



National University

Of Computer and Emerging Sciences

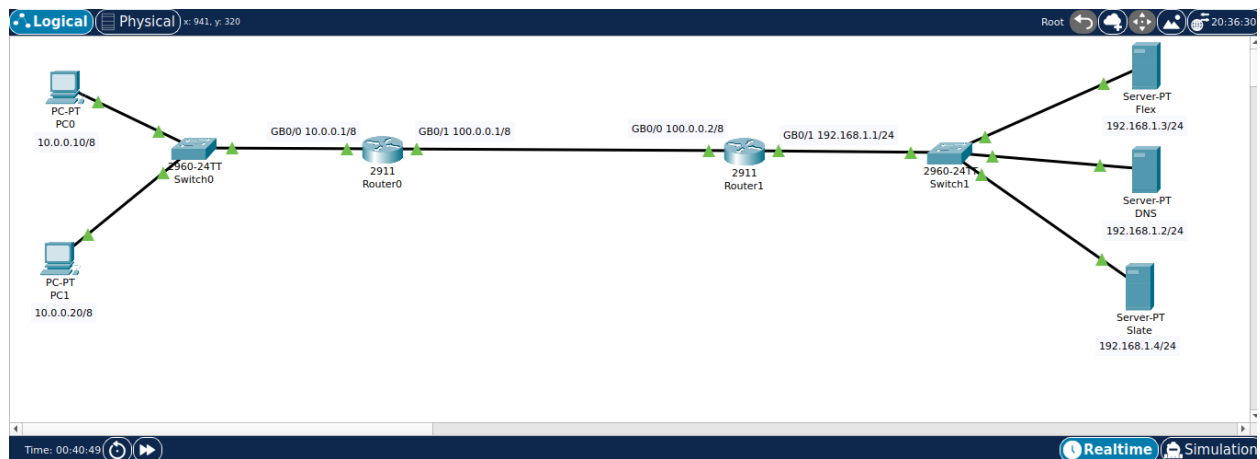
Lab 13

NAME: Muhammad Hassan Shah

ROLL NO: 20P-0025

SECTION: BSCS 5-B

Course: CN -LAB



Create this topology

Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
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

