WORKSHOP 1

PRESENTED BY:

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COMPUTER NETWORKS I

UNIVERSIDAD DISTRITAL FRANCISCO JOSÉ DE CALDAS

FACULTY OF ENGINEERING SYSTEMS ENGINEERING

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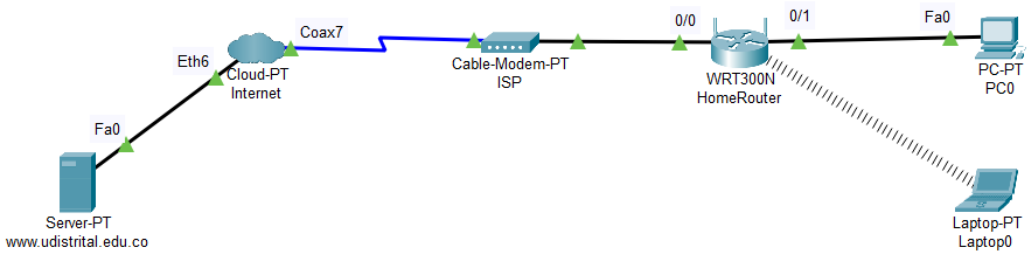
Physical topology in Packet Tracer

Topology



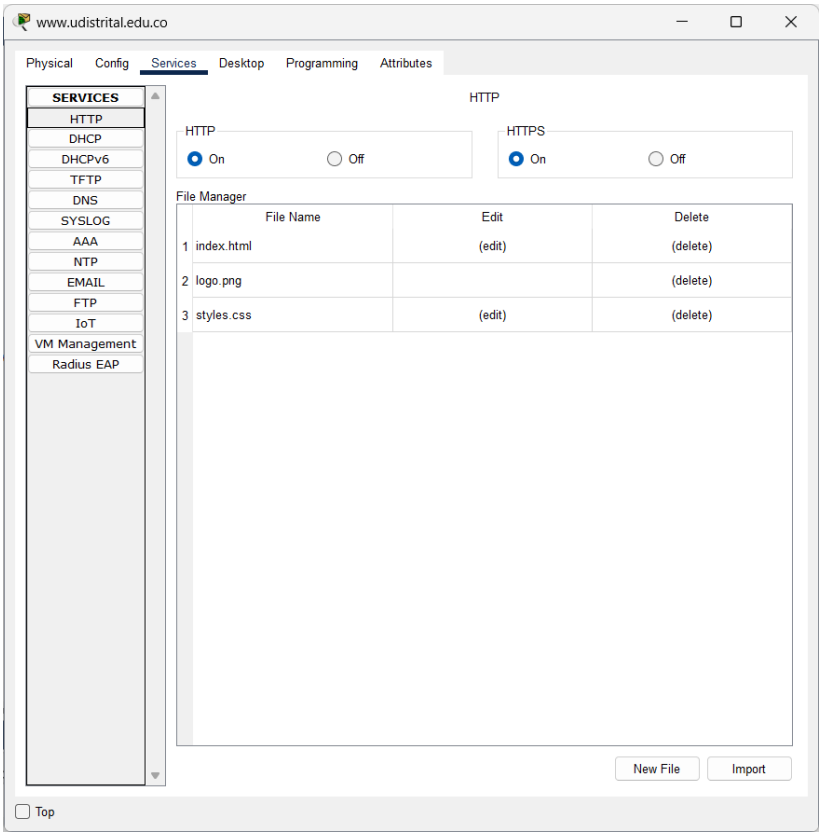
Procedure

Step-by-Step Methodology Used to Conduct the Workshop

1. Devices were added (server, cloud, modem, router, PC, laptop).
2. They were configured as follows

Device configuration

Server configuration



