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

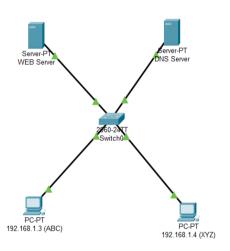
Date:

### Lab Practical #07:

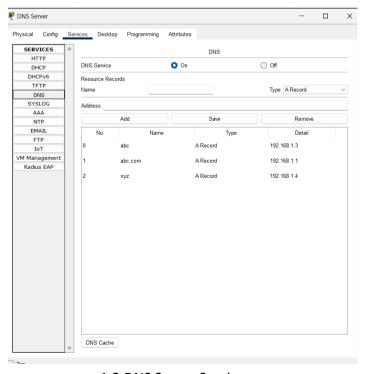
Study the application layer protocol DNS, DHCP, FTP.

## **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**



1.1 Circuit Design of DNS



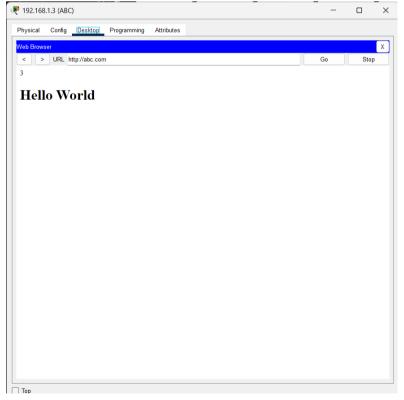
1.2 DNS Server Service



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P DNS Server - 0 Physical Config Services Desktop Programming Attributes IP Configuration
IP Configuration O DHCP Static IPv4 Address 255.255.255.0 Subnet Mask Default Gateway 0.0.0.0 IPv6 Configuration Automatic Static IPv6 Address Link Local Address DNS Server 802.1X Use 802.1X Security Authentication Username Password

1.3 DNS Server IP Configuration



1.4 Domain Name through access site

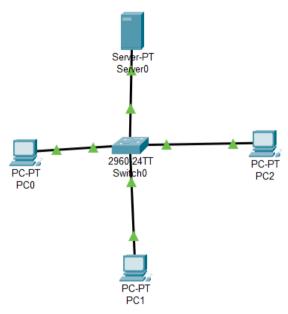
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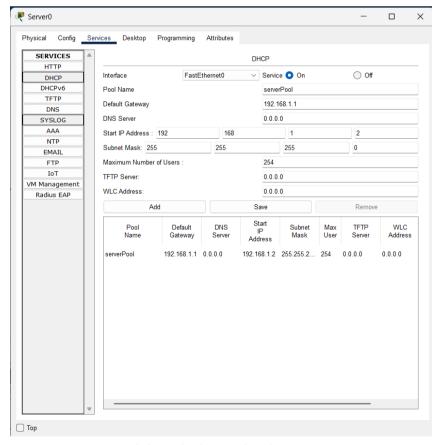
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Date:

#### 2. DHCP



2.1 Circuit Design of DHCP

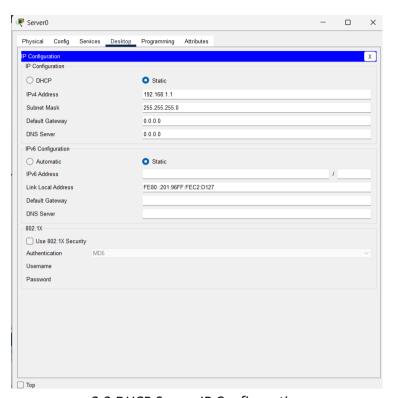


2.2 DHCP Server Service

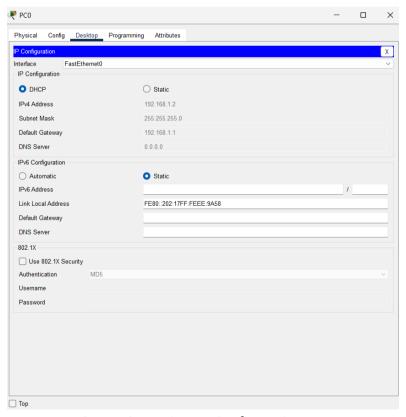


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2.3 DHCP Server IP Configuration



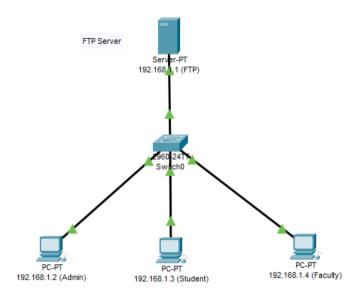
2.4 DHCP Devices IP Configuration



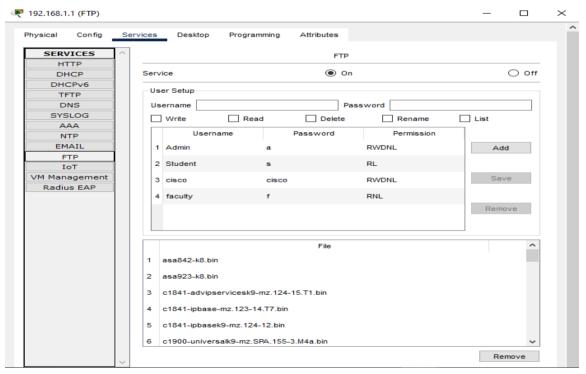
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Date:

#### 3. **FTP**



3.1 Circuit Design of DHCP



3.2 FTP Server Service

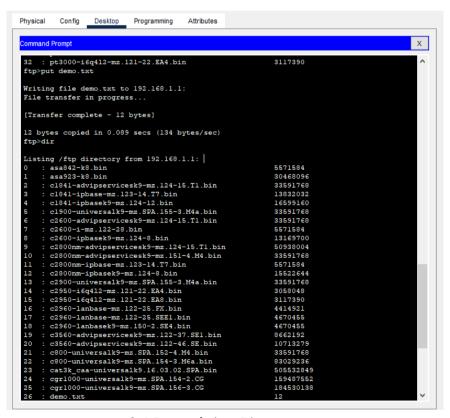


### Semester 5th | Practical Assignment | Computer Networks (2301CS501)

Date:

```
Physical Config Desktop Programming Attributes
 Command Prompt
                                                                                                                                                             Х
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:Student
 331- Username ok, need password
 %Error ftp://192.168.1.1/ (No such Account)
332- Need account for login
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:Student
 331- Username ok, need password
 Password:
230- Logged in
(passive mode On)
ftp>get demo.txt
 Reading file demo.txt from 192.168.1.1:
 File transfer in progress.
  [Transfer complete - 12 bytes]
 12 bytes copied in 0 secs ftp>
```

3.3 Login User in FTP Server



3.4 Put and view Directory