DEERWALK INSTITUTE OF TECHNOLOGY

Tribhuvan University

Faculties of Computer Science



**Bachelors of Science in Computer Science and Information Technology**

(B.Sc. CSIT)

Course: Computer Networks (CSC 263)

Class of 2027/Semester: IV

A Lab Report On:

**Designing a network to enable communication between 3 intranets.**

**Submitted by:**

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Roll No: 1333

**Submitted to:**

Er Rohit Nakarmi

Faculty, Department of Computer Science

# **Lab 3:**

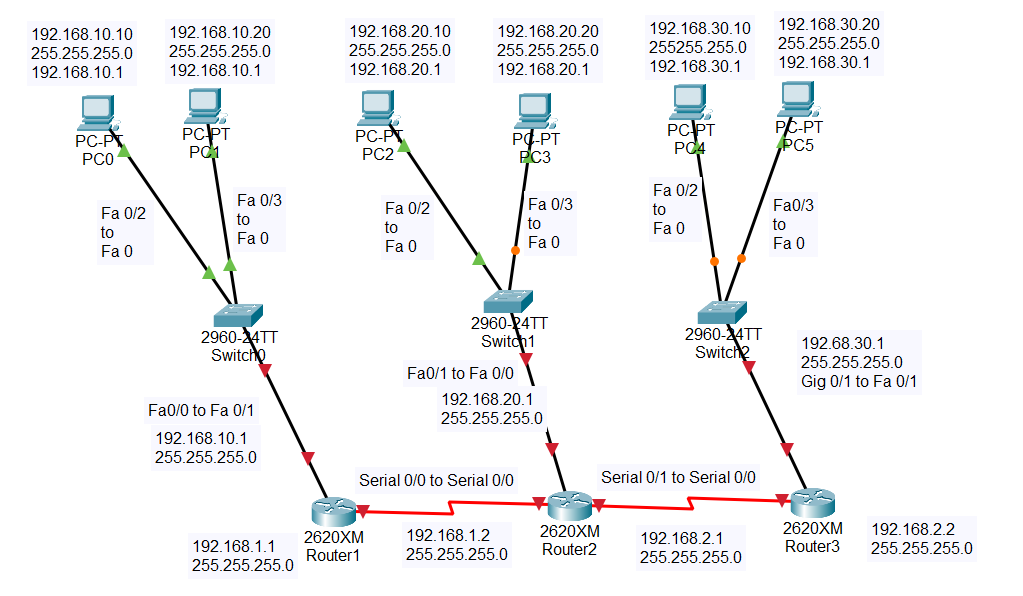
**Objective:**

*Enable communication between 3 intranet topologies with routers.*

