

# Partecipante 1

Configurazione gemella 16

Invia **2001:760:0:101::/64**

Riceve **2001:760:1:116::/64**

## LAB 01

Interface fa0/0.101

Description LAN - Utente-1

Ipv6 address 2001:760:0:101::1/64

No shut

Exit

Interface fa0/1.201

Description Backbone - Utente-1

Ipv6 address 2001:760:fff:1::1/64

No shut

Exit

Ipv6 route 2001:760:1:116::/64 2001:760:fff:1::2

Ping 2001:760:1:116::1/64

## Lab 02

```
no ipv6 route 2001:760:1:116::/64 2001:760:ffff:1::2
```

```
ipv6 prefix-list p1-to-p16 Permit 2001:760:0:101::/64
```

```
Route-map p1-to-p16
```

```
    Match ipv6 address prefix-list p1-to-p16
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:1::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:1::2 update-source fa0/1.201
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:1::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:1::2 activate
```

```
        Neighbor 2001:760:ffff:1::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:1::2 Route-map p1-to-p16 out
```

```
        Network 2001:760:0:101::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:116::1/64
```

**Partecipante 1**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 1

# Partecipante 2

Configurazione gemella 17

Invia **2001:760:0:102::/64**

Riceve **2001:760:1:117::/64**

## LAB 01

Interface fa0/0.102

Description LAN - Utente-2

Ipv6 address 2001:760:0:102::1/64

No shut

Exit

Interface fa0/1.202

Description Backbone - Utente-2

Ipv6 address 2001:760:fff:2::1/64

No shut

Exit

Ipv6 route 2001:760:1:117::/64 2001:760:fff:2::2

Ping 2001:760:1:117::1/64

## Lab 02

```
no ipv6 route 2001:760:1:117::/64 2001:760:ffff:2::2
```

```
ipv6 prefix-list p2-to-p17 Permit 2001:760:0:102::/64
```

```
Route-map p2-to-p17
```

```
    Match ipv6 address prefix-list p2-to-p17
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:2::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:2::2 update-source fa0/1.202
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:2::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:2::2 activate
```

```
        Neighbor 2001:760:ffff:2::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:2::2 Route-map p2-to-p17 out
```

```
        Network 2001:760:0:102::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:117::1/64
```

**Partecipante 2**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 2

# Partecipante 3

Configurazione gemella **18**

Invia **2001:760:0:103::/64**

Riceve **2001:760:1:118::/64**

## LAB 01

Interface fa0/0.103

Description LAN - Utente-3

Ipv6 address 2001:760:0:103::1/64

No shut

Exit

Interface fa0/1.203

Description Backbone - Utente-3

Ipv6 address 2001:760:fff:3::1/64

No shut

Exit

Ipv6 route 2001:760:1:118::/64 2001:760:fff:3::2

Ping 2001:760:1:118::1/64

## Lab 02

```
no ipv6 route 2001:760:1:118::/64 2001:760:ffff:3::2
```

```
ipv6 prefix-list p3-to-p18 Permit 2001:760:0:103::/64
```

```
Route-map p3-to-p18
```

```
    Match ipv6 address prefix-list p3-to-p18
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:3::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:3::2 update-source fa0/1.203
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:3::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:3::2 activate
```

```
        Neighbor 2001:760:ffff:3::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:3::2 Route-map p3-to-p18 out
```

```
        Network 2001:760:0:103::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:118::1/64
```

**Partecipante 3**



## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 3

# Partecipante 4

Configurazione gemella 19

Invia **2001:760:0:104::/64**

Riceve **2001:760:1:119::/64**

## LAB 01

Interface fa0/0.104

Description LAN - Utente-4

Ipv6 address 2001:760:0:104::1/64

No shut

Exit

Interface fa0/1.204

Description Backbone - Utente-4

Ipv6 address 2001:760:fff:4::1/64

No shut

Exit

Ipv6 route 2001:760:1:119::/64 2001:760:fff:4::2

Ping 2001:760:1:119::1/64

## Lab 02

```
no ipv6 route 2001:760:1:119::/64 2001:760:ffff:4::2
```

```
ipv6 prefix-list p4-to-p19 Permit 2001:760:0:104::/64
```

```
Route-map p4-to-p19
```

```
    Match ipv6 address prefix-list p4-to-p19
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:4::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:4::2 update-source fa0/1.204
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:4::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:4::2 activate
```

```
        Neighbor 2001:760:ffff:4::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:4::2 Route-map p4-to-p19 out
```

```
        Network 2001:760:0:104::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:119::1/64
```

