

EIGRP Terminologies:

Advertised Distance (AD)/Reported Distance (RD): The cost from the neighbor to the destination.

Feasible Distance (FD): The total cost to reach a destination network.

Successor: The primary route used to reach a destination. The successor route is kept in the routing table. Notice that successor is the best route to that destination.

Feasible Successor: The backup route. To be a feasible successor, the route must have an AD less than the FD of the current successor route.

```
R1#show ip eigrp topology
EIGRP-IPv4 Topology Table for AS(1)/ID(192.168.12.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - reply Status, s - sia Status

P 192.168.12.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0
P 2.2.2.2/32, 1 successors, FD is 156160
   via 192.168.12.2 (156160/128256), FastEthernet0/0
```

