

Name =

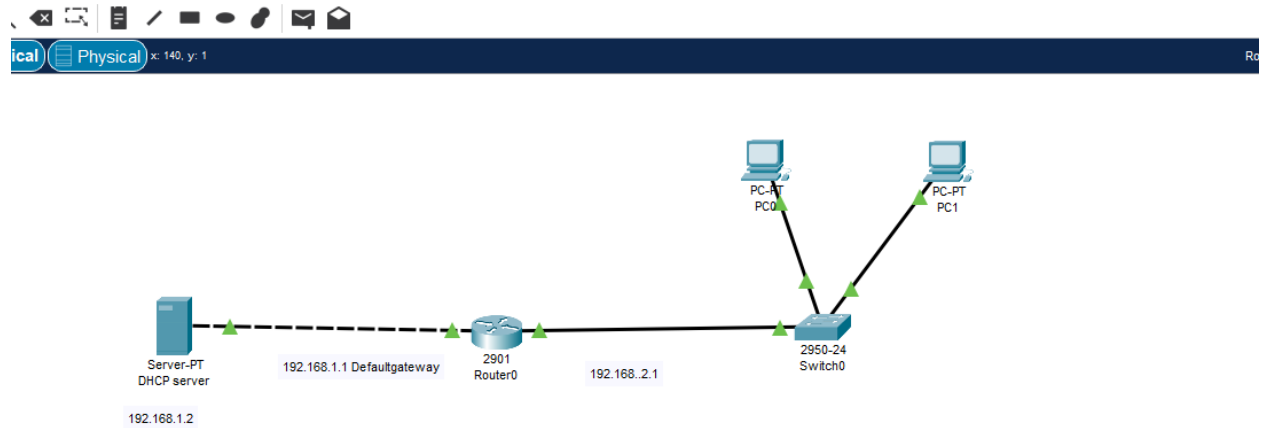
Abubaker Attique

Roll no = p20-0560

Section = 5-A

Lab 5

Creating Topology



Assign a static IP address to the server

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

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

 /

Link Local Address

FE80::2D0:BCFF:FECE:7E0

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

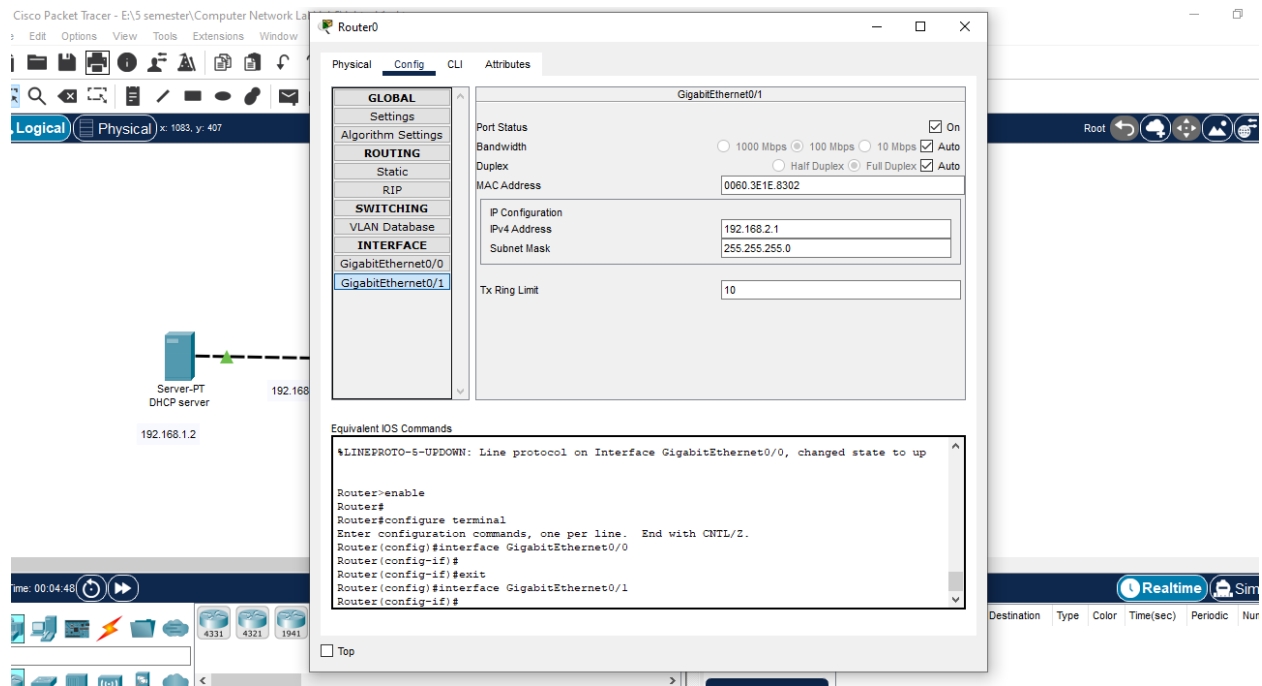
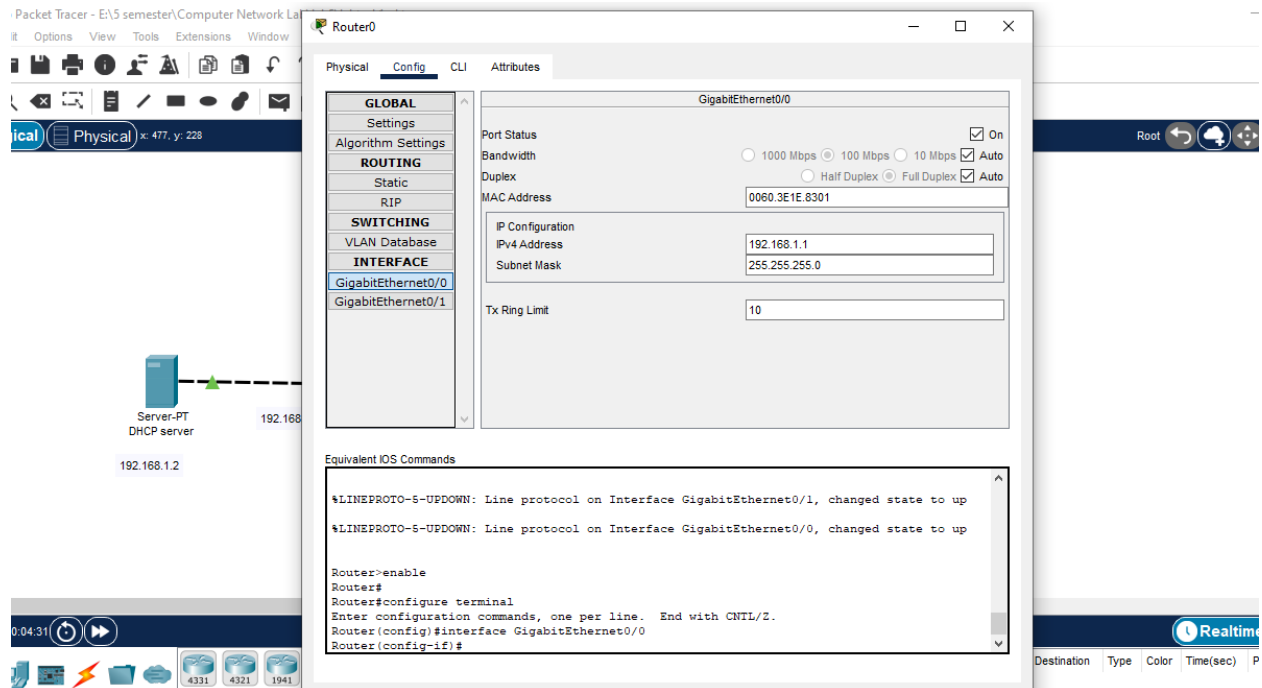
MD5