**Partecipante 4**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 4

# Partecipante 5

Configurazione gemella 20

Invia **2001:760:0:105::/64**

Riceve **2001:760:1:120::/64**

## LAB 01

Interface fa0/0.105

Description LAN - Utente-5

Ipv6 address 2001:760:0:105::1/64

No shut

Exit

Interface fa0/1.205

Description Backbone - Utente-5

Ipv6 address 2001:760:fff:5::1/64

No shut

Exit

Ipv6 route 2001:760:1:120::/64 2001:760:fff:5::2

Ping 2001:760:1:120::1/64

## Lab 02

```
no ipv6 route 2001:760:1:120::/64 2001:760:ffff:5::2
```

```
ipv6 prefix-list p5-to-p20 Permit 2001:760:0:105::/64
```

```
Route-map p5-to-p20
```

```
    Match ipv6 address prefix-list p5-to-p20
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:5::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:5::2 update-source fa0/1.205
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:5::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:5::2 activate
```

```
        Neighbor 2001:760:ffff:5::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:5::2 Route-map p5-to-p20 out
```

```
        Network 2001:760:0:105::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:120::1/64
```

**Partecipante 5**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 5

# Partecipante 6

Configurazione gemella **21**

Invia **2001:760:0:106::/64**

Riceve **2001:760:1:121::/64**

## LAB 01

Interface fa0/0.106

Description LAN - Utente-6

Ipv6 address 2001:760:0:106::1/64

No shut

Exit

Interface fa0/1.206

Description Backbone - Utente-6

Ipv6 address 2001:760:fff:6::1/64

No shut

Exit

Ipv6 route 2001:760:1:121::/64 2001:760:fff:6::2

Ping 2001:760:1:121::1/64



## Lab 02

```
no ipv6 route 2001:760:1:121::/64 2001:760:ffff:6::2
```

```
ipv6 prefix-list p6-to-p21 Permit 2001:760:0:106::/64
```

```
Route-map p6-to-p21
```

```
    Match ipv6 address prefix-list p6-to-p21
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:6::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:6::2 update-source fa0/1.206
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:6::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:6::2 activate
```

```
        Neighbor 2001:760:ffff:6::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:6::2 Route-map p6-to-p21 out
```

```
        Network 2001:760:0:106::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:121::1/64
```

**Partecipante 6**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 6

# Partecipante 7

Configurazione gemella 22

Invia **2001:760:0:107::/64**

Riceve **2001:760:1:122::/64**

## LAB 01

Interface fa0/0.107

Description LAN - Utente-7

Ipv6 address 2001:760:0:107::1/64

No shut

Exit

Interface fa0/1.207

Description Backbone - Utente-7

Ipv6 address 2001:760:fff:7::1/64

No shut

Exit

Ipv6 route 2001:760:1:122::/64 2001:760:fff:7::2

Ping 2001:760:1:122::1/64

## Lab 02

```
no ipv6 route 2001:760:1:122::/64 2001:760:ffff:7::2
```

```
ipv6 prefix-list p7-to-p22 Permit 2001:760:0:107::/64
```

```
Route-map p7-to-p22
```

```
    Match ipv6 address prefix-list p7-to-p22
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:7::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:7::2 update-source fa0/1.207
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:7::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:7::2 activate
```

```
        Neighbor 2001:760:ffff:7::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:7::2 Route-map p7-to-p22 out
```

```
        Network 2001:760:0:107::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:122::1/64
```

