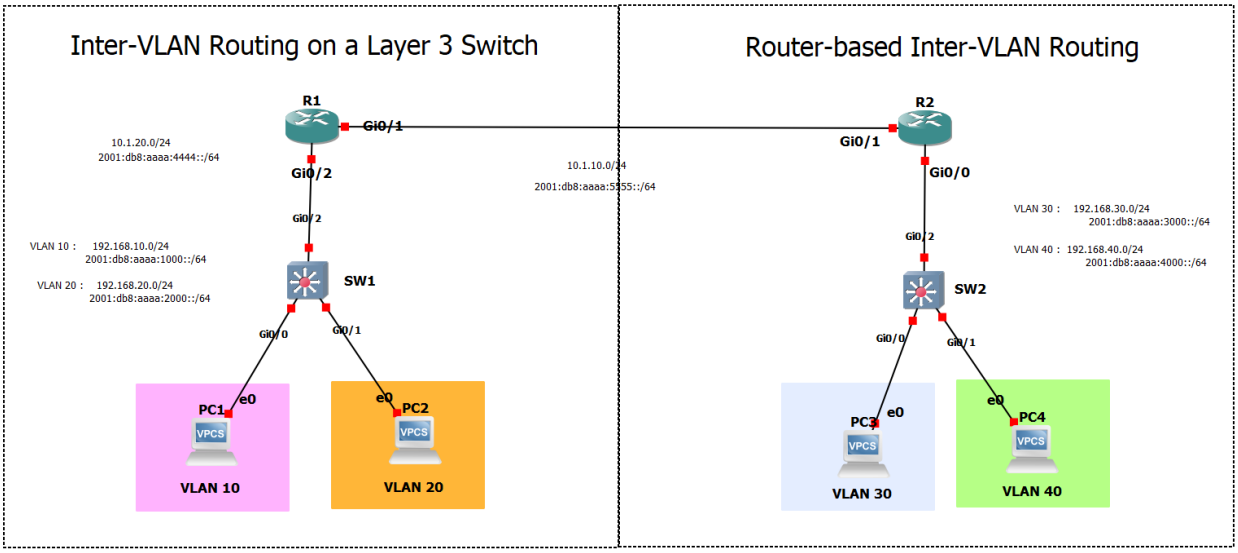
Implement Inter-VLAN Routing

Implement Inter-VLAN Routing



IP Configuration Table

Device	Interface	IPv4 Address	IPv6 Address
R1	G0/1	10.1.10.1/24	2001:db8:aaaa:5555::1/64
R1	G0/2	10.1.20.2/24	2001:db8:aaaa:4444::2/64
R2	G0/1	10.1.10.2/24	2001:db8:aaaa:5555::2/64
R2	G0/0.30	192.168.30.253/24	2001:db8:aaaa:3000::fffe/64
R2	G0/0.40	192.168.40.253/24	2001:db8:aaaa:4000::fffd/64
SW1	G0/2	10.1.20.1/24	2001:db8:aaaa:4444::1/64
SW1	VLAN10	192.168.10.254/24	2001:db8:aaaa:1000::2/64
SW1	VLAN20	192.168.20.254/24	2001:db8:aaaa:2000::2/64
SW2	VLAN30	192.168.30.254/24	2001:db8:aaaa:3000::fffe/64
PC1	NIC	192.168.10.1/24	2001:db8:aaaa:1000::1/64
PC2	NIC	192.168.20.1/24	2001:db8:aaaa:2000::1/64
PC3	NIC	192.168.30.1/24	2001:db8:aaaa:3000::1/64
PC4	NIC	192.168.40.1/24	2001:db8:aaaa:4000::1/64

Implement Inter-VLAN Routing

Objectives

- Part 1: Build the Network and Configure Basic Device Settings

- Part 2: Configure and Verify Inter-VLAN Routing on a Layer 3 Switch

- Part 3: Configure and Verify Router-based Inter-VLAN Routing

- Part 4: Examine CAM and CEF Details

Required Resources

- 2 Routers (Cisco IOSv 15.9(3)M6)

- 2 Switches (Cisco IOSvL2 15.2(4.0.55)E)

- 4 PCs (VPC)

- Console cables to configure the Cisco IOS devices via their console ports

- Ethernet and serial cables as shown in the topology