A Synopsis Submitted

Cisco packet tracer project "MODERN BANK NETWORK DESIGN PART 2 HEAD BRANCH", By: JAY JETWANI

Designed A Network Of Bank Which Connects different floors Department To Each Other Through Various Points Undertaken Like No.Of PCs , Static IP Address ,VLANs ,Subnet Masks And Gateways

OSPF MULTI AREA

Counter 1	Counter 2	Counter 3	
fO/0 12.12.12.1/24	12.12.12.2/24	16.16.16.1/24	
f0/1 13.13.13.1/24	16.16.16.2/24 19.19.19.1/24		
f1/0 14.14.14.1/24	18.18.18.1/24	20.20.20.1/24	
f1/1	17.17.17.1/24		
Area 1	Area 0	Area 2	

IP DHCP POOL

f0/1 13.13.13.1/24	f1/0 18.18.18.1/24	f0/119.19.19.1/24
f1/0 14.14.14.1/24	f1/1 17.17.17.1/24	f1/0 20.20.20.1/24

Default Floating Routing

Counter 1	Counter 2	Counter 3	
f0/0 20.20.20.1/24	20.20.20.2/24	192.168.43.1/24	
f0/1 192.168.21.1/24	60.60.60.2/24	60.60.60.1/24	
f1/0 40.40.40.1/24	192.168.42.1/24	40.40.40.2/24	

IP DHCP POOL

f0/0 192.168.21.1/24	f1/0 192.168.42.1/24	192.168.43.1/24	

Point-to-Point Protocol, Challenge Handshake Authentication Protocol (CHAP) ,Routing Information Protocol

Counter 1	Counter 2	Counter 3	
f0/0 192.168.12.1/24	192.168.13.1/24	192.168.14.1/24	
\$1/0 192.168.23.1/24	192.168.23.2/24	192.168.24.2/24	
S1/1 192.168.25.1/24	192.168.24.1/24	192.168.25.2/24	

IP DHCP POOL

f0/0 192.168.12.1/24	192.168.13.1/24	192.168.14.1/24	



Border Gateway Protocol (BGP) ,STATIC ROUTING,PORT SECURITY VIOLATION

Counter 2	Counter 3	
f0/0 192.168.31.2/24	f0/0 192.168.33.2/24	
f0/1 192.168.33.1/24	f0/1 192.168.63.1/24	
f1/0 192.168.62.1/24	f1/0 192.168.32.2/24	
loopback 20.20.20.20/24	loopback 30.30.30.30/24	
	f0/0 192.168.31.2/24 f0/1 192.168.33.1/24 f1/0 192.168.62.1/24	

IP DHCP POOL

f0/1 192.168.61.1/24	f0/1 192.168.62.1/24	f0/1 192.168.63.1/24



Enhanced Interior Gateway Routing Protocol (EIGRP)

Count	er 1	Counter	· 2	Counter	. 3
f0/0	192.168.100.1/24	f0/0	192.168.100.2/24	f0/0	192.168.100.3/24
f0/0.1	0 192.168.66.1/24	f0/0.10	192.168.77.1/24	f0/0.10	192.168.80.1/24
f0/0.2	0 192.168.67.1/24	f0/0.20	192.168.78.1/24	f0/0.20	192.168.81.1/24
f0/0.3	0 192.168.68.1/24	f0/0.30	192.168.79.1/24	f0/0.30	192.168.82.1/24
f0/1	192.168.101.1/24	f0/1	192.168.101.2/24	f0/1	192.168.101.3/24
f1/0	192.168.102.1/24	f1/0	192.168.102.2/24	f1/0	192.168.102.3/24

IP DHCP POOL

f0/0.10 192.168.66.1/24	f0/0.10 192.168.771/24	f0/0.10 192.168.80.1/24
f0/0.20 192.168.67.1/24	f0/0.20 192.168.78.1/24	f0/0.20 192.168.81.1/24
f0/0.30 192.168.68.1/24	f0/0.30 192.168.79.1/24	f0/0.30 192.168.82.1/24

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SWITCH VIRTUAL INTERFACE, OSPF SINGLE AREA, MULTILAYER SWITCH CONFIRATION

