**Configuration Routers:**

Router Floor1:

Router>en

Router#conf t

Router(config)#hostname Floor1

Floor1(config)#interface Serial0/0/0

Floor1(config-if)#no shutdown

Floor1(config-if)#clock rate 64000

Floor1(config)#interface Serial0/0/1

Floor1(config-if)#no shutdown

Floor1(config-if)#clock rate 64000

Floor1(config)#interface GigabitEthernet0/0

Floor1(config-if)#no shutdown

Floor1(config)#interface GigabitEthernet0/1

Floor1(config-if)#no shutdown

Floor1(config)#interface GigabitEthernet0/2

Floor1(config-if)#no shutdown

Floor1(config)#interface GigabitEthernet0/1

Floor1(config-if)#ip address 10.10.10.2 255.255.255.252

Floor1(config-if)#exit

Floor1(config)#interface GigabitEthernet0/2

Floor1(config-if)#ip address 10.10.10.6 255.255.255.252

Floor1(config-if)#exit

Floor1(config)#interface Serial0/0/0

Floor1(config-if)#ip address 10.10.10.17 255.255.255.252

Floor1(config)#interface GigabitEthernet0/0

Floor1(config-if)#ip address 10.10.10.29 255.255.255.252

Floor1(config-if)#exit

Floor1(config)#interface Serial0/0/1

Floor1(config-if)#ip address 10.10.10.33 255.255.255.252

Floor1(config)#router ospf 10

Floor1(config-router)#network 10.10.10.0 0.0.0.3 area 0

Floor1(config-router)#network 10.10.10.4 0.0.0.3 area 0

Floor1(config-router)#network 10.10.10.16 0.0.0.3 area 0

Floor1(config-router)#network 10.10.10.28 0.0.0.3 area 0

Floor1(config-router)#network 10.10.10.32 0.0.0.3 area 0

Router Floor2:

Router>en

Router#conf t

Router(config)#hostname Floor2

Floor2(config)#interface Serial0/0/0

Floor2(config-if)#no shutdown

Floor2(config)#interface Serial0/0/1

Floor2(config-if)#no shutdown

Floor2(config)#interface GigabitEthernet0/0

Floor2(config-if)#no shutdown

Floor2(config)#interface GigabitEthernet0/1

Floor2(config-if)#no shutdown

Floor2(config)#interface GigabitEthernet0/2

Floor2(config-if)#no shutdown

Floor2(config)#interface GigabitEthernet0/2

Floor2(config-if)#ip address 10.10.10.14 255.255.255.252

Floor2(config)#interface GigabitEthernet0/1

Floor2(config-if)#ip address 10.10.10.10 255.255.255.252

Floor2(config)#interface Serial0/0/0

Floor2(config-if)#ip address 10.10.10.18 255.255.255.252

Floor2(config)#interface GigabitEthernet0/0

Floor2(config-if)#ip address 10.10.10.21 255.255.255.252

Floor2(config)#interface Serial0/0/1

Floor2(config-if)#ip address 10.10.10.25 255.255.255.252

Floor2(config)#router ospf 10

Floor2(config-router)#network 10.10.10.12 0.0.0.3 area 0

Floor2(config-router)#network 10.10.10.8 0.0.0.3 area 0

Floor2(config-router)#network 10.10.10.16 0.0.0.3 area 0

Floor2(config-router)# network 10.10.10.20 0.0.0.3 area 0

Floor2(config-router)#network 10.10.10.24 0.0.0.3 area 0

Router Floor3:

Router>en

Router#conf t

Router(config)#hostname Floor3

Floor3(config)#

Floor3(config)#interface Serial0/0/0

Floor3(config-if)#no shutdown

Floor3(config)#interface Serial0/0/1

Floor3(config-if)#no shutdown

Floor3(config)#interface GigabitEthernet0/0

Floor3(config-if)#no shutdown

Floor3(config)#interface GigabitEthernet0/1

Floor3(config-if)#no shutdown

Floor3(config)#interface GigabitEthernet0/2

Floor3(config-if)#no shutdown

Floor3(config)#interface GigabitEthernet0/0

Floor3(config-if)#ip address 10.10.10.22 255.255.255.252

Floor3(config)#interface Serial0/0/0

Floor3(config-if)#ip address 10.10.10.37 255.255.255.252

Floor3(config)#interface GigabitEthernet0/2

Floor3(config-if)#ip address 10.10.10.50 255.255.255.252

Floor3(config)#interface GigabitEthernet0/1

Floor3(config-if)#ip address 10.10.10.42 255.255.255.252

Floor3(config)#interface Serial0/0/1

Floor3(config-if)#ip address 10.10.10.34 255.255.255.252

Floor3(config)#router ospf 10

Floor3(config-router)#network 10.10.10.32 0.0.0.3 area 0

Floor3(config-router)#network 10.10.10.36 0.0.0.3 area 0

Floor3(config-router)#network 10.10.10.20 0.0.0.3 area 0

Floor3(config-router)#network 10.10.10.48 0.0.0.3 area 0

Floor3(config-router)#network 10.10.10.40 0.0.0.3 area 0

Router Floor4:

Router>en

Router#conf t

Router(config)#hostname Floor4

Floor4(config)#

Floor4(config)#interface Serial0/0/0

Floor4(config-if)#no shutdown

Floor4(config-if)#clock rate 64000

Floor4(config)#interface Serial0/0/1

Floor4(config-if)#no shutdown

Floor4(config-if)#clock rate 64000

Floor4(config)#interface GigabitEthernet0/0

Floor4(config-if)#no shutdown

Floor4(config)#interface GigabitEthernet0/1

Floor4(config-if)#no shutdown

Floor4(config)#interface GigabitEthernet0/2

Floor4(config-if)#no shutdown

Floor4(config)#interface GigabitEthernet0/2

Floor4(config-if)#ip address 10.10.10.54 255.255.255.252

Floor4(config)#interface GigabitEthernet0/1

Floor4(config-if)#ip address 10.10.10.46 255.255.255.252

Floor4(config)#interface Serial0/0/0

Floor4(config-if)#ip address 10.10.10.38 255.255.255.252

Floor4(config)#interface GigabitEthernet0/0

Floor4(config-if)#ip address 10.10.10.30 255.255.255.252

Floor4(config)#interface Serial0/0/1

Floor4(config-if)#ip address 10.10.10.26 255.255.255.252

Floor4(config)#router ospf 10

Floor4(config-router)#network 10.10.10.24 0.0.0.3 area 0

Floor4(config-router)#network 10.10.10.44 0.0.0.3 area 0

Floor4(config-router)#network 10.10.10.52 0.0.0.3 area 0

Floor4(config-router)#network 10.10.10.24 0.0.0.3 area 0

Floor4(config-router)#network 10.10.10.28 0.0.0.3 area 0

**Configuration Switches:**

Switch layer3 Floor1:

Switch>enable

Switch#conf t

Switch(config)#hostname Floor1-LS3

Floor1-LS3(config)#banner motd #This is the floor1's Switch Layer3#

Floor1-LS3(config)#line console 0

Floor1-LS3(config-line)#password BANK

Floor1-LS3(config-line)#login

Floor1-LS3(config-line)#exit

Floor1-LS3(config)#

Floor1-LS3(config)#ip domain-name bank.net

Floor1-LS3(config)#username admin password admin

Floor1-LS3(config)#crypto key generate rsa

The name for the keys will be: Floor3-LS3.bank.net

Choose the size of the key modulus in the range of 360 to 2048 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

Floor1-LS3(config)#line vty 0 15

\*Mar 1 2:15:3.672: %SSH-5-ENABLED: SSH 1.99 has been enabled

Floor1-LS3(config-line)#login local

Floor1-LS3(config-line)#transport input ssh

Floor1-LS3(config-line)#exit

Floor1-LS3(config)#no ip domain-lookup

Floor1-LS3(config)#enable password BANK

Floor1-LS3(config)#service password-encryption

Floor1-LS3(config)#int range g1/0/1-2

Floor1-LS3(config-if-range)#no switchport

Floor1-LS3(config-if-range)#ex

Floor1-LS3(config)#int g1/0/1

Floor1-LS3(config-if)#ip address 10.10.10.1 255.255.255.252

Floor1-LS3(config-if)#int g1/0/2

Floor1-LS3(config-if)#ip address 10.10.10.9 255.255.255.252

Floor1-LS3(config-if)#exit

Floor1-LS3(config)#ip routing

Floor1-LS3(config)#router ospf 10

Floor1-LS3(config-router)#network 10.10.10.0 0.0.0.3 area 0

Floor1-LS3(config-router)#

Floor1-LS3(config-router)#network 10.10.10.8 0.0.0.3 area 0

Floor1-LS3(config-router)#network 192.168.10.0 0.0.0.63 area 0

Floor1-LS3(config-router)#network 192.168.10.64 0.0.0.63 area 0

Floor1-LS3(config-router)#network 192.168.10.128 0.0.0.63 area 0

Floor1-LS3(config-router)#network 192.168.10.192 0.0.0.63 area 0

Floor1-LS3(config-router)#network 192.168.11.0 0.0.0.63 area 0

Floor1-LS3(config-router)#network 192.168.11.64 0.0.0.63 area 0

Floor1-LS3(config)#vlan 10

Floor1-LS3(config-vlan)#vlan 20

Floor1-LS3(config-vlan)#vlan 30

Floor1-LS3(config-vlan)#vlan 40

Floor1-LS3(config-vlan)#vlan 50

Floor1-LS3(config-vlan)#vlan 60

Floor1-LS3(config)#int vlan 10

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.10.1 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Floor1-LS3(config-if)#