**Partecipante 7**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 7

# Partecipante 8

Configurazione gemella 23

Invia **2001:760:0:108::/64**

Riceve **2001:760:1:123::/64**

## LAB 01

Interface fa0/0.108

Description LAN - Utente-8

Ipv6 address 2001:760:0:108::1/64

No shut

Exit

Interface fa0/1.208

Description Backbone - Utente-8

Ipv6 address 2001:760:fff:8::1/64

No shut

Exit

Ipv6 route 2001:760:1:123::/64 2001:760:fff:8::2

Ping 2001:760:1:123::1/64

## Lab 02

```
no ipv6 route 2001:760:1:123::/64 2001:760:ffff:8::2
```

```
ipv6 prefix-list p8-to-p23 Permit 2001:760:0:108::/64
```

```
Route-map p8-to-p23
```

```
    Match ipv6 address prefix-list p8-to-p23
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:8::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:8::2 update-source fa0/1.208
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:8::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:8::2 activate
```

```
        Neighbor 2001:760:ffff:8::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:8::2 Route-map p8-to-p23 out
```

```
        Network 2001:760:0:108::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:123::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 8



# Partecipante 9

Configurazione gemella 24

Invia **2001:760:0:109::/64**

Riceve **2001:760:1:124::/64**

## LAB 01

Interface fa0/0.109

Description LAN - Utente-9

Ipv6 address 2001:760:0:109::1/64

No shut

Exit

Interface fa0/1.209

Description Backbone - Utente-9

Ipv6 address 2001:760:fff:9::1/64

No shut

Exit

Ipv6 route 2001:760:1:124::/64 2001:760:fff:9::2

Ping 2001:760:1:124::1/64

## Lab 02

```
no ipv6 route 2001:760:1:124::/64 2001:760:ffff:9::2
```

```
ipv6 prefix-list p9-to-p24 Permit 2001:760:0:109::/64
```

```
Route-map p9-to-p24
```

```
    Match ipv6 address prefix-list p9-to-p24
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:9::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:9::2 update-source fa0/1.209
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:9::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:9::2 activate
```

```
        Neighbor 2001:760:ffff:9::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:9::2 Route-map p9-to-p24 out
```

```
        Network 2001:760:0:109::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:124::1/64
```

**Partecipante 9**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 9

# Partecipante 10

Configurazione gemella 25

Invia **2001:760:0:110::/64**

Riceve **2001:760:1:125::/64**

## LAB 01

Interface fa0/0.110

Description LAN - Utente-10

Ipv6 address 2001:760:0:110::1/64

No shut

Exit

Interface fa0/1.210

Description Backbone - Utente-10

Ipv6 address 2001:760:fff:10::1/64

No shut

Exit

Ipv6 route 2001:760:1:125::/64 2001:760:fff:10::2

Ping 2001:760:1:125::1/64

**Partecipante 10**

## Lab 02

```
no ipv6 route 2001:760:1:125::/64 2001:760:ffff:10::2
```

```
ipv6 prefix-list p10-to-p25 Permit 2001:760:0:110::/64
```

```
Route-map p10-to-p25
```

```
    Match ipv6 address prefix-list p10-to-p25
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:10::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:10::2 update-source fa0/1.210
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:10::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:10::2 activate
```

```
        Neighbor 2001:760:ffff:10::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:10::2 Route-map p10-to-p25 out
```

```
        Network 2001:760:0:110::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:125::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 10

# Partecipante 11

Configurazione gemella 26

Invia **2001:760:0:111::/64**

Riceve **2001:760:1:126::/64**

## LAB 01

Interface fa0/0.111

Description LAN - Utente-11

Ipv6 address 2001:760:0:111::1/64

No shut

Exit

Interface fa0/1.211

Description Backbone - Utente-11

Ipv6 address 2001:760:fff:11::1/64

No shut

Exit

Ipv6 route 2001:760:1:126::/64 2001:760:fff:11::2

Ping 2001:760:1:126::1/64

## Lab 02

```
no ipv6 route 2001:760:1:126::/64 2001:760:ffff:11::2
```

```
ipv6 prefix-list p11-to-p26 Permit 2001:760:0:111::/64
```

```
Route-map p11-to-p26
```

```
    Match ipv6 address prefix-list p11-to-p26
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:11::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:11::2 update-source fa0/1.211
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:11::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:11::2 activate
```

```
        Neighbor 2001:760:ffff:11::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:11::2 Route-map p11-to-p26 out
```

```
        Network 2001:760:0:111::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:126::1/64
```

**Partecipante 11**



## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 11

# Partecipante 12

Configurazione gemella 27

Invia **2001:760:0:112::/64**

Riceve **2001:760:1:127::/64**

## LAB 01

Interface fa0/0.112

Description LAN - Utente-12

Ipv6 address 2001:760:0:112::1/64

No shut

Exit

Interface fa0/1.212

Description Backbone - Utente-12

Ipv6 address 2001:760:fff:12::1/64

No shut

Exit

Ipv6 route 2001:760:1:127::/64 2001:760:fff:12::2

Ping 2001:760:1:127::1/64

## Lab 02

```
no ipv6 route 2001:760:1:127::/64 2001:760:ffff:12::2
```

```
ipv6 prefix-list p12-to-p27 Permit 2001:760:0:112::/64
```

```
Route-map p12-to-p27
```

```
    Match ipv6 address prefix-list p12-to-p27
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:12::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:12::2 update-source fa0/1.212
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:12::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:12::2 activate
```

```
        Neighbor 2001:760:ffff:12::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:12::2 Route-map p12-to-p27 out
```

```
        Network 2001:760:0:112::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:127::1/64
```

