

**786**

**N**ame: Muhammad Sherjeel Akhtar

**R**oll No: 20p-0101

**S**ubject: Computer Network Lab

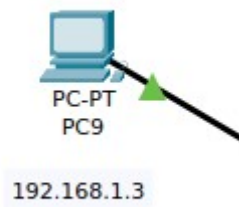
**T**ask No: 5

**S**ubmitted To Respect Ma'am: **Miss Hurmat Hidayat**

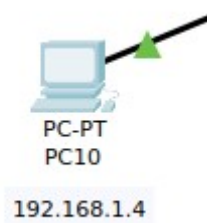
**S**ection: B

**Task No 1:**  
**Answer:**  
**PC's:**

▪

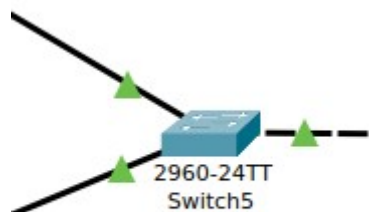


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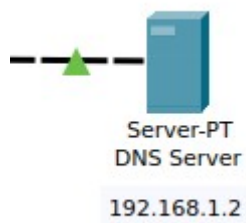
**Switch:**

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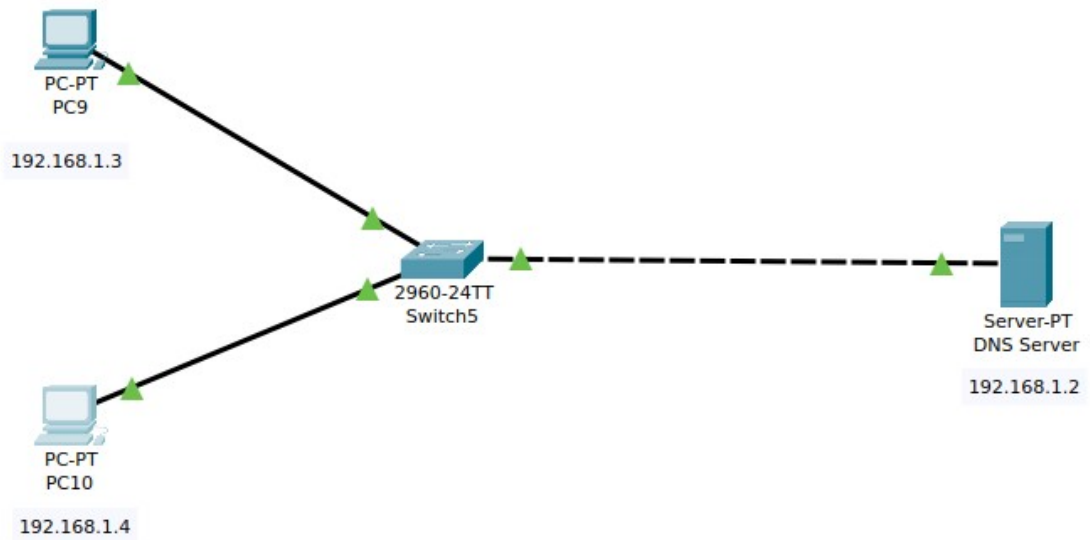


**Server:**

▪



**Whole Topology:**



## DNS IP Config:

DNS Server

Physical
Config
Services
Desktop
Programming
Attributes

IP Configuration

X

**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::2E0:A3FF:FE2B:182

Default Gateway

DNS Server

**802.1X**

☐ Use 802.1X Security

Authentication

MD5

Username

Password

## DNS Services:

**DNS Server**

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	pc10	A Record	192.168.1.4
2	pc9	A Record	192.168.1.3