▼

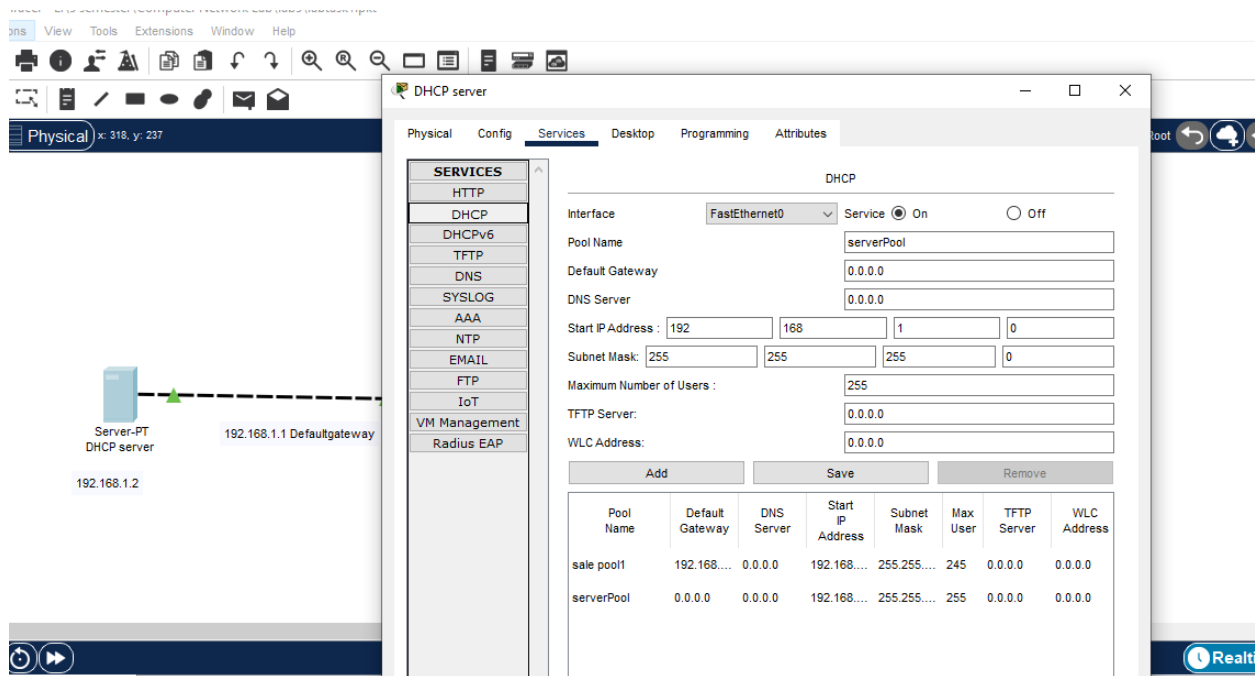
Username

Password

Router interface configurations



DHCP service



PCs will obtain their address from the DHCP server

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

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

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20A:41FF:FE4E:A71E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

