

A Synopsis Submitted

Cisco packet tracer project "MODERN University NETWORK DESIGN" , By : JAY JETWANI

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

This University will have 3 counter. There will be Four departments on the first counter :- Management, which will be Registration Office ,Admission office,Fees Deposit office ,Documentation verification office .

1. There will also be Four departments on the second counter :-Computer Science . Registration Office ,Admission office,Fees Deposit office ,Documentation verification office .
2. There will also be Four departments on the Third counter :-Techincal . Registration Office ,Admission office,Fees Deposit office ,Documentation verification office .
3. There will be three Other Sub branch on the each counter , which will be Branch 1 , Branch 2 and Branch 3.
4. Printer ,PC, Mobile and laptop should be connected to Wireless on every counter. Each department should have different VLANs.

I have been using the following topic:-

1.PagP EtherChannel Configration and Multilayer switch Configuration

2.DHCP Snooping ,Dynamic Arp Inspection Source Guard,Ospf Single Area

3.Wireless Local Area Network

4.Spanning-Tree Protocol,VTP,Multilayer protocol

5. Inter-Vlan Routing, Van Hopping attack Prevention

6.Configuring Port Security

7.VOIP Configuration

Server

1.HTTP Server

2.DNS Server

3.FTP Server

Registration Office
Multilayer switch
Counter 1:-Vlan 10 192.168.100.1/24
Counter 2:-Vlan 20 192.168.101.1/24
Counter 3:- Vlan192.168.102.1/24

Admission Office		
Main Server	192.168.100.2/24	
Counter 1	Counter 2	Counter 3
192.168.100.1/24	192.168.106.1/24	192.168.108.1/24
192.168.101.1/24	192.168.104.1/24	192.168.104.2/24
192.168.103.1/24	192.168.103.1/24	

Fees Deposit Office		
Counter 1	Counter 2	Counter 3
192.168.11.1/24	192.168.11.2/24	192.168.13.2/24
192.168.12.1/24	192.168.13.1/24	192.168.12.2/24
192.168.14.1/24	192.168.15.1/24	192.168.16.1/24

Documentation verification office	
Main Router	
f0/0	
f0/0.1	192.168.109.1/24
f0/0.2	192.168.110.1/24
f0/0.3	192.168.111.1/24