

# Abubakkar Abdullah

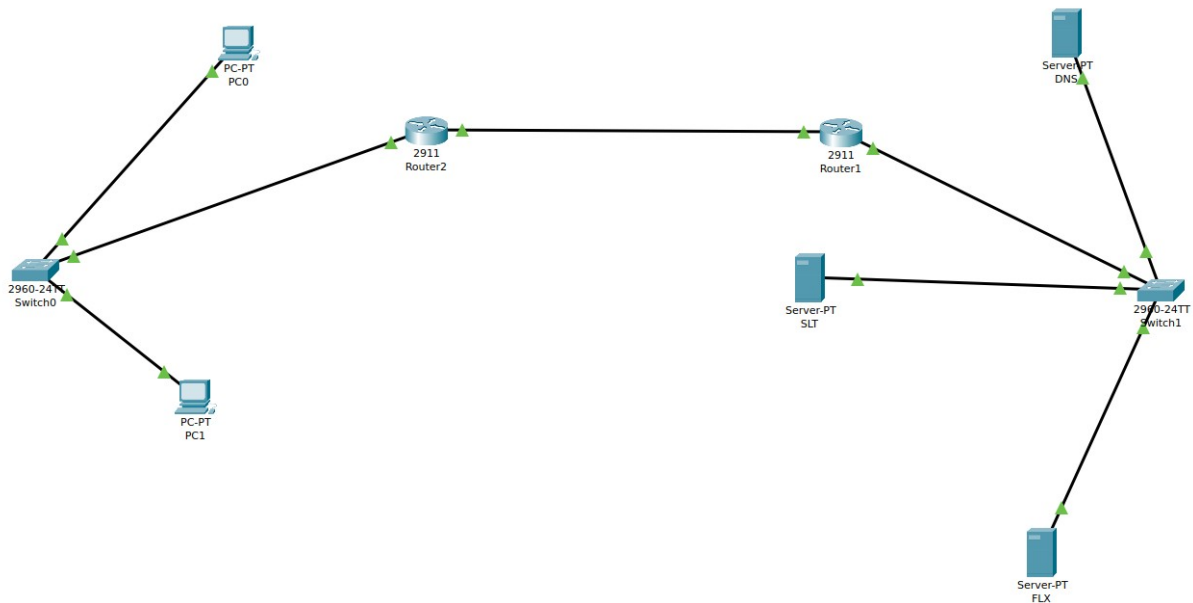
## 20p-0045

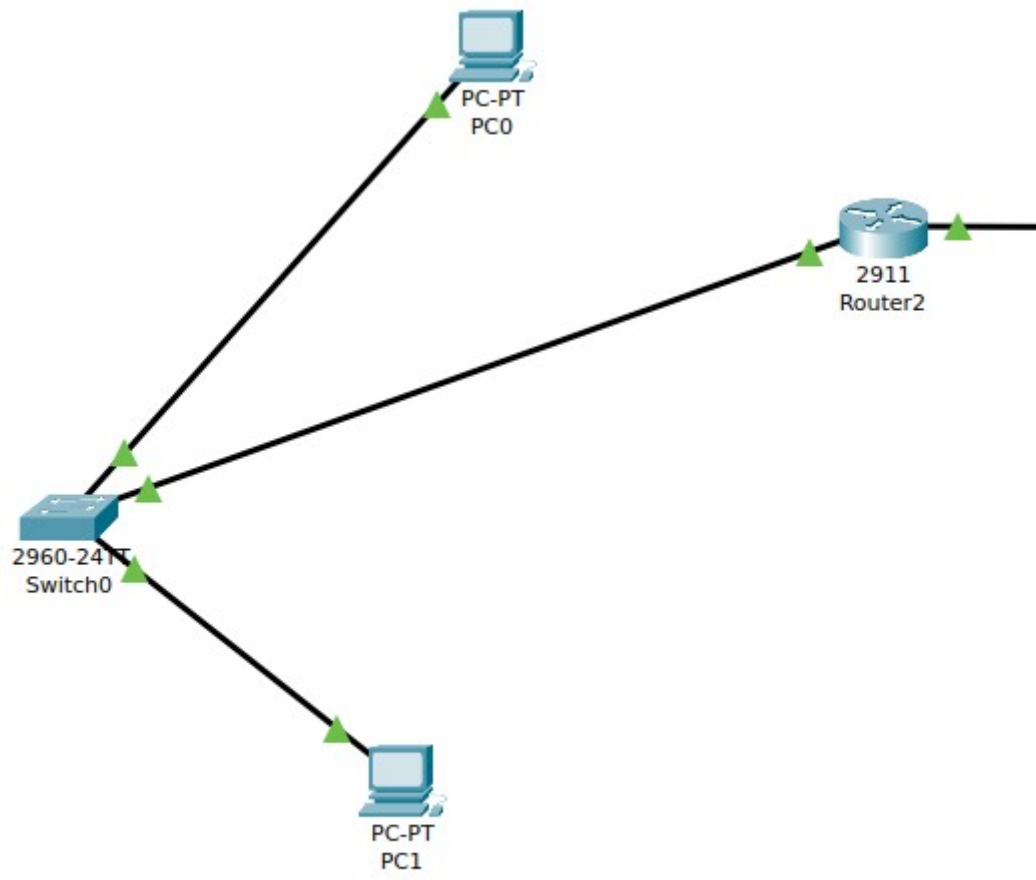
