

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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· Report CN LAB EXAM-I

Aim:
To create and Configure Scietable Metwork topology for both LAN and WAN using Cisco packet traces Innolving 10-15 Computers, Switches 20 routers. The goal & to Simulate the transmission of Message from Computer In the Richwork to a Computer in another Webwork, ensuring proper Connectivity as Communication across different rebook Jegments.

Procedure:

1. Topdogy durign:

LAN Configuration

Design a Metwork topology with afterst 10 Computers Connected to Switches.

Fixwe the LAN Segment has appropriate Switch Connectifiity.

Implement WAN Configuration to Connect LAN network transher Network wing the mounters:

2 Metrook Schup

Add Dunces

- . place of Connect 10-15 Computer within LAN Segment.
- · Add attent southers to failletate Cornection of Conjukers.
- · Introduce afterest two routers for WAN Connectifiety.



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Configure IP Addresses

- Ougutes her swigne IP address with Some Subnot.
- · Configure souter with respective LP Address to Selve souting protocols (00) Static routes to ensure Connection to different LAN through WAN.

3 Metwork Configuration

- · Configure IP Adahress on each Compreher and Connect too Switches to establish

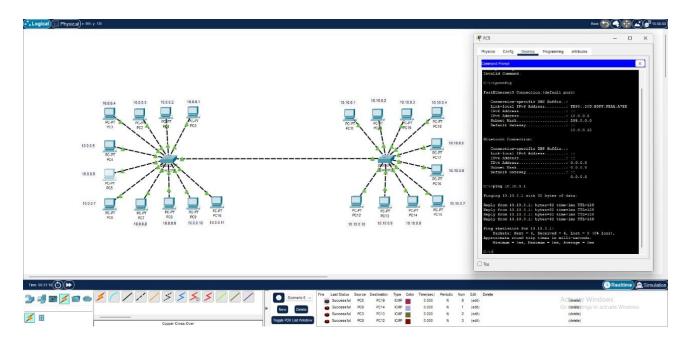
- Connect two routers to establish a WAN Connection.

 Configure router Interfaces with IP Address of Static /default prouterdynamic routing for traffic between LAN Segments.

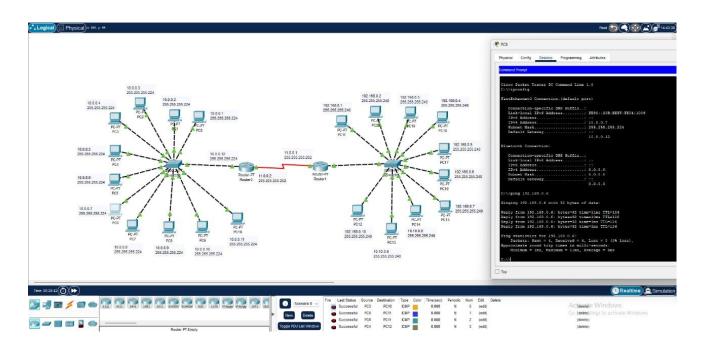
4. Cheeking Connectively

- · Send packets from one bast to quiltur and check if the Corneshing
- determinent Verify the Message / packet from the Successfully in

RESULT:



LAN



WAN