Floor1-LS3(config-if)#int vlan 20

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.10.65 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Floor1-LS3(config-if)#

Floor1-LS3(config-if)#int vlan 30

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.10.129 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Floor1-LS3(config)#int vlan 40

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.10.193 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Floor1-LS3(config-if)#

Floor1-LS3(config-if)#int vlan 50

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.11.1 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Floor1-LS3(config-if)#

Floor1-LS3(config-if)#int vlan 60

Floor1-LS3(config-if)#no shutdown

Floor1-LS3(config-if)#ip add 192.168.11.65 255.255.255.192

Floor1-LS3(config-if)#ip helper-address 192.168.12.196

Switch layer3 Floor2:

Switch>enable

Switch#conf t

Switch(config)#hostname Floor2-LS3

Floor2-LS3(config)#banner motd #This is the floor2's Switch Layer3#

Floor2-LS3(config)#line console 0

Floor2-LS3(config-line)#password BANK

Floor2-LS3(config-line)#login

Floor2-LS3(config-line)#exit

Floor2-LS3(config)#

Floor2-LS3(config)#ip domain-name bank.net

Floor2-LS3(config)#username admin password admin

Floor2-LS3(config)#crypto key generate rsa

The name for the keys will be: Floor2-LS3.bank.net

Choose the size of the key modulus in the range of 360 to 2048 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

Floor2-LS3(config)#line vty 0 15

\*Mar 1 2:15:3.672: %SSH-5-ENABLED: SSH 1.99 has been enabled

Floor2-LS3(config-line)#login local

Floor2-LS3(config-line)#transport input ssh

Floor2-LS3(config-line)#exit

Floor2-LS3(config)#no ip domain-lookup

Floor2-LS3(config)#enable password BANK

Floor2-LS3(config)#service password-encryption

Floor2-LS3(config)#int range g1/0/1-2

Floor2-LS3(config-if-range)#no switchport

Floor2-LS3(config-if-range)#ex

Floor2-LS3(config)#int g1/0/1

Floor2-LS3(config-if)#ip add 10.10.10.5 255.255.255.252

Floor2-LS3(config-if)#int g1/0/2

Floor2-LS3(config-if)#ip add 10.10.10.13 255.255.255.252

Floor2-LS3(config)#ip routing

Floor2-LS3(config)#router ospf 10

Floor2-LS3(config-router)#network 10.10.10.4 0.0.0.3 area 0

Floor2-LS3(config-router)#network 10.10.10.12 0.0.0.3 area 0

Floor2-LS3(config-router)#

Floor2-LS3(config-router)#network 192.168.10.0 0.0.0.63 area 0

Floor2-LS3(config-router)#network 192.168.10.64 0.0.0.63 area 0

Floor2-LS3(config-router)#network 192.168.10.128 0.0.0.63 area 0

Floor2-LS3(config-router)#network 192.168.10.192 0.0.0.63 area 0

Floor2-LS3(config-router)#network 192.168.11.0 0.0.0.63 area 0

Floor2-LS3(config-router)#network 192.168.11.64 0.0.0.63 area 0

Floor2-LS3(config)#vlan 10

Floor2-LS3(config-vlan)#vlan 20

Floor2-LS3(config-vlan)#vlan 30

Floor2-LS3(config-vlan)#vlan 40

Floor2-LS3(config-vlan)#vlan 50

Floor2-LS3(config-vlan)#vlan 60

Floor2-LS3(config-vlan)#

Floor2-LS3(config-vlan)#int vlan 10

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.10.1 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Floor2-LS3(config-if)#

Floor2-LS3(config-if)#int vlan 20

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.10.65 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Floor2-LS3(config-if)#

Floor2-LS3(config-if)#int vlan 30

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.10.129 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Floor2-LS3(config-if)#

Floor2-LS3(config-if)#int vlan 40

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.10.193 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Floor2-LS3(config-if)#