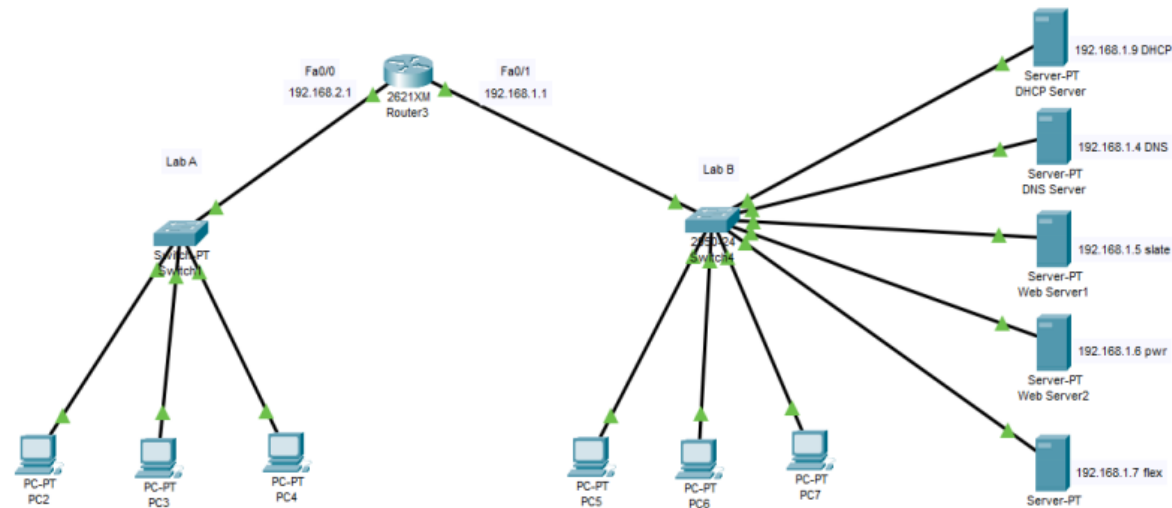
Authentication MD5

Username

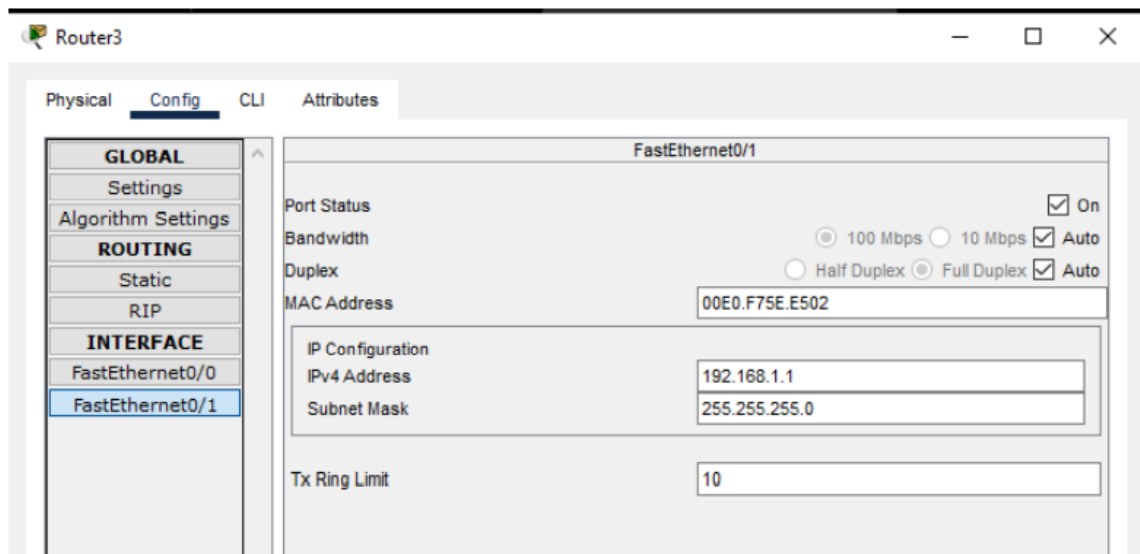
Password

Lab Task

1) Creating topology



Router configuration using cli:



Setting webserver:

Flex

Web Server1

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.4

IPv6 Configuration

PWR

Web Server1

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.4

IPv6 Configuration

State

The screenshot shows the 'Web Server3' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is highlighted in blue. It contains a sub-section 'IP Configuration' with two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Below these are four text input fields: 'IPv4 Address' (192.168.1.7), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (0.0.0.0), and 'DNS Server' (192.168.1.4). An 'IPv6 Configuration' section is partially visible at the bottom.

Field	Value
IPv4 Address	192.168.1.7
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	192.168.1.4

.) DNS CONFIGURATION

The screenshot shows the 'DNS Server' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is highlighted in blue. It contains a sub-section 'IP Configuration' with two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Below