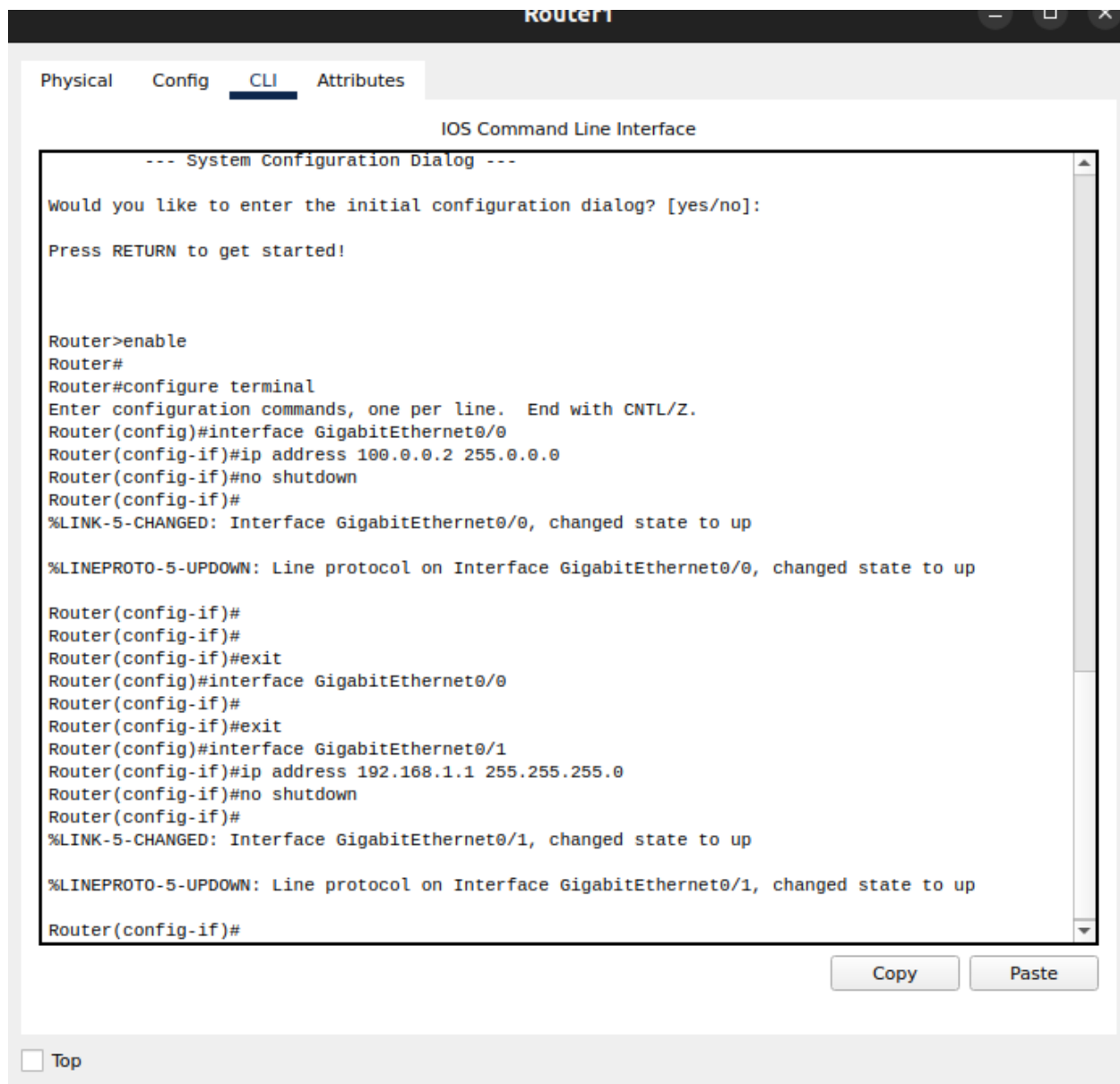
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#no ip address
Router(config-if)#ip address 100.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 100.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

