

Semester 5th | Practical Assignment | Computer Networks (2301CS501)

Date: 18/08/2025

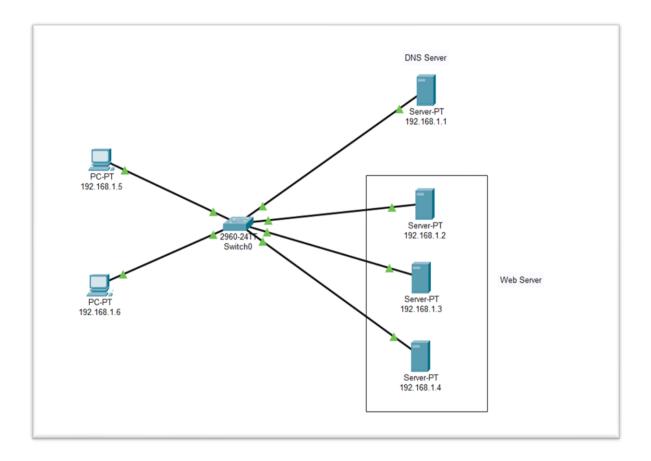
Lab Practical #07:

Study the application layer protocol DNS, DHCP, FTP.

Practical Assignment #07:

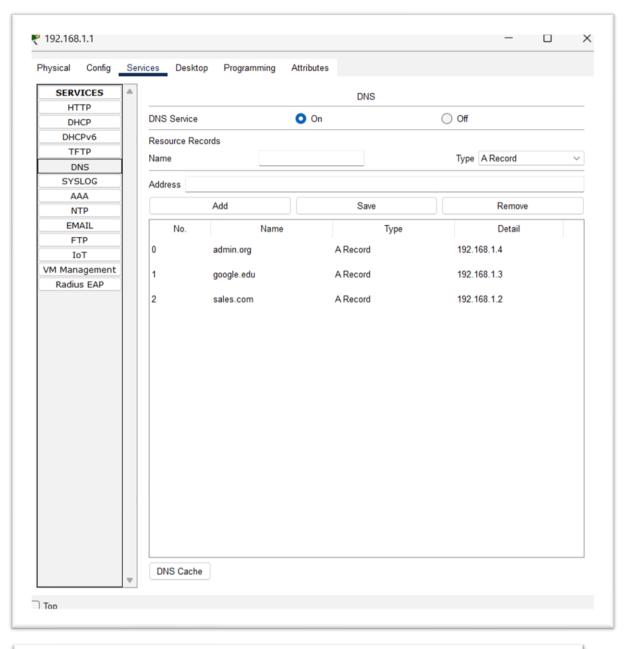
1. Implement the application layer protocol DNS, DHCP, and FTP. Also check connectivity between them using ping command or PDU utility.

1) DNS





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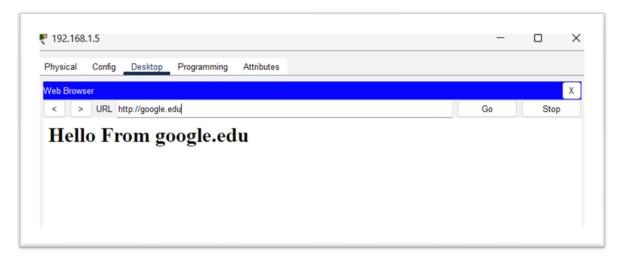


