

**SITE 1**

hostname Bldg-1  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line aux 0  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized access only!#

interface serial 0/0/0  
bandwidth 128  
clock rate 128000  
ip address 192.168.100.22 255.255.255.252  
description 2-Central  
ip ospf cost 7500  
ip ospf message-digest-key 1 md5 xyz\_OSPF  
ip ospf authentication message-digest  
no shutdown  
exit

interface gi 0/0  
ip address 192.168.8.1 255.255.255.0  
description Manage-1A  
no shutdown  
interface gi 0/1  
ip address 192.168.9.1 255.255.255.0  
description Clerk-1C  
no shutdown  
exit  
router ospf 1  
router-id 1.1.1.1

passive-interface GigabitEthernet0/0  
passive-interface GigabitEthernet0/1  
area 0 authentication message-digest  
network 192.168.100.20 0.0.0.3 area 0  
network 192.168.8.0 0.0.0.255 area 1  
network 192.168.9.0 0.0.0.255 area 1

no auto-summary  
  
  
exit

**HQ**

hostname Main  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line aux 0  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized acces only #

ip route 0.0.0.0 0.0.0.0 s0/1/0  
interface serial 0/0/0  
bandwidth 128  
ip address 192.168.100.21 255.255.255.252  
description 2-East  
ip ospf cost 7500  
ip ospf message-digest-key 1 md5 xyz\_OSPF  
ip ospf authentication message-digest  
no shutdown  
exit

interface serial 0/0/1  
bandwidth 128  
ip address 192.168.100.37 255.255.255.252  
description 2-West  
clock rate 128000  
ip ospf message-digest-key 1 md5 xyz\_OSPF  
ip ospf authentication message-digest  
no shutdown  
exit

interface serial 0/1/0  
bandwidth 128  
ip address 203.0.113.18 255.255.255.248  
description 2-INTERNET  
no shutdown  
exit  
router ospf 1  
router-id 2.2.2.2  
area 0 authentication message-digest  
default-information originate

passive-interface Serial0/1/0  
network 192.168.100.20 0.0.0.3 area 0  
network 192.168.100.36 0.0.0.3 area 0

no auto-summary  
  
  
exit  
ip access-list standard telnetBlock

permit host 198.51.100.5

access-list 101 permit icmp 198.51.100.5 0.0.0.0 any echo

access-list 101 deny icmp any any echo

access-list 101 permit ip any any

line vty 0 15  
access-class telnetBlock in

interface serial 0/1/0  
ip access-group 101 in  
exit

**SITE 2**

hostname Bldg-2  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized acces only#

interface serial 0/0/1  
bandwidth 128  
ip address 192.168.100.38 255.255.255.252  
description 2-Central  
ip ospf message-digest-key 1 md5 xyz\_OSPF  
ip ospf authentication message-digest  
no shutdown

interface gi 0/1  
no shutdown

interface gi 0/1.2  
encapsulation dot1q 2  
ip address 10.10.2.1 255.255.255.0  
interface gi 0/1.4  
encapsulation dot1q 4  
ip address 10.10.4.1 255.255.255.0  
interface gi 0/1.8  
encapsulation dot1q 8  
ip address 10.10.8.1 255.255.255.0  
interface gi 0/1.15  
encapsulation dot1q 15  
ip address 10.10.15.1 255.255.255.0  
interface gi 0/1.25  
encapsulation dot1q 25  
ip address 10.10.25.1 255.255.255.0  
exit  
router ospf 1  
router-id 3.3.3.3  
passive-interface GigabitEthernet0/1  
network 192.168.100.36 0.0.0.3 area 0  
network 10.10.2.0 0.0.0.255 area 2  
network 10.10.4.0 0.0.0.255 area 2  
network 10.10.8.0 0.0.0.255 area 2  
network 10.10.15.0 0.0.0.255 area 2  
no auto-summary  
passive-interface g0/1.2  
passive-interface g0/1.4  
passive-interface g0/1.8  
passive-interface g0/1.15  
exit  
interface serial 0/0/1  
ip summary-address eigrp 100 10.10.0.0 255.255.240.0  
ip dhcp excluded-address 10.10.2.1 10.10.2.5  
ip dhcp excluded-address 10.10.4.1 10.10.4.5  
ip dhcp excluded-address 10.10.8.1 10.10.8.5  
ip dhcp pool vlan2pool  
network 10.10.2.0 255.255.255.0  
default-router 10.10.2.1  
dns-server 192.168.200.225  
ip dhcp pool vlan4pool  
network 10.10.4.0 255.255.255.0  
default-router 10.10.4.1  
dns-server 192.168.200.225  
ip dhcp pool vlan8pool  
network 10.10.8.0 255.255.255.0  
default-router 10.10.8.1  
dns-server 192.168.200.225  
exit  
access-list 1 permit 10.10.15.0 0.0.0.255  
interface gi0/1.25  
ip access-group 1 out