Router(config-if)#
```

Copy Paste

☐ Top

Interfacing Router 0



Interfacing Router 1

DNS

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::260:47FF:FE83:2BE6

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

DNS Configuration

DNS

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DNS

DNS Service

On

Off

Resource Records

Name

www.slate.com

Type

A Record

Address

192.168.1.4

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

DNS Cache

Top

Flex

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

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

/

Link Local Address

FE80::2E0:F9FF:FE59:BB73

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

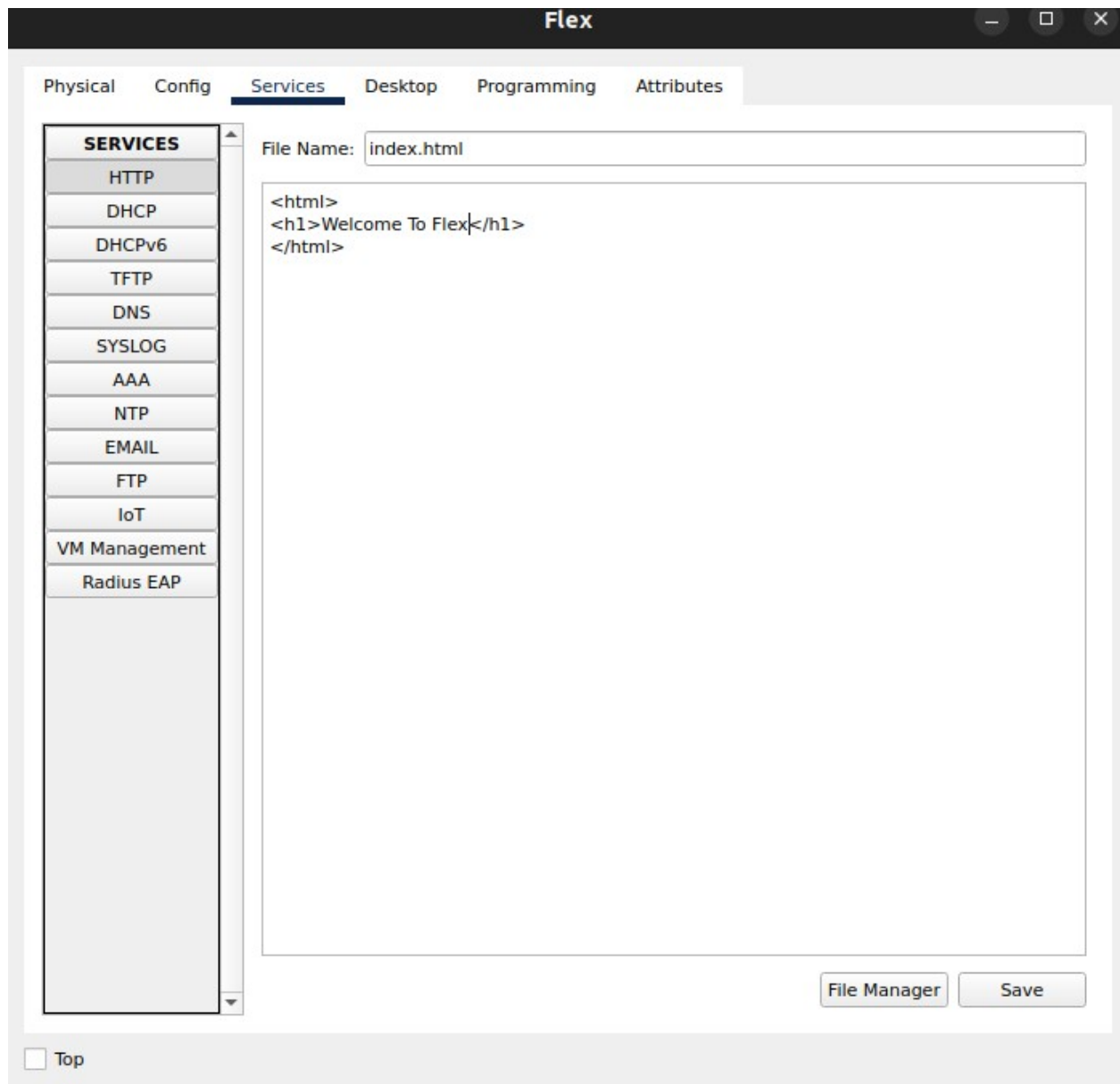
MD5

Username

Password

☐ Top

Flex Server Configuration



Editing Index File in Flex Server

Slate

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

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

IPv6 Address

/

Link Local Address

FE80::207:ECFF:FEA5:E391

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

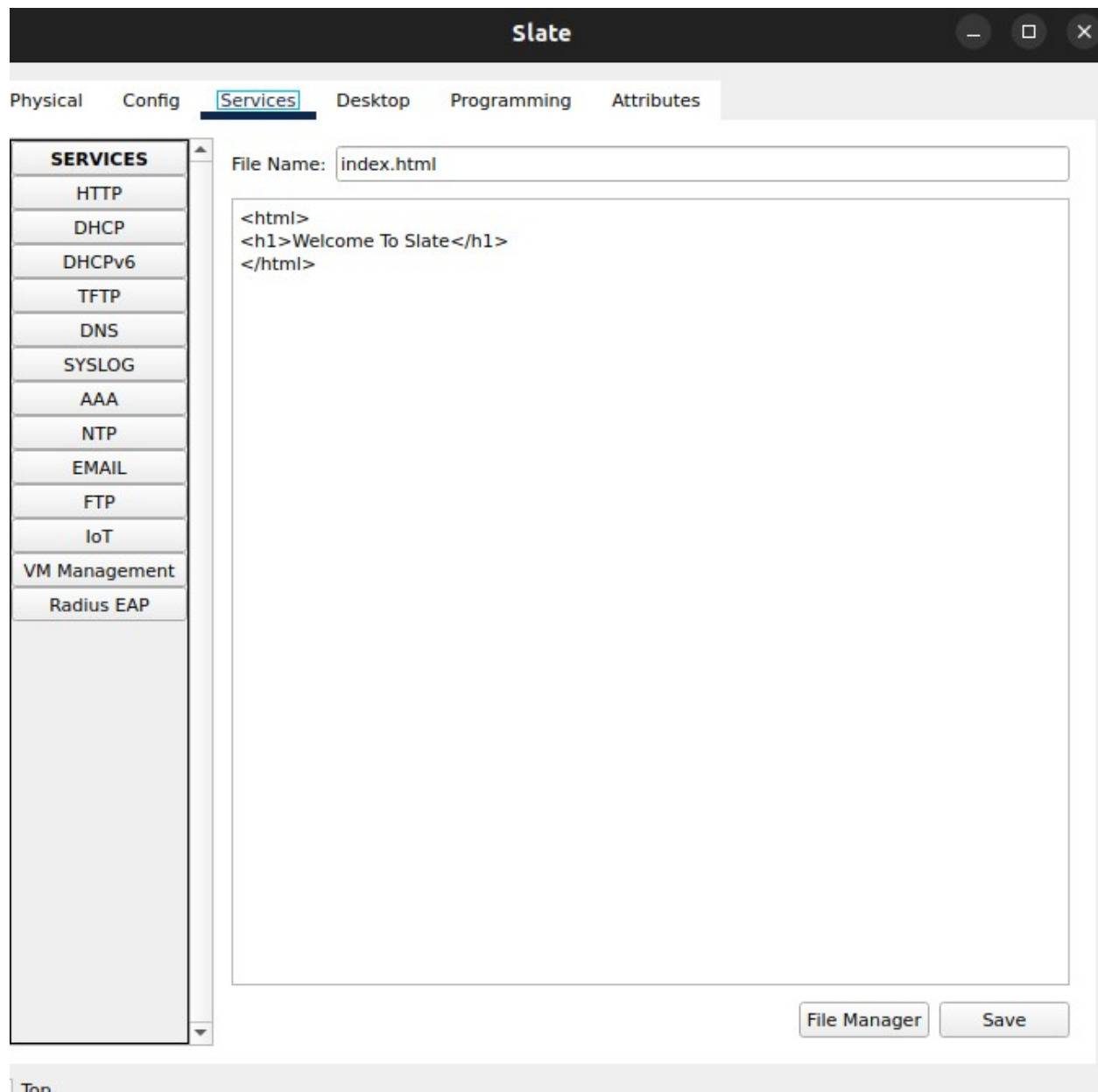