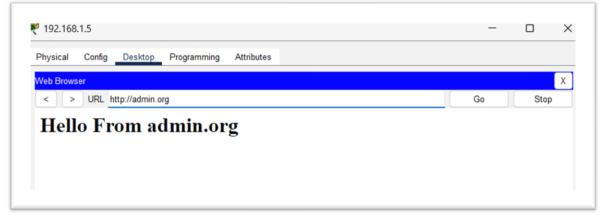




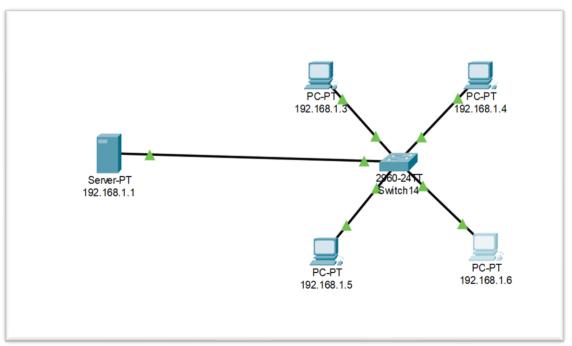
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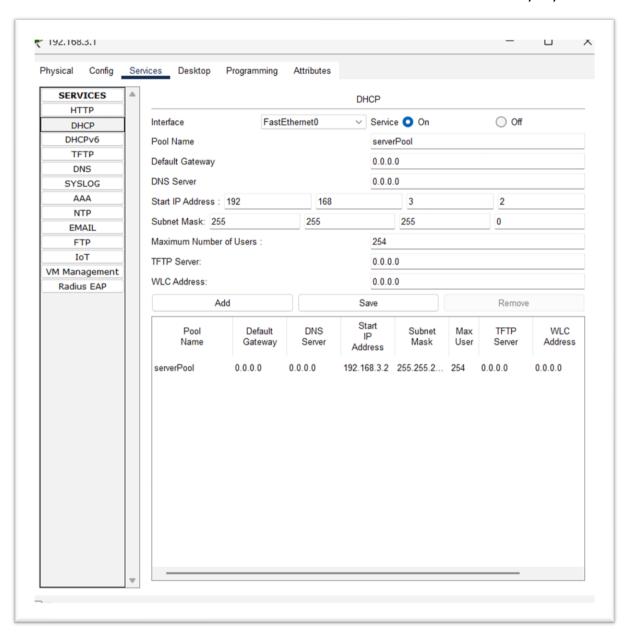


2) DHCP



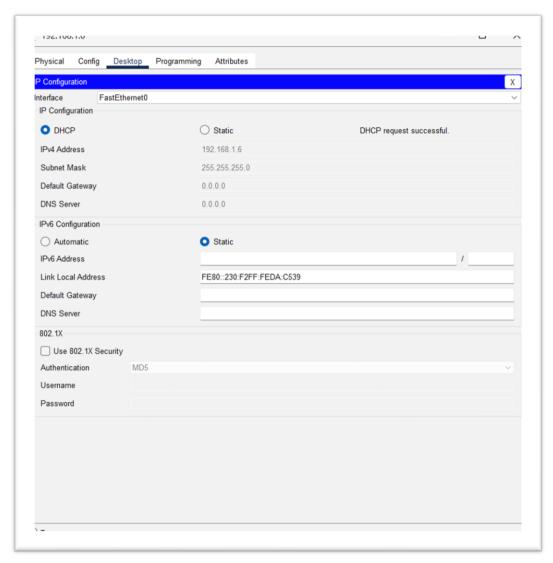


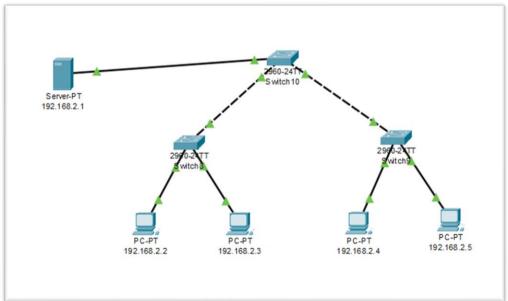
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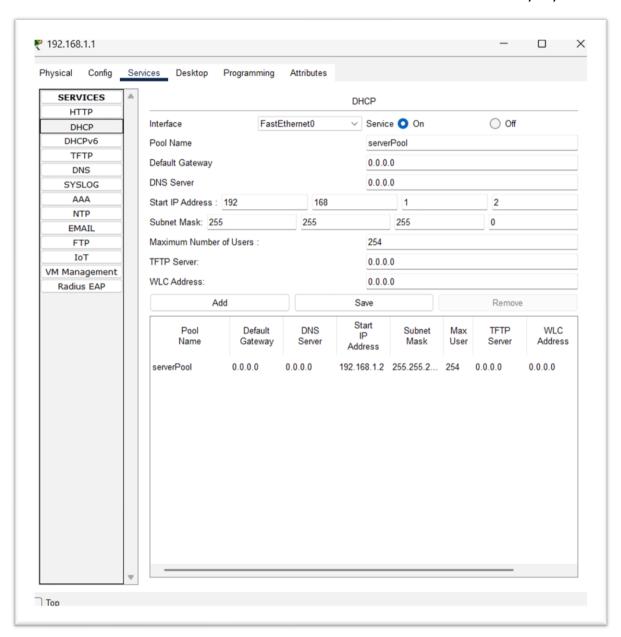
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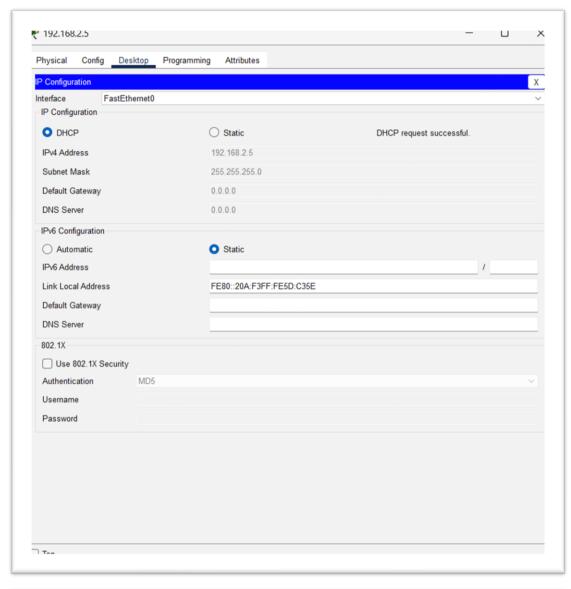


