Assignment - B3

- * little: To study about dynamic routing protocols
 - * Problem Statement: configure RIP/OSPF/BGP using packet tracer
 - * Objective:

To learn about dynamic routing protocols

* Meory:

Dynamic Routing is a networking technique that

provides optimal data routing. Unlike static routing, dynamic louting enabus soutist to select paus according

to real-time logical network layout changes.

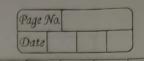
about the new to allow them to select best patte to real

a distination.

Dynamic routing was multiple algorithms le protocols. In most popular are souting ayomnation protocol and open sound party first.

RIP Protocol:

Routing Information protocol is an intra-domain routing protocol used neith an autonomous system. Hur, intra-domains souting the packets in a defined domain. The RIP is based on the distance vector-based strategy, so me can conclude graph where nodes are sowers le links are networks.



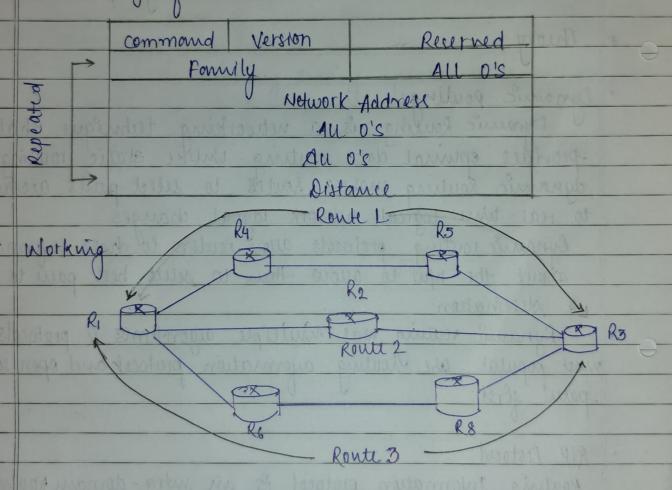
In a souting table, first column is destribution.

The cost metric is number of hops to reach the distination.

The RIP, injurity is 16 which means RIP is useful for small nows, what number of hope is 15.

The next column contains address of souter to which packet is to be sent to reach destination.

RIP message format:



Suppose RI wants to send data to Ro, if n/w is configured with RIP, it will shoose south which has least no of hope, it will shoose south 2

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· Advantages of RIP:

It is easy to configure

It has as comparity

The CPU Utilization is US.

Disadvantages of RIP

In RIP, south is shoosen based on hop count metric, so

Pl another south of better bandwidth is available, then

That youth may not be shosen

It broadcasts surviving souting updates to sentire network

That creates a lot of traying.

* Conclusion.

whe successfully configured AIP in cisco packet traces.