## PC 9 IP Config:

**PC9**

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface **FastEthernet0**

**IP Configuration**

☐ DHCP ☒ Static

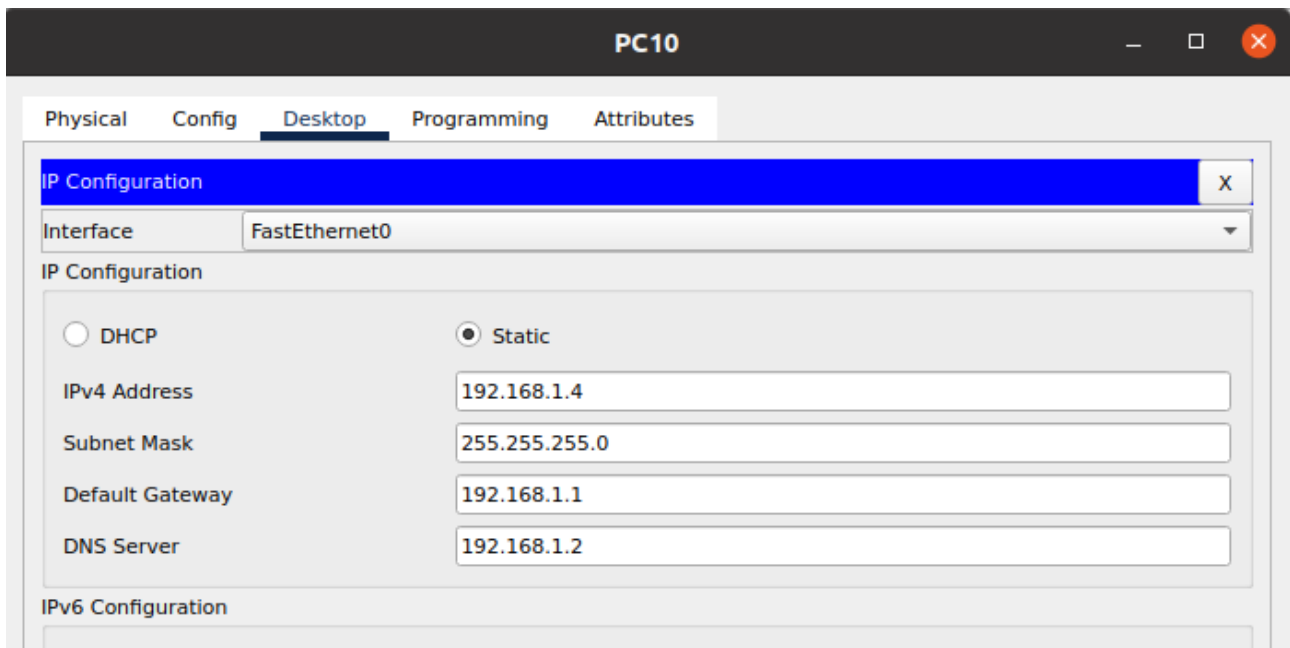
IPv4 Address

Subnet Mask

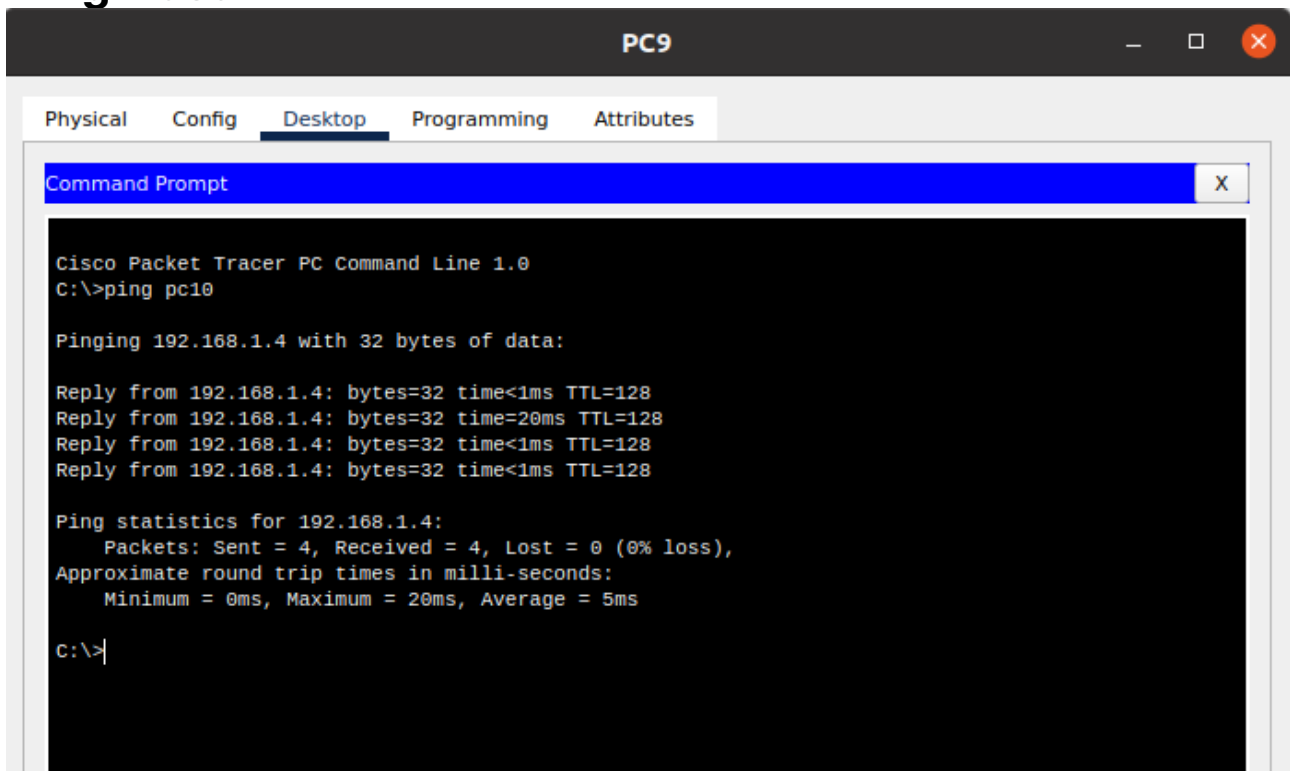
Default Gateway

DNS Server

## PC 10 IP Config:



## Ping Test:



Task No 2:  
Answer:  
PCs:  
PC 8:



## PC 7:

.



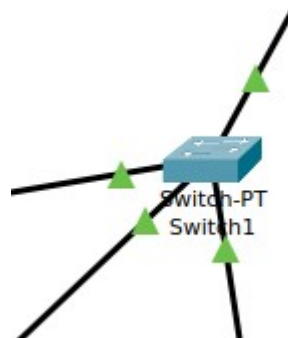
## PC 6:

.



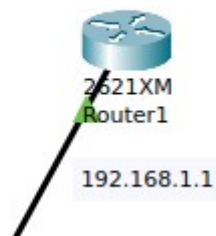
## Switch:

.



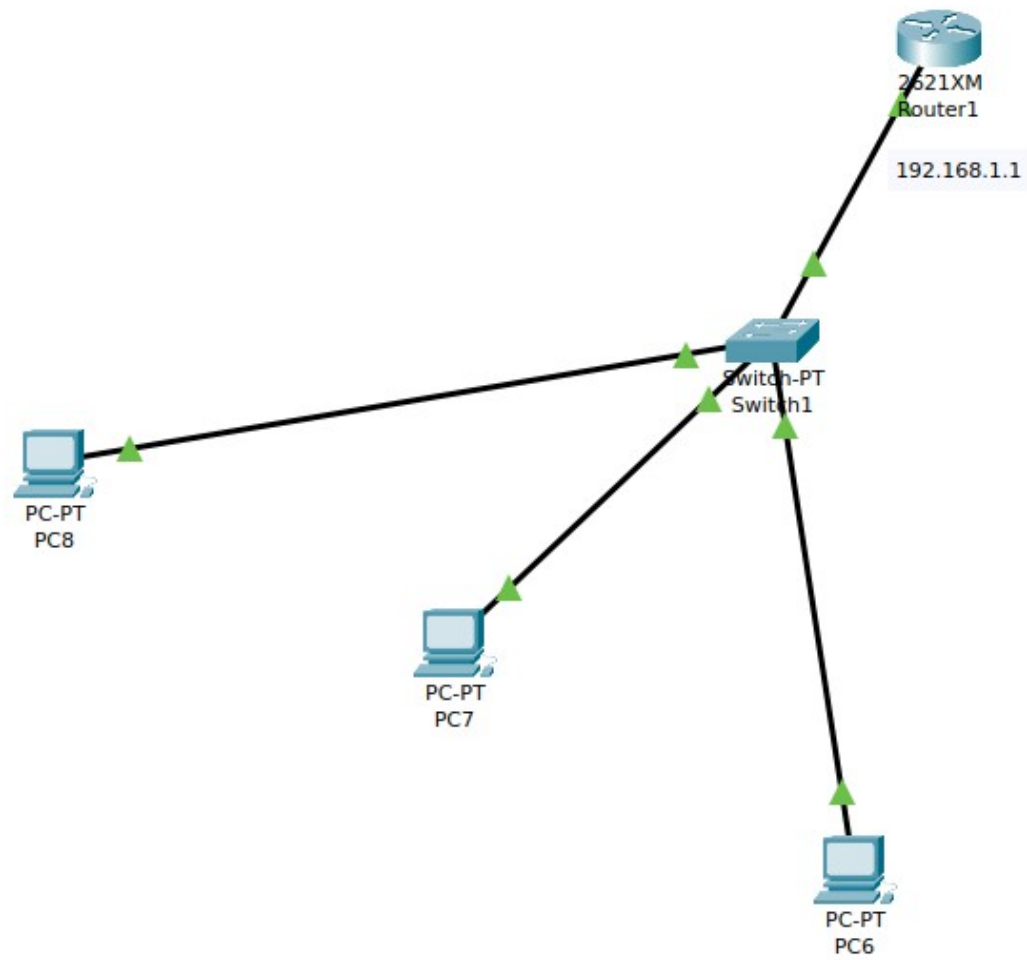
## Router:

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## Whole Topology:

.