Floor2-LS3(config-if)#int vlan 50

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.11.1 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Floor2-LS3(config-if)#

Floor2-LS3(config-if)#int vlan 60

Floor2-LS3(config-if)#no shutdown

Floor2-LS3(config-if)#ip add 192.168.11.65 255.255.255.192

Floor2-LS3(config-if)#ip helper-address 192.168.12.196

Switch layer3 Floor3:

Switch>enable

Switch#conf t

Switch(config)#hostname Floor3-LS3

Floor3-LS3(config)#banner motd #This is the floor3's Switch Layer3#

Floor3-LS3(config)#line console 0

Floor3-LS3(config-line)#password BANK

Floor3-LS3(config-line)#login

Floor3-LS3(config-line)#exit

Floor3-LS3(config)#

Floor3-LS3(config)#ip domain-name bank.net

Floor3-LS3(config)#username admin password admin

Floor3-LS3(config)#crypto key generate rsa

The name for the keys will be: Floor3-LS3.bank.net

Choose the size of the key modulus in the range of 360 to 2048 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

Floor3-LS3(config)#line vty 0 15

\*Mar 1 2:15:3.672: %SSH-5-ENABLED: SSH 1.99 has been enabled

Floor3-LS3(config-line)#login local

Floor3-LS3(config-line)#transport input ssh

Floor3-LS3(config-line)#exit

Floor3-LS3(config)#no ip domain-lookup

Floor3-LS3(config)#enable password BANK

Floor3-LS3(config)#service password-encryption

Floor3-LS3(config)#int range g1/0/1-2

Floor3-LS3(config-if-range)#no switchport

Floor3-LS3(config-if-range)#ex

Floor3-LS3(config)#int g1/0/1

Floor3-LS3(config-if)#ip add 10.10.10.41 255.255.255.252

Floor3-LS3(config-if)#int g1/0/2

Floor3-LS3(config-if)#ip add 10.10.10.45 255.255.255.252

Floor3-LS3(config)#ip routing

Floor3-LS3(config)#router ospf 10

Floor3-LS3(config-router)#network 10.10.10.40 0.0.0.3 area 0

Floor3-LS3(config-router)#network 10.10.10.44 0.0.0.3 area 0

Floor3-LS3(config-router)#

Floor3-LS3(config-router)#network 192.168.11.128 0.0.0.63 area 0

Floor3-LS3(config-router)#network 192.168.11.192 0.0.0.63 area 0

Floor3-LS3(config-router)#network 192.168.12.0 0.0.0.63 area 0

Floor3-LS3(config-router)#network 192.168.12.64 0.0.0.63 area 0

Floor3-LS3(config-router)#network 192.168.12.128 0.0.0.63 area 0

Floor3-LS3(config-router)#network 192.168.12.192 0.0.0.63 area 0

Floor3-LS3(config)#vlan 70

Floor3-LS3(config-vlan)#vlan 80

Floor3-LS3(config-vlan)#vlan 90

Floor3-LS3(config-vlan)#vlan 100

Floor3-LS3(config-vlan)#vlan 110

Floor3-LS3(config-vlan)#vlan 120

Floor3-LS3(config-vlan)#ex

Floor3-LS3(config)#int vlan 70

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.11.129 255.255.255.192

Floor3-LS3(config-if)#ip helper-address 192.168.12.196

Floor3-LS3(config-if)#

Floor3-LS3(config-if)#int vlan 80

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.11.193 255.255.255.192

Floor3-LS3(config-if)#ip helper-address 192.168.12.196

Floor3-LS3(config-if)#

Floor3-LS3(config-if)#int vlan 90

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.12.1 255.255.255.192

Floor3-LS3(config-if)#ip helper-address 192.168.12.196

Floor3-LS3(config-if)#

Floor3-LS3(config-if)#int vlan 100

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.12.65 255.255.255.192

Floor3-LS3(config-if)#ip helper-address 192.168.12.196

Floor3-LS3(config-if)#

Floor3-LS3(config-if)#int vlan 110

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.12.129 255.255.255.192

Floor3-LS3(config-if)#ip helper-address 192.168.12.196

Floor3-LS3(config-if)#

Floor3-LS3(config-if)#int vlan 120

Floor3-LS3(config-if)#no shutdown

Floor3-LS3(config-if)#ip add 192.168.12.193 255.255.255.192

Switch layer3 Floor4:

Switch>enable

Switch#conf t

Switch(config)#hostname Floor4-LS3

Floor4-LS3>en

Floor4-LS3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Floor4-LS3(config)#banner motd #This is the floor4's Switch Layer3#

Floor4-