**Partecipante 12**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 12

# Partecipante 13

Configurazione gemella **28**

Invia **2001:760:0:113::/64**

Riceve **2001:760:1:128::/64**

## LAB 01

Interface fa0/0.113

Description LAN - Utente-13

Ipv6 address 2001:760:0:113::1/64

No shut

Exit

Interface fa0/1.213

Description Backbone - Utente-13

Ipv6 address 2001:760:fff:13::1/64

No shut

Exit

Ipv6 route 2001:760:1:128::/64 2001:760:fff:13::2

Ping 2001:760:1:128::1/64

## Lab 02

```
no ipv6 route 2001:760:1:128::/64 2001:760:ffff:13::2
```

```
ipv6 prefix-list p13-to-p28 Permit 2001:760:0:113::/64
```

```
Route-map p13-to-p28
```

```
    Match ipv6 address prefix-list p13-to-p28
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:13::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:13::2 update-source fa0/1.213
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:13::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:13::2 activate
```

```
        Neighbor 2001:760:ffff:13::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:13::2 Route-map p13-to-p28 out
```

```
        Network 2001:760:0:113::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:128::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 13

# Partecipante 14

Configurazione gemella 29

Invia **2001:760:0:114::/64**

Riceve **2001:760:1:129::/64**

## LAB 01

Interface fa0/0.114

Description LAN - Utente-14

Ipv6 address 2001:760:0:114::1/64

No shut

Exit

Interface fa0/1.214

Description Backbone - Utente-14

Ipv6 address 2001:760:fff:14::1/64

No shut

Exit

Ipv6 route 2001:760:1:129::/64 2001:760:fff:14::2

Ping 2001:760:1:129::1/64



## Lab 02

```
no ipv6 route 2001:760:1:129::/64 2001:760:ffff:14::2
```

```
ipv6 prefix-list p14-to-p29 Permit 2001:760:0:114::/64
```

```
Route-map p14-to-p29
```

```
    Match ipv6 address prefix-list p14-to-p29
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:14::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:14::2 update-source fa0/1.214
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:14::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:14::2 activate
```

```
        Neighbor 2001:760:ffff:14::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:14::2 Route-map p14-to-p29 out
```

```
        Network 2001:760:0:114::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:129::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 14

# Partecipante 15

Configurazione gemella 30

Invia **2001:760:0:115::/64**

Riceve **2001:760:1:130::/64**

## LAB 01

Interface fa0/0.115

Description LAN - Utente-15

Ipv6 address 2001:760:0:115::1/64

No shut

Exit

Interface fa0/1.215

Description Backbone - Utente-15

Ipv6 address 2001:760:fff:15::1/64

No shut

Exit

Ipv6 route 2001:760:1:130::/64 2001:760:fff:15::2

Ping 2001:760:1:130::1/64

## Lab 02

```
no ipv6 route 2001:760:1:130::/64 2001:760:ffff:15::2
```

```
ipv6 prefix-list p15-to-p30 Permit 2001:760:0:115::/64
```

```
Route-map p15-to-p30
```

```
    Match ipv6 address prefix-list p15-to-p30
```

```
Exit
```

```
Router bgp 137
```

```
    Neighbor 2001:760:ffff:15::2 remote-as 65500
```

```
    Neighbor 2001:760:ffff:15::2 update-source fa0/1.215
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:15::2 remote-as 65500
```

```
        Neighbor 2001:760:ffff:15::2 activate
```

```
        Neighbor 2001:760:ffff:15::2 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:15::2 Route-map p15-to-p30 out
```

```
        Network 2001:760:0:115::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:130::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 15

# Partecipante 16

Configurazione gemella 1

Invia **2001:760:1:116::/64**

Riceve **2001:760:0:101::/64**

## LAB 01

Interface fa0/0.116

Description LAN - Utente-16

Ipv6 address 2001:760:1:116::1/64

No shut

Exit

Interface fa0/1.201

Description Backbone - Utente-16

Ipv6 address 2001:760:fff:1::2/64

No shut

Exit

Ipv6 route 2001:760:0:101::/64 2001:760:fff:1::1

Ping 2001:760:1:101::1/64

## Lab 02