**Tools Used:**

* *Cisco Packet Tracer*
* *Router 2620XM*
* *Switch 2960-24TT*
* *VPCs*

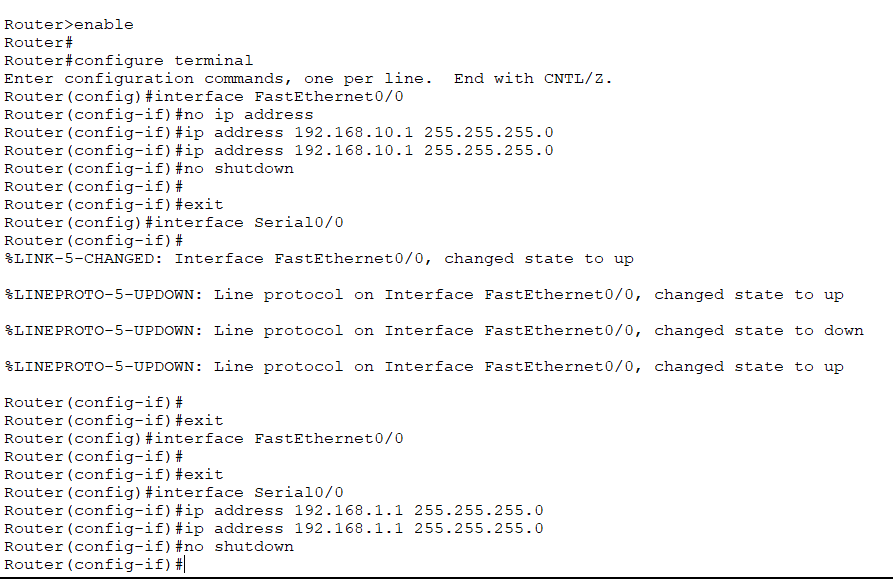
**Logical Topology Diagram:**

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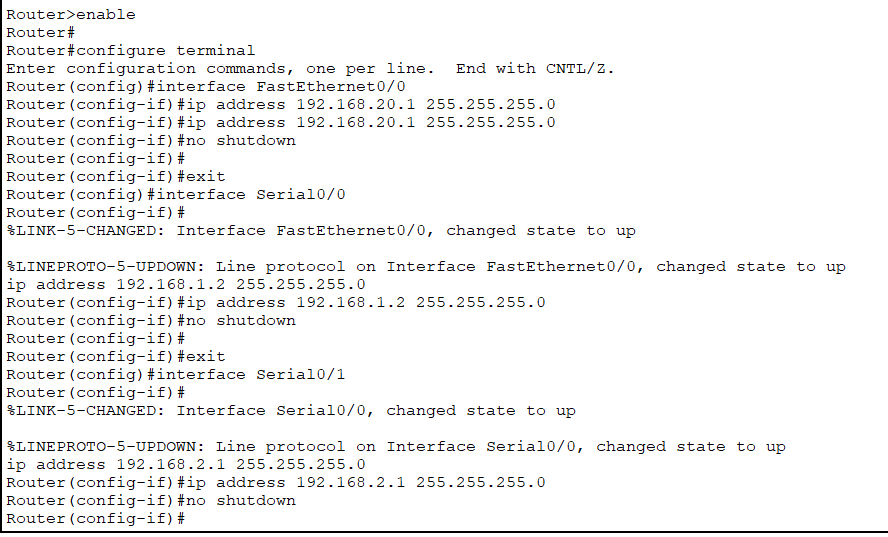
* **Configuration of routers:**
  + **Router Module: WIC 1T**

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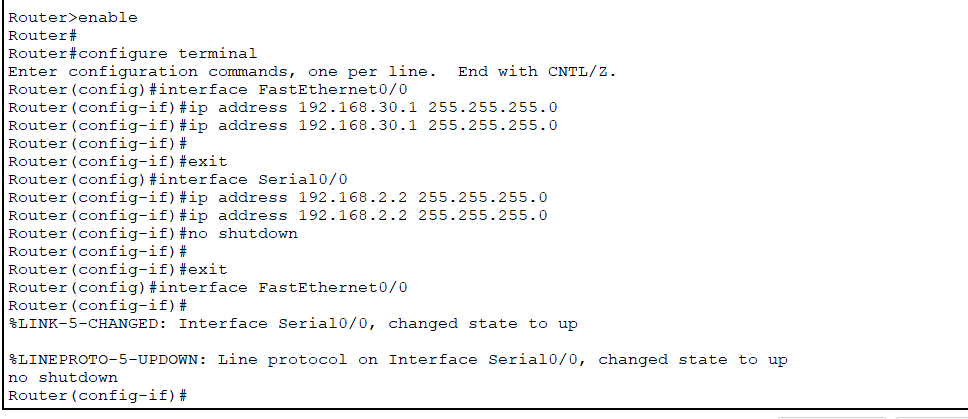
* + **Router 1:**

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* + **Router 2:**

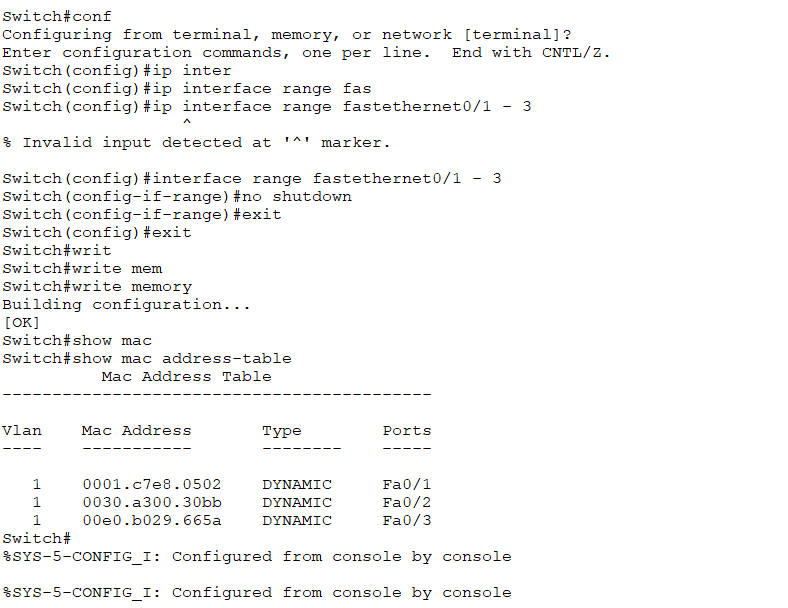
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* + **Router 3:**