Counter 1	Counter 2	Counter 3
G1/0/1 192.168.11.1/24	G1/0/1 192.168.11.2/24	G1/0/1
G1/0/2 Vlan 20 192.168.20.1/24	G1/0/2 Vlan 20 192.168.50.1/24	192.168.12.2/24
G1/0/3 Vlan 30 192.168.30.1/ 24	G1/0/3 Vlan 30 192.168.60.1/ 24	G1/0/2 Vlan 20
		192.168.80.1/24
G1/0/4 Vlan 40 192.168.40.1/24	G1/0/4 Vlan 40 192.168.70.1/24	G1/0/3 Vlan 30
G1/0/5 192.168.12.1/24	G1/0/5 192.168.13.1/24	192.168.90.1/ 24
		G1/0/4 Vlan 40
		192.168.100.1/24
		G1/0/5
		192.168.13.2/24

IP DHCP POOL

	G1/0/2 Vlan 20 192.168.20.1/24	G1/0/2 Vlan 20 192.168.50.1/24	G1/0/2 Vlan 20
	01/0/0 \/\\-= 00 100 160 00 1/04	01/0/0 \/\- = 00 100 160 60 1/04	192.168.80.1/24
	G1/0/3 Vlan 30 192.168.30.1/ 24	G1/0/3 Vlan 30 192.168.60.1/ 24	01/0/0 \/ 00
	G1/0/4 Vlan 40 192.168.40.1/24	G1/0/4 Vlan 40 192.168.70.1/24	G1/0/3 Vlan 30
			192.168.90.1/ 24
			G1/0/4 Vlan 40
			192.168.100.1/24
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In this networking design, there will be three main counters. The following arrangements will be there in all the three counters

- 1) Regional Branch
- 1. There will be three main cabins inside each counter and these will be interconnected.

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2) Head Branch

This network design will have three counters which will be interconnected.

Each counter will have enquiry office which will be interconnected.

Each counter will have registration center which will be interconnected.

Each counter will have bank manager cabin which will be interconnected.

Each counter should have deposit, withdrawal, documentation center which will be interconnected.

Each counter will have three head offices which will be interconnected.

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JLTI AREA

DEFAULT FLOATING BOLITICS

I have been using the following topic:-

OSPF MULTI AREA

DEFAULT FLOATING ROUTING

POINT TO POINT PPP AND Challenge Handshake Authentication Protocol CHA
BORDER GATEWAY PROTOCOL
STATIC ROUTING PROTOCOL
PORT SECURITY VIOLATION
Enhanced Interior Gateway Routing Protocol
SWITCH VIRTUAL GATEWAY
OSPF SINGLE AREA

PORT SECURITY VIOLATION

- 3) Sub Branch Site (IPv6 ADDRES
- 1. Each counter will have three calins which will be interconnected.
- 2. Each counter must have a reception center and all these reception centers should be interconnected.
- 3. Each counter will have deposit, withdrawal, registration cabins which will be interconnected.
- 4. Each counter will have Sub Branch Manager cabin which will be interconnected.
- 5. Each counter will have a registration centre which will be interconnected.

I have been using the following topic:-

IPv6 STATIC ROUTING **IPv6 OSPF ROUTING**

IPv6 DEFAULT ROUTING IPv6 ROUTER INFORMATION ROUTING

IPv6 Enhanced Interior Gateway Routing Protocol PORT SECURITY VIOLATION

- 4) Security and Administration
- 1. IP will be provided to all devices from the admin server.
- 2. Admin servers will be interlinked with their sub admin device and SSH configuration facility will be provided in them.
- 3. System devices will be connected to the system server. System server and system devices resources will not be made available to other systems.
- 4. Main side and sub side should be interconnected.

4. Main side and sub side should be interconnected.

5. With the help of wireless local area network controller, IP will be allocated to all wireless devices and security will be provided.

I have been using the following topic:

RELAY AGENT CONFIGRATION

DHCP ASA CONFIGRATION

BASIC INSPECTION CONFIGRATION

ASA HSRP (Hot Standby Routing Protocol)

WIRELESS LAN CONTROLLER

PORT SECURITY VIOLATION

WIRELESS LAN CONTROLLER

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