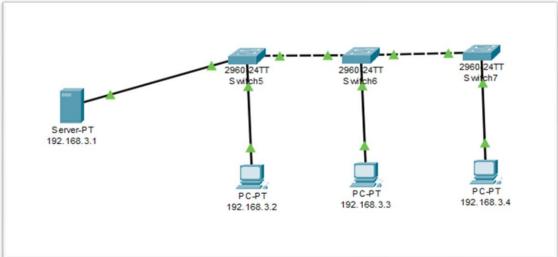
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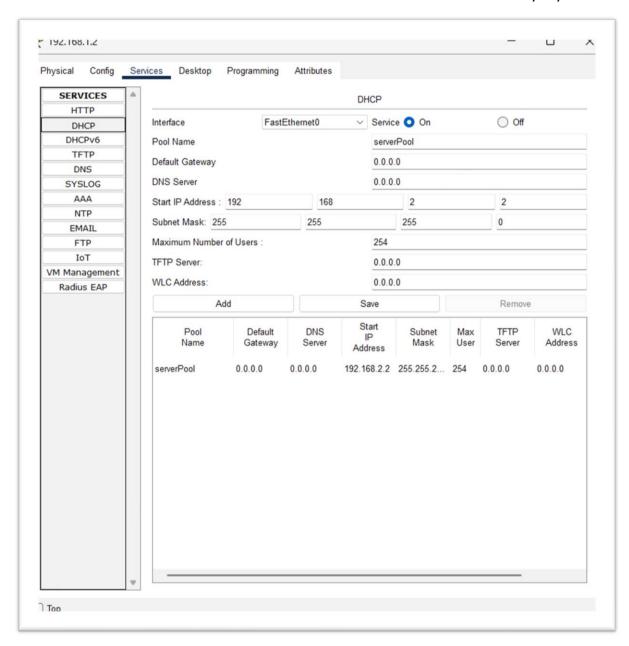
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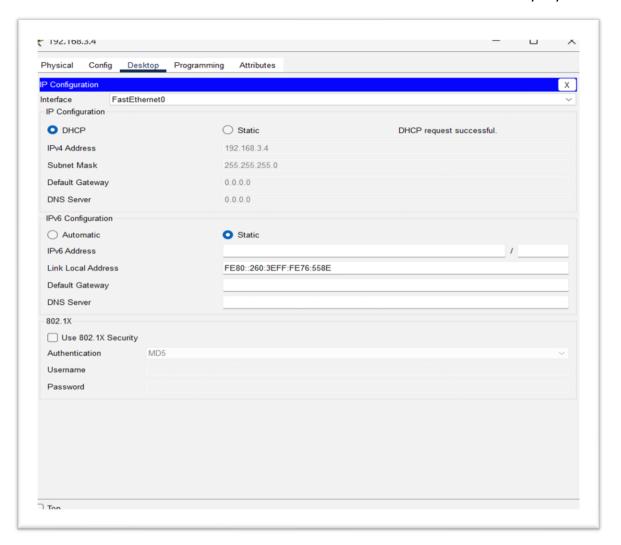


