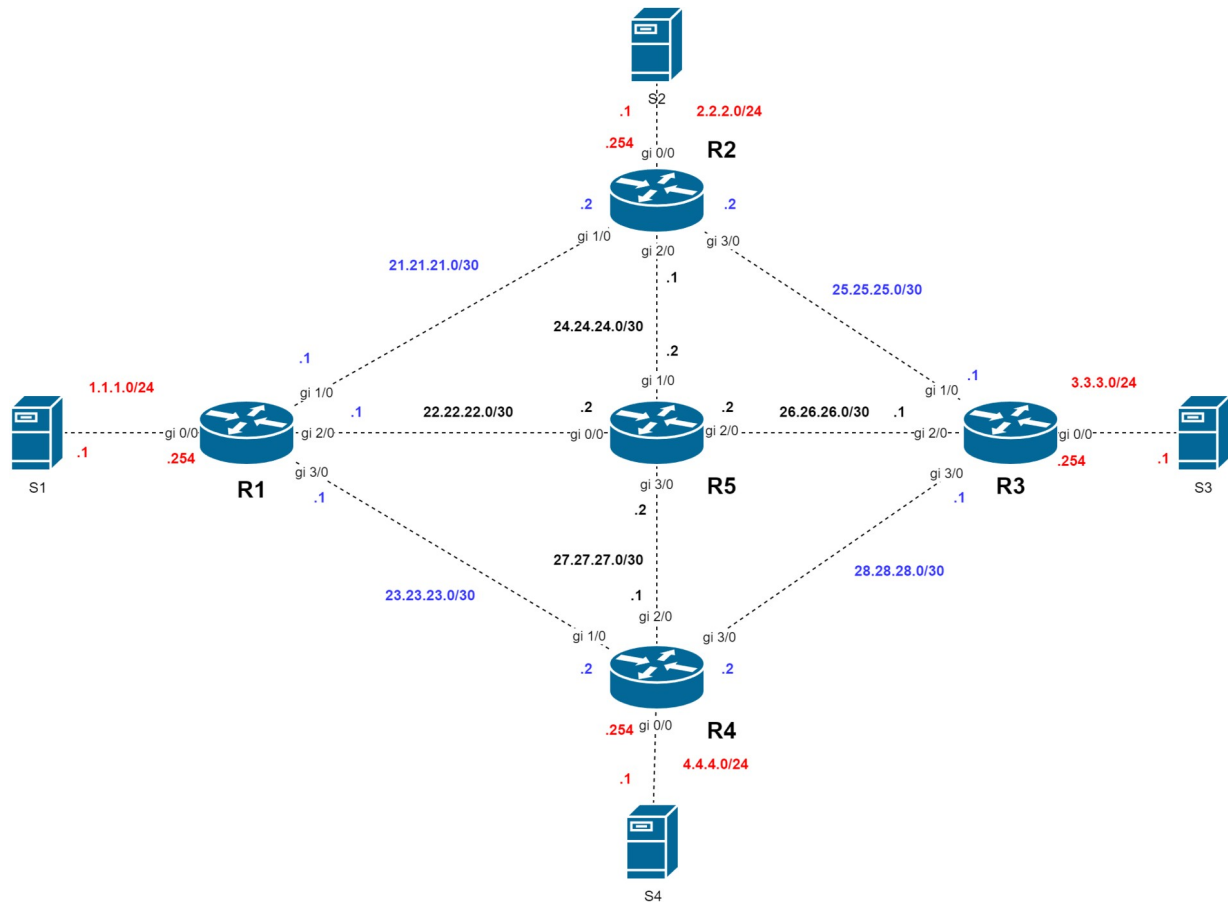


## Interconnessione di reti mediante RIP v2

### Schema del progetto



### Configurazione dei router

La sottorete di comunicazione è composta da quattro router R1, R2, R3, R4.

Router	Interfaccia	Indirizzo IP
R1	Gig0/0	1.1.1.254/24
	Gig1/0	21.21.21.1/30
	Gig2/0	22.22.22.1/30
	Gig3/0	23.23.23.1/30
R2	Gig0/0	2.2.2.254/24
	Gig1/0	21.21.21.2/30
	Gig2/0	24.24.24.1/30
	Gig3/0	25.25.25.2/30

Router	Interfaccia	Indirizzo IP
R3	Gig0/0	3.3.3.254/24
	Gig1/0	25.25.25.1/30
	Gig2/0	26.26.26.1/30
	Gig3/0	28.28.28.1/30
R4	Gig0/0	4.4.4.254/24
	Gig1/0	23.23.23.2/30
	Gig2/0	27.27.27.1/30
	Gig3/0	28.28.28.2/30
R5	Gig0/0	22.22.22.2/30
	Gig1/0	24.24.24.2/30
	Gig2/0	26.26.26.2/30
	Gig3/0	27.27.27.2/30

## Router R1

### Configurazione delle interfacce di rete

```
R1(config)# interface GigabitEthernet 0/0
R1(config-if)# ip address 1.1.1.254 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
```

```
R1(config)# interface GigabitEthernet 1/0
R1(config-if)# ip address 21.21.21.1 255.255.255.252
R1(config-if)# no shutdown
R1(config-if)# exit
```

```
R1(config)#interface GigabitEthernet 2/0
R1(config-if)# ip address 22.22.22.1 255.255.255.252
R1(config-if)# no shutdown
R1(config-if)# exit
```

```
R1(config)# interface GigabitEthernet 3/0
R1(config-if)# ip address 23.23.23.1 255.255.255.252
R1(config-if)# no shutdown
R1(config-if)# exit
```

