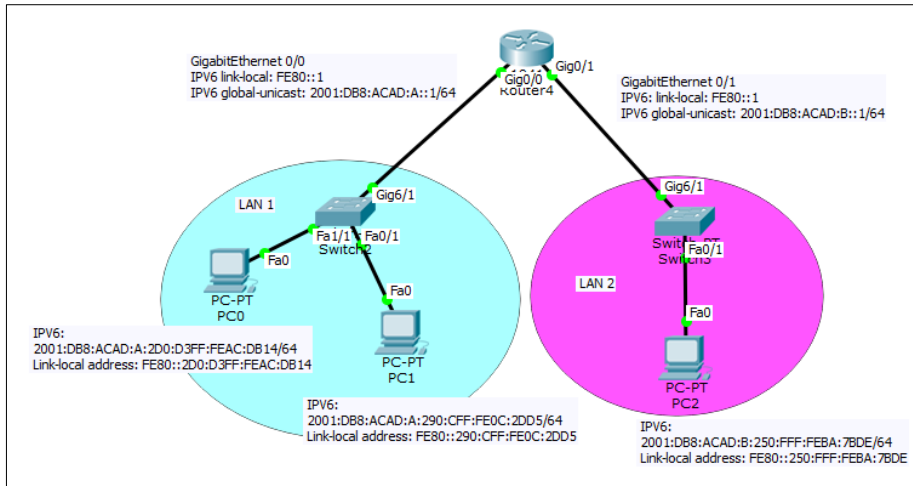


## 1. Testo del Problema

Realizzare uno scenario con due reti IPV6 i cui host siano in grado di comunicare tra loro

## 2. Dispositivi e Collegamenti



La rete è composta dai seguenti dispositivi e collegamenti:

- **3 End Device**(PC0,PC1,PC2) in cui viene settato l'IPv6 e il Link Local Address
- **1 Router**(Router4) in cui viene settato l'IPv6 link-local per le porte GigabitEthernet
- **2 Switch**(Switch2,Switch3)
- **5 Cavi UTP**(copper straight-through) per il collegamento degli End Device agli Switch e degli Switch al Router

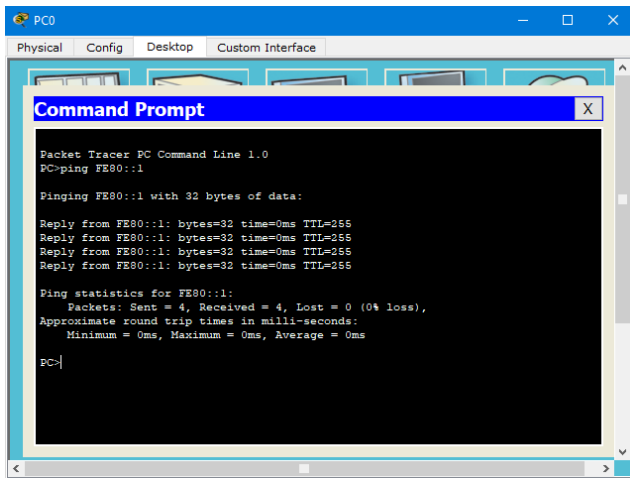
## 3. Configurazione dei Dispositivi

I pc e il server sono stati configurati con IPV6 nel seguente modo:

Dispositivo	Interfaccia	Indirizzo IPV6	Subnet Mask	Gateway
PC0	FastEthernet	2001:DB8:ACAD:A:2D0:D3FF:FEAC:DB14/64	-	FE80::1
PC1	FastEthernet	2001:DB8:ACAD:A:290:CFF:FE0C:2DD5/64	-	FE80::1
PC2	FastEthernet	2001:DB8:ACAD:B:250:FFF:FEBA:7BDE/64	-	FE80::1
Router4	GigabitEthernet GigabitEthernet	FE80::1 FE80::1	-	-

## 4. Test della Rete

Si sono eseguiti dei test di comunicazione tra **PC** di diverse LAN per verificarne il funzionamento tramite il comando ping nel Command Prompt



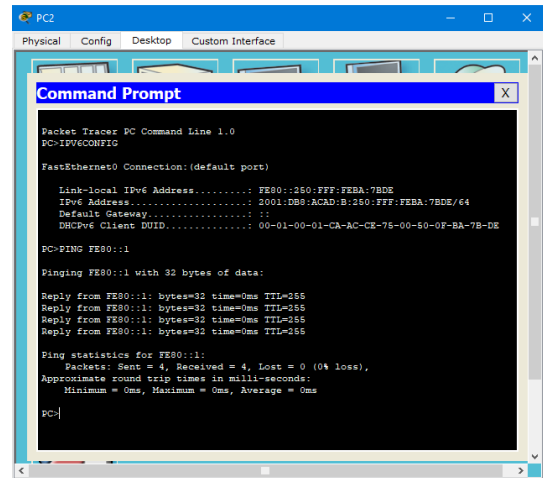
```
Packet Tracer PC Command Line 1.0
PC>ping FE80::1

Pinging FE80::1 with 32 bytes of data:

Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255

Ping statistics for FE80::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```



```
Packet Tracer PC Command Line 1.0
PC>IPv6CONFIG

FastEthernet0 Connection: (default port)

Link-local IPv6 Address.....: FE80::260:FFF:FEBA:7BDE
IPv6 Address.....: 2001:DB8:ACAD:B:260:FFF:FEBA:7BDE/64
Default Gateway.....: ::
DHCPv6 Client DUID.....: 00-01-00-01-CA-AC-CE-76-00-50-0F-BA-7B-DE

PC>PING FE80::1

Pinging FE80::1 with 32 bytes of data:

Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255
Reply from FE80::1: bytes=32 time=0ms TTL=255

Ping statistics for FE80::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```