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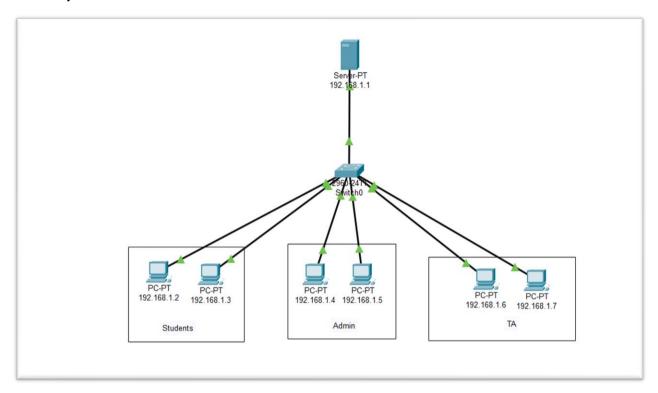
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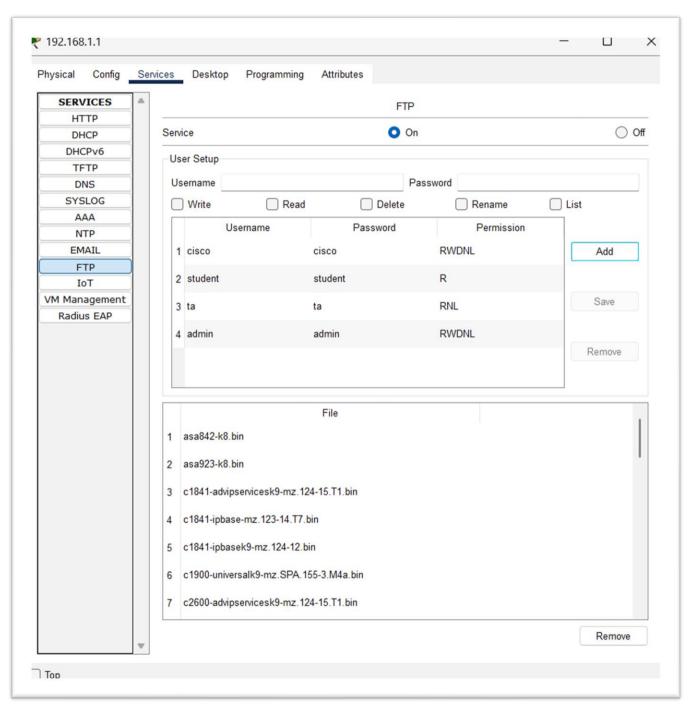
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3) FTP:





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```
::\>ftp 192.168.1.1
Trying to connect...192.168.1.1
onnected to 192.168.1.1
220- Welcome to PT Ftp server
Jsername:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
tp>dir
Listing /ftp directory from 192.168.1.1:
                                                            5571584
   : asa842-k8.bin
   : asa923-k8.bin
                                                            30468096
   : c1841-advipservicesk9-mz.124-15.T1.bin
                                                            33591768
   : cl841-ipbase-mz.123-14.T7.bin
                                                            13832032
   : c1841-ipbasek9-mz.124-12.bin
                                                             16599160
   : c1900-universalk9-mz.SPA.155-3.M4a.bin
                                                            33591768
   : c2600-advipservicesk9-mz.124-15.T1.bin
                                                            33591768
   : c2600-i-mz.122-28.bin
                                                            5571584
   : c2600-ipbasek9-mz.124-8.bin
                                                            13169700
   : c2800nm-advipservicesk9-mz.124-15.T1.bin
                                                            50938004
   : c2800nm-advipservicesk9-mz.151-4.M4.bin
                                                            33591768
   : c2800nm-ipbase-mz.123-14.T7.bin
                                                             5571584
   : c2800nm-ipbasek9-mz.124-8.bin
                                                             15522644
   : c2900-universalk9-mz.SPA.155-3.M4a.bin
                                                            33591768
   : c2950-i6q412-mz.121-22.EA4.bin
: c2950-i6q412-mz.121-22.EA8.bin
                                                            3058048
                                                            3117390
   : c2960-lanbase-mz.122-25.FX.bin
                                                            4414921
   : c2960-lanbase-mz.122-25.SEE1.bin
                                                            4670455
   : c2960-lanbasek9-mz.150-2.SE4.bin
                                                            4670455
   : c3560-advipservicesk9-mz.122-37.SE1.bin
                                                            8662192
   : c3560-advipservicesk9-mz.122-46.SE.bin
                                                            10713279
   : c800-universalk9-mz.SPA.152-4.M4.bin
: c800-universalk9-mz.SPA.154-3.M6a.bin
                                                            33591768
                                                            83029236
   : cat3k caa-universalk9.16.03.02.SPA.bin
                                                            505532849
   : cgr1000-universalk9-mz.SPA.154-2.CG
                                                            159487552
   : cgr1000-universalk9-mz.SPA.156-3.CG
                                                             184530138
   : ir800-universalk9-bundle.SPA.156-3.M.bin
                                                            160968869
   : ir800-universalk9-mz.SPA.155-3.M
                                                            61750062
   : ir800-universalk9-mz.SPA.156-3.M
                                                            63753767
   : ir800_yocto-1.7.2.tar
: ir800_yocto-1.7.2_python-2.7.3.tar
: pt1000-i-mz.122-28.bin
                                                            2877440
                                                            6912000
   : pt3000-i6q412-mz.121-22.EA4.bin
                                                            3117390
tp>put demo.txt
Writing file demo.txt to 192.168.1.1:
File transfer in progress...
[Transfer complete - 12 bytes]
2 bytes copied in 0.08 secs (150 bytes/sec)
ftp>
```



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