```
no ipv6 route 2001:760:0:101::/64 2001:760:ffff:1::1
```

```
ipv6 prefix-list p16-to-p1 Permit 2001:760:1:116::/64
```

```
Route-map p16-to-p1
```

```
    Match ipv6 address prefix-list p16-to-p1
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:1::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:1::1 update-source fa0/1.201
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:1::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:1::1 activate
```

```
        Neighbor 2001:760:ffff:1::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:1::1 Route-map p16-to-p1 out
```

```
        Network 2001:760:1:116::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:101::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 16



# Partecipante 17

Configurazione gemella 2

Invia **2001:760:1:117::/64**

Riceve **2001:760:0:102::/64**

## LAB 01

Interface fa0/0.117

Description LAN - Utente-17

Ipv6 address 2001:760:1:117::1/64

No shut

Exit

Interface fa0/1.202

Description Backbone - Utente-17

Ipv6 address 2001:760:fff:2::2/64

No shut

Exit

Ipv6 route 2001:760:0:102::/64 2001:760:fff:2::1

Ping 2001:760:1:102::1/64

## Lab 02

```
no ipv6 route 2001:760:0:102::/64 2001:760:ffff:2::1
```

```
ipv6 prefix-list p17-to-p2 Permit 2001:760:1:117::/64
```

```
Route-map p17-to-p2
```

```
    Match ipv6 address prefix-list p17-to-p2
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:2::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:2::1 update-source fa0/1.202
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:2::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:2::1 activate
```

```
        Neighbor 2001:760:ffff:2::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:2::1 Route-map p17-to-p2 out
```

```
        Network 2001:760:1:117::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:102::1/64
```

**Partecipante 17**

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 17

# Partecipante 18

Configurazione gemella 3

Invia **2001:760:1:118::/64**

Riceve **2001:760:0:103::/64**

## LAB 01

Interface fa0/0.118

Description LAN - Utente-18

Ipv6 address 2001:760:1:118::1/64

No shut

Exit

Interface fa0/1.203

Description Backbone - Utente-18

Ipv6 address 2001:760:fff:3::2/64

No shut

Exit

Ipv6 route 2001:760:0:103::/64 2001:760:fff:3::1

Ping 2001:760:1:103::1/64

## Lab 02

```
no ipv6 route 2001:760:0:103::/64 2001:760:ffff:3::1
```

```
ipv6 prefix-list p18-to-p3 Permit 2001:760:1:118::/64
```

```
Route-map p18-to-p3
```

```
    Match ipv6 address prefix-list p18-to-p3
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:3::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:3::1 update-source fa0/1.203
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:3::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:3::1 activate
```

```
        Neighbor 2001:760:ffff:3::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:3::1 Route-map p18-to-p3 out
```

```
        Network 2001:760:1:118::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:103::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 18

# Partecipante 19

Configurazione gemella 4

Invia **2001:760:1:119::/64**

Riceve **2001:760:0:104::/64**

## LAB 01

Interface fa0/0.119

Description LAN - Utente-19

Ipv6 address 2001:760:1:119::1/64

No shut

Exit

Interface fa0/1.204

Description Backbone - Utente-19

Ipv6 address 2001:760:fff:4::2/64

No shut

Exit

Ipv6 route 2001:760:0:104::/64 2001:760:fff:4::1

Ping 2001:760:1:104::1/64

## Lab 02

```
no ipv6 route 2001:760:0:104::/64 2001:760:ffff:4::1
```

```
ipv6 prefix-list p19-to-p4 Permit 2001:760:1:119::/64
```

```
Route-map p19-to-p4
```

```
    Match ipv6 address prefix-list p19-to-p4
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:4::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:4::1 update-source fa0/1.204
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:4::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:4::1 activate
```

```
        Neighbor 2001:760:ffff:4::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:4::1 Route-map p19-to-p4 out
```

```
        Network 2001:760:1:119::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:104::1/64
```



## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 19

# Partecipante 20

Configurazione gemella 5

Invia **2001:760:1:120::/64**

Riceve **2001:760:0:105::/64**

## LAB 01

Interface fa0/0.120

Description LAN - Utente-20

Ipv6 address 2001:760:1:120::1/64

No shut

Exit

Interface fa0/1.205

Description Backbone - Utente-20

Ipv6 address 2001:760:fff:5::2/64

No shut

Exit

Ipv6 route 2001:760:0:105::/64 2001:760:fff:5::1

Ping 2001:760:1:105::1/64

## Lab 02