## Router Configuration





Physical **Config** CLI Attributes

<b>GLOBAL</b>	FastEthernet0/0	
Settings		
Algorithm Settings		
<b>ROUTING</b>		
Static		
RIP		
<b>INTERFACE</b>		
FastEthernet0/0		
FastEthernet0/1		
Serial0/0		
Serial0/1		
Serial0/2		
Serial0/3		
FastEthernet1/0		
FastEthernet1/1		

Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00E0.A350.A701
IP Configuration	
IPv4 Address	192.168.1.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10

## Equivalent IOS Commands

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/1  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet1/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#
```

☐ Top



**We've assigned a dynamic IP to this router using CLI.**

PC8

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.12

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.10

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20A:F3FF:FE36:9C2A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC7

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

DHCP

Static

DHCP request successful.

IPv4 Address

192.168.1.13

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.1

DNS Server

192.168.1.10

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::205:5EFF:FE67:9E22

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top

PC6

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.11

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.10

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20D:BDFF:FE40:4291

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

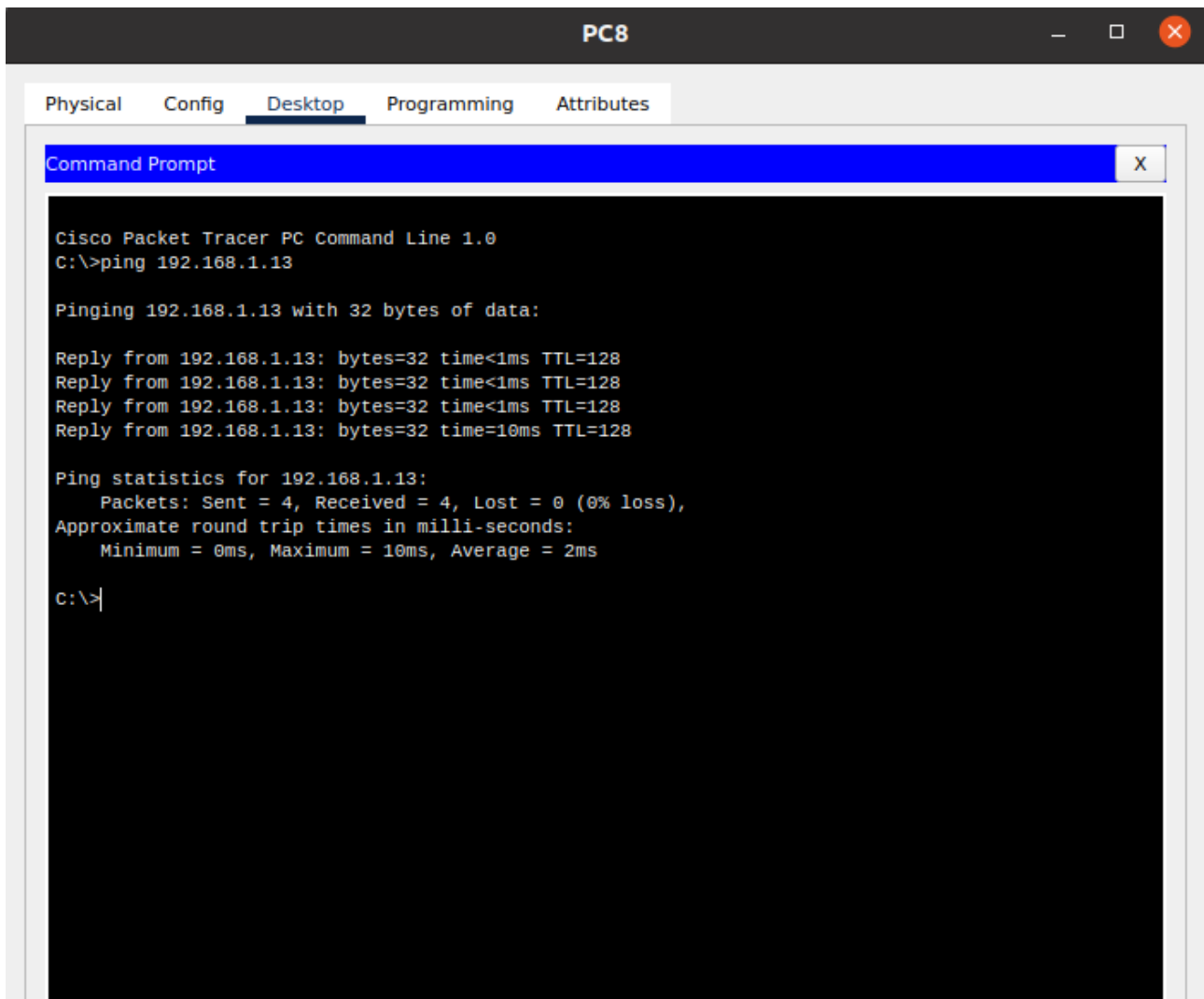
Password

☐ Top

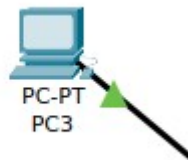
**Simply click the DHCP on every PC to assign the IP to every PC.**

**Ping Test:**

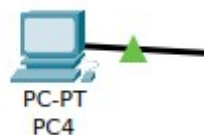
**Pinging PC7 from PC8**



**Task 3:**  
**Answer:**  
**PC's:**  
**PC3:**



**PC4:**



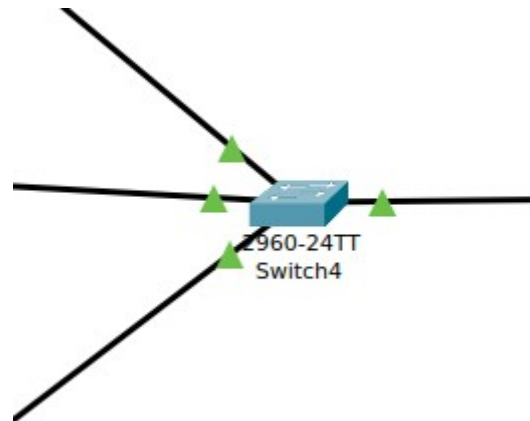
## PC5:

.



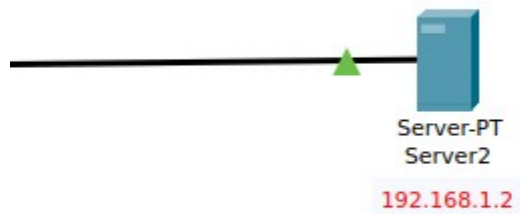
## Switch:

.

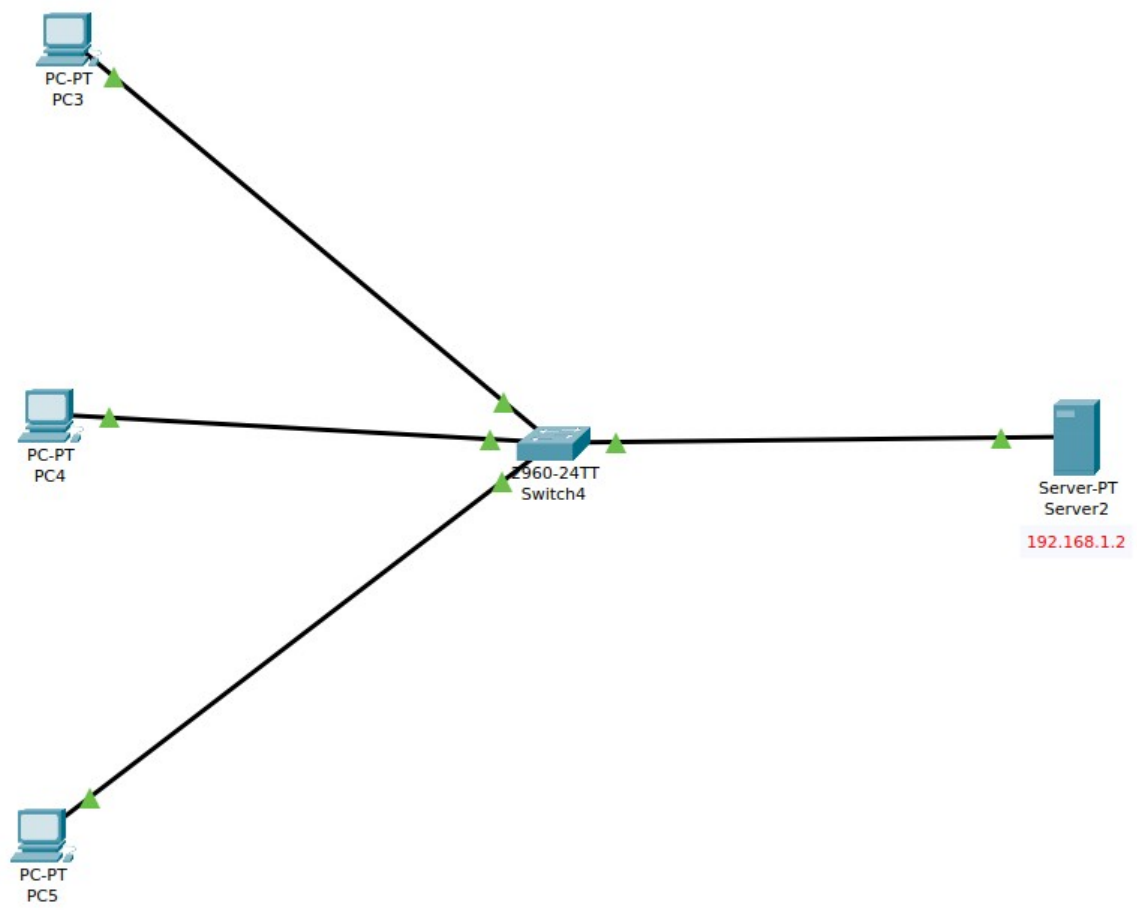


## Server:

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## Whole Topology:



■



## Server IP Configuration:

Server2

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

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::206:2AFF:FE48:6C40

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

## Server Config:







## Server DHCP:

Server2

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DHCP

InterfaceFastEthernet0ServiceOnOff

Pool NameserverPool

Default Gateway192.168.1.1

DNS Server192.168.1.10

Start IP Address :19216810

Subnet Mask:2552552550

Maximum Number of Users :255

TFTP Server:0.0.0.0

WLC Address:0.0.0.0

AddSaveRemove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.16...	192.16...	192.16...	255.25...	255	0.0.0.0	0.0.0.0

As we are not using any Router so we are not going to use Helper Address in this topology.

# Setting DHCP On PC's:

■

PC4

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.1.1

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.1

DNS Server

192.168.1.10

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::2E0:8FFF:FE08:D6D4

Default Gateway

DNS Server

802.1X

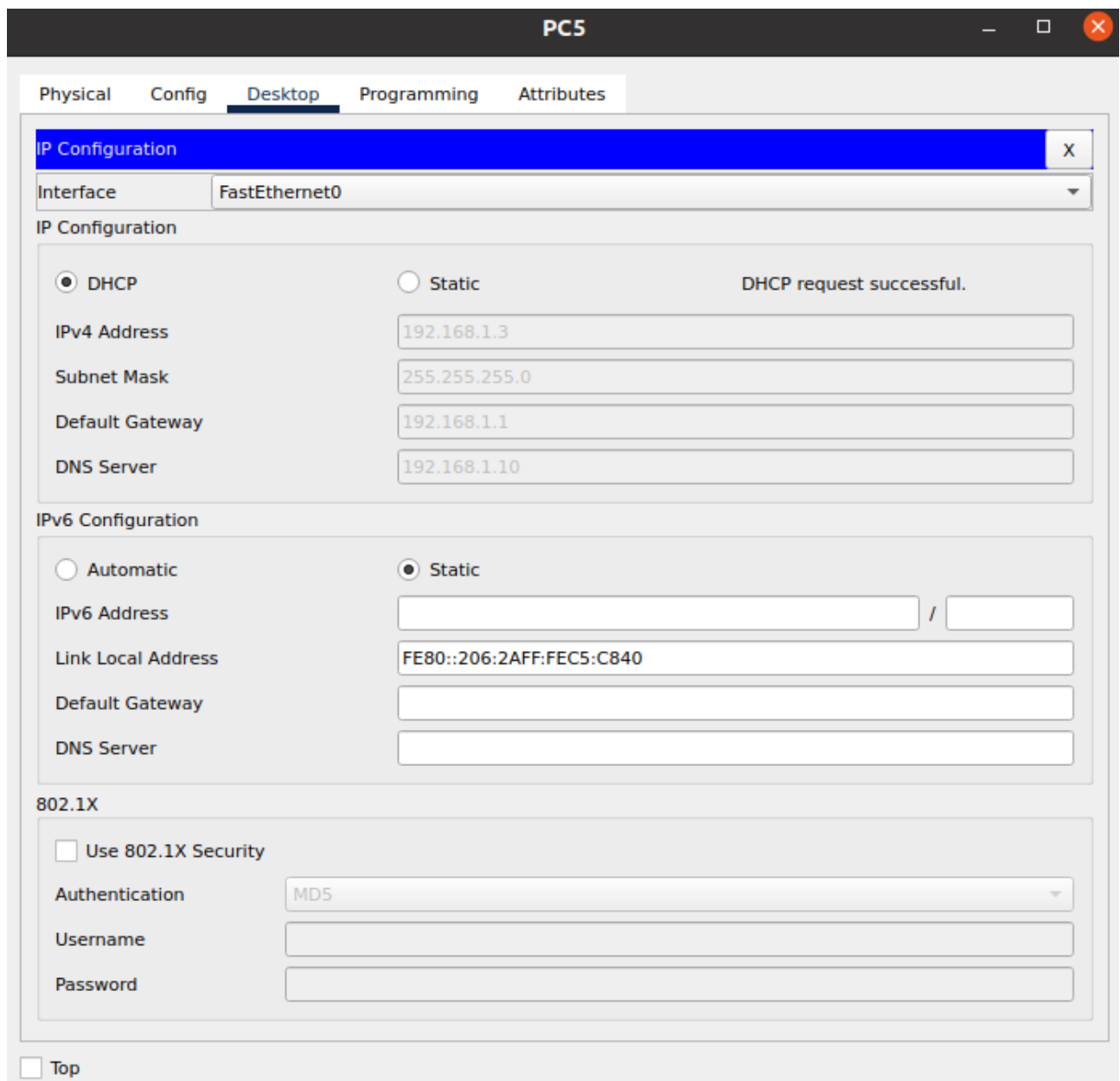
