

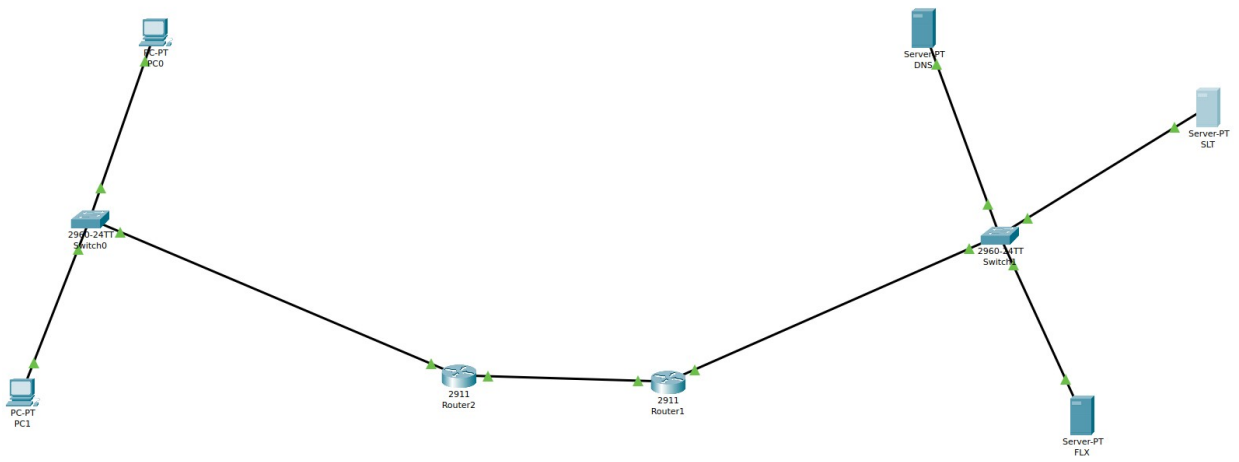
Abubakkar Abdullah

20p-0045

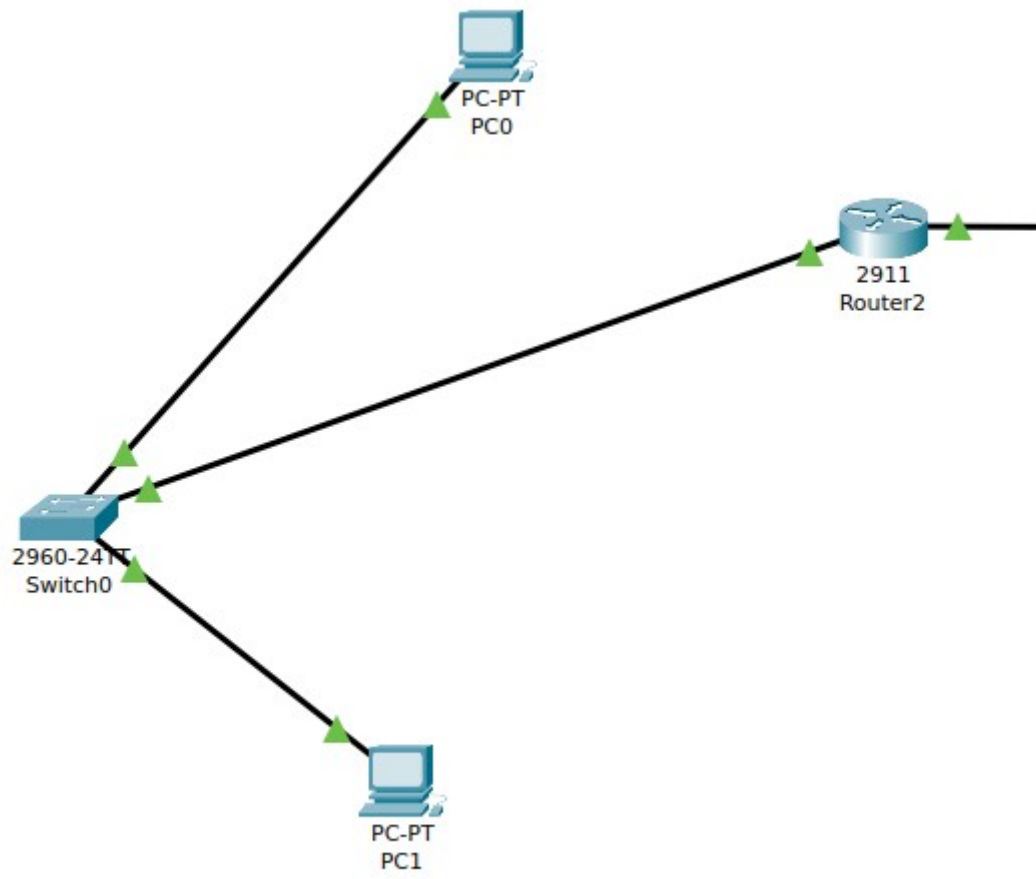
Lab-13-Task

BCS-5B

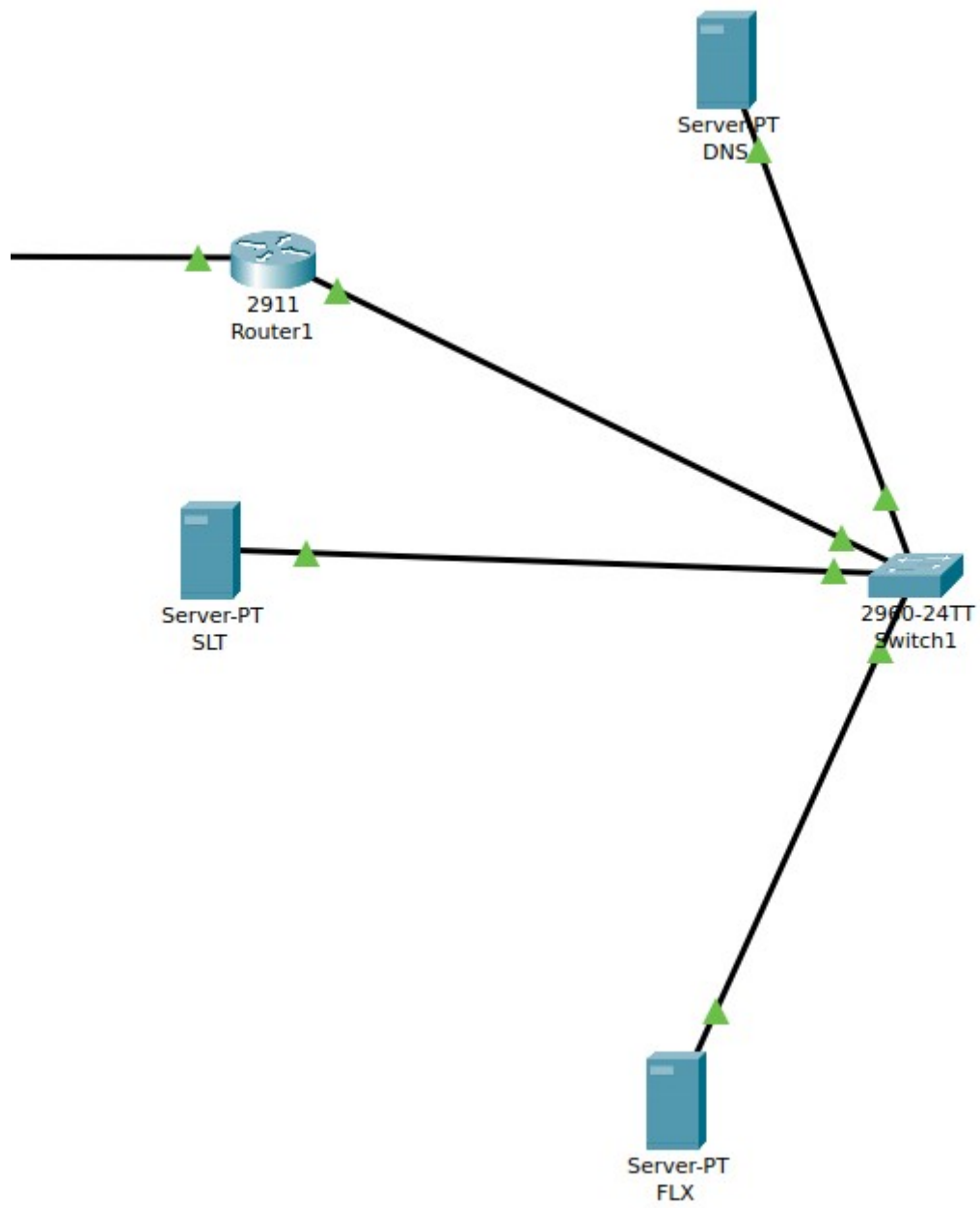
Topology :



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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

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 0050.0F6B.6601

IP Configuration

IPv4 Address 10.0.0.1

Subnet Mask 255.0.0.0

Tx Ring Limit 10

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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

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

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 'Desktop' tab in the Slate-Config interface. A blue header bar at the top of the configuration area reads 'IP Configuration' with a close button 'X' on the right. Below this, the 'IP Configuration' section has two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Under the 'Static' option, there are four text input fields: 'IPv4 Address' with the value '192.168.1.4', 'Subnet Mask' with '255.255.255.0', 'Default Gateway' with '192.168.1.1', and 'DNS Server' with '192.168.1.2'. Below these fields is the 'IPv6 Configuration' section, which also has two radio buttons: 'Automatic' (unselected) and 'Static' (selected).

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The screenshot shows the 'Services' tab in the Slate-Config interface. On the left, there is a vertical list of services: HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP, IoT, VM Management, and Radius EAP. To the right of this list, there is a 'File Name:' label followed by a text input field containing 'index.html'. Below the file name field is a large text area containing the following HTML code:

```
<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.