

COMPUTER NETWORKS LAB



LAB TASK # 04

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Task 1: DNS server configuration in Packet Tracer:



Server0

Physical Config Services Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BAFF:FE89:63E1

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Server0

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DNS

DNS Service

On

Off

Resource Records

Name

Type

A Record

Address

Add

Save

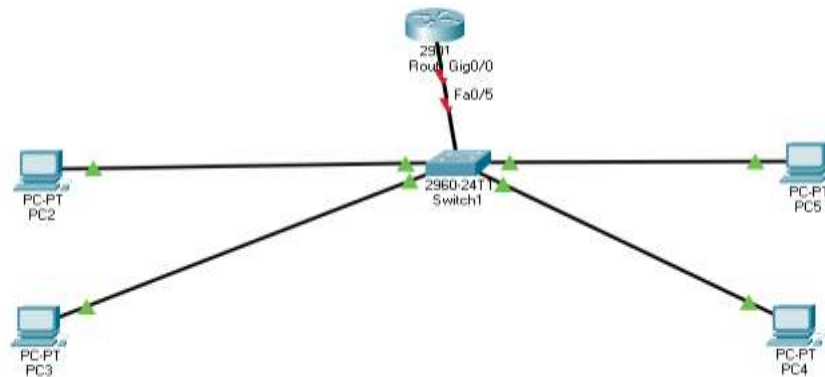
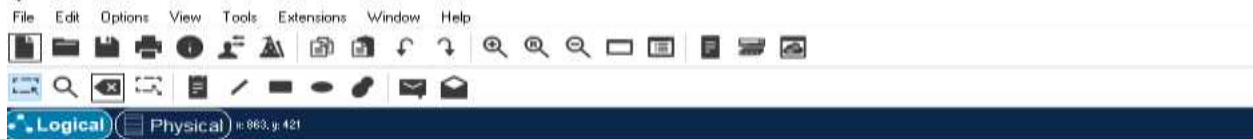
Remove

No.	Name	Type	Detail
0	dns_server	A Record	192.168.1.2
1	pc0	A Record	192.168.1.3
2	pc1	A Record	192.168.1.4

DNS Cache

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Task 2: Configuring DHCP server on a Router:



Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

```
--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable
Router#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface FastEthernet 0/0
%Invalid interface type and number
Router(config)#interface GigabitEthernet0/0
Router(config-if)#Router(config-if)#ip address 192.168~Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
^Z
Router#
Router#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

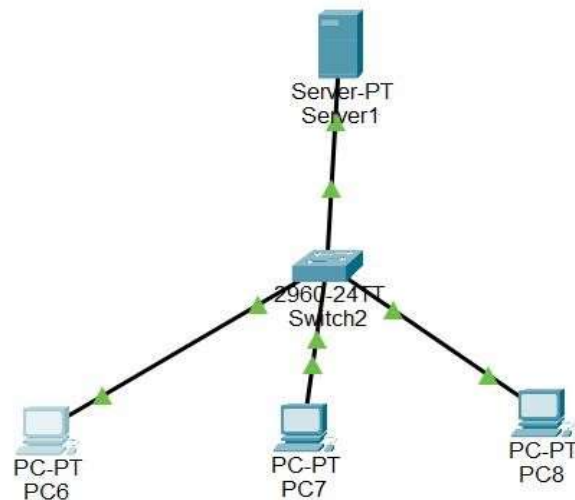
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

Ctrl+F6 to exit CLI focus

Copy Paste

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Task 3: Configuring DHCP service on a generic server:



Server1

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Addr: 192.168.1.0

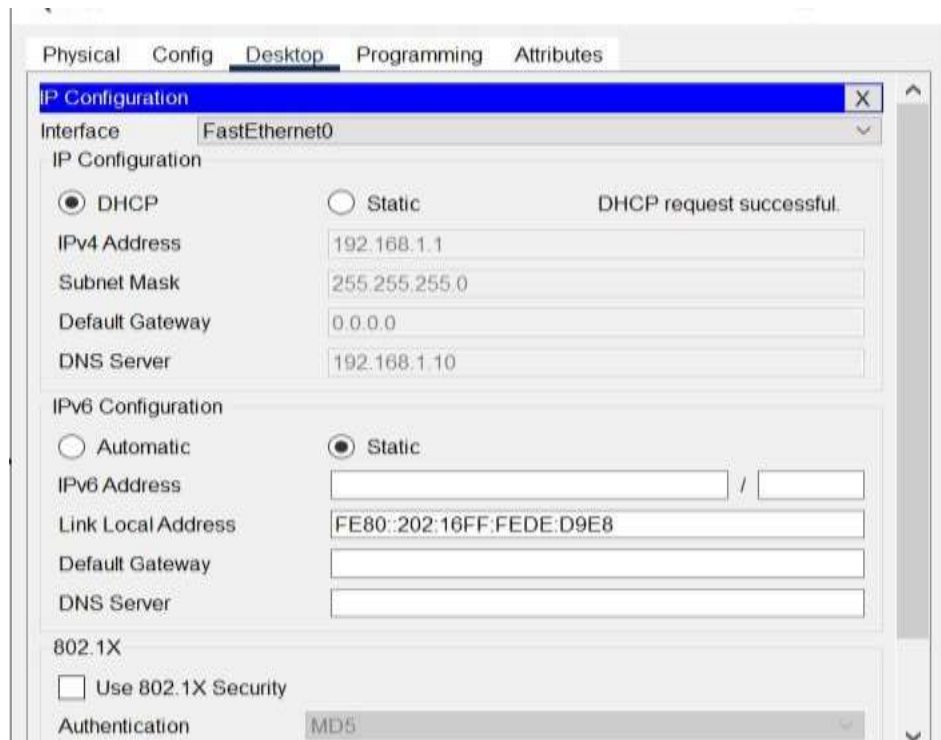
Subnet Mask: 255.255.255.0

Maximum Number of Users: 255

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server
P1	192....	192....	192....	255....	255	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192....	255....	255	0.0.0.0



Task 4: Configuring DHCP, DNS and Web Server configuration in cisco packet tracer:

