Name: Usama Yousuf Khan

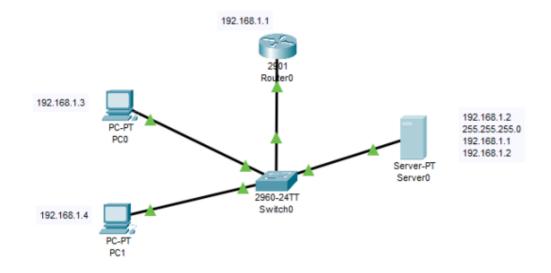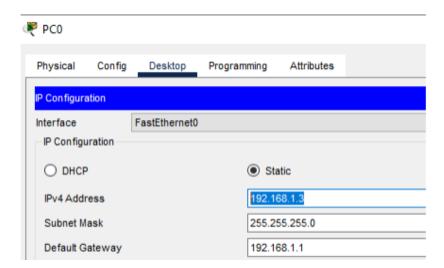**Sec: 5A**

Roll no 20P-0646

Course: CN LAB
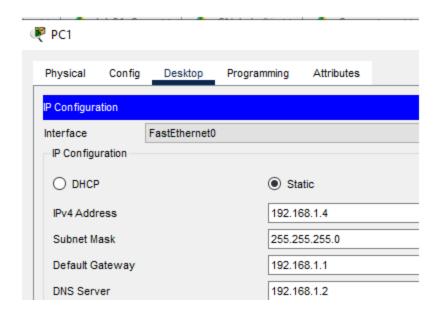
LAB 4 Tasks
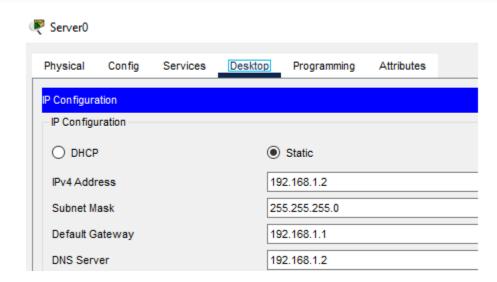
Submitted to Miss Hurmat hidayat

TASKS

1:

192.168.1.1

2901
Router0

192.168.1.3

PC-PT
PC0

192.168.1.2
255.255.255.0
192.168.1.1
192.168.1.2

Server-PT
Server0

2960-24TT
Switch0

192.168.1.4

PC-PT
PC1

PC0

| Physical | Config | Desktop | Programming | Attributes |

IP Configuration

Interface   FastEthernet0

IP Configuration

○ DHCP   ◉ Static

IPv4 Address   192.168.1.3

Subnet Mask   255.255.255.0

Default Gateway   192.168.1.1

PC1

Physical	Config	Desktop	Programming	Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address: 192.168.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.2

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

TASK

2:

TASK

3:

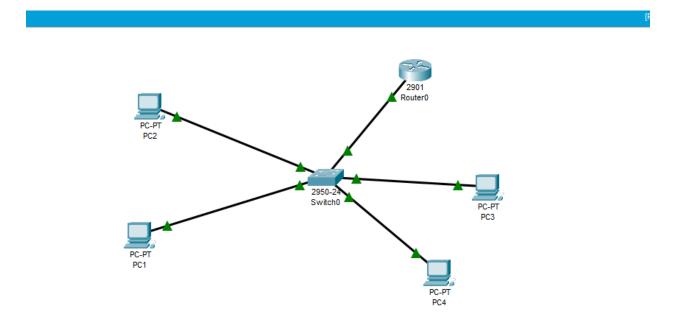Would you like to enter the initial configuration dialog? [yes/no]:
no

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
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
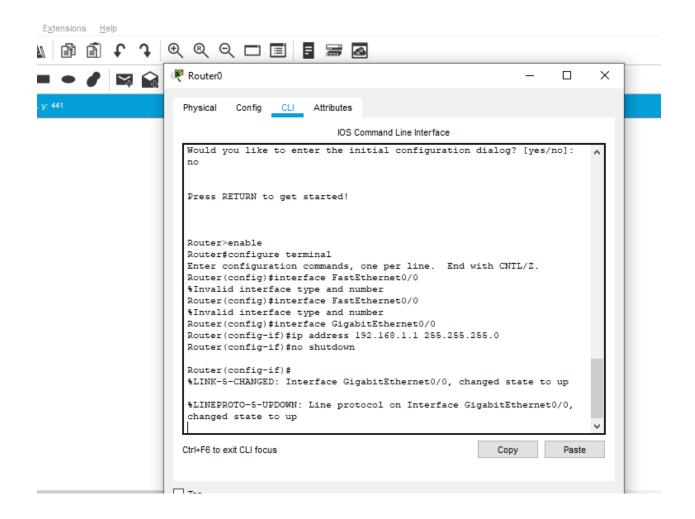
```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface GigabitEthernet0/0
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

Router(config-if)#ex
Router(config)#ip dhcp pool P1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dns-server 192.168.1.10
Router(dhcp-config)#ex
Router(config)#
```
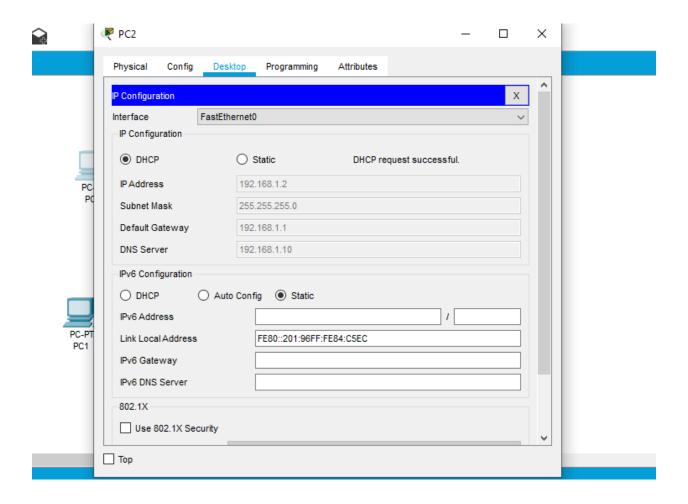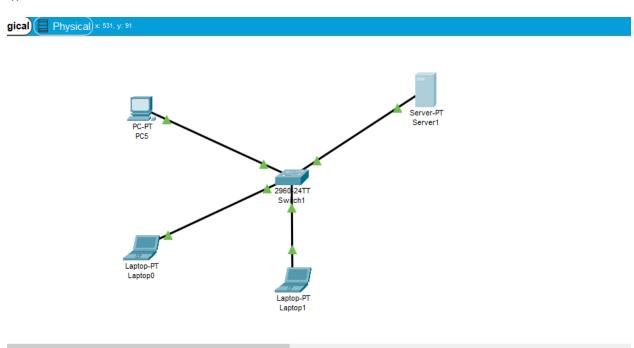
Ctrl+F6 to exit CLI focus

Copy   Paste

PC2

Physical | Config | Desktop | Programming | Attributes

IP Configuration | X

Interface | FastEthernet0

IP Configuration

◉ DHCP   ○ Static   DHCP request successful.

IP Address   192.168.1.2

Subnet Mask   255.255.255.0

Default Gateway 192.168.1.1

DNS Server   192.168.1.10

IPv6 Configuration

○ DHCP   ○ Auto Config   ◉ Static

IPv6 Address   /

Link Local Address   FE80::201:96FF:FE84:C5EC

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC-
PC

PC-PT
PC1

TASKS

4:

PC-PT
PC5

Server-PT
Server1

2960-24TT
Switch1

Laptop-PT
Laptop0

Laptop-PT
Laptop1

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: 192.168.1.1

DNS Server: 192.168.1.10

Start IP Address: 192 | 168 | 1 | 11

Subnet Mask: 255 | 255 | 255 | 0

Maximum Number of Users: 245

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
serverPool	192.168.1.1	192.168.1.10	192.168.1.11	255.255.255.0	245	0.0.0.0	0.0.0.0

Laptop0

Physical   Config   Desktop   Programming   Attributes

IP Configuration

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

Laptop1

Physical   Config   Desktop   Programming   Attributes

IP Configuration

Interface   FastEthernet0

IP Configuration

( ) DHCP   ( ) Static   DHCP request succ

IPv4 Address   192.168.1.13

Subnet Mask   255.255.255.0

Default Gateway   192.168.1.1

DNS Server   192.168.1.10

TASK

5:

Would you like to enter the initial configuration dialog? [ye

Press RETURN to get started!

Router>enable
Router#configure terminal
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

PC0

| Physical | Config | Desktop | Programming | Attributes |

IP Configuration

| Interface | FastEthernet0 |

IP Configuration

- ◉ DHCP   ○ Static   DHCP request succes

IPv4 Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.10

PC1

| Physical | Config | Desktop | Programming | Attributes |

IP Configuration

| Interface | FastEthernet0 |

IP Configuration

- ◉ DHCP   ○ Static   DHCP request succes

IPv4 Address	192.168.1.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.10

Server0

| Physical | Config | Services | Desktop | Programming | Attributes |

IP Configuration

IP Configuration

○ DHCP   ◉ Static

IPv4 Address   192.168.2.10

Subnet Mask   255.255.255.0

Default Gateway   192.168.2.1

DNS Server   192.168.2.10

IPv6 Configuration

Server1

| Physical | Config | Services | Desktop | Programming | Attributes |

IP Configuration

IP Configuration

○ DHCP   ◉ Static

IPv4 Address   192.168.2.11

Subnet Mask   255.255.255.0

Default Gateway   192.168.2.1

DNS Server   0.0.0.0

IPv6 Configuration

Server2

Physical	Config	Services	Desktop	Programming	Attributes

IP Configuration

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.2.12

Subnet Mask   255.255.255.0

Default Gateway   192.168.2.1

DNS Server   0.0.0.0

PC2

Physical	Config	Desktop	Programming	Attributes

IP Configuration

Interface   FastEthernet0

IP Configuration

● DHCP   ○ Static   DHCP request succe

IPv4 Address   192.168.2.16

Subnet Mask   255.255.255.0

Default Gateway   192.168.2.1

DNS Server   192.168.2.10