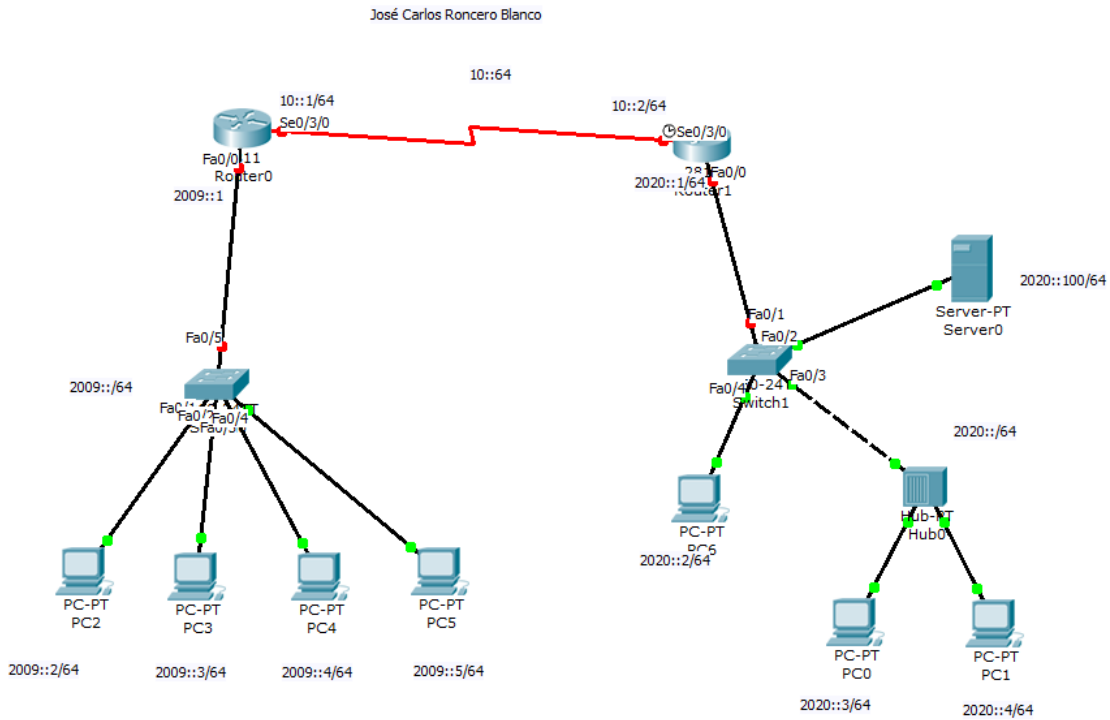
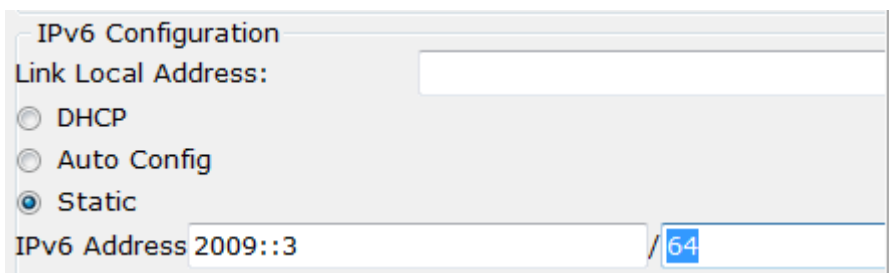


## Ejercicio RIPng IPv6 José Carlos Roncero Blanco



Lo primero que vamos a hacer es poner cada equipo con su dirección ip



IPv6 Configuration

Link Local Address:

DHCP

Auto Config

Static

IPv6 Address  /

IPv6 Configuration

Link Local Address:

DHCP

Auto Config

Static

IPv6 Address  /

IPv6 Configuration

Link Local Address:

DHCP

Auto Config

Static

IPv6 Address  /

IPv6 Configuration

Link Local Address:

DHCP

Auto Config

Static

IPv6 Address  /

IPv6 Configuration

Link Local Address:

DHCP

Auto Config

Static

IPv6 Address  /

Servidor:

TFTP  
DNS  
SYSLOG  
AAA  
NTP  
EMAIL  
FTP  
**INTERFACE**

- IPv6 Configuration  
Link Local Address:   
 DHCP  
 Auto Config  
 Static  
IPv6 Address 2020::100 /

Server0

Physical Config Desktop Software/Services

**GLOBAL**  
Settings  
Algorithm Settings  
**SERVICES**  
HTTP  
DHCP  
TFTP  
DNS  
SYSLOG  
AAA  
NTP  
EMAIL  
FTP  
**INTERFACE**  
FastEthernet