```
no ipv6 route 2001:760:0:105::/64 2001:760:ffff:5::1
```

```
ipv6 prefix-list p20-to-p5 Permit 2001:760:1:120::/64
```

```
Route-map p20-to-p5
```

```
    Match ipv6 address prefix-list p20-to-p5
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:5::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:5::1 update-source fa0/1.205
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:5::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:5::1 activate
```

```
        Neighbor 2001:760:ffff:5::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:5::1 Route-map p20-to-p5 out
```

```
        Network 2001:760:1:120::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:105::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 20

# Partecipante 21

Configurazione gemella 6

Invia **2001:760:1:121::/64**

Riceve **2001:760:0:106::/64**

## LAB 01

Interface fa0/0.121

Description LAN - Utente-21

Ipv6 address 2001:760:1:121::1/64

No shut

Exit

Interface fa0/1.206

Description Backbone - Utente-21

Ipv6 address 2001:760:fff:6::2/64

No shut

Exit

Ipv6 route 2001:760:0:106::/64 2001:760:fff:6::1

Ping 2001:760:1:106::1/64

## Lab 02

```
no ipv6 route 2001:760:0:106::/64 2001:760:ffff:6::1
```

```
ipv6 prefix-list p21-to-p6 Permit 2001:760:1:121::/64
```

```
Route-map p21-to-p6
```

```
    Match ipv6 address prefix-list p21-to-p6
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:6::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:6::1 update-source fa0/1.206
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:6::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:6::1 activate
```

```
        Neighbor 2001:760:ffff:6::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:6::1 Route-map p21-to-p6 out
```

```
        Network 2001:760:1:121::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:106::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 21

# Partecipante 22

Configurazione gemella 7

Invia **2001:760:1:122::/64**

Riceve **2001:760:0:107::/64**

## LAB 01

Interface fa0/0.122

Description LAN - Utente-22

Ipv6 address 2001:760:1:122::1/64

No shut

Exit

Interface fa0/1.207

Description Backbone - Utente-22

Ipv6 address 2001:760:fff:7::2/64

No shut

Exit

Ipv6 route 2001:760:0:107::/64 2001:760:fff:7::1

Ping 2001:760:1:107::1/64



## Lab 02

```
no ipv6 route 2001:760:0:107::/64 2001:760:ffff:7::1
```

```
ipv6 prefix-list p22-to-p7 Permit 2001:760:1:122::/64
```

```
Route-map p22-to-p7
```

```
    Match ipv6 address prefix-list p22-to-p7
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:7::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:7::1 update-source fa0/1.207
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:7::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:7::1 activate
```

```
        Neighbor 2001:760:ffff:7::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:7::1 Route-map p22-to-p7 out
```

```
        Network 2001:760:1:122::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:107::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 22

# Partecipante 23

Configurazione gemella 8

Invia **2001:760:1:123::/64**

Riceve **2001:760:0:108::/64**

## LAB 01

Interface fa0/0.123

Description LAN - Utente-23

Ipv6 address 2001:760:1:123::1/64

No shut

Exit

Interface fa0/1.208

Description Backbone - Utente-23

Ipv6 address 2001:760:fff:8::2/64

No shut

Exit

Ipv6 route 2001:760:0:108::/64 2001:760:fff:8::1

Ping 2001:760:1:108::1/64

## Lab 02

```
no ipv6 route 2001:760:0:108::/64 2001:760:ffff:8::1
```

```
ipv6 prefix-list p23-to-p8 Permit 2001:760:1:123::/64
```

```
Route-map p23-to-p8
```

```
    Match ipv6 address prefix-list p23-to-p8
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:8::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:8::1 update-source fa0/1.208
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:8::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:8::1 activate
```

```
        Neighbor 2001:760:ffff:8::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:8::1 Route-map p23-to-p8 out
```

```
        Network 2001:760:1:123::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:108::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 23

# Partecipante 24

Configurazione gemella 9

Invia **2001:760:1:124::/64**

Riceve **2001:760:0:109::/64**

## LAB 01

Interface fa0/0.124

Description LAN - Utente-24

Ipv6 address 2001:760:1:124::1/64

No shut

Exit

Interface fa0/1.209

Description Backbone - Utente-24

Ipv6 address 2001:760:fff:9::2/64

No shut

Exit

Ipv6 route 2001:760:0:109::/64 2001:760:fff:9::1

Ping 2001:760:1:109::1/64

**Partecipante 24**

## Lab 02

```
no ipv6 route 2001:760:0:109::/64 2001:760:ffff:9::1
```

```
ipv6 prefix-list p24-to-p9 Permit 2001:760:1:124::/64
```

```
Route-map p24-to-p9
```

```
    Match ipv6 address prefix-list p24-to-p9
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:9::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:9::1 update-source fa0/1.209
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:9::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:9::1 activate
```

```
        Neighbor 2001:760:ffff:9::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:9::1 Route-map p24-to-p9 out
```

```
        Network 2001:760:1:124::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:109::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 24



# Partecipante 25

Configurazione gemella 10

Invia **2001:760:1:125::/64**

Riceve **2001:760:0:110::/64**

## LAB 01

Interface fa0/0.125

Description LAN - Utente-25

Ipv6 address 2001:760:1:125::1/64

No shut

Exit

Interface fa0/1.210

Description Backbone - Utente-25

Ipv6 address 2001:760:fff:10::2/64

No shut

Exit

Ipv6 route 2001:760:0:110::/64 2001:760:fff:10::1

Ping 2001:760:1:110::1/64

## Lab 02

```
no ipv6 route 2001:760:0:110::/64 2001:760:ffff:10::1
```

```
ipv6 prefix-list p25-to-p10 Permit 2001:760:1:125::/64
```

```
Route-map p25-to-p10
```

```
    Match ipv6 address prefix-list p25-to-p10
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:10::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:10::1 update-source fa0/1.210
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:10::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:10::1 activate
```

```
        Neighbor 2001:760:ffff:10::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:10::1 Route-map p25-to-p10 out
```

```
        Network 2001:760:1:125::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:110::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration  
'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 25

# Partecipante 26

Configurazione gemella **11**

Invia **2001:760:1:126::/64**

Riceve **2001:760:0:111::/64**

## LAB 01

Interface fa0/0.126

Description LAN - Utente-26

Ipv6 address 2001:760:1:126::1/64

No shut

Exit

Interface fa0/1.211

Description Backbone - Utente-26

Ipv6 address 2001:760:fff:11::2/64

No shut

Exit

Ipv6 route 2001:760:0:111::/64 2001:760:fff:11::1

Ping 2001:760:1:111::1/64

## Lab 02

```
no ipv6 route 2001:760:0:111::/64 2001:760:ffff:11::1
```

```
ipv6 prefix-list p26-to-p11 Permit 2001:760:1:126::/64
```

```
Route-map p26-to-p11
```

```
    Match ipv6 address prefix-list p26-to-p11
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:11::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:11::1 update-source fa0/1.211
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:11::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:11::1 activate
```

```
        Neighbor 2001:760:ffff:11::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:11::1 Route-map p26-to-p11 out
```

```
        Network 2001:760:1:126::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:111::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 26

# Partecipante 27

Configurazione gemella 12

Invia **2001:760:1:127::/64**

Riceve **2001:760:0:112::/64**

## LAB 01

Interface fa0/0.127

Description LAN - Utente-27

Ipv6 address 2001:760:1:127::1/64

No shut

Exit

Interface fa0/1.212

Description Backbone - Utente-27

Ipv6 address 2001:760:fff:12::2/64

No shut

Exit

Ipv6 route 2001:760:0:112::/64 2001:760:fff:12::1

Ping 2001:760:1:112::1/64

**Partecipante 27**

## Lab 02

```
no ipv6 route 2001:760:0:112::/64 2001:760:ffff:12::1
```

```
ipv6 prefix-list p27-to-p12 Permit 2001:760:1:127::/64
```

```
Route-map p27-to-p12
```

```
    Match ipv6 address prefix-list p27-to-p12
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:12::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:12::1 update-source fa0/1.212
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:12::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:12::1 activate
```

```
        Neighbor 2001:760:ffff:12::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:12::1 Route-map p27-to-p12 out
```

```
        Network 2001:760:1:127::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:112::1/64
```