☐ Use 802.1X Security

Authentication

MD5

Username

Password



PC3

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.1.4

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.1

DNS Server

192.168.1.10

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::260:3EFF:FE04:39DE

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

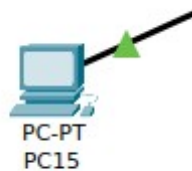
Password

☐ Top



**Task 4:**  
**Answer:**  
**PC's:**

**.PC15:**



**.PC16:**

.



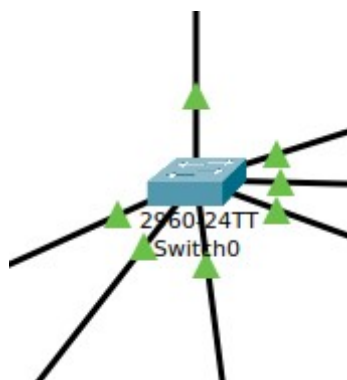
**.PC17:**

.



**Switch:**

.



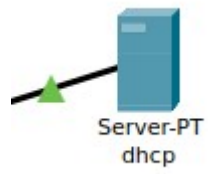
**.Router:**

.



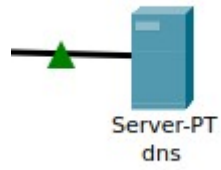
## **.Servers:**

- 

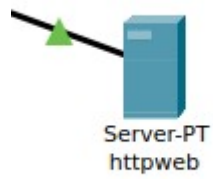


- 

- 



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- 

## **Router IP Configuration:**

Router3

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/0

Port Status

☒ On

Bandwidth

☒ 1000 Mbps☐ 100 Mbps☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex☒ Full Duplex

☒ Auto

MAC Address0060.4791.3A01

IP Configuration

IPv4 Address192.168.10.1

Subnet Mask255.255.255.0

Tx Ring Limit10

Router3

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/1

Port Status

☐ On

Bandwidth

☒ 1000 Mbps☐ 100 Mbps☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex☒ Full Duplex

☒ Auto

MAC Address0060.4791.3A02

IP Configuration

IPv4 Address192.168.11.1

Subnet Mask255.255.255.0

Tx Ring Limit10

## IP Configuration Of Router Using CLI:

Router3

Physical Config CLI Attributes

IOS Command Line Interface

Press RETURN to get started!

Router>enable  
Router#  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#interface GigabitEthernet0/0/0  
Router(config-if)#ip address 192.168.10.1 255.255.255.0  
Router(config-if)#ip address 192.168.10.1 255.255.255.0  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface GigabitEthernet0/0/1  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface GigabitEthernet0/0/1  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface GigabitEthernet0/0/0  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface GigabitEthernet0/0/0  
Router(config-if)#ip address 192.168.10.1 255.255.255.0  
Router(config-if)#ip address 192.168.10.1 255.255.255.0  
Router(config-if)#no shutdown  
  
Router(config-if)#  
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

Copy Paste

## IOS Command Line Interface

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

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

Router(config-if)#interface GigabitEthernet0/0/0, changed state to up
      ^
% Invalid input detected at '^' marker.

Router(config-if)#Interface GigabitEthernet0/0/0, changed state to up
      ^
% Invalid input detected at '^' marker.

Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#no ip address
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#ip dhcp pool netA
Router(dhcp-config)#network 192.168.10.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.10.1
Router(dhcp-config)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ex
Router(config)#ip dhcp pool p2
Router(dhcp-config)#network 192.168.11.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.11.1
Router(dhcp-config)#ex
Router(config)#
```

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Paste

☐ Top

## Router3

Physical Config CLI Attributes

## IOS Command Line Interface

```
Router(config-if)#interface GigabitEthernet0/0/0, changed state to up
^
% Invalid input detected at '^' marker.

Router(config-if)#Interface GigabitEthernet0/0/0, changed state to up
^
% Invalid input detected at '^' marker.

Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#no ip address
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#ip dhcp pool netA
Router(dhcp-config)#network 192.168.10.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.10.1
Router(dhcp-config)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ex
Router(config)#ip dhcp pool p2
Router(dhcp-config)#network 192.168.11.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.11.1
Router(dhcp-config)#ex
Router(config)#
Router(config)#
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
```

Copy

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☐ Top

## DHCP Server IP Configuration:

dhcp

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.5

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::202:17FF:FEE6:834A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

## DNS Server IP Configuration:

dns

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.6

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::201:43FF:FEC9:96B0

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top



## Web Server IP Configuration:

httpweb

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.7

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::201:63FF:FE26:7363

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

## Selecting DHCP On PC's:

PC15

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.10.2

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::201:63FF:FE31:2D14

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

PC16

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

DHCP

Static

DHCP request successful.

IPv4 Address

192.168.10.3

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::2D0:97FF:FE9D:9666

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top



## Ping Test: Ping PC-17 from PC-15.

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```
C:\>ping 192.168.10.4

Pinging 192.168.10.4 with 32 bytes of data:

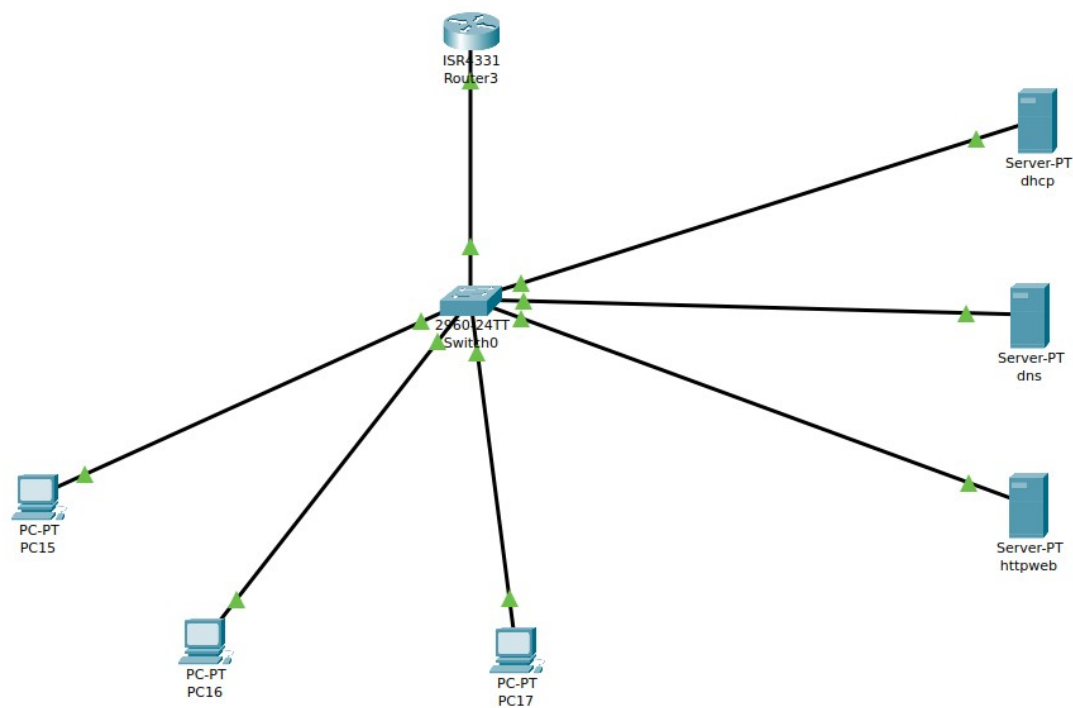
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

# Whole Topology:

▪



▪

## PC's:

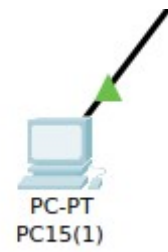
- 



- 



- 



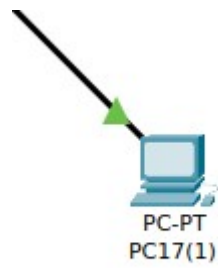
- 

- 



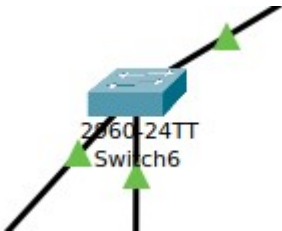
- 

- 

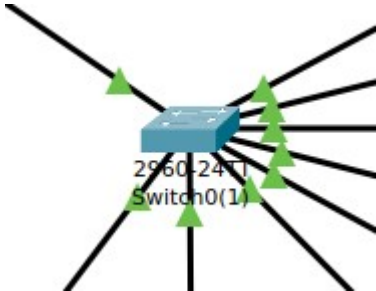


Switch:

.

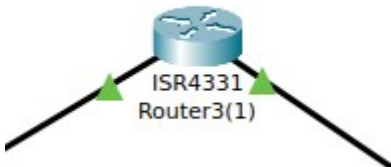


.



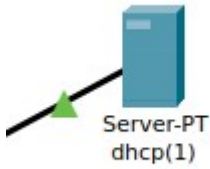
.

.



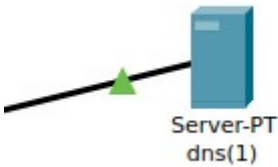
Servers:

.



.

.

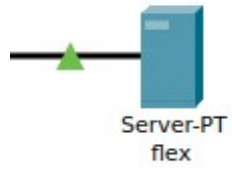


.

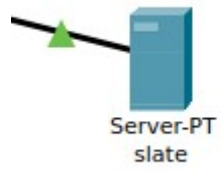


▪

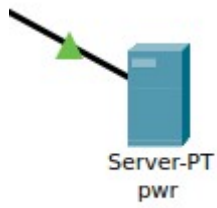
▪



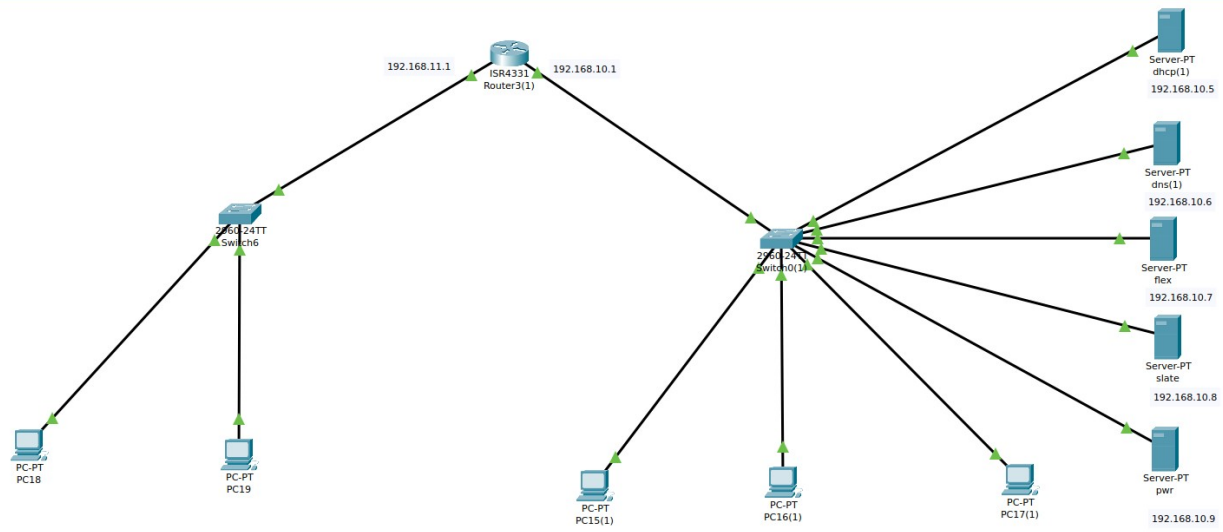
▪



▪▪



# Whole Topology:



## Router Configuration:

Router3(1)

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/0

Port Status

☒ On

Bandwidth

☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex

☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address

000D.BD6C.E80D

IP Configuration

IPv4 Address

192.168.10.1

Subnet Mask

255.255.255.0

Tx Ring Limit

10

Router3(1)

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/1

Port Status

☒ On

Bandwidth

☒ 1000 Mbps

☐ 100 Mbps

☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex

☒ Full Duplex

☒ Auto

MAC Address

000A.4185.85E4

IP Configuration

IPv4 Address

192.168.11.1

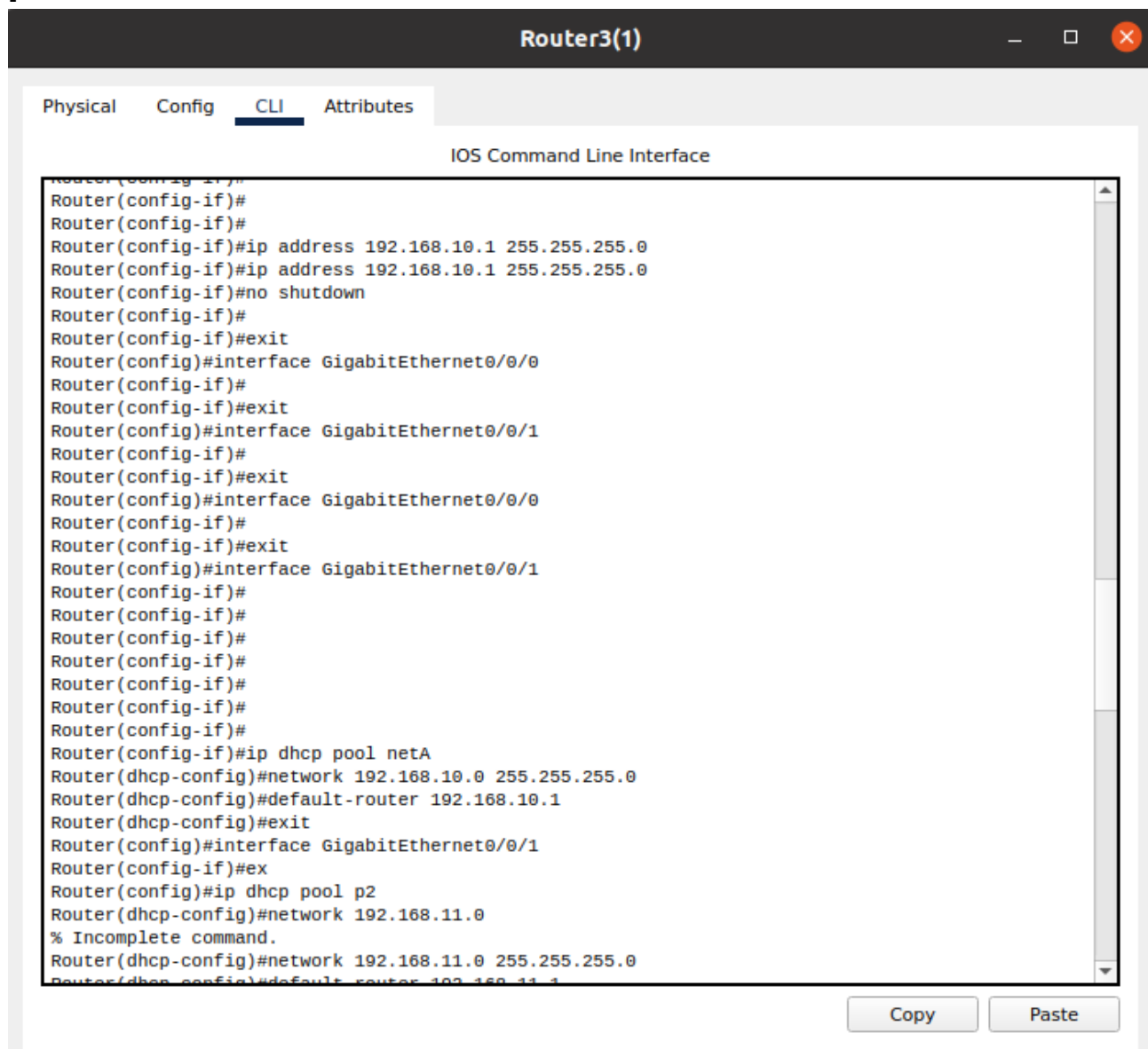
Subnet Mask

255.255.255.0

Tx Ring Limit

10

## CLI:



The screenshot shows a window titled "Router3(1)" with a dark header bar. Below the header is a tabbed interface with four tabs: "Physical", "Config", "CLI" (which is selected and highlighted with a blue underline), and "Attributes". The main content area is titled "IOS Command Line Interface" and contains a text box with the following commands:

```
Router(config-if)#
Router(config-if)#
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#ip dhcp pool netA
Router(dhcp-config)#network 192.168.10.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.10.1
Router(dhcp-config)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ex
Router(config)#ip dhcp pool p2
Router(dhcp-config)#network 192.168.11.0
% Incomplete command.
Router(dhcp-config)#network 192.168.11.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.11.1
```

At the bottom right of the window, there are two buttons: "Copy" and "Paste".

Router3(1)

Physical

Config

CLI

Attributes

IOS Command Line Interface

Router(config)#ip dhcp pool p2  
Router(dhcp-config)#network 192.168.11.0  
% Incomplete command.  
Router(dhcp-config)#network 192.168.11.0 255.255.255.0  
Router(dhcp-config)#default-router 192.168.11.1  
Router(dhcp-config)#ex  
Router(config)#

Router con0 is now available

Press RETURN to get started.

Copy

Paste

☐ Top

## Router3(1)

Physical Config CLI Attributes

## IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
%DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 192.168.10.9.

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
```

Copy

Paste

☐ Top

```
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
%DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 192.168.10.9.

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#|
```

[Copy](#)[Paste](#)☐ [Top](#)



# IP Configuration Of Servers:

## DHCP:

dhcp(1)

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.5

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::2D0:97FF:FE17:CA64

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

## DNS:

dns(1)

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.6

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::201:C9FF:FEB3:9ED9

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

Top

# Flex:

flex

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.7

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::290:21FF:FE93:72A9

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

## Slate:

slate

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.10.8

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::200:CFF:FE18:B7AD

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

Pwr:

pwr

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.9

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 192.168.10.6

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::201:C9FF:FE7A:703D

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

## DHCP,HTTP And DNS Configurations:

dhcp(1)

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

192.168.10.1

DNS Server

192.168.10.6

Start IP Address :

192

168

10

0

Subnet Mask:

255

255

255

0

Maximum Number of Users :

246

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPoolA	192.16...	192.16...	192.16...	255.25...	246	0.0.0.0	0.0.0.0
serverPool	192.16...	192.16...	192.16...	255.25...	246	0.0.0.0	0.0.0.0

☐ Top

dns(1)

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

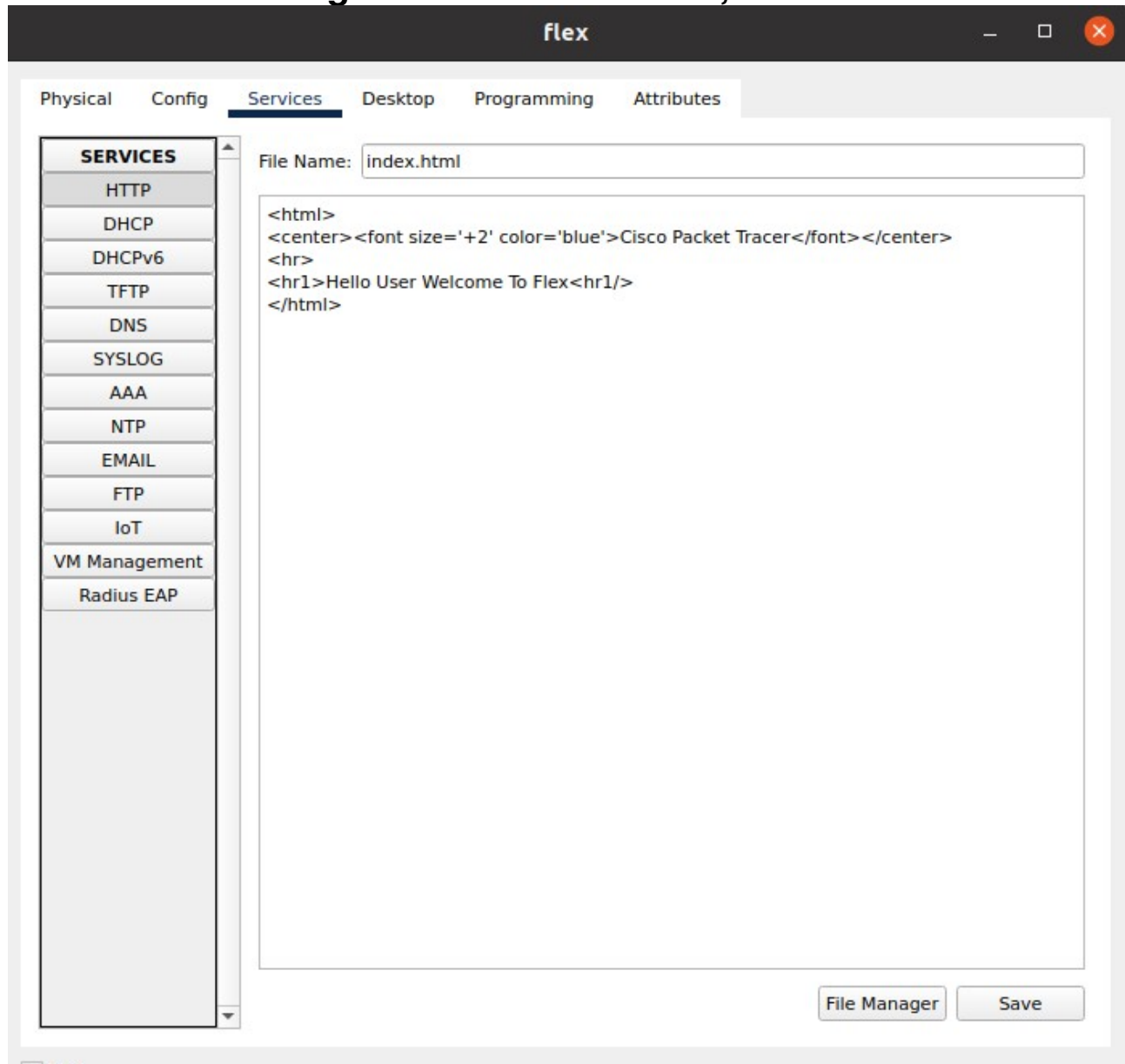
Save

Remove

No.	Name	Type	Detail
0	www.flex.com	A Record	192.168.10.7
1	www.pwr.com	A Record	192.168.10.9
2	www.slate.com	A Record	192.168.10.8

DNS Cache

## Index.HTML Changes in HTTPS OF Flex,Slate And Pwr:





Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

