

## IPv6 Configurations

### Global Unicast configuration: (Like a public IPv4 address)

```
R1#ipv6 unicast-routing (turn on)
R1#int f0/0
R1#ipv6 add 2001:db8:0:1::1/64
R1#int f2/0
R1#Ipv6 add 2001:db8:8:0:0::1/64
```

### EUI64 configuration: (derive from the MAC address)

```
R1#int f0/0
R1#ipv6 add 2001:db8:0:1::/64 eui-64 (network portion)
R1#int f2/0
R1#ipv6 add 2001:db8:0::/64 (host portion)
R1#sh int f0/0
R1#sh ipv6 int brief
```

\*It will now generate IPv6 addresses for itself on those interfaces

### Unique local configuration:

```
R1#int f0/0
R1#ipv6 add fe80::1 link-local
R1#int f2/0
R1#ipv6 add fe80::1 link-local
```

### Quick commands:

```
R1#show ipv6 interface brief
R1#show ipv6 neighbors
```

## IPv6 Static route config

```
R1#ipv6 route 2001:db8::/64 2001:db8:0:1::2
```