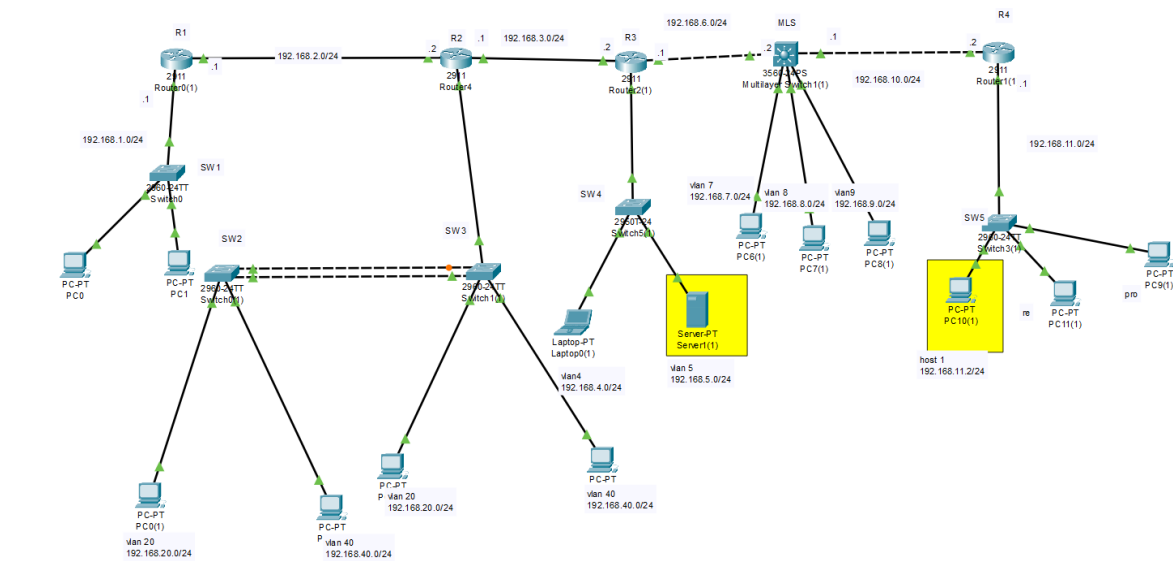


## Project Highlights:

1. Basic Configuration: Set up PCs, Switches, Router, and Server with unique hostnames and /24 subnet masks.
2. Routing Protocol: Implemented a robust routing protocol for seamless communication.
3. Inter-VLAN Routing: Established routing between all VLANs to enhance network efficiency.
4. Port Security: Implemented port security measures on devices within the NETWORK 11.0.0.0/24.
5. Spanning Tree Protocol (PVST): Configured SW2 as the root for VLAN20 and SW3 as the root for VLAN40.
6. DHCP Setup: Enabled DHCP on Router R1 for networks 192.168.4.0/24 and 192.168.1.0/24.
7. Access Control: Implemented an Access Control List (ACL) to restrict host1 on Switch 5 from accessing Server 1.
8. Routing/PATing: Set up PATing on Router R1 for enhanced network security.
9. Configuration Permanence: Ensured configurations were saved for future use.



project link : [https://drive.google.com/drive/folders/1Dq9qk17F-9\\_z9\\_QLFgZswLN3xf2lKari](https://drive.google.com/drive/folders/1Dq9qk17F-9_z9_QLFgZswLN3xf2lKari)