

# Configure Manual IPv6 Tunnels

- Router(config)# interface tunnel tunnel-number
  - Example: Router(config)# interface tunnel 0
- Router(config-if)# ipv6 address ipv6-prefix/ prefix-length [eui-64] (Specifies the IPv6 network assigned to the interface and enables IPv6 processing on the interface)
  - Example: Router(config-if)# ipv6 address 2002:c4c0:21a::2/64
- Router(config-if)# tunnel source { ip-address | type number} (Source IPv4 address or the source interface type and number for the tunnel interface)
  - Example: Router(config-if)# tunnel source loopback 0
- Router(config-if)# tunnel destination ip-address (Destination IPv4 address or host name for the tunnel interface)
  - Example: Router(config-if)# tunnel destination 192.168.1.5
- Router(config-if)# tunnel mode {aurp | cayman | dvmrp | eon | gre | gre multipoint | gre ipv6 | ipip [decapsulate-any] | iptalk | ipv6ip | mpls | nos}
  - Example1: Router(config-if)# tunnel mode ipv6ip (Túnel 6in4)
  - Example2: Router(config-if)# tunnel [mode gre ip] (Túnel IPv6 sobre IPv4 Generic Route Encapsulation (GRE))
- Router(config-if)# exit
- Router(config)# ipv6 route ipv6-prefix/ prefix-length tunnel tunnel-number (Configure a static default route via the tunnel)
  - Example: Router(config)# ipv6 route ::/0 tunnel 0

# Configure 6to4 Tunnels

- Router(config)# interface tunnel tunnel-number
  - Example: Router(config)# interface tunnel 0
- Router(config-if)# ipv6 address ipv6-prefix/ prefix-length [eui-64] (Specifies the IPv6 address assigned to the interface and enables IPv6 processing on the interface. The 32 bits following the initial 2002::/16 prefix correspond to an IPv4 address assigned to the tunnel source)
  - Example: Router(config-if)# ipv6 address 2002:c0a8:6301:1::1/64
- Router(config-if)# tunnel source { ip-address | type number} (Source IPv4 address or the source interface type and number for the tunnel interface)
  - Example: Router(config-if)# tunnel source ethernet 0
- Router(config-if)# tunnel mode ipv6ip 6to4 (Túnel 6to4)
- Router(config-if)# exit
- Router(config)# ipv6 route ipv6-prefix/ prefix-length tunnel tunnel-number (Configures a static route for the IPv6 6to4 prefix 2002::/16 to the specified tunnel interface)
  - Example: Router(config)# ipv6 route 2002::/16 tunnel 0