

Lab 10

Discussion About Project

Lab 10 - Task

Task 1;

Research about Topics for Project and submit a deliverables document having:

- Organization Name
- Number of Floors of the Organization
- Number of PC / Server in the system

1. Organization Details

- **Organization Name:** Foxtek Private Limited Pakistan
- **Number of Floors:** 2
- **Number of PCs/Servers:**
 - **PCs:** 50 -60PCs
 - **Servers:** 2 Servers (ServerPT - Cloud and ServerPT - Admin)

Based on the organizational network layout, the following topics are suitable for your project:

1. Network Segmentation Using VLANs:

- Configure VLANs to enhance network segmentation and improve performance and security.
- Use VLAN IDs (10, 20, 30, 40, 50, 60, 70, 80) as depicted in the network.

2. Inter-VLAN Routing Implementation:

- Design and configure routers and Layer-3 switches for inter-VLAN communication.

3. Spanning Tree Protocol (STP) Implementation:

- Prevent network loops in the switching infrastructure and improve reliability.

4. Network Security Measures:

- Implement Access Control Lists (ACLs), firewalls, and security policies for VLANs and external connections.

