RIP: Routing Information Protocol

* Dynamic routing protocol
* Distance vector routing protocol.
* Develop for small network
* RIP use UDP port no 520 for route updates.
* RIP calculates the best route based on hop count.
* RIP is Open standard. Some time is also called IP RIP

Routing Information Protocol v1

1. Open standard protocol
2. Class full routing protocol
3. Updates are broadcast via 255.255.255.255
4. Administrative distance is 120
5. Metric : Hop count : 15
6. RIP Identified maximum router 16
7. Load balancing of 4 equal paths.
8. Use for small network
9. Exchange entire routing table for every 30 second.
10. When RIP send update it send full routing table update.

RIP Timers

1. Update timer : 30 sec

* Time between convergence

1. Invalid timer : 180 sec

* Time a router wait to her update.
* The router marked unreachable if there is no update during this interval.

1. Flush timer: 240 sec

* Time before the invalid router is purged from the router.

Command for configure rip

Router (confing)# router rip

Router (confing)# network

Support link

http://www.computernetworkingnotes.com/ccna-study-guide/rip-tutorial-basic-operation-of-rip-protocol.html

http://www.computernetworkingnotes.com/ccna-study-guide/rip-routing-information-protocol-explained.html