisco	RWDNL
2 admin	1234	RWDNL

Add Save Remove

File

- 1 asa842-k8.bin
- 2 asa923-k8.bin
- 3 c1841-advpipservicesk9-mz.124-15.T1.bin
- 4 c1841-ipbase-mz.123-14.T7.bin
- 5 c1841-ipbasek9-mz.124-12.bin
- 6 c1900-universalk9-mz.SPA.155-3.M4a.bin

Remove

Top

PC0

Physical Config Desktop Programming Attributes

Text Editor

This is a admin for transferring

File Name ? X

Enter the new File Name
admin.txt

OK Cancel



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Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.1
Trying to connect...192.168.1.1
Connected to 192.168.1.1
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put admin.txt

Writing file admin.txt to 192.168.1.1:
File transfer in progress...

[Transfer complete - 32 bytes]

32 bytes copied in 0.037 secs (864 bytes/sec)
ftp>dir

Listing /ftp directory from 192.168.1.1:
  0 : admin.txt                                32
  1 : asa842-k8.bin                            5571584
  2 : asa923-k8.bin                            30468096
  3 : c1841-advipservicesk9-mz.124-15.T1.bin  33591768
  4 : c1841-ipbase-mz.123-14.T7.bin          13832032
  5 : c1841-ipbasek9-mz.124-12.bin           16599160
  6 : c1900-universalk9-mz.SPA.155-3.M4a.bin 33591768
  7 : c2600-advipservicesk9-mz.124-15.T1.bin  33591768
  8 : c2600-i-mz.122-28.bin                   5571584
  9 : c2600-ipbasek9-mz.124-8.bin            13169700
 10 : c2800nm-advipservicesk9-mz.124-15.T1.bin 50938004
 11 : c2800nm-advipservicesk9-mz.151-4.M4.bin 33591768
 12 : c2800nm-ipbase-mz.123-14.T7.bin       5571584
 13 : c2800nm-ipbasek9-mz.124-8.bin          15522644
 14 : c2900-universalk9-mz.SPA.155-3.M4a.bin 33591768
 15 : c2950-i6q412-mz.121-22.EA4.bin        3058048
 16 : c2950-i6q412-mz.121-22.EA8.bin        3117390
```



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Trying to connect...192.168.1.1
Connected to 192.168.1.1
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get admin.txt

Reading file admin.txt from 192.168.1.1:
File transfer in progress...

[Transfer complete - 32 bytes]

32 bytes copied in 0.011 secs (2909 bytes/sec)
ftp>dir

Listing /ftp directory from 192.168.1.1:
0 : admin.txt                                32
1 : asa842-k8.bin                            5571584
2 : asa923-k8.bin                            30468096
3 : c1841-advipservicesk9-mz.124-15.T1.bin  33591768
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