ITI-Zag Bank Network Project - Documentation

# Project Overview

This project simulates the network infrastructure for a new bank branch. It includes subnetting, VLAN configuration, Inter-VLAN routing (Router-on-a-Stick), OSPF routing, SSH security, and port security.

# IP Addressing Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | IP Address | Subnet Mask | Gateway | VLAN/Subnet |
| CEO 1 | 172.16.10.190 | 255.255.255.224 | 172.16.10.161 | VLAN 10 / Subnet 6 |
| CEO 2 | 172.16.10.189 | 255.255.255.224 | 172.16.10.161 | VLAN 10 / Subnet 6 |
| Copyrighter 1 | 172.16.10.222 | 255.255.255.224 | 172.16.10.193 | VLAN 20 / Subnet 7 |
| Copyrighter 2 | 172.16.10.221 | 255.255.255.224 | 172.16.10.193 | VLAN 20 / Subnet 7 |
| Dialer 1 | 172.16.10.254 | 255.255.255.224 | 172.16.10.225 | VLAN 30 / Subnet 8 |
| Dialer 2 | 172.16.10.253 | 255.255.255.224 | 172.16.10.225 | VLAN 30 / Subnet 8 |
| Office2-End | 172.16.10.62 | 255.255.255.224 | 172.16.10.33 | Subnet 2 |
| Office3-End | 172.16.10.30 | 255.255.255.224 | 172.16.10.1 | Subnet 1 |

# Key Configurations

- VLANs: 10 (Management), 20 (Marketing), 30 (Accounting), 100 (Native)  
- Subnetting: **In FLSM.docx** 172.16.10.0/24 split into 8 subnets (/27 each)   
- Router-on-a-Stick with sub-interfaces Gi0/0.10, .20, .30 on R1  
- OSPF routing between R1, R2, R3  
- SSH enabled on R3 and S1-Office3  
- Port security on access ports (restrict + sticky MAC)