CNT Assignment 4

- * Aim: Using a network simulator, configure:

 - i) FIGRP

 ii) RIPVZ and EIGRP on some network

 iii) WLAN with static IP Addressing DHCP with MAC security & Filters
- Theory:
- EIGRP (Enhanced Interior Gateway Routing Protocol)
- It is an advanced distance vector routing protocol. Its an evolution of IGRP now obsolete. Supports classless routing & VLSM, route summarization, load balancing & many other useful features.

FIERP characteristics include:

- i) Fost convergence
 ii) Loop free topology
 iii) VLSM & route summarization
 - routes for multiple routed protocols
- EIGRP Advantages:
 - Fosy transition to 1916 with multiaddress family support for both 1948 1946.

ii) Very fost rapid convergence for changes in network topology iii) Superior scaling of IGP For dynamic multipoint deployments. Disadiontages of EIGRA i) Its still distance vector routing protocol & relies on routes provided by directly connected neighbours. ii) Its not extensible & doesn't support Fiture application through opaque LSA. RIP V2 Developed in 1993 due to deficiencies in IPV1 Supports classics interdomain routing (CIDR) & carries subnet information Supports authentication & does subnetting & multicasting. Auto summary can be done on every router. (3) WLAN

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_	A Wireless Local Area Network is a group of colocated computers or other devices that form a network based on radio transmissions
_	A WiFi network is a type of WLAN. A WLAN transmits information over radio waves. Data is sent in packets.
	Packets contain layers with labels & instructions along with unique MAC addresses assigned to end points.
*	Conclusion: Thus we have configured EIGRP, RIPVEZ & WLAN.
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