**Partecipante 27**



## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 27

# Partecipante 28

Configurazione gemella 13

Invia **2001:760:1:128::/64**

Riceve **2001:760:0:113::/64**

## LAB 01

Interface fa0/0.128

Description LAN - Utente-28

Ipv6 address 2001:760:1:128::1/64

No shut

Exit

Interface fa0/1.213

Description Backbone - Utente-28

Ipv6 address 2001:760:fff:13::2/64

No shut

Exit

Ipv6 route 2001:760:0:113::/64 2001:760:fff:13::1

Ping 2001:760:1:113::1/64

**Partecipante 28**

## Lab 02

```
no ipv6 route 2001:760:0:113::/64 2001:760:ffff:13::1
```

```
ipv6 prefix-list p28-to-p13 Permit 2001:760:1:128::/64
```

```
Route-map p28-to-p13
```

```
    Match ipv6 address prefix-list p28-to-p13
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:13::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:13::1 update-source fa0/1.213
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:13::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:13::1 activate
```

```
        Neighbor 2001:760:ffff:13::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:13::1 Route-map p28-to-p13 out
```

```
        Network 2001:760:1:128::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:113::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 28

# Partecipante 29

Configurazione gemella 14

Invia **2001:760:1:129::/64**

Riceve **2001:760:0:114::/64**

## LAB 01

Interface fa0/0.129

Description LAN - Utente-29

Ipv6 address 2001:760:1:129::1/64

No shut

Exit

Interface fa0/1.214

Description Backbone - Utente-29

Ipv6 address 2001:760:fff:14::2/64

No shut

Exit

Ipv6 route 2001:760:0:114::/64 2001:760:fff:14::1

Ping 2001:760:1:114::1/64

## Lab 02

```
no ipv6 route 2001:760:0:114::/64 2001:760:ffff:14::1
```

```
ipv6 prefix-list p29-to-p14 Permit 2001:760:1:129::/64
```

```
Route-map p29-to-p14
```

```
    Match ipv6 address prefix-list p29-to-p14
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:14::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:14::1 update-source fa0/1.214
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:14::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:14::1 activate
```

```
        Neighbor 2001:760:ffff:14::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:14::1 Route-map p29-to-p14 out
```

```
        Network 2001:760:1:129::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:114::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 29

# Partecipante 30

Configurazione gemella 15

Invia **2001:760:1:130::/64**

Riceve **2001:760:0:115::/64**

## LAB 01

Interface fa0/0.130

Description LAN - Utente-30

Ipv6 address 2001:760:1:130::1/64

No shut

Exit

Interface fa0/1.215

Description Backbone - Utente-30

Ipv6 address 2001:760:fff:15::2/64

No shut

Exit

Ipv6 route 2001:760:0:115::/64 2001:760:fff:15::1

Ping 2001:760:1:115::1/64



## Lab 02

```
no ipv6 route 2001:760:0:115::/64 2001:760:ffff:15::1
```

```
ipv6 prefix-list p30-to-p15 Permit 2001:760:1:130::/64
```

```
Route-map p30-to-p15
```

```
    Match ipv6 address prefix-list p30-to-p15
```

```
Exit
```

```
Router bgp 65500
```

```
    Neighbor 2001:760:ffff:15::1 remote-as 137
```

```
    Neighbor 2001:760:ffff:15::1 update-source fa0/1.215
```

```
    Address-family ipv6
```

```
        Neighbor 2001:760:ffff:15::1 remote-as 137
```

```
        Neighbor 2001:760:ffff:15::1 activate
```

```
        Neighbor 2001:760:ffff:15::1 soft-reconfiguration inbound
```

```
        Neighbor 2001:760:ffff:15::1 Route-map p30-to-p15 out
```

```
        Network 2001:760:1:130::/64
```

```
    Exit
```

```
Exit
```

```
Ping 2001:760:1:115::1/64
```

## Lab 03

### R1

```
set interfaces ethernet eth0 address '2001:760:100:100::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::1/64'
```

```
set protocols bgp 137 address-family ipv6-unicast network '2001:760:100:100::/64'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family 'ipv6-unicast'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 remote-as '65500'
```

```
set protocols bgp 137 neighbor 2001:760:10:10::2 update-source '2001:760:10:10::1'
```

### R2

```
set interfaces ethernet eth0 address '2001:760:200:200::1/64'
```

```
set interfaces ethernet eth1 address '2001:760:10:10::2/64'
```

```
set protocols bgp 65500 address-family ipv6-unicast network '2001:760:200:200::/64'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family 'ipv6-unicast'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 address-family ipv6-unicast soft-reconfiguration 'inbound'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 remote-as '137'
```

```
set protocols bgp 65500 neighbor 2001:760:10:10::1 update-source '2001:760:10:10::2'
```

### Partecipante 30