MD5

Username

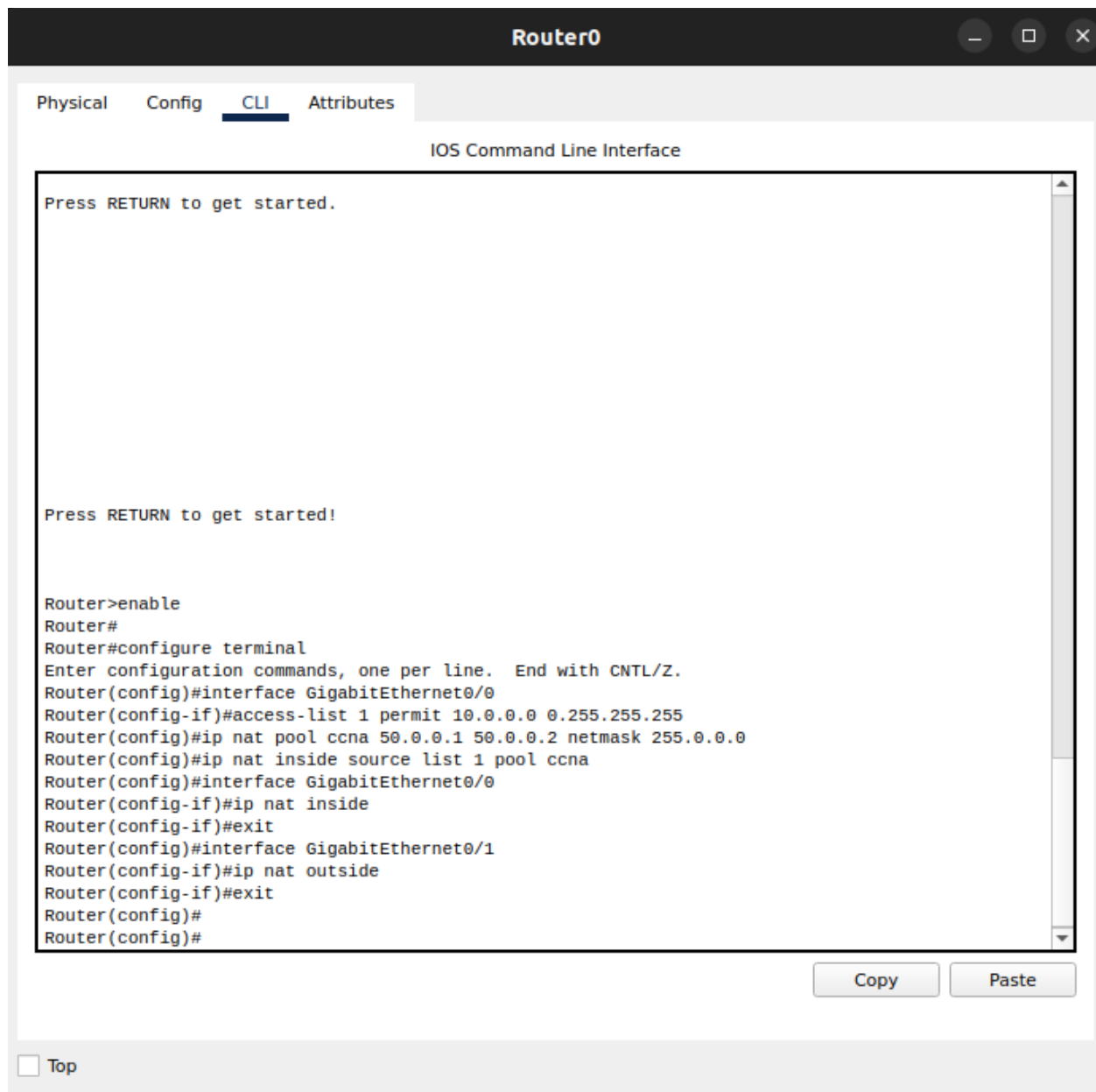
Password

☐ Top

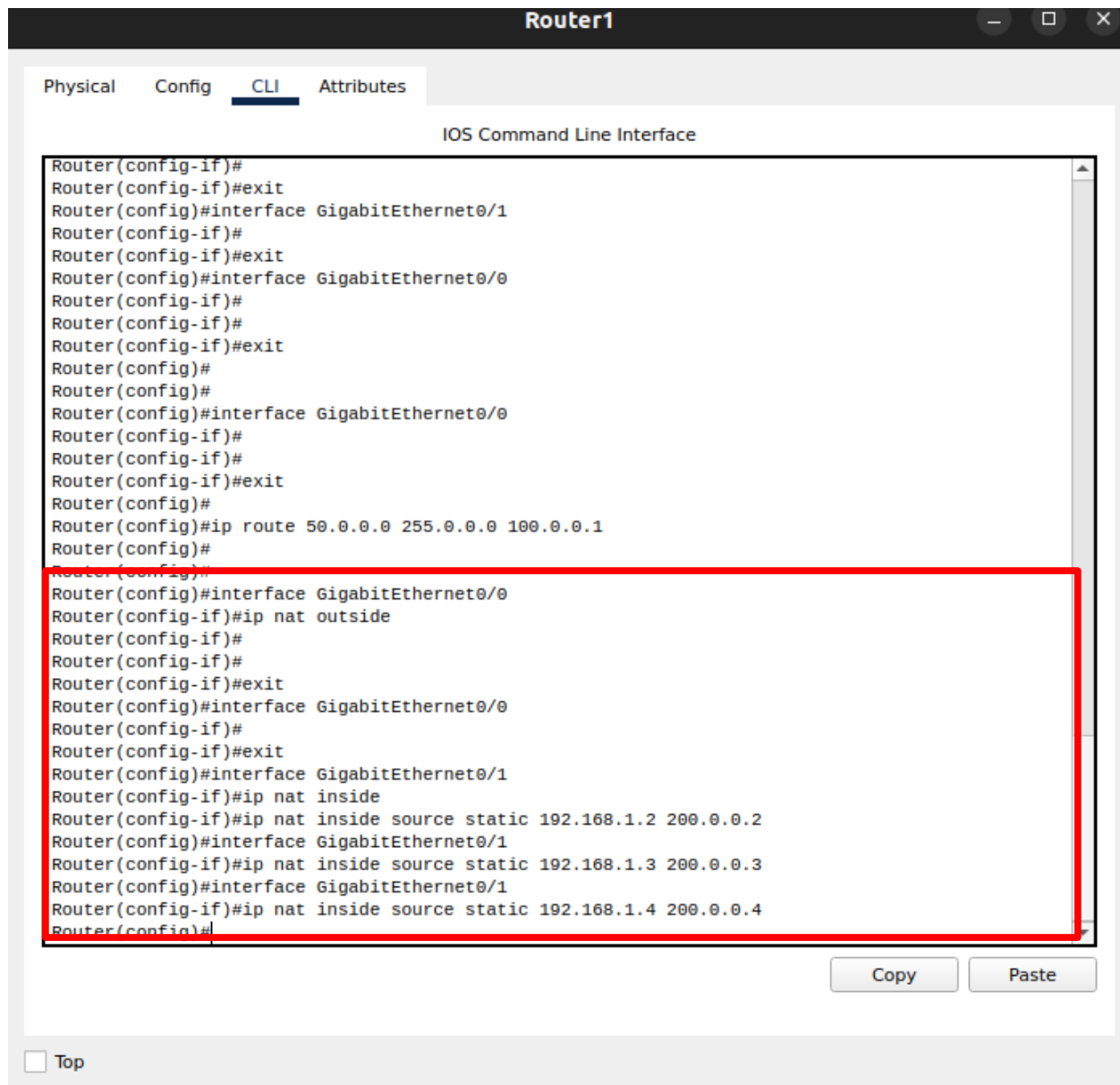
Configuring Slate



Index File of slate



Configuring NAT for Left Side Network



Configuring NAT for Right Side Network

Routing

Router0

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

Static Routes

Network

200.0.0.0

Mask

255.255.255|0

Next Hop

100.0.0.2

Add

Network Address

Remove

Equivalent IOS Commands

Router(config)#

Router(config)#

Router(config)#

Router(config)#

Router(config)#

Router(config)#

Router(config)#no ip route 192.168.1.0 255.255.255.0 100.0.0.2

Router(config)#ip route 200.0.0.0 255.0.0.0 100.0.0.2

Router(config)#no ip route 200.0.0.0 255.0.0.0 100.0.0.2

Router(config)#

☐ Top

Router1

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

Static Routes

Network

50.0.0.0

Mask

255.0.0.0

Next Hop

100.0.0.1

Add

Network Address

Remove

Equivalent IOS Commands

Router(config-if)#

Router(config-if)#exit

Router(config)#

Router(config)#

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#

Router(config)#

☐ Top

Results

