RIP Next Generation (RIPng)

- The RIP dynamic routing protocol version for IPv6 is called RIPng.
- RIPng works same as RIPv2 almost.
- RIPng uses the same port as RIPv2 UDP 521.
- RIPng as specified by RFC 2080 counts the ingress interface in the hop count metric of the routes (same metric as in RIPv2 +1).
- RIPng does not support the RIPv2 updates authentication, as IPv6 supports IPsec natively and should use it for security.
- RIPng uses local multicast group FF02::9
- RIPng administrative distance is the same as RIPv2 (120)
Cisco commands for RIPng configuration

- Go to the interface you would like to turn RIP on it and use this command
  - Ipv6 rip (rip processes name) enable
- i.e. interface fast 0/0
  - Ipv6 rip MyRip enable

Cisco RIPng Verification commands

- Show ipv6 route
- Show ipv6 route rip
- Show ipv6 protocols
- Show ipv6 rip (process name)
- Show ipv6 rip
- Show ipv6 interface