### DNS

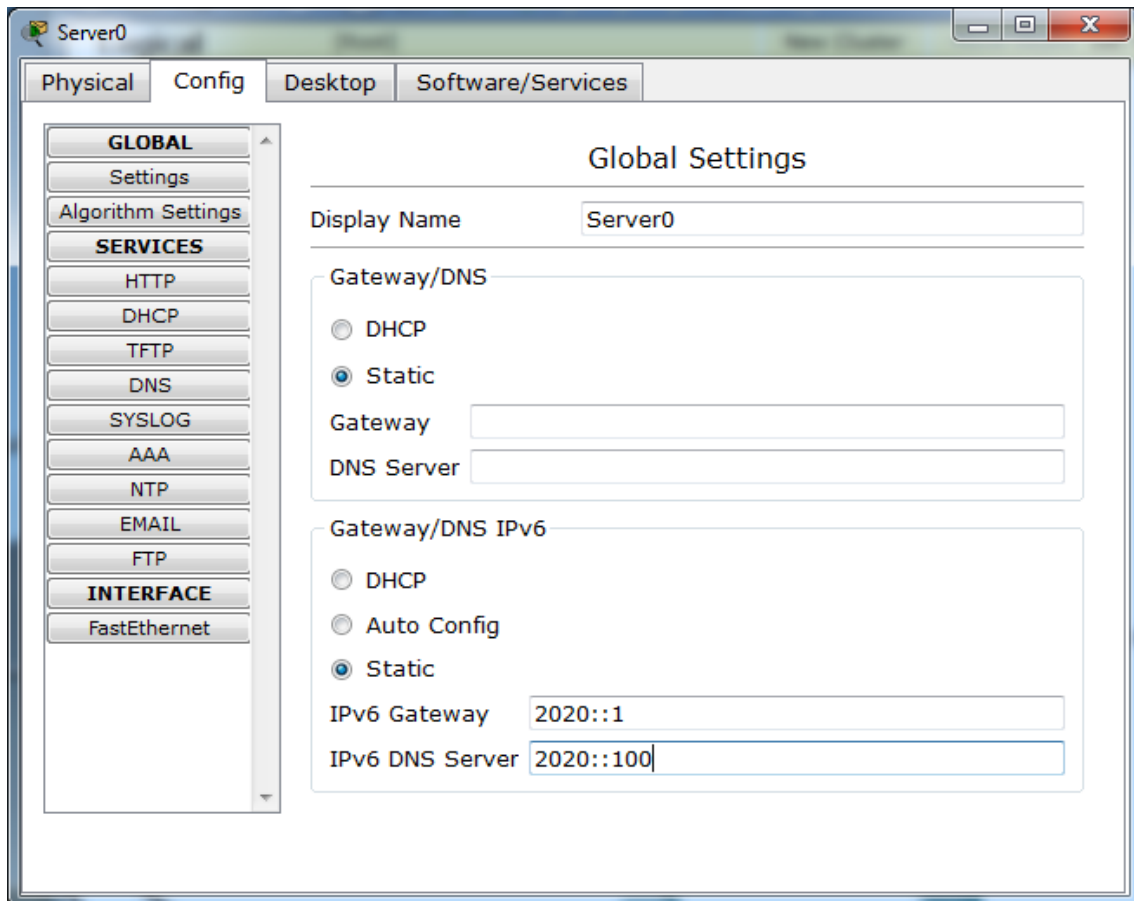
DNS Service  On  Off

Resource Records

Name  Type

Address

No.	Name	Type	Details
1	servidoripv6	A Record	2020::100



Ahora lo que vamos a hacer es asignar una dirección ip v6 a las interfaces del router

**R1:**

```
Router>enable
```

```
Router#conf t
```

```
Router(config)#hostname R1
```

```
R1(config)#interface fa0/0
```

```
R1(config-if)#ipv6 address 2009::1/64
```

```
R1(config-if)#no shutdown
```

```
R1(config)#interface serial 0/3/0
```

```
R1(config-if)#ipv6 address 10::1/64
```

```
R1(config-if)#no shutdown
```

```
R1(config-if)#end
```

```
R1#copy run startup
```

**R2:**

```
Router>enable
Router#conf t
Router(config)#hostname R2
R2(config)#interface fa0/0
R2(config-if)#ipv6 address 2020::1/64
R2(config-if)#no shutdown
R2(config-if)#interface se0/3/0
R2(config-if)#ipv6 address 10::2/64
R2(config-if)#no shutdown
R2(config-if)#end
R2#copy run startup
```

