



R1 configuration

```
interface FastEthernet0/0
```

```
no ip address
```

```
duplex full
```

```
ipv6 address FC00:1:1:1::1/64
```

```
ipv6 enable
```

```
ipv6 eigrp 1
```

```
!
```

```
interface Serial1/0
```

```
no ip address
```

```
ipv6 address 2000:DB8::/64 eui-64
```

```
ipv6 enable
```

```
ipv6 eigrp 1
```

```
serial restart-delay 0
ipv6 router eigrp 1
  eigrp router-id 1.1.1.1
```

R2 configuration

```
!
interface Serial1/0
  no ip address
  ipv6 address 2000:DB8::/64 eui-64
  ipv6 enable
  ipv6 eigrp 1
  serial restart-delay 0
!
interface Serial1/1
  no ip address
  ipv6 address 2001:DB9::/64 eui-64
  ipv6 enable
  ipv6 eigrp 1
  serial restart-delay 0
ipv6 router eigrp 1
  eigrp router-id 2.2.2.2
```

R3 configuration

!

```
interface FastEthernet0/0
no ip address
duplex full
ipv6 address FC00:2:2:2::2/64
ipv6 enable
ipv6 eigrp 1
```

!

```
interface Serial1/1
no ip address
ipv6 address 2001:DB9::/64 eui-64
ipv6 enable
ipv6 eigrp 1
serial restart-delay 0
ipv6 router eigrp 1
eigrp router-id 3.3.3.3
```

```
R1#sho ipv6 route eigrp
```

```
D 2001:DB9::/64 [90/2681856]
  via FE80::C802:7FF:FE50:0, Serial1/0
```

```
D FC00:2:2:2::/64 [90/2684416]
  via FE80::C802:7FF:FE50:0, Serial1/0
```

```
R2#sho ipv6 route eigrp
```

D FC00:1:1:1::/64 [90/2172416]
via FE80::C801:5FF:FE08:0, Serial1/0

D FC00:2:2:2::/64 [90/2172416]
via FE80::C803:FFF:FE30:0, Serial1/1

R3#sho ipv6 route eigrp

D 2000:DB8::/64 [90/2681856]
via FE80::C802:7FF:FE50:0, Serial1/1

D FC00:1:1:1::/64 [90/2684416]
via FE80::C802:7FF:FE50:0, Serial1/1

PC1> ping fc00:2:2:2:2050:79ff:fe66:6801

fc00:2:2:2:2050:79ff:fe66:6801 icmp6_seq=1 ttl=58 time=75.221 ms

fc00:2:2:2:2050:79ff:fe66:6801 icmp6_seq=2 ttl=58 time=64.244 ms

PC2> ping fc00:1:1:1:2050:79ff:fe66:6800

fc00:1:1:1:2050:79ff:fe66:6800 icmp6_seq=1 ttl=58 time=117.292 ms

fc00:1:1:1:2050:79ff:fe66:6800 icmp6_seq=2 ttl=58 time=40.698 ms