**SW-A**

hostname FL-A  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized access only!#

ip default-gateway 10.10.25.1  
vlan 2  
name dept1  
vlan 4  
name dept2  
vlan 8  
name dept3  
vlan 15  
name NetAdmin  
vlan 25  
name manage  
vlan 99  
name safe  
interface vlan 25  
ip address 10.10.25.254 255.255.255.0  
no shutdown

interface fa0/5  
switchport mode acces  
switchport acces vlan 2

interface fa0/10  
switchport mode acces  
switchport acces vlan 4

interface fa0/15  
switchport mode acces  
switchport acces vlan 8

interface fa0/24  
switchport mode acces  
switchport acces vlan 15

interface range fa0/6-9,fa0/11-14,fa0/16-23  
switchport mode acces  
switchport acces vlan 99  
shutdown

interface range gi0/1-2  
switchport mode acces  
switchport acces vlan 99  
shutdown  
interface range fa0/1-2  
channel-group 1 mode active  
interface port-channel 1  
switchport mode trunk  
interface range fa0/3-4  
channel-group 2 mode active  
interface port-channel 2  
switchport mode trunk  
exit  
spanning-tree mode rapid-pvst  
spanning-tree vlan 2 root primary  
spanning-tree vlan 4 root primary  
spanning-tree vlan 8 root secondary  
spanning-tree vlan 15 root secondary  
interface fa0/5  
switchport port-security  
switchport port-security violation restrict  
switchport port-security maximum 2  
switchport port-security mac-address sticky

interface fa0/10  
switchport port-security  
switchport port-security violation restrict  
switchport port-security maximum 2  
switchport port-security mac-address sticky

interface fa0/15  
switchport port-security  
switchport port-security violation restrict  
switchport port-security maximum 2  
switchport port-security mac-address sticky

interface fa0/24  
switchport port-security  
switchport port-security violation restrict  
switchport port-security maximum 2  
switchport port-security mac-address sticky

**SW-B**

hostname FL-B  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized acces only!#  
ip ssh version 2  
ip domain-name ccnaPTSA.com  
crypto key generate rsa

1024  
username netadmin secret SSHsecret9  
line vty 0 4  
login local  
transport input ssh  
line vty 5 15  
login local  
transport input ssh

ip default-gateway 10.10.25.1  
vlan 2  
name dept1  
vlan 4  
name dept2  
vlan 8  
name dept3  
vlan 15  
name NetAdmin  
vlan 25  
name manage  
vlan 99  
name safe  
interface vlan 25  
ip address 10.10.25.253 255.255.255.0  
no shutdown  
interface gi 0/1  
switchport mode trunk  
interface range fa0/3-4  
channel-group 2 mode active  
interface port-channel 2  
switchport mode trunk  
interface range fa0/5-6  
channel-group 3 mode active  
interface port-channel 3  
switchport mode trunk  
spanning-tree mode rapid-pvst

**SW-C**

hostname FL-C  
no ip domain-lookup  
enable secret cisco  
line console 0  
logging synchronous  
password cisco  
login  
line vty 0 15  
password cisco  
login  
service password-encryption  
banner motd #Authorized acces only !#

ip default-gateway 10.10.25.1  
vlan 2  
name dept1  
vlan 4  
name dept2  
vlan 8  
name dept3  
vlan 15  
name NetAdmin  
vlan 25  
name manage  
vlan 99  
name safe  
interface vlan 25  
ip address 10.10.25.252 255.255.255.0  
no shutdown

interface fa0/7  
switchport mode acces  
switchport acces vlan 2

interface fa0/10  
switchport mode acces  
switchport acces vlan 4

interface fa0/15  
switchport mode acces  
switchport acces vlan 8

interface fa0/24  
switchport mode acces  
switchport acces vlan 15  
interface range fa0/1-2  
channel-group 1 mode active  
no shutdown  
interface port-channel 1  
switchport mode trunk

interface range fa0/5-6  
channel-group 3 mode passive  
no shutdown  
interface port-channel 3  
switchport mode trunk  
spanning-tree mode rapid-pvst  
spanning-tree vlan 2 root secondary  
spanning-tree vlan 4 root secondary  
spanning-tree vlan 8 root primary  
spanning-tree vlan 15 root primary  
interface range fa0/7, fa0/10, fa0/15, fa0/24  
spanning-tree portfast  
spanning-tree bpduguard enable  
no shutdown