

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Experiment 7

Aim: To design a network with routers, hosts and simulate dynamic routing algorithm using Cisco packet tracer.

Theory:

Dynamic routing is all about configuring a network using dynamic routing protocols. Dynamic Routing Protocol is divided in to two main parts.

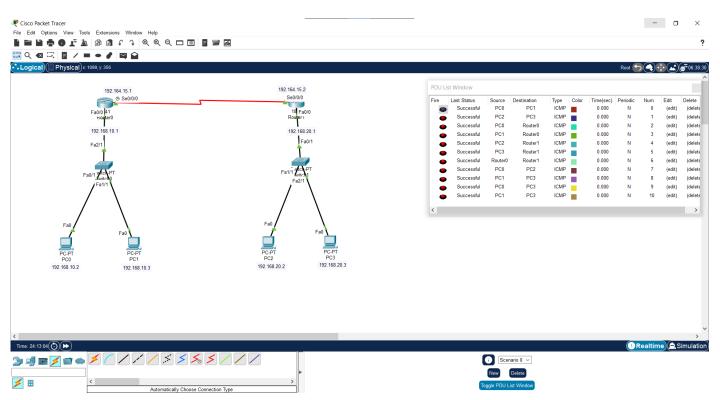
- 1.Interior Gateway Protocol
- 2. Exterior Gateway Protocol

Interior Gateway Protocol is an autonomous system and handled by only one admin. this protocol is also divide into two parts,

- 1. Distant Vector Protocols(Bellman-Ford Algorithm) distance is measured by 'hop count' and use for simple networks
- 2. Link State Protocol(Dijkstra Algorithm) this uses some other information like neighbour router info and this is best for complex network designs

Output:

Main:



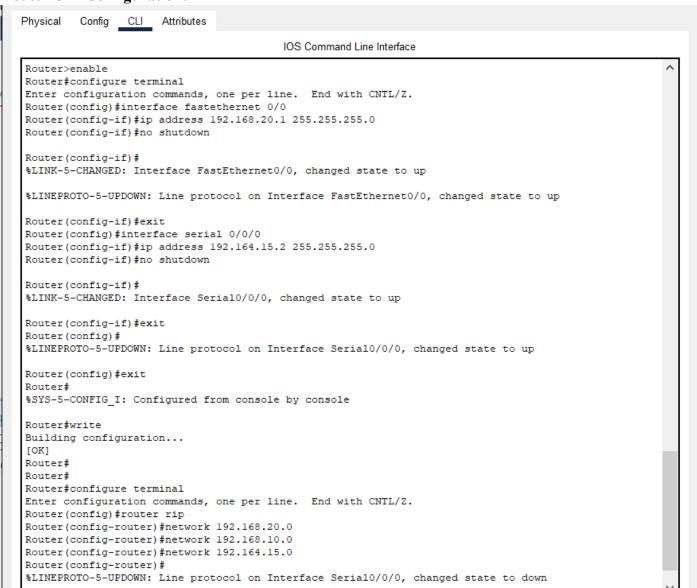
CSL501: Web Computing and Network Lab



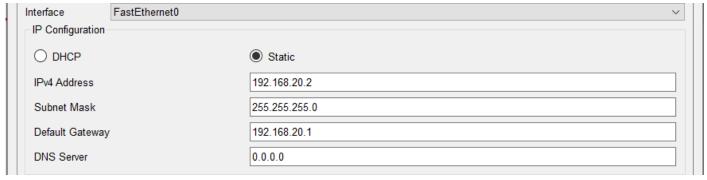
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Router CLI Configuration:



PC IPv4 Configuration:



Conclusion:

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