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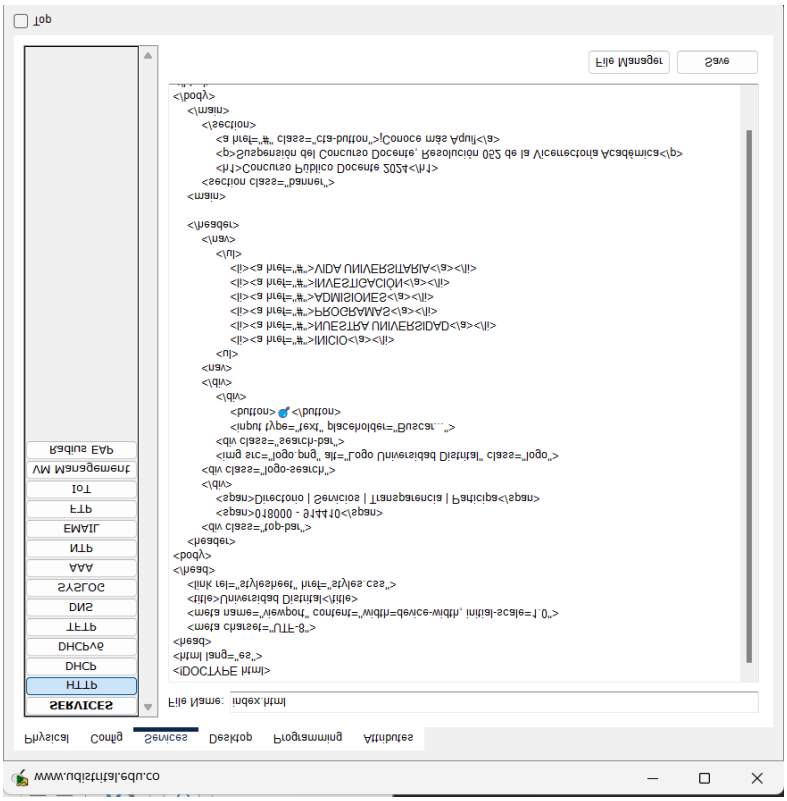

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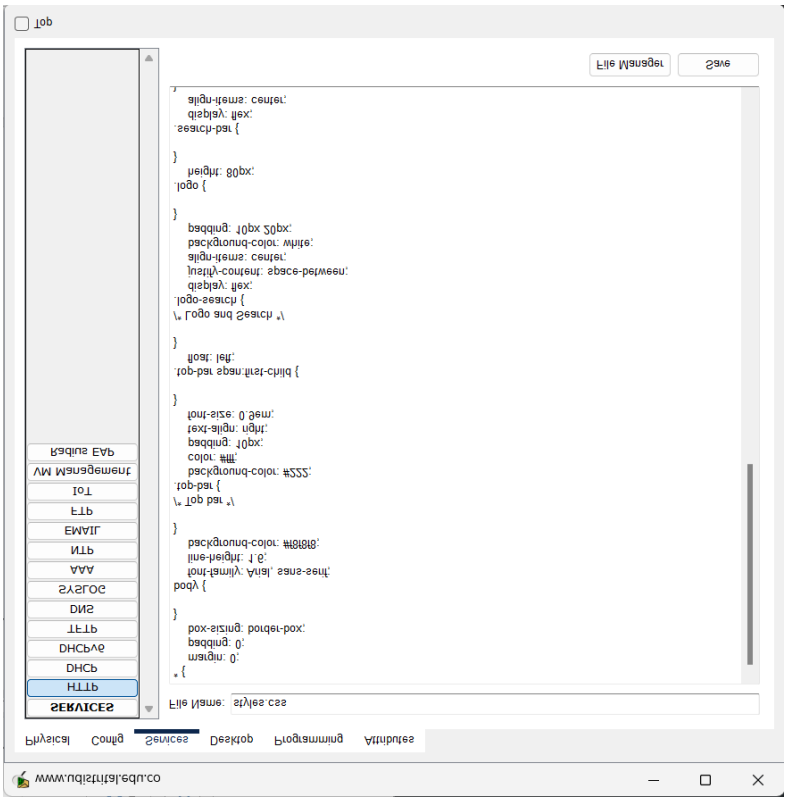
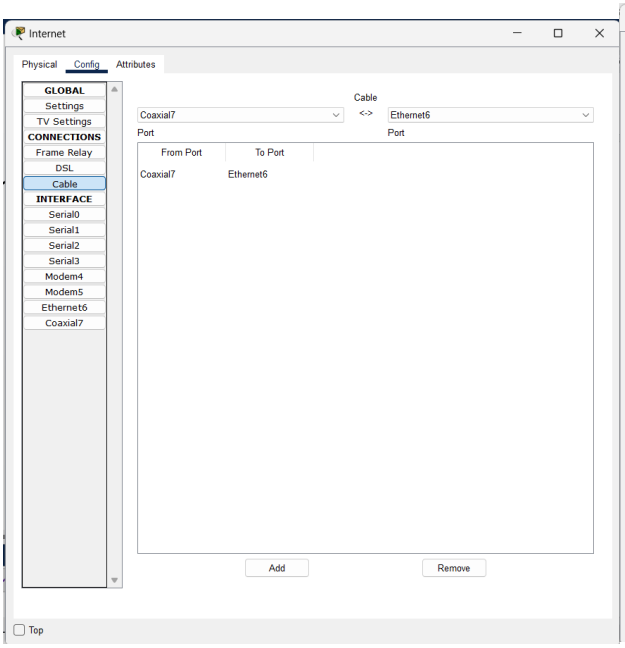
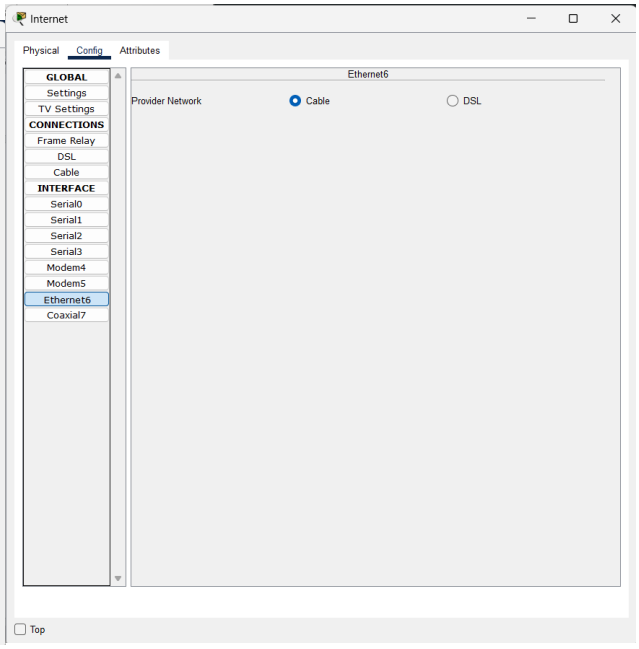
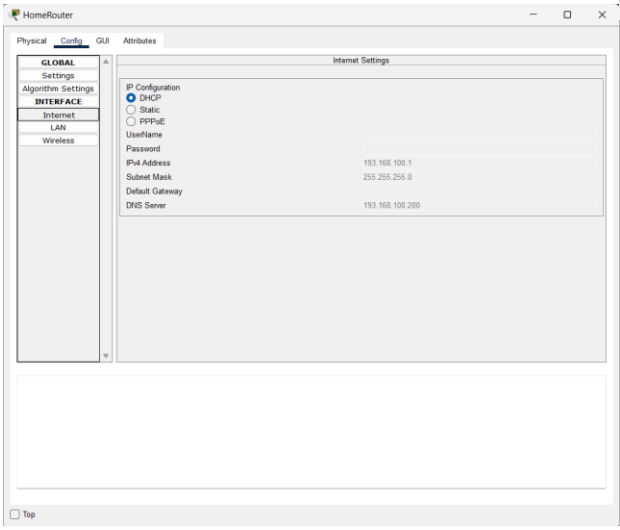


