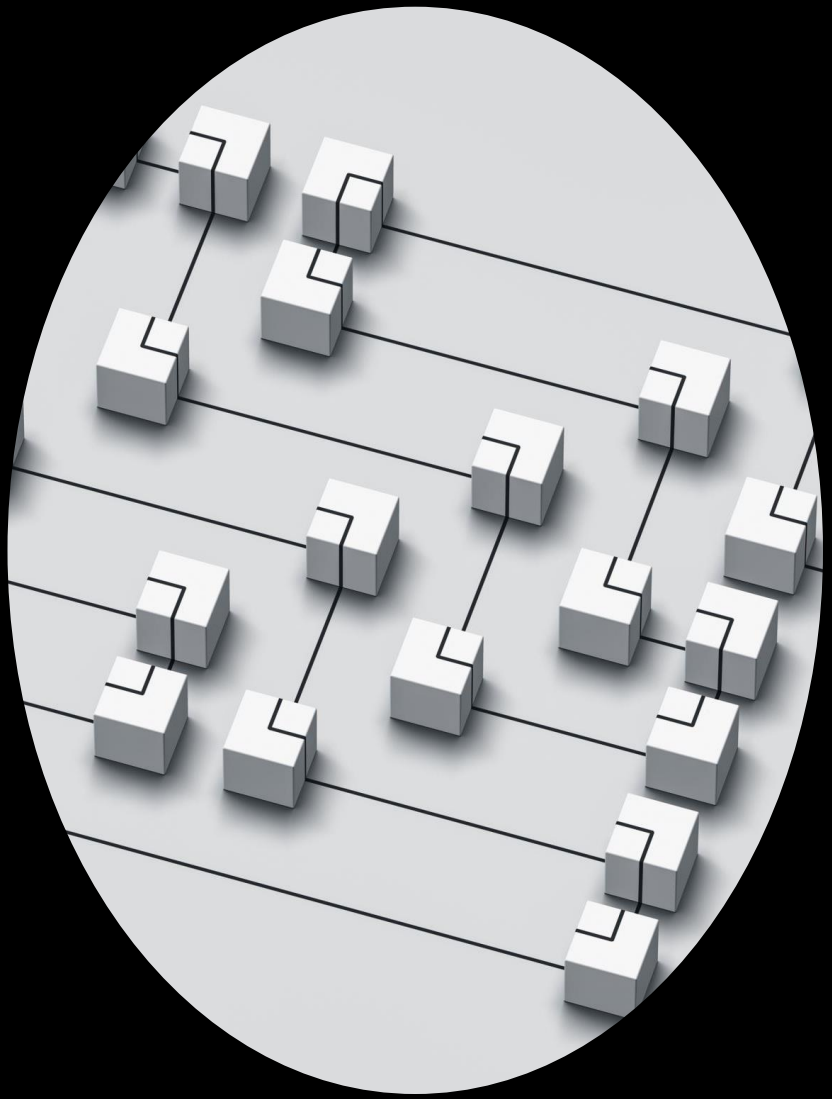


Network Topology Project Proposal

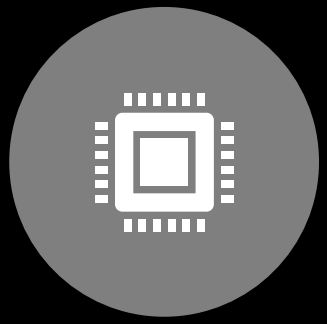
Team Project - Huawei Multi Site Company

رواد مصر الرقمية

Team Members & Instructor

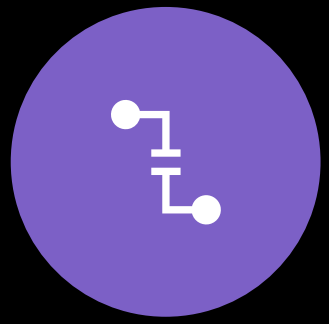
- Ahmed Abdelrahman
- Mohamed Ahmed
- Mostafe Ahmed
- Ali Reda (TL)
- Instructor: Samah Eisa

Introduction



THIS PROJECT FOCUSES ON DESIGNING AND SIMULATING NETWORK TOPOLOGIES USING HUAWEI ENSP.

WE AIM TO CONNECT TWO COMPANY SITES, EACH WITH ITS OWN DEPARTMENTS, THROUGH DIFFERENT NETWORKING METHODS SUCH AS CLOUD, MPLS, OR IBM.



THE PROJECT ALSO INVOLVES IMPLEMENTING VLAN1 AS AN ADMINISTRATOR VLAN TO MONITOR AND CONTROL BOTH COMPANIES.

Objective

- Design three different topologies for Company A, Company B, and the Cloud.

- Connect the two companies through various networking techniques.

- Ensure seamless communication and data flow between departments.

- Implement VLAN1 for centralized monitoring and administrative control.

- Provide a scalable and secure network architecture.

Team Roles

1

Design and ip presenting

- Member 1: Design Company A's Network Topology.

2

Design and test

- Member 2: Design Company B's Network Topology.

3

Configure and manage

- Member 3: Configure and manage the Cloud/MPLS/IBM connection.

4

Integrate and test

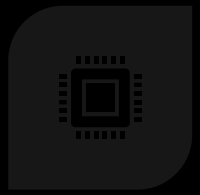
- Member 4: Integrate and test all topologies to ensure functionality.

Project Timeline

- Network Topology & Implementation Plan
- **Week 1**
- **Overall topology design completed (all sites sketched, devices listed, IP plan draft).**
- Week 2
- Team works in parallel: Office A setup, Office B setup, Cloud/MPLS initial config.
- Week 3
- Completion of Office A, Office B, Cloud/MPLS with configs tested locally.
- Week 4
- Integration of all sites, troubleshooting, final testing, documentation & presentation prep.

- 4-Week Project Plan

Expected Outcomes



- A FULLY FUNCTIONAL HUAWEI SIMULATION CONNECTING TWO COMPANIES.

- DEMONSTRATION OF DIFFERENT INTERCONNECTION METHODS (CLOUD, MPLS, IBM).

- VLAN1 ADMINISTRATOR FOR CENTRAL MONITORING.

- CLEAR TEAMWORK DISTRIBUTION AND INTEGRATION OF ALL COMPONENTS.

- FINAL DEMONSTRATION SHOWCASING SEAMLESS NETWORK COMMUNICATION.

Conclusion

This project demonstrates teamwork and technical skills in network design and simulation.

By connecting two company sites with advanced networking methods and integrating VLAN1 for administrative control, our team will showcase practical understanding of enterprise-level networking using Huawei ENSP.