Techne-Asya: Packet Tracer Lab Portfolio Report

Student Name: Asya Weston

Course: Computer Science / Network Security

Project Title: Packet Tracer - Network Behavior and ACL Mitigation

Overview:

This report covers Packet Tracer lab exercises focused on network packet flow, ACL configuration, and behavior changes in response to topology modifications. The simulations explore routing, switching, and ACL rules affecting HTTP, DNS, and other protocols.

Key Observations:

- DNS and HTTP packet routes dynamically reroute when links fail.

- ACLs block unauthorized access to routers.

- Traceroute and Simulation modes reveal real-time packet paths.

Conclusion:

This project demonstrates the importance of ACLs and traffic monitoring in secure networking practices, foundational for CCNA and Security+ pathways.