these are four text input fields: 'IPv4 Address' (192.168.1.4), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.1.1), and 'DNS Server' (192.168.1.4). An 'IPv6 Configuration' section is partially visible at the bottom.

Field	Value
IPv4 Address	192.168.1.4
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.4

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	www.flex.nu.edu.pk	A Record	192.168.1.7
1	www.pwr.nu.edu.pk	A Record	192.168.1.6
2	www.slate.nu.edu.pk	A Record	192.168.1.5

*) Now creating pool

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 **LabB pool**

Default Gateway **192.168.1.1**

DNS Server **192.168.1.4**

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**

Configuration of pcs

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request success

IPv4 Address 192.168.2.17

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 192.168.1.4

IPv6 Configuration

PC4

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request success

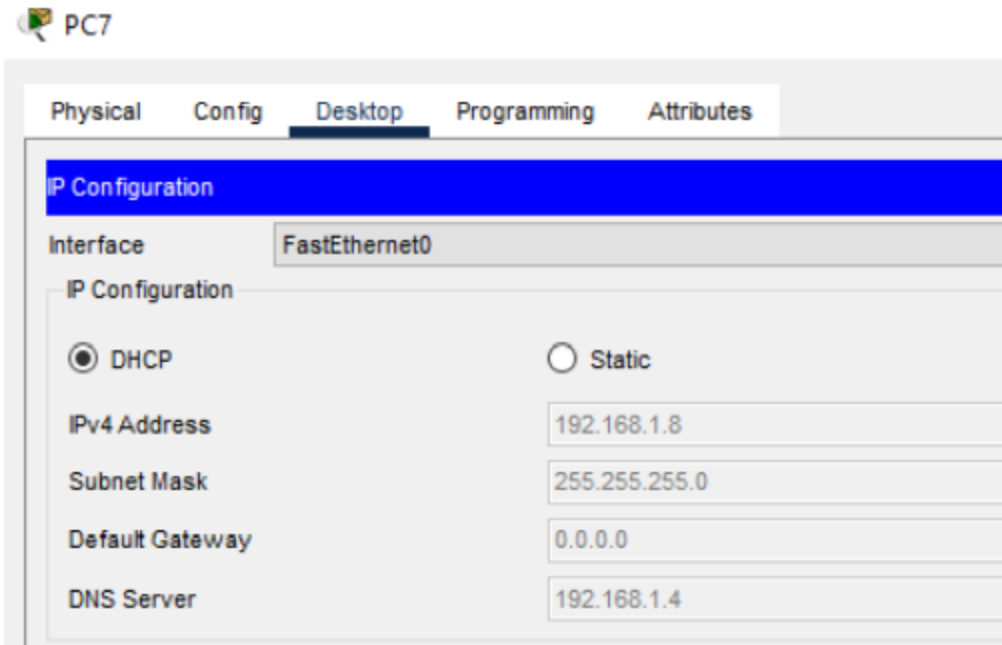
IPv4 Address 192.168.2.19

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 192.168.1.4

IPv6 Configuration



All pcs like above.

Thanks 😊