

EIGRP (Enhanced Interior Gateway Routing Protocol):

- o EIGRP stands for Enhanced Interior Gateway Routing Protocol.
- o EIGRP is a Cisco Proprietary routing protocol however open in 2013.
- o It is hybrid routing protocol sometime called Advanced Distance Vector.
- o It has characteristics of both distance vector and link state protocols.
- o It uses DUAL (Diffusing Update Algorithm) algorithm to select best path.
- o It uses RTP (Reliable Transport Protocol) to communicate with neighbors.
- o Enhanced Interior Gateway Routing Protocol uses multicast for updates.
- o EIGRP supports Both Internet Protocol V4 and IPV6 routed protocols.
- o EIGRP includes subnet mask information in the routing updates message.
- o EIGRP supports route summarization and discontinuous networks.
- o EIGRP protocol supports VLSM, CIDR also supports trigger updates.
- o It sends partial or full update only when something is change in network.
- o The Default Internal Administrative Distance of EIGRP protocol is 90.
- o The Default External Administrative Distance of EIGRP protocol is 170.
- o The EIGRP default hop count support is 100 but it can be tune to 255.
- o EIGRP protocol support Equal cost Load and Unequal Cost load balancing.
- o EIGRP take load balancing by default up-to 4 paths can configure up to 32.
- o Hello time of EIGRP protocol is 5 seconds and the dead time is 15 seconds.
- o EIGRP updates are sent to 224.0.0.10 on Multicast Internet Protocol address.
- o EIGRP Support MD5 Authentication & by default, Auto Summarization is enable.