```
<html>
<center><font size='+2' color='blue'>Cisco Packet Tracer</font></center>
<hr>Welcome to Cisco Packet Tracer.
<hr1>Hello User Welcome To Slate<hr1/>
</html>
```

File Manager

Save

☐ Top

pwr

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

```
<html>
<center><font size='+2' color='blue'>Cisco Packet Tracer</font></center>
<hr>Welcome to Cisco Packet Tracer.
<hr1>Hello User Welcome To Pwr<hr1/>
</html>
```

## Setting DHCP ON PC's:

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.10.10

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::201:63FF:FE45:DB90

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

PC16(1)

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.10.4

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

192.168.10.6

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::290:CFF:FE20:811

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

Physical Config **Desktop** Programming Attributes

IP Configuration

X

Interface FastEthernet0

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

192.168.10.2

Subnet Mask

255.255.255.0

Default Gateway

192.168.10.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::210:11FF:FE35:E447

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

PC19

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

DHCP

Static

DHCP request successful.

IPv4 Address

192.168.11.3

Subnet Mask

255.255.255.0

Default Gateway

192.168.11.1

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::2D0:D3FF:FE73:7233

Default Gateway

DNS Server

802.1X

Use 802.1X Security

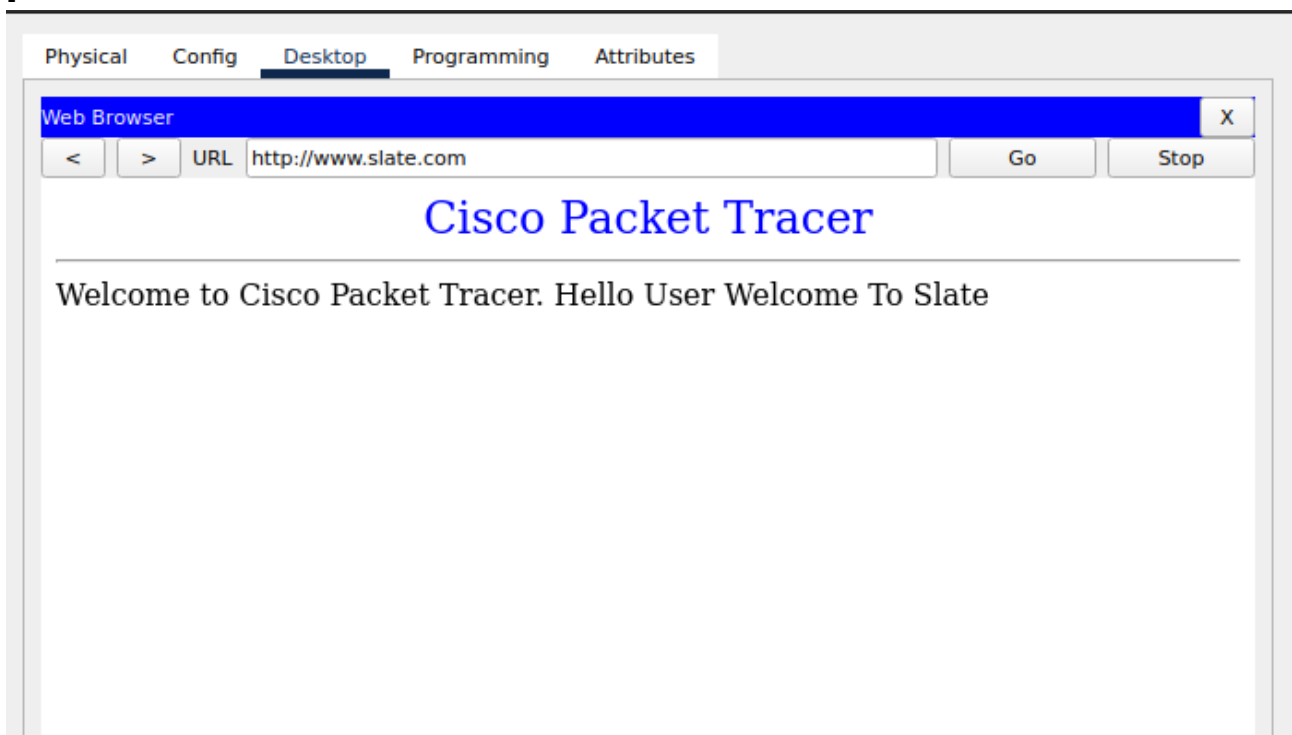
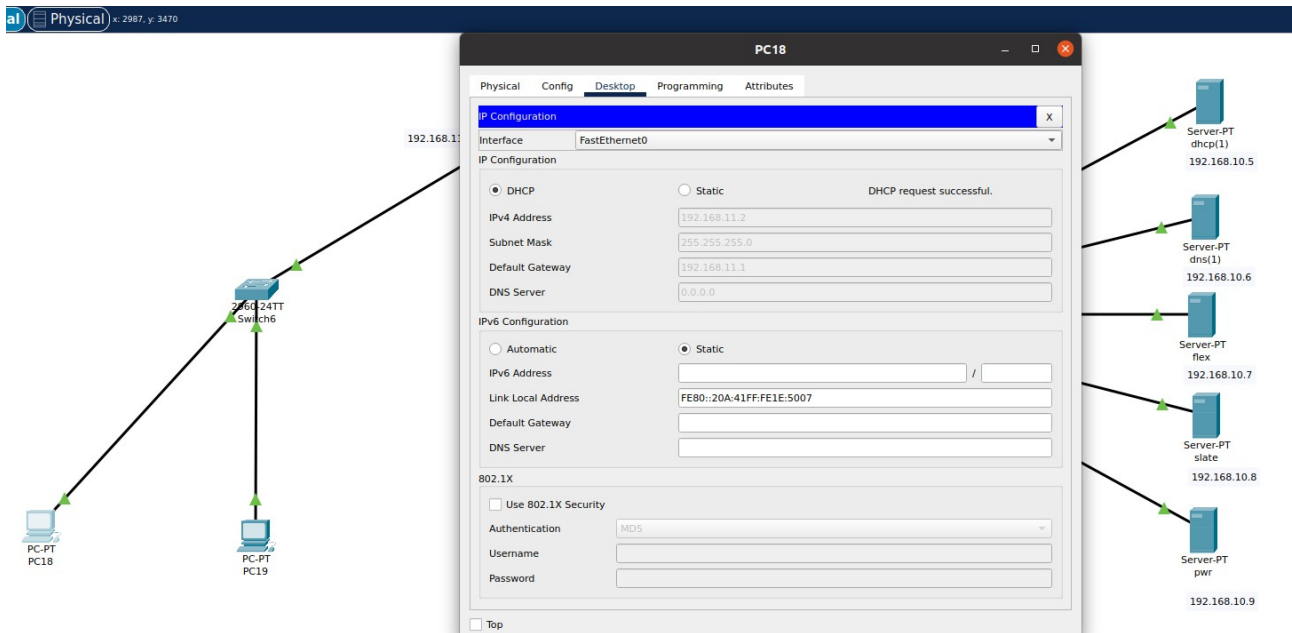
Authentication

MD5

Username

Password

Top







[illegible]