### Lab-13-Task

### BCS-5B

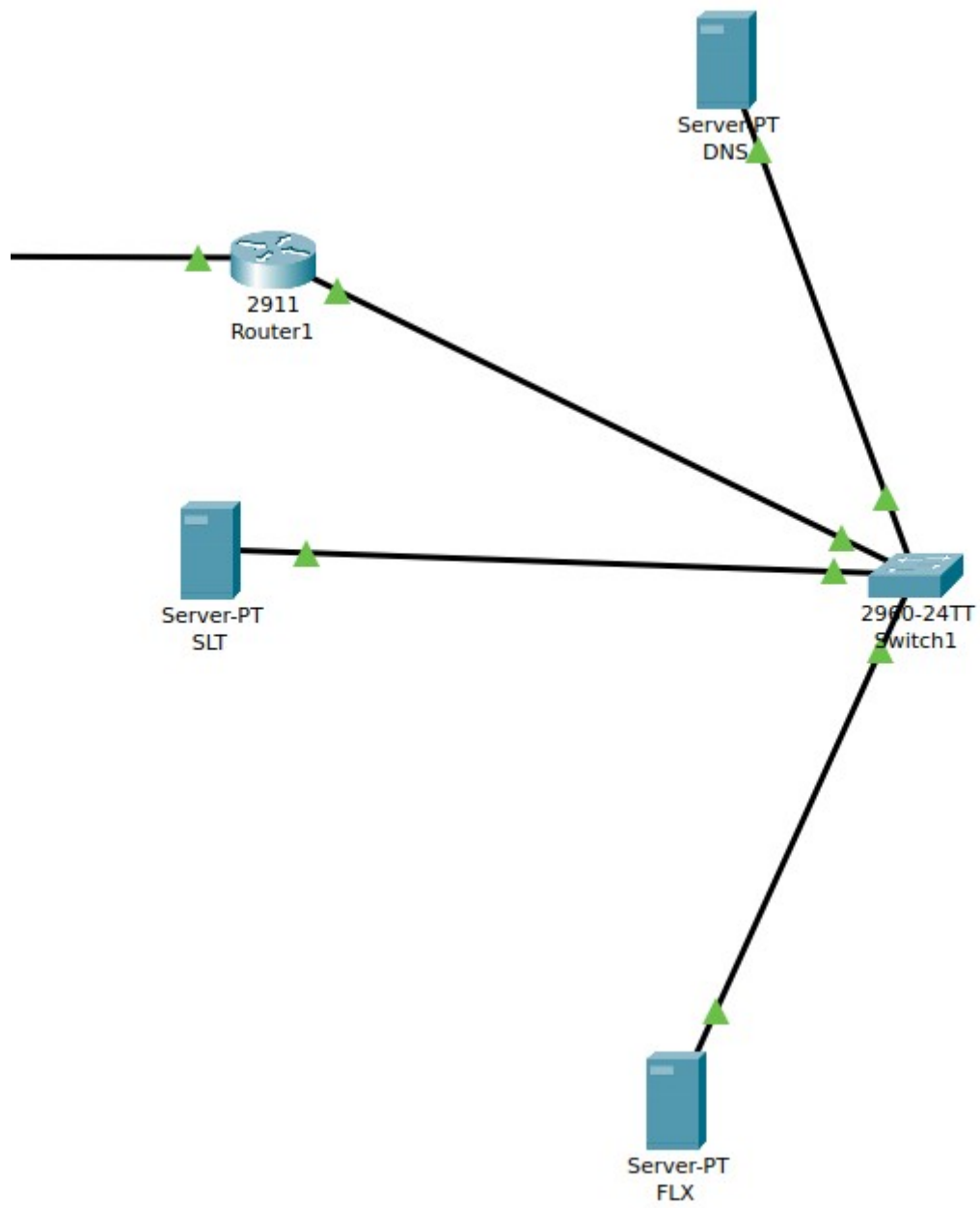
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## Topology :





