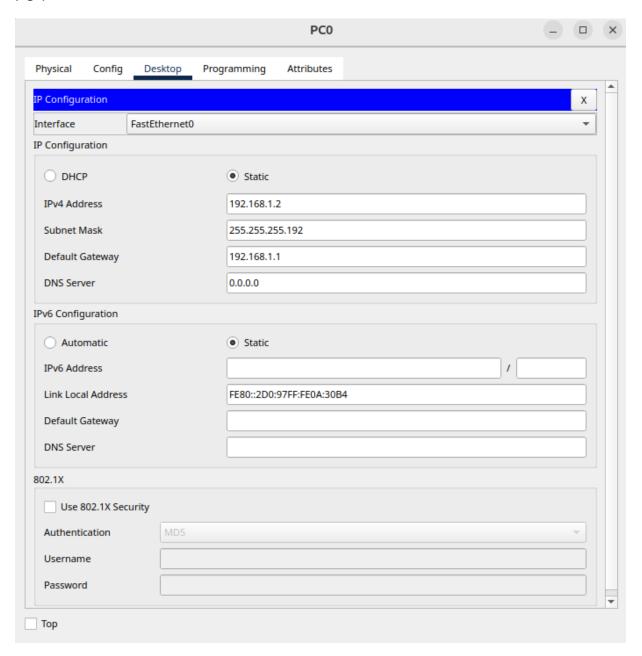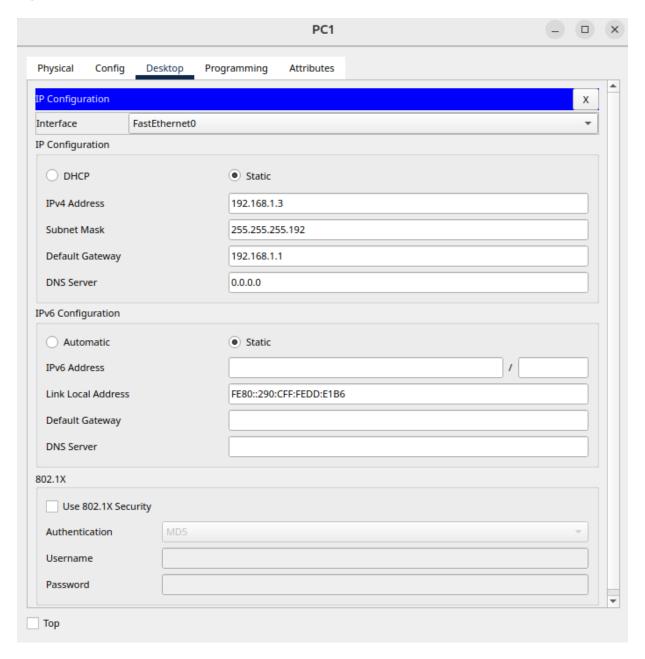# Lab Report: Configuring FLSM Subnetting and Basic Cisco Router Setup

MUHAMMAD TALHA ISHAQUE
B22F1226SE043

SE-RED F-22

PC 1

PC0 _ □ ✕

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration	X

Interface	FastEthernet0 ▼

IP Configuration

○ DHCP   ⦿ Static

IPv4 Address	192.168.1.2
Subnet Mask	255.255.255.192
Default Gateway	192.168.1.1
DNS Server	0.0.0.0

IPv6 Configuration

○ Automatic   ⦿ Static

IPv6 Address		/
Link Local Address	FE80::2D0:97FF:FE0A:30B4	
Default Gateway		
DNS Server		

802.1X

☐ Use 802.1X Security

Authentication	MD5 ▼
Username	
Password	

☐ Top

PC 2

PC1   — □ ✕

| Physical | Config | Desktop | Programming | Attributes |

IP Configuration   X

| Interface | FastEthernet0 | ▾ |

IP Configuration

○ DHCP   ● Static

IPv4 Address	192.168.1.3
Subnet Mask	255.255.255.192
Default Gateway	192.168.1.1
DNS Server	0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address		/
Link Local Address	FE80::290:CFF:FEDD:E1B6
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5	▾
Username	
Password	