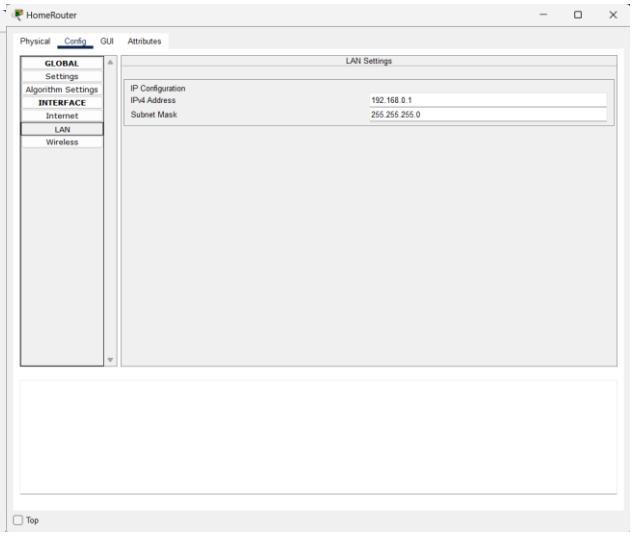
Cloud configuration

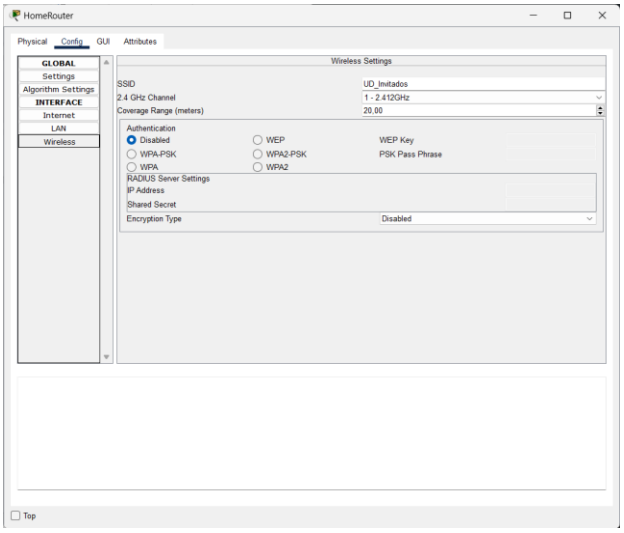




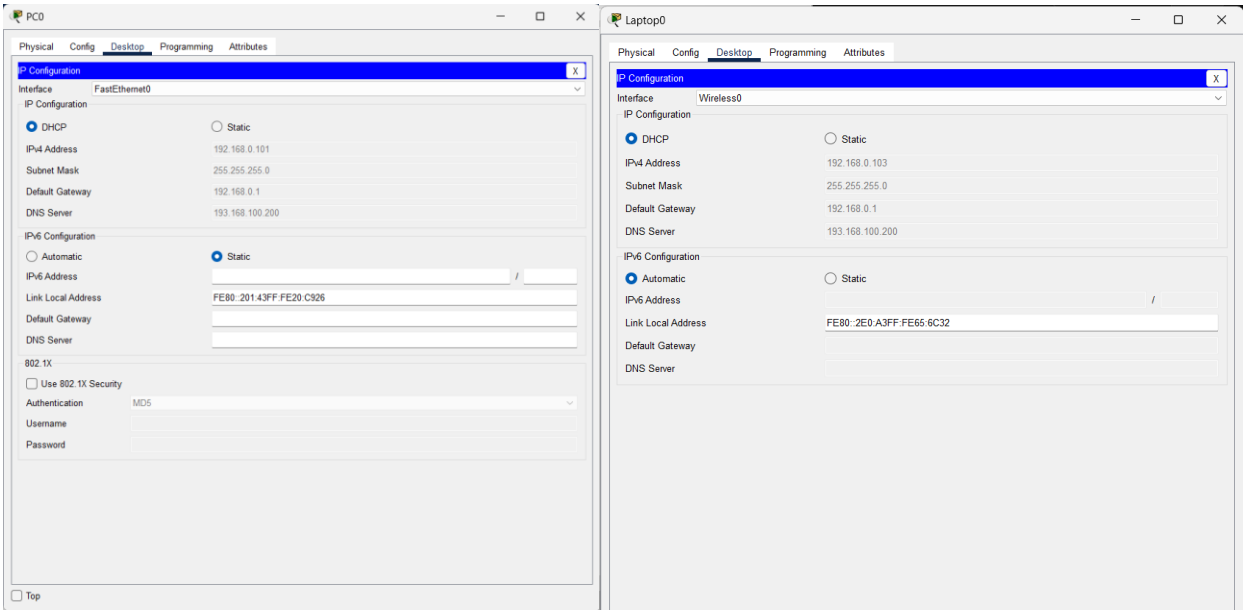
Modem configuration







PC and laptop configuration



Results

During the workshop, the network configuration and verification were successfully completed using Packet Tracer. The following results were achieved:

1. Network Connectivity:
   Ping tests were conducted between all devices (server, PC, laptop, router, and modem). All pings were successful, confirming that the network is correctly configured and all devices can communicate with each other.
2. Access to the Server's Web Page:
   Access to the web page hosted on the server was tested. The web page loaded correctly in the browsers on both the PC and the laptop, demonstrating that the server is functioning properly and the web server configuration is correct.
3. Configuration Verification:
   IP configurations, subnet masks, default gateways, and DNS server settings on all devices were verified and confirmed as correct.

Conclusion

The workshop on physical topology in Packet Tracer was successful and met its objectives. The key conclusions are as follows

1. All devices were correctly configured, and a functional network was established. Connectivity between devices was verified through successful ping tests.
2. The configured web server responded appropriately to requests from the browsers on the PC and laptop. This confirms that the server is properly configured to serve web pages and that the network allows HTTP/HTTPS traffic.
3. Proper device configuration and connectivity validation are crucial for ensuring network functionality. The conducted tests demonstrated that all configurations, from IP addresses to connectivity tests, were successfully implemented.
4. Continue with similar exercises to reinforce understanding of network configuration and troubleshooting. Ensure comprehensive testing to identify and resolve potential issues before deploying the network in a real-world environment.