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# Router-2- Configuration:

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0

**GigabitEthernet0/1**

GigabitEthernet0/2

**GigabitEthernet0/1**

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0050.0F6B.6602

IP Configuration

IPv4 Address 100.0.0.1

Subnet Mask 255.0.0.0

Tx Ring Limit 10

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Physical **Config** CLI Attributes

**GLOBAL**

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Algorithm Settings

**ROUTING**

Static

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VLAN Database

**INTERFACE**

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

**GigabitEthernet0/0**

Port Status ☒ On

Bandwidth ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0050.0F6B.6601

IP Configuration

IPv4 Address 10.0.0.1

Subnet Mask 255.0.0.0

Tx Ring Limit 10

•

# Router-1- Configuration:

Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

**GigabitEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0007.EC65.3B01

IP Configuration

IPv4 Address 100.0.0.2

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

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Physical **Config** CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0

GigabitEthernet0/1

**GigabitEthernet0/2**

Port Status ☒ On

Bandwidth ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0007.EC65.3B03

IP Configuration

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

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# DNS Configuration:

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

192.168.1.1

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::250:FFF:FED4:B58E

Default Gateway

DNS Server

802.1X

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	192.168.1.3
1	www.slate.com	A Record	192.168.1.4

# Slate-Config:

The screenshot shows the 'Slate-Config' interface with the 'Desktop' tab selected. A window titled 'IP Configuration' is open, showing settings for IP Configuration and IPv6 Configuration.

**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

**IPv6 Configuration**

- ☐ Automatic
- ☒ Static

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The screenshot shows the 'Slate-Config' interface with the 'Services' tab selected. A window titled 'SERVICES' is open, showing a list of services and a text area for configuration.

**SERVICES**

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

File Name: index.html

```
<html>
<h2>Welcome</h2>
</html>
```

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# Flex-Config:

Physical Config **Services** Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL

File Name: index.html

```
<html>
<h3>WELCOME</h3>
</html>
```

# Routing:

## Left Side NAT:

```
#interface GigabitEthernet0/0
if)#access-list 1 permit 10.0.0.0 0.255.255.255
#ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
#ip nat inside source list 1 pool ccna
```



- ```

)ip nat inside source list 1 pool ccna
)#interface GigabitEthernet0/0
-if)#ip nat inside
-if)#exit
)#interface GigabitEthernet0/1
-if)#ip nat outside
-if)#exit

```

## Right Side NAT:

- ```

)#interface GigabitEthernet0/0
-if)#ip nat outside
-if)#
-if)#
-if)#exit
)#interface GigabitEthernet0/0

```

- ```

ip nat inside source static 192.168.1.2 200.0.0.2
interface GigabitEthernet0/1

```

- ```

ip nat inside source static 192.168.1.3 200.0.0.3
interface GigabitEthernet0/1

```

- ```

interface GigabitEthernet0/1
-if)#ip nat inside source static 192.168.1.4 200.0.0.4

```

**ROUTING TESTING:**  
Simple Open The  
Browser And By The  
Result Of  
[www.flex.com](http://www.flex.com) or

[www.slate.com](http://www.slate.com) you  
will get the  
respective sites.