

Part-1

Step-1:

a.

```
Edge_Router>en
Edge_Router#conf t
Edge_Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
```

b.

```
Edge_Router#show ip route
```

c.

```
Edge_Router#traceroute 198.0.0.10
```

Step-2:

b.

```
Edge_Router>en
Edge_Router#conf t
Edge_Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1 5
```

c.

```
Edge_Router#show run
```

d.

```
Edge_Router#show ip route
```

Part-2

a.

```
Edge_Router>en
Edge_Router#conf t
Edge_Router(config)#int s0/0/0
Edge_Router(config-if)#shut
```

b.

```
Edge_Router(config-if)#exit
Edge_Router(config)#exit
Edge_Router#show ip route
```

c.

```
Edge_Router#traceroute 198.0.0.10
```

d.

```
Edge_Router#conf t
Edge_Router(config)#int s0/0/0
Edge_Router(config-if)#no shut
```

e.

```
Edge_Router#traceroute 198.0.0.10
```

Part-3

Step-1:

Enabling ipv6 -

```
Edge_Router>en
Edge_Router#conf t
a.
Edge_Router(config)#ipv6 route ::/0 2001:DB8:A:2::1 5
b.
Edge_Router(config)#exit
Edge_Router#show run
```

Step-2:

```
a.
Edge_Router>en
Edge_Router#conf t
Edge_Router(config)#int s0/0/0
Edge_Router(config-if)#shut
b.
Edge_Router(config-if)#exit
Edge_Router(config)#exit
Edge_Router#show ipv6 route
c.
Edge_Router#traceroute 2001:db8:f:f::10
d.
Edge_Router#conf t
Edge_Router(config)#int s0/0/0
Edge_Router(config-if)#no shut
e.
Edge_Router#traceroute 2001:db8:f:f::10
```