### Configurazione RIP v2

```
R1(config)# router rip
R1(config-router)# version 2
R1(config-router)# no auto-summary
R1(config-router)# passive-interface GigabitEthernet0/0
R1(config-router)# network 1.1.1.0
R1(config-router)# network 21.21.21.0
R1(config-router)# network 22.22.22.0
R1(config-router)# network 23.23.23.0
R1(config-router)# exit
R1(config)#exit
```

```
R1# copy running-config startup-config
```

## Router R2

### Configurazione delle interfacce di rete

```
R2(config)# interface GigabitEthernet 0/0
R2(config-if)# ip address 2.2.2.254 255.255.255.0
R2(config-if)# no shutdown
R2(config-if)# exit
```

```
R2(config)# interface GigabitEthernet 1/0
R2(config-if)# ip address 21.21.21.2 255.255.255.252
R2(config-if)# no shutdown
R2(config-if)# exit
```

```
R2(config)#interface GigabitEthernet 2/0
R2(config-if)# ip address 24.24.24.1 255.255.255.252
R2(config-if)# no shutdown
R2(config-if)# exit
```

```
R2(config)# interface GigabitEthernet 3/0
R2(config-if)# ip address 25.25.25.1 255.255.255.252
R2(config-if)# no shutdown
R2(config-if)# exit
```

### Configurazione RIP v2

```
R2(config)# router rip
R2(config-router)# version 2
R2(config-router)# no auto-summary
R2(config-router)# passive-interface GigabitEthernet0/0
R2(config-router)# network 2.2.2.0
R2(config-router)# network 21.21.21.0
R2(config-router)# network 24.24.24.0
R2(config-router)# network 25.25.25.0
R2(config-router)# exit
R2(config)#exit
```

```
R2# copy running-config startup-config
```

## Router R3

### Configurazione delle interfacce di rete

```
R3(config)# interface GigabitEthernet 0/0
R3(config-if)# ip address 3.3.3.254 255.255.255.0
R3(config-if)# no shutdown
R3(config-if)# exit
```

```
R3(config)# interface GigabitEthernet 1/0
R3(config-if)# ip address 25.25.25.1 255.255.255.252
R3(config-if)# no shutdown
R3(config-if)# exit
```

```
R3(config)#interface GigabitEthernet 2/0
R3(config-if)# ip address 26.26.26.1 255.255.255.252
R3(config-if)# no shutdown
R3(config-if)# exit
```

```
R3(config)# interface GigabitEthernet 3/0
R3(config-if)# ip address 28.28.28.1 255.255.255.252
R3(config-if)# no shutdown
R3(config-if)# exit
```

#### Configurazione RIP v2

```
R3(config)# router rip
R3(config-router)# version 2
R3(config-router)# no auto-summary
R3(config-router)# passive-interface GigabitEthernet0/0
R3(config-router)# network 3.3.3.0
R3(config-router)# network 25.25.25.0
R3(config-router)# network 26.26.26.0
R3(config-router)# network 28.28.28.0
R3(config-router)# exit
R3(config)#exit
```

```
R3# copy running-config startup-config
```

## Router R4

#### Configurazione delle interfacce di rete

```
R4(config)# interface GigabitEthernet 0/0
R4(config-if)# ip address 4.4.4.254 255.255.255.0
R4(config-if)# no shutdown
R4(config-if)# exit
```

```
R4(config)# interface GigabitEthernet 1/0
R4(config-if)# ip address 23.23.23.2 255.255.255.252
R4(config-if)# no shutdown
R4(config-if)# exit
```

```
R4(config)#interface GigabitEthernet 2/0
R4(config-if)# ip address 27.27.27.1 255.255.255.252
R4(config-if)# no shutdown
R4(config-if)# exit
```

```
R4(config)# interface GigabitEthernet 3/0
R4(config-if)# ip address 28.28.28.2 255.255.255.252
R4(config-if)# no shutdown
R4(config-if)# exit
```

#### Configurazione RIP v2

```
R4(config)# router rip
R4(config-router)# version 2
R4(config-router)# no auto-summary
R4(config-router)# passive-interface GigabitEthernet0/0
R4(config-router)# network 4.4.4.0
R4(config-router)# network 23.23.23.0
```

```
R4(config-router)# network 27.27.27.0
R4(config-router)# network 28.28.28.0
R4(config-router)# exit
R4(config)#exit
```

```
R4# copy running-config startup-config
```

## Router R5

### Configurazione delle interfacce di rete

```
R5(config)# interface GigabitEthernet 0/0
R5(config-if)# ip address 22.22.22.2 255.255.255.252
R5(config-if)# no shutdown
R5(config-if)# exit
```

```
R5(config)# interface GigabitEthernet 1/0
R5(config-if)# ip address 24.24.24.1 255.255.255.252
R5(config-if)# no shutdown
R5(config-if)# exit
```

```
R5(config)#interface GigabitEthernet 2/0
R5(config-if)# ip address 26.26.26.2 255.255.255.252
R5(config-if)# no shutdown
R5(config-if)# exit
```

```
R5(config)# interface GigabitEthernet 3/0
R5(config-if)# ip address 27.27.27.2 255.255.255.252
R5(config-if)# no shutdown
R5(config-if)# exit
```

### Configurazione RIP v2

```
R5(config)# router rip
R5(config-router)# version 2
R5(config-router)# no auto-summary
R5(config-router)# network 22.22.22.0
R5(config-router)# network 24.24.24.0
R5(config-router)# network 26.26.26.0
R5(config-router)# network 27.27.27.0
R5(config-router)# exit
R5(config)#exit
```

```
R5# copy running-config startup-config
```