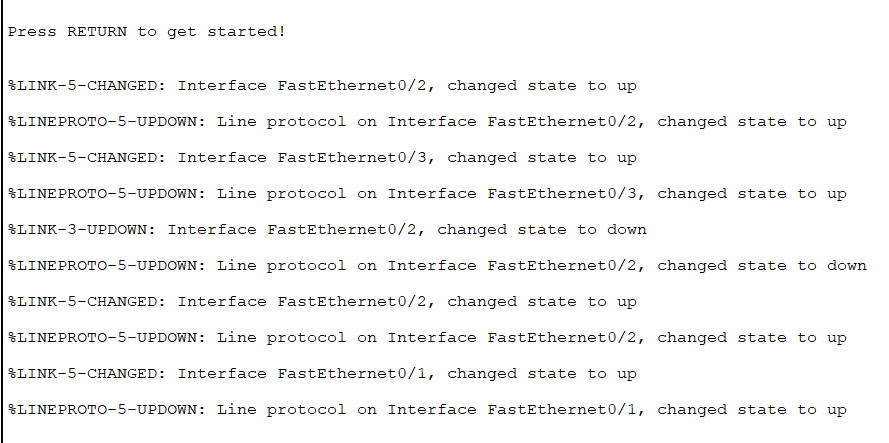
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**Configuration of the switches:**

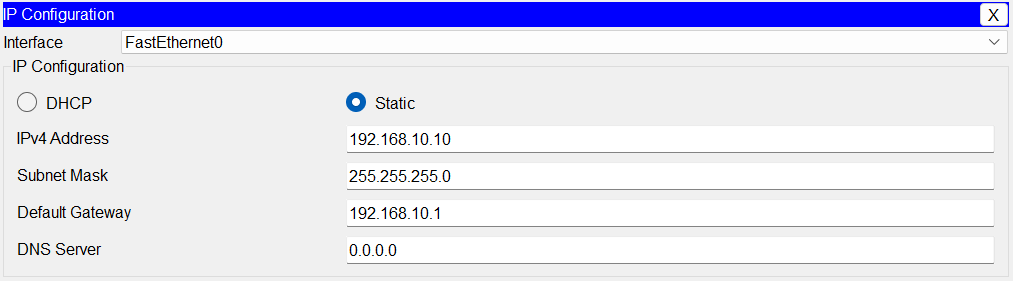
* + **Switch 0:**

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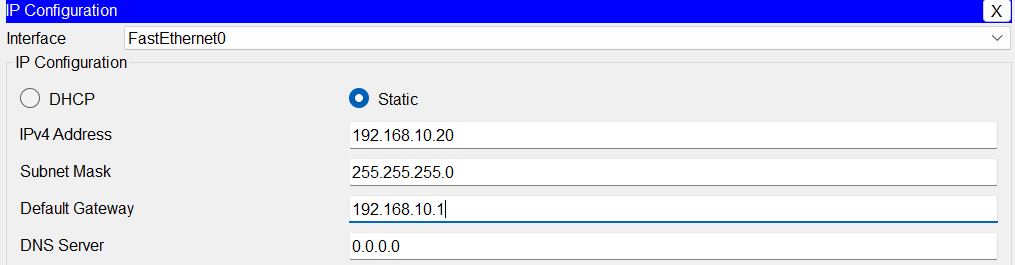
* + **Switch 1:**

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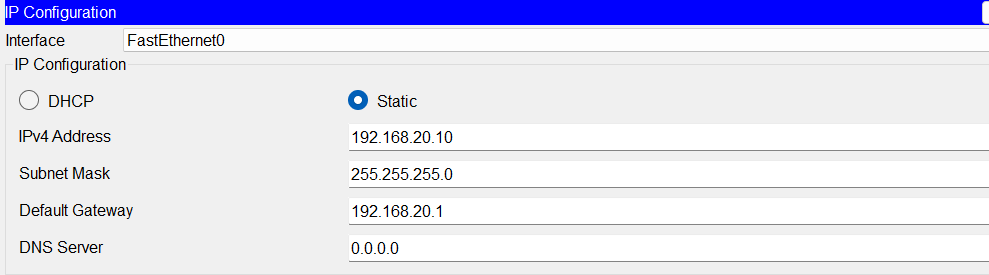
* **Configuration of VPCs and Laptops:**
  + **PC 0:**