**Una vez definidas las interfaces con sus direcciones ip correspondientes, pasaremos a enrutar con RIPng IPv6**

**R1:**

```
enable
conf t
ipv6 unicast-routing
ipv6 router rip josecarlos
exit
interface fa 0/0
ipv6 rip josecarlos enable
interface se 0/3/0
ipv6 rip josecarlos enable
end
copy run sta
```

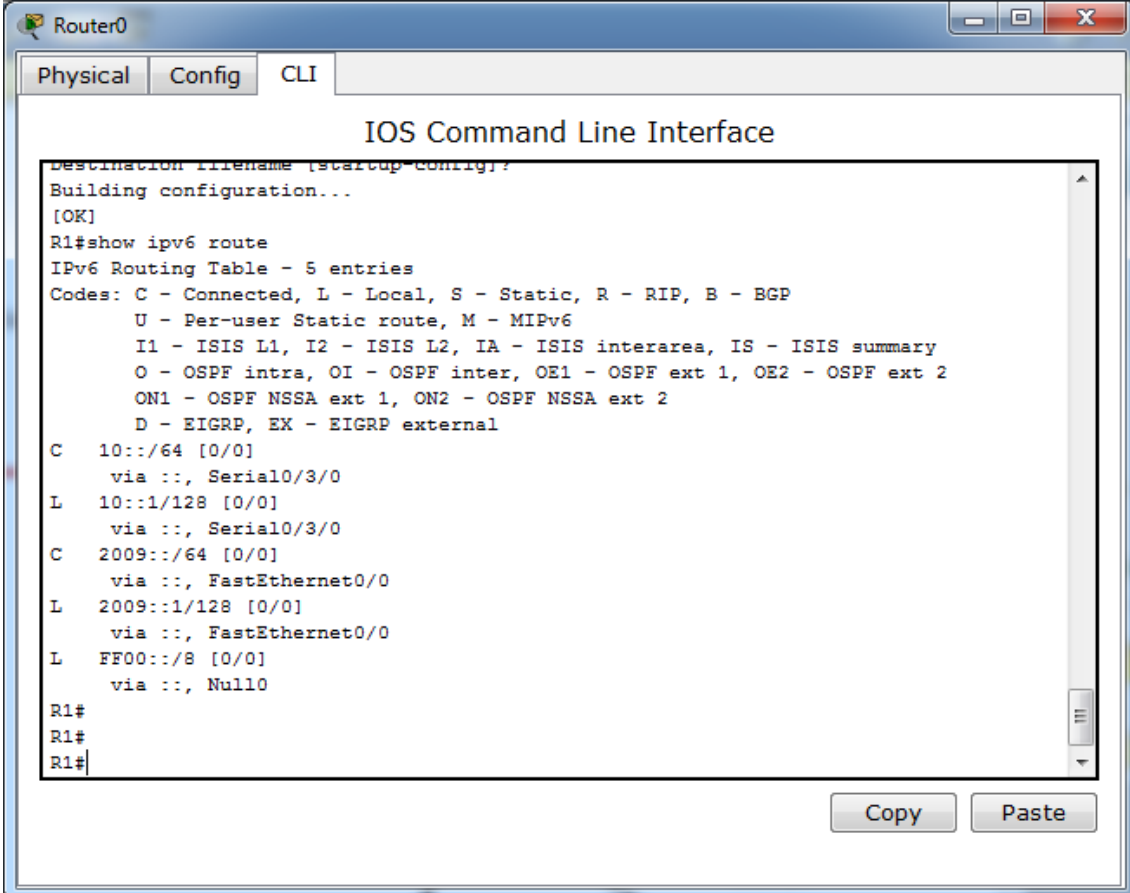
**R2:**

```
enable
conf t
ipv6 unicast-routing
```

```
ipv6 router rip josecarlos2
exit
interface fa0/0
ipv6 rip josecarlos2 enable
interface se 0/3/0
ipv6 rip josecarlos enable
end
copy run startup
```

Ahora realizare un show ipv6 route para ver las rutas que se a aprendido el router

R1:



```
Router0
Physical Config CLI
IOS Command Line Interface
Destination filename [startup-config]:
Building configuration...
[OK]
R1#show ipv6 route
IPv6 Routing Table - 5 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
        U - Per-user Static route, M - MIPv6
        I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
        O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
        ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        D - EIGRP, EX - EIGRP external
C   10::/64 [0/0]
    via ::, Serial10/3/0
L   10::1/128 [0/0]
    via ::, Serial10/3/0
C   2009::/64 [0/0]
    via ::, FastEthernet0/0
L   2009::1/128 [0/0]
    via ::, FastEthernet0/0
L   FF00::/8 [0/0]
    via ::, Null0
R1#
R1#
R1#
```

R2:

