**switch 1:**

hostname management-switch

banner motd #this is the floor 1 management switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

---------------------vlan

vlan 10

name management

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 10

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 2:**

hostname research-switch

banner motd #this is the floor 1 research switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

----------------------------------vlan

vlan 20

name research

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 20

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 3:**

hostname human-resource-switch

banner motd #this is the floor 1 human resources switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

-------------------------------------------------------vlan

vlan 30

name humanresource

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 30

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 4:**

hostname marketing-switch

banner motd #this is the floor 1 marekting switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

-------------------------------------------------------vlan

vlan 40

name marketing

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 40

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 5:**

hostname accounting-switch

banner motd #this is the floor 1 accounting switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption-------------

vlan 50

name acounting

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 50

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 6:**

hostname finance-switch

banner motd #this is the floor 1 finance switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption-----------------------------

vlan 60

name finance

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 60

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 7:**

hostname logistic-store-switch

banner motd #this is the floor 1 logistic-store switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption---------------------

vlan 70

name logistic

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 70

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 8:**

hostname customer-care-switch

banner motd #this is the floor 1 customer-careswitch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption-----------------

vlan 80

name customer-care

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 80

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 9:**

hostname guest-area-switch

banner motd #this is the floor 1 guest-area switch #

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption--------------------------------------

vlan 90

name guest-area

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 90

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 10:**

hostname administration-switch

banner motd #this is the floor 1 administration switch #

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption----------------------

vlan 100

name administration

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 100

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 11:**

hostname ict-switch

banner motd #this is the floor 1 itc switch #

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption------------------------------

vlan 110

name ict

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 110

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch 12:**

hostname server-room-switch

banner motd #this is the floor 1 server-room switch #

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

------------------------vlan

vlan 120

name server-room

int range fa0/1-2

switchport mode trunk

int range fa0/3-24

switchport mode access

switchport access vlan 120

switchport port-security maximum 2

switchport port-security mac-address sticky

switchport port-security violation shutdown

**switch layer 3 floor 1:**

hostname layer3-floor1-switch

banner motd #this is the floor 1 layer3-floor1 switch #

line console 0

password cisco

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa

---------------------- switchport

int range fa0/1-3 ,fa0/6-8

switchport mode trunk

int range fa0/4-5

no switchport

--------------------------ip addressing

int fa0/4

ip add 10.10.10.1 255.255.255.252

no sh

int fa0/5

ip add 10.10.10.10 255.255.255.252

no sh

--------------------------------------ospf

ip routing

router rip

ver 2

net 10.10.10.0

net 10.10.10.8

net 192.168.10.0

net 192.168.10.64

net 192.168.10.128

net 192.168.10.192

net 192.168.11.1

net 192.168.11.64

no auto-summary

**switch layer 3 floor 2:**

hostname layer3-floor2-switch

banner motd #this is the floor 1 layer3-floor2 switch #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa ----------------------

int range fa0/1-3 ,fa0/6-8

switchport mode trunk

int range fa0/4-5

no switchport------------------------------

int fa0/4

ip add 10.10.10.13 255.255.255.252

no sh

int fa0/5

ip add 10.10.10.5 255.255.255.252

no sh

---------------------------------------ospf

ip routing

router rip

ver 2

net 10.10.10.4

net 10.10.10.12

net 192.168.10.0

net 192.168.10.64

net 192.168.10.128

net 192.168.10.192

net 192.168.11.1

net 192.168.11.64

no auto-summary

**switch layer 3 floor 3:**

hostname layer3-floor3-switch

banner motd #this is the floor 1 layer3-floor3 switch #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa ---------------------

int range fa0/1-3 ,fa0/6-8

switchport mode trunk

int range fa0/4-5

no switchport------------------

int fa0/4

ip add 10.10.10.41 255.255.255.252

no sh

int fa0/5

ip add 10.10.10.45 255.255.255.252

no sh

------------------------------------ospf

ip routing

router rip

ver 2

net 10.10.10.40

net 10.10.10.44

net 192.168.11.128

net 192.168.11.192

net 192.168.12.0

net 192.168.12.64

net 192.168.12.128

net 192.168.12.192

no auto-summary

**switch layer 3 floor 4:**

hostname layer3-floor4-switch

banner motd #this is the floor 1 layer3-floor4 switch #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa ----------------------------

int range fa0/1-3 ,fa0/6-8

switchport mode trunk

int range fa0/4-5

no switchport-------------------

int fa0/4

ip add 10.10.10.53 255.255.255.252

no sh

int fa0/5

ip add 10.10.10.49 255.255.255.252

no sh

---------------------------ospf

------------------------------------ospf

ip routing

router rip

ver 2

no auto-summary

net 10.10.10.36

net 10.10.10.52

net 192.168.11.128

net 192.168.11.192

net 192.168.12.0

net 192.168.12.64

net 192.168.12.128

net 192.168.12.192 0.0.0.63 area 0

**router floor 1:**

hostname router-floor1

banner motd #this is the floor 1 router #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa

int gig0/0

ip add 10.10.10.2 255.255.255.252

no sh

int gig0/1

ip add 10.10.10.6 255.255.255.252

no sh

int se0/3/0

ip add 10.10.10.17 255.255.255.252

no sh

int se0/3/1

ip add 10.10.10.33 255.255.255.252

no sh

int gig0/2

ip add 10.10.10.29 255.255.255.252

no sh

------------------------------ ospf

router rip

ver 2

no auto-summary

net 10.10.10.0

net 10.10.10.4

net 10.10.10.16

net 10.10.10.32

net 10.10.10.28

**router floor 2:**

hostname router-floor2

banner motd #this is the floor 2 router #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa

--------------------------------------------ip add

int gig0/0

ip add 10.10.10.14 255.255.255.252

no sh

int gig0/1

ip add 10.10.10.9 255.255.255.252

no sh

int se0/3/0

ip add 10.10.10.18 255.255.255.252

no sh

int se0/3/1

ip add 10.10.10.25 255.255.255.252

no sh

int gig0/2

ip add 10.10.10.21 255.255.255.252

no sh

-----------------------------------------ospf

router rip

ver 2

no auto-summary

net 10.10.10.12

net 10.10.10.8

net 10.10.10.16

net 10.10.10.20

net 10.10.10.24

**router floor3:**

hostname router-floor3

banner motd #this is the floor 3 router #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa

--------------------------------ip add

int gig0/0

ip add 10.10.10.42 255.255.255.252

no sh

int gig0/1

ip add 10.10.10.50 255.255.255.252

no sh

int se0/2/0

ip add 10.10.10.37 255.255.255.252

no sh

int se0/2/1

ip add 10.10.10.34 255.255.255.252

no sh

int gig0/2

ip add 10.10.10.22 255.255.255.252

no sh

---------------------------------------------ospf

router rip

ver 2

no auto-summary

net 10.10.10.32

net 10.10.10.10

net 10.10.10.36

net 10.10.10.40

net 10.10.10.48

**router floor 4:**

hostname router-floor4

banner motd #this is the floor 4 router #

line console 0

password cisco

login

exit

no ip domain-lookup

enable secret cisco

service password-encryption

**------------------------ssh configuration**

ip domain name cisco.net

username cisco password cisco

line vty 0 15

login local

transport input ssh

crypto key generate rsa

--------------------------------ip add

int gig0/0

ip add 10.10.10.54 255.255.255.252

no sh

int gig0/1

ip add 10.10.10.46 255.255.255.252

no sh

int se0/3/0

ip add 10.10.10.26 255.255.255.252

no sh

int se0/3/1

ip add 10.10.10.38 255.255.255.252

no sh

int gig0/2

ip add 10.10.10.30 255.255.255.252

no sh

**------------------------------------------ospf**

router rip

ver 2

no auto-summary

net 10.10.10.24

net 10.10.10.52

net 10.10.10.44

net 10.10.10.36

net 10.10.10.20

**for interval of first and second 3 layer switches**

int vlan 10

no sh

ip add 192.168.10.1 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 20

no sh

ip add 192.168.10.65 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 30

no sh

ip add 192.168.10.129 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 40

no sh

ip add 192.168.10.193 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 50

no sh

ip add 192.168.11.1 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 60

no sh

ip add 192.168.11.65 255.255.255.192

ip helper-address 192.168.12.198

exit

**for interval of third and forth 3 layer switches**

int vlan 70

no sh

ip add 192.168.11.129 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 80

no sh

ip add 192.168.11.193 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 90

no sh

ip add 192.168.12.1 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 100

no sh

ip add 192.168.12.65 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 110

no sh

ip add 192.168.12.129 255.255.255.192

ip helper-address 192.168.12.198

exit

int vlan 120

no sh

ip add 192.168.12.193 255.255.255.192

ip helper-address 192.168.12.198

exit