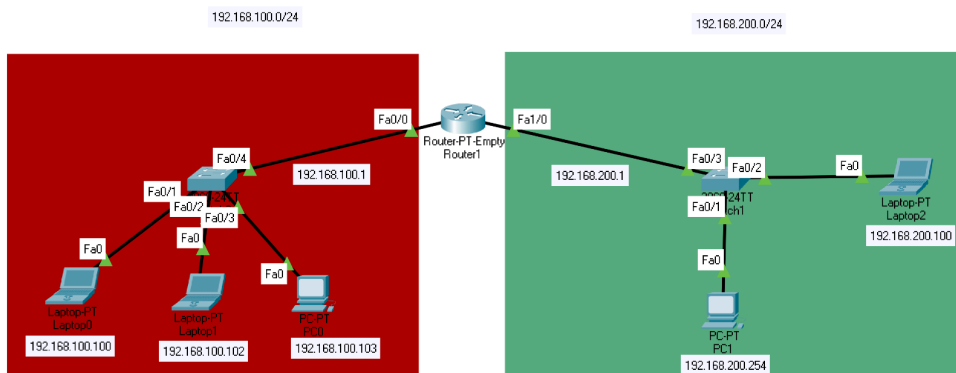


Prima comunicazione reti appartenenti a sottoreti differenti

Partendo da alcuni indirizzi ip fissati nell'esercizio, ho creato dei dispositivi stando attento a collocarli nella stessa sottorete di margini ad esempio, 192.168.100.100 appartiene alla rete 192.168.100.0/24 quindi ho scelto un valore valido per l'IP gateway tra i valori 192.168.100.1 e 192.168.100.254, e ho fatto lo stesso ragionamento con l'altro valore dato di 192.168.200.100



poi in ogni IP HOST cioè in ciascun dispositivo, ho impostato il default gateway convenzionale 192.168.100.1 per i primi tre host di uno switch, e 192.168.200.1 per gli altri 2

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.100.103

Subnet Mask 255.255.255.0

Default Gateway 192.168.100.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:5CFF:FEC2:92B5

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

infine sono andato nelle impostazioni del Router che mi permette di far comunicare 2 sottoreti differenti e ho impostato le 2 porte usate per collegare gli switch

Router1

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

FastEthernet2/0

FastEthernet0/0

Port Status

Bandwidth

Duplex

MAC Address

IP Configuration

IPv4 Address

Subnet Mask

Tx Ring Limit

On

100 Mbps

10 Mbps

Auto

Half Duplex

Full Duplex

Auto

0006.2AB1.91EC

192.168.100.1

255.255.255.0

10

Equivalent IOS Commands

```
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
Router(config)#router rip
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
$SYS-5-COFIG_1: Configured from console by console
```

Router1

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

FastEthernet2/0

FastEthernet1/0

Port Status

Bandwidth

Duplex

MAC Address

IP Configuration

IPv4 Address

Subnet Mask

Tx Ring Limit

On

100 Mbps

10 Mbps

Auto

Half Duplex

Full Duplex

Auto

0004.9AC8.445C

192.168.200.1

255.255.255.0

10

Equivalent IOS Commands

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
Router(config)#router rip
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
$SYS-5-COFIG_1: Configured from console by console

Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
```

☐ Too