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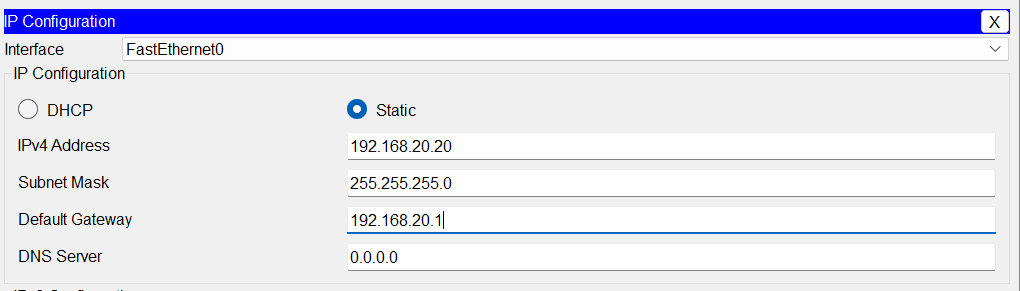
* + **PC 1:**

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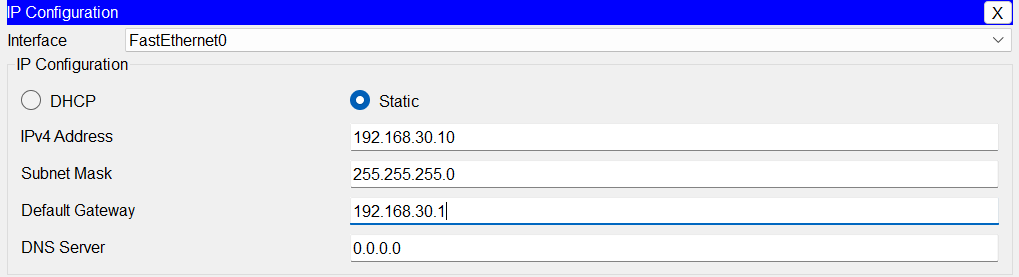
* + **PC 2:**

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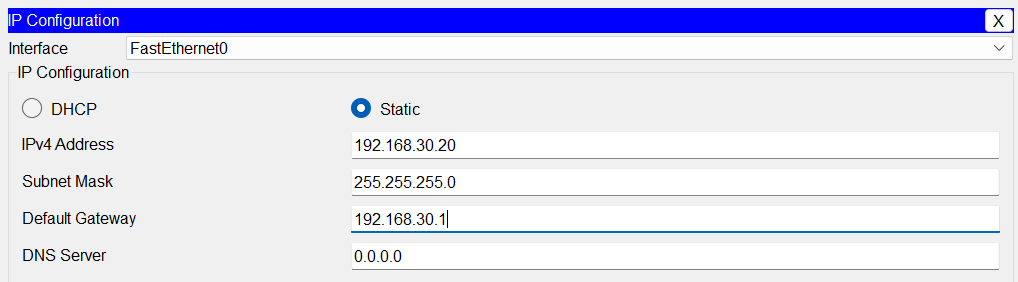
* + **PC 3:**

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* + **PC 4:**

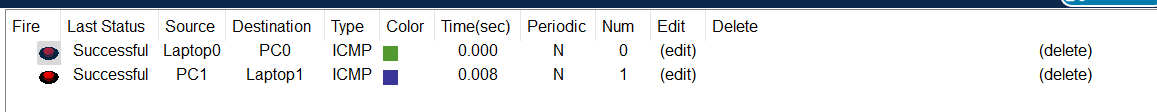
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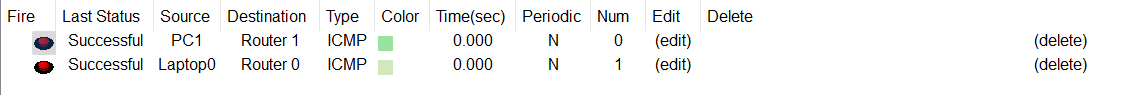
* + **PC 5:**

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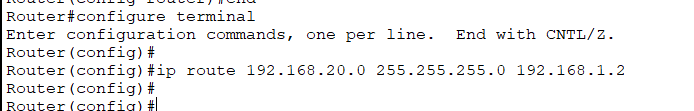
**Communications between PCs:**

* **Communication within the intranet:**

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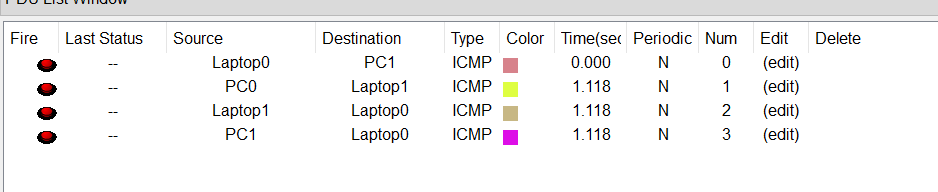
* **Communication between the intranets:**
  + **Ip Routes:**
    - **Router 0:**

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* + - **Router 0:**

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* + **Pinging from Devices:**

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