☐ Top

PC 3

PC2 — □ ✕

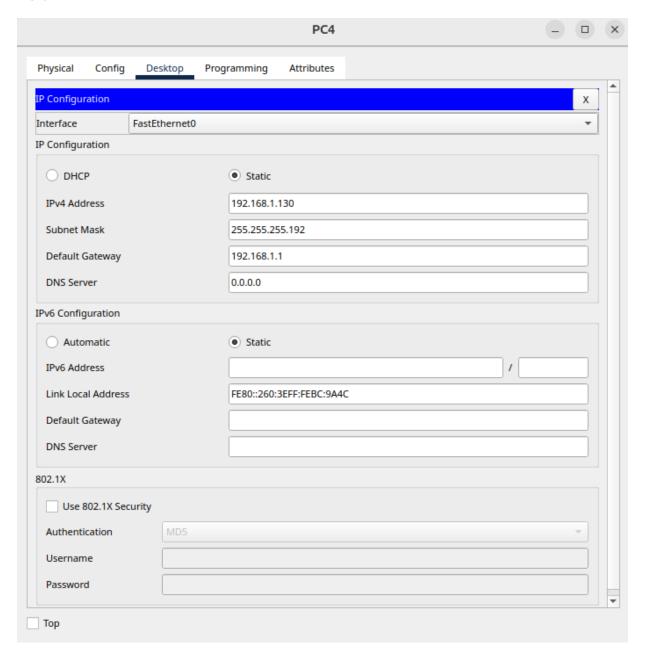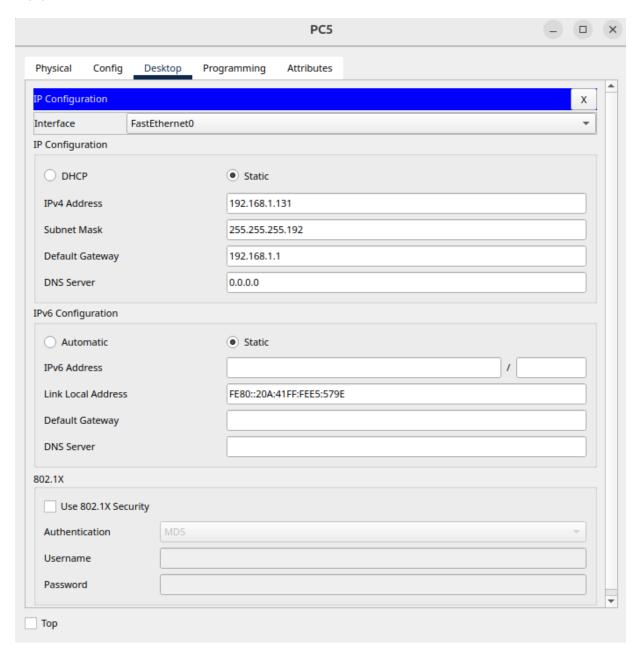Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ▼

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.1.66

Subnet Mask   255.255.255.192

Default Gateway   192.168.1.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   /

Link Local Address FE80::2D0:97FF:FE6B:8717

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ▼

Username

Password

☐ Top

PC 4

PC3

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration   X

| Interface | FastEthernet0 | ▼ |

IP Configuration

- ○ DHCP   ● Static

IPv4 Address	192.168.1.67
Subnet Mask	255.255.255.192
Default Gateway	192.168.1.1
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic   ● Static

IPv6 Address		/	
Link Local Address	FE80::240:BFF:FE84:9DAC
Default Gateway	
DNS Server	

802.1X

- ☐ Use 802.1X Security

Authentication	MD5	▼
Username	
Password	

☐ Top

PC 5

| PC4 | | | | | — | □ | ✕ |

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ▾

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.1.130

Subnet Mask   255.255.255.192

Default Gateway   192.168.1.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   /

Link Local Address   FE80::260:3EFF:FEBC:9A4C

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ▾

Username

Password

☐ Top

PC 6

PC5 — Physical | Config | Desktop | Programming | Attributes

IP Configuration X

Interface	FastEthernet0

IP Configuration

○ DHCP ● Static

IPv4 Address	192.168.1.131
Subnet Mask	255.255.255.192
Default Gateway	192.168.1.1
DNS Server	0.0.0.0

IPv6 Configuration

○ Automatic ● Static

IPv6 Address		/
Link Local Address	FE80::20A:41FF:FEE5:579E
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

☐ Top

PC 7
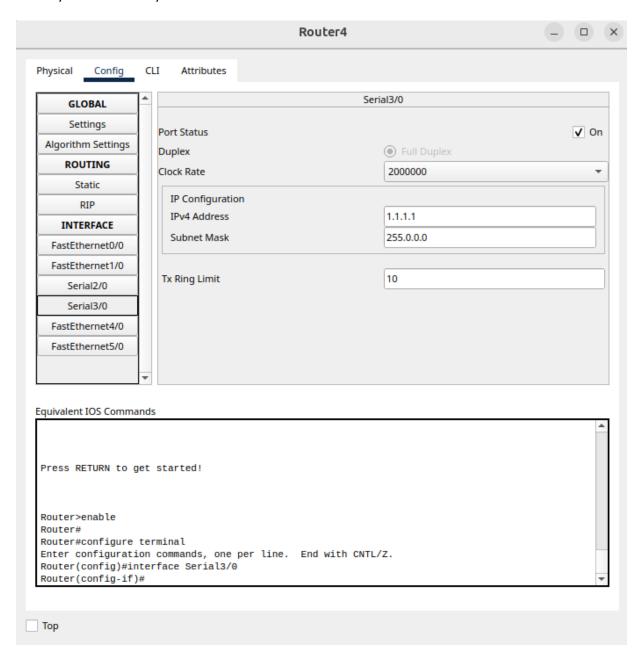

PC6

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ▼

IP Configuration

  ○ DHCP   ● Static

  IPv4 Address   192.168.1.194

  Subnet Mask   255.255.255.192

  Default Gateway   192.168.1.1

  DNS Server   0.0.0.0

IPv6 Configuration

  ○ Automatic   ● Static

  IPv6 Address   /

  Link Local Address   FE80::20C:CFFF:FECE:D3E4

  Default Gateway
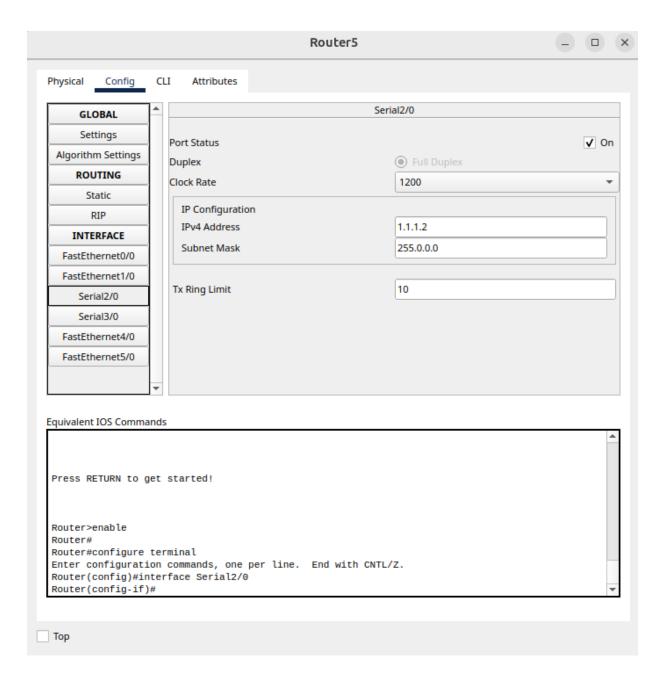
  DNS Server

802.1X

  ☐ Use 802.1X Security

  Authentication   MD5   ▼

  Username

  Password

☐ Top

PC 8

PC7 — Desktop — IP Configuration

Interface: FastEthernet0

IP Configuration

- ( ) DHCP   (•) Static

IPv4 Address: 192.168.1.195
Subnet Mask: 255.255.255.192
Default Gateway: 192.168.1.1
DNS Server: 0.0.0.0

IPv6 Configuration

- ( ) Automatic   (•) Static

IPv6 Address: _____ / ____
Link Local Address: FE80::260:47FF:FE43:B359
Default Gateway: _____
DNS Server: _____

802.1X

- [ ] Use 802.1X Security

Authentication: MD5
Username: _____
Password: _____

[ ] Top

Router 1 -----------------Router 2

1.1.1.1/30   1.1.1.2/30

Router4 — Config tab (Serial3/0)

Serial3/0

Port Status   ☑ On
Duplex   ◉ Full Duplex
Clock Rate   2000000

IP Configuration
IPv4 Address   1.1.1.1
Subnet Mask   255.0.0.0

Tx Ring Limit   10

Equivalent IOS Commands

```
Press RETURN to get started!


Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial3/0
Router(config-if)#
```

☐ Top

Router5

Physical | Config | CLI | Attributes

GLOBAL
- Settings
- Algorithm Settings

ROUTING
- Static
- RIP

INTERFACE
- FastEthernet0/0
- FastEthernet1/0
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

Serial2/0

Port Status ☑ On

Duplex ⦿ Full Duplex

Clock Rate: 1200

IP Configuration

IPv4 Address: 1.1.1.2

Subnet Mask: 255.0.0.0

Tx Ring Limit: 10

Equivalent IOS Commands

```
Press RETURN to get started!


Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top

Router 2 -----------------Router 3

2.2.2.2/30   2.2.2.3/30

Router6

Physical   Config   CLI   Attributes

GLOBAL
Settings

Algorithm Settings

ROUTING
Static

RIP

INTERFACE
FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial2/0

Port Status   ☑ On

Duplex   ⦿ Full Duplex

Clock Rate   2000000   ▼

IP Configuration

IPv4 Address   2.2.2.3

Subnet Mask   255.0.0.0

Tx Ring Limit   10

Equivalent IOS Commands

```
Press RETURN to get started!


Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top

Router 3 ------------------Router 4

3.3.3.3/30   3.3.3.4/30

Router6

Physical   Config   CLI   Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0

Serial3/0

Port Status   ☑ On
Duplex   ◉ Full Duplex
Clock Rate   2000000   ▼

IP Configuration
IPv4 Address   3.3.3.3
Subnet Mask   255.0.0.0

Tx Ring Limit   10

Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

☐ Top

Router7

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial2/0

Port Status   ☑ On

Duplex   ◉ Full Duplex

Clock Rate   1200   ▼

IP Configuration

IPv4 Address   3.3.3.4

Subnet Mask   255.0.0.0

Tx Ring Limit   10

Equivalent IOS Commands

```
Press RETURN to get started!


Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial3/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top