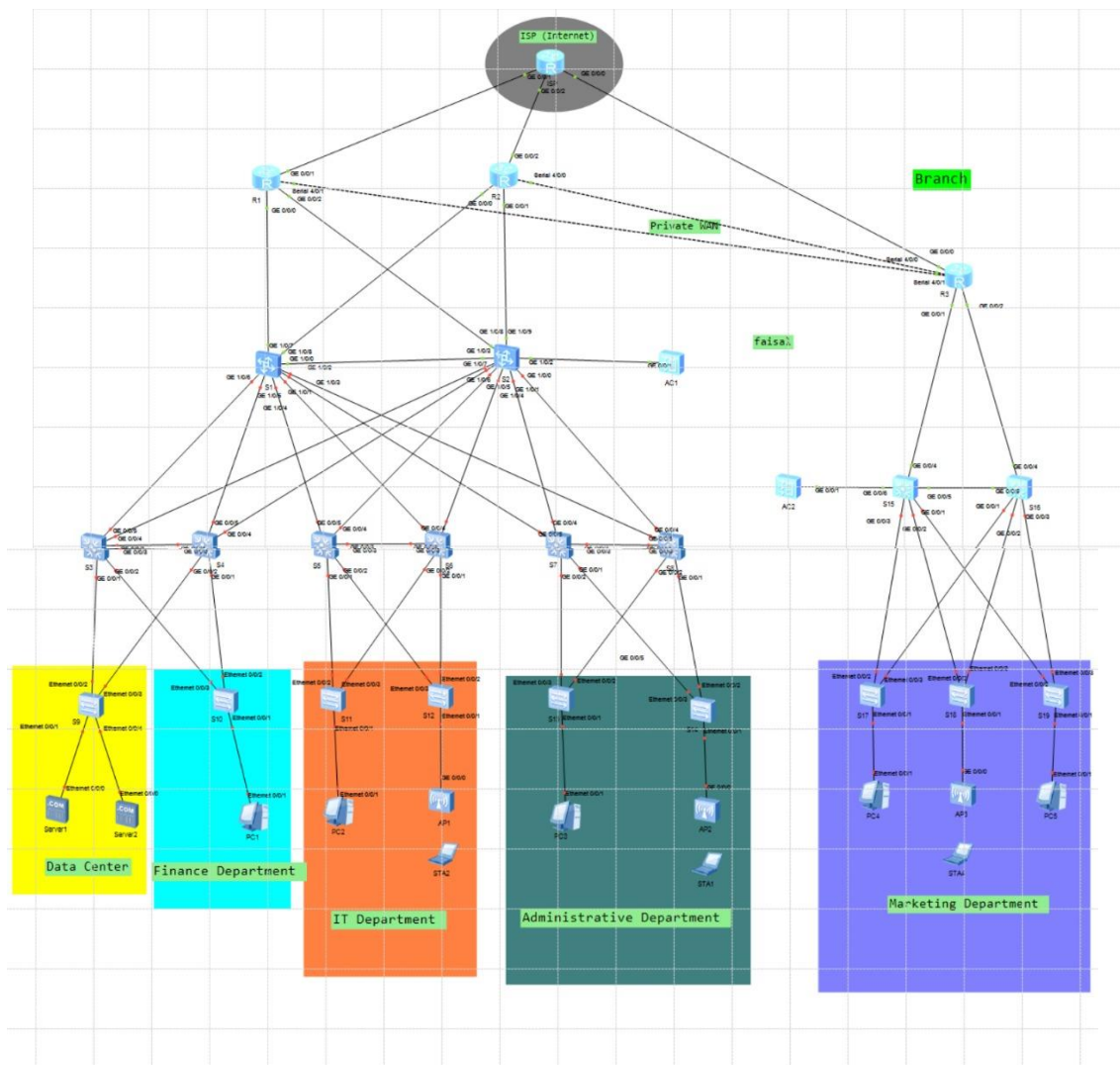


Project planning

Stakeholder: -

This project is for a constructing company

Topology: -



Main Site

Core/Gateway: Redundant Core Switches S1 and S2 using VLANIF

DHCP Server: AC1 (in Data Center).

-

Area / Department	VLAN ID	Subnet Address	Default Gateway IPs (VLANIF)	Devices in this VLAN
Data Center (Yellow)	100	10.50.100.0/24	Virtual IP: 10.50.100.1	Access Switch: S9 Servers: Server1, Server2
Finance department (Blue)	10	10.50.10.0/24	Virtual IP: 10.50.10.1	Access Switch: S10 PC: PC1
It department (Orange)	20	10.50.20.0/24	Virtual IP: 10.50.20.1	Access Switches: S11, S12 PC: PC2 &
Administrative department (Magenta)	30	10.50.30.0/24	Virtual IP: 10.50.30.1	Access Switches: S13, S14 PC: PC3 &

Branch Site

Core/Gateway: Redundant Core Switches S15 and S16 using VLANIF

DHCP Server: AC2.

Area / Department	VLAN ID	Subnet Address	Default Gateway IPs (VLANIF)	Devices in this VLAN
Marketing department (Purple)	120	10.50.132.0/24	Virtual IP: 10.50.132.1	Access Switches: S17, S18, S19 PCs: PC4, PC5

Infrastructure Links

All links use a /30 subnet mask (255.255.255.252).

ROUTER NUM	R1	R2	R3	ISP
ID	1.1.1.1	2.2.2.2	3.3.3.3	4.4.4.4

Device 1	Interface 1	IP Address 1	Device 2	Interface 2	IP Address 2
ISP	G0/0/1	10.50.254.9	R1	G0/0/1	10.50.254.10
ISP	G0/0/2	10.50.254.13	R2	G0/0/2	10.50.254.14
ISP	G0/0/0	10.50.254.17	R3	G0/0/0	10.50.254.18
R1	G0/0/1	10.50.254.21	R2	G0/0/1	10.50.254.22
R1	S4/0/1	10.50.254.2	R3	S4/0/1	10.50.254.1
R2	S4/0/0	10.50.254.6	R3	S4/0/0	10.50.254.5

Vlanif	Device 1	Ip address 1	Device2	Interface 2	Ip address 2
Vlan 130	Sw1	10.50.254.37	R1	0/0/0	10.50.254.38
Vlan 140	Sw2	10.50.254.41	R2	0/0/0	10.50.254.42
Vlan 150	Sw2	10.50.254.45	Ac1	_____	10.50.254.46
Vlan 160	Sw15	10.50.254.49	Ac2	_____	10.50.254.50
Vlan 170	Sw15	10.50.254.53	R3	1/0/0	10.50.254.54
Vlan170	Sw16	10.50.254.53	R3	1/0/1	10.50.254.54