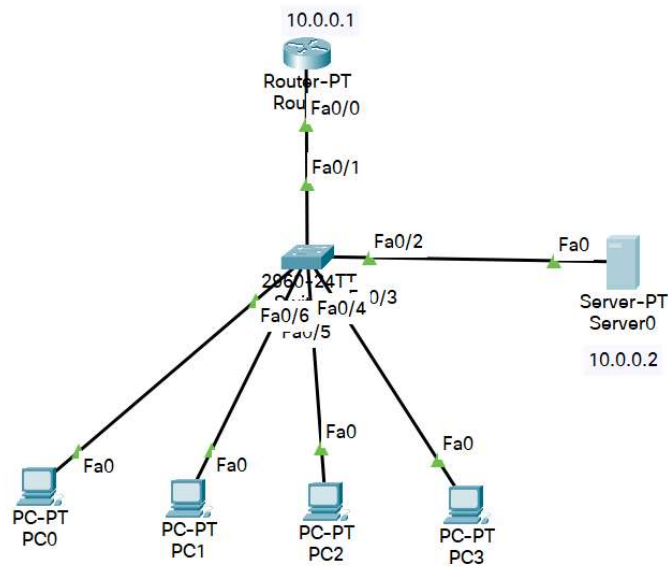


Program 4

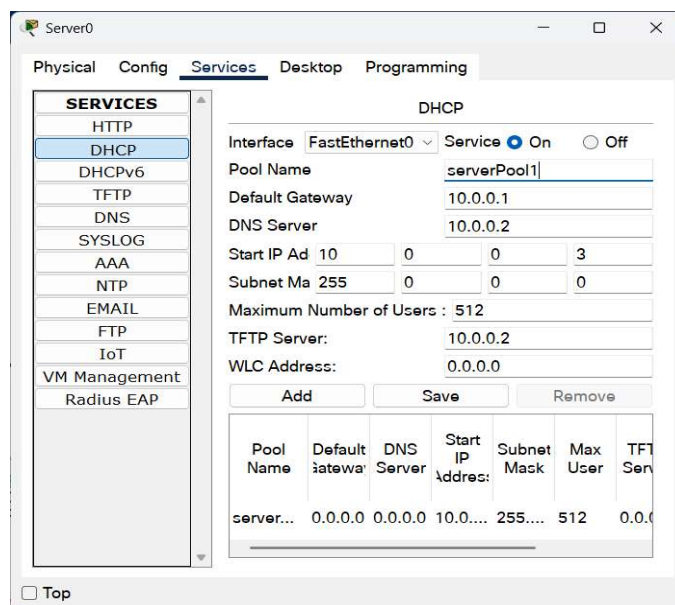
- i. Configure DHCP within a LAN and outside LAN.
- ii. Procedure along with the topology



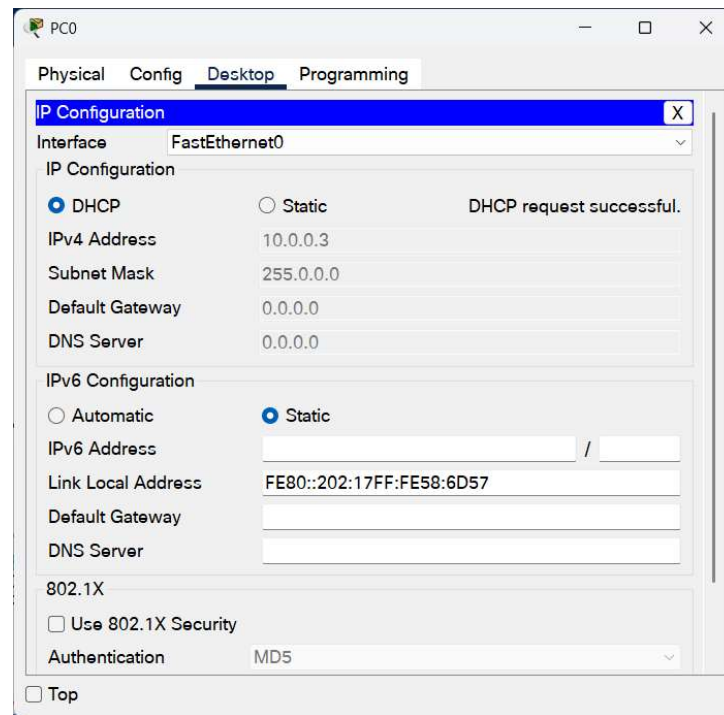
- iii. Screen shots/ output

DHCP Within LAN

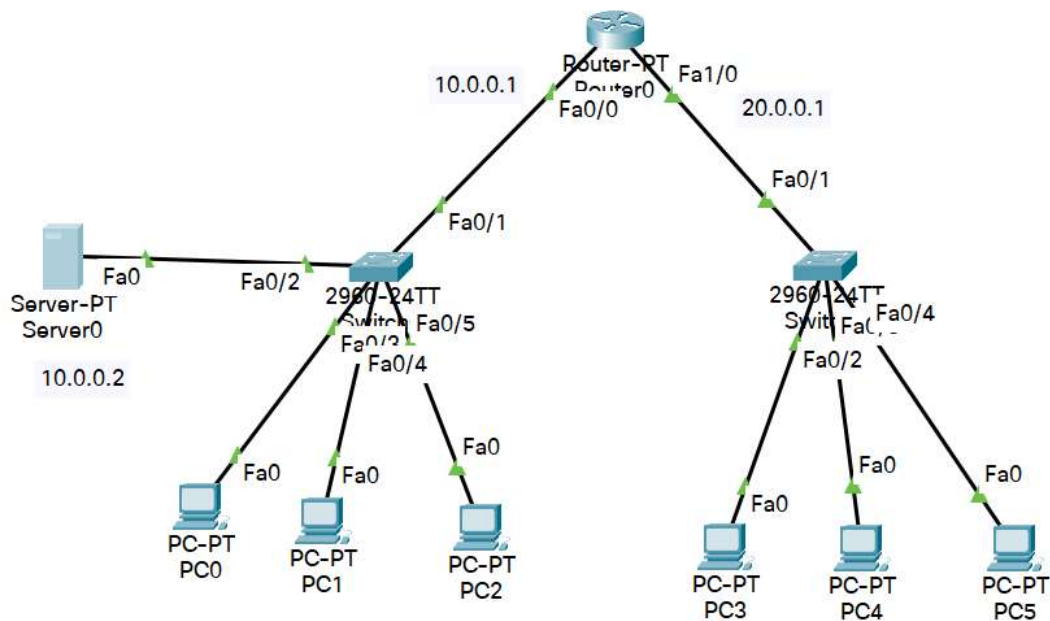
DHCP Configuration



PC settings



DHCP outside LAN:



DHCP configuration for inside LAN

Server0

Physical Config **Services** Desktop Programming

SERVICES

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

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool1

Default Gateway: 10.0.0.1

DNS Server: 10.0.0.2

Start IP Ad: 10.0.0.3

Subnet Ma: 255.0.0.0

Maximum Number of Users: 512

TFTP Server: 10.0.0.2

WLC Address: 0.0.0.0

Add Save Remove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | 1 |
|-----------|-----------------|------------|------------------|-------------|----------|----|
| server... | 10.0.... | 10.0.... | 10.0.... | 255.... | 512 | 10 |

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DHCP configuration for outside LAN

Server0

Physical Config **Services** Desktop Programming

SERVICES

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

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool2

Default Gateway: 20.0.0.1

DNS Server: 10.0.0.2

Start IP Ad: 20.0.0.2

Subnet Ma: 255.0.0.0

Maximum Number of Users: 512

TFTP Server: 10.0.0.2

WLC Address: 0.0.0.0

Add Save Remove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | 1 |
|-----------|-----------------|------------|------------------|-------------|----------|----|
| server... | 20.0.... | 10.0.... | 20.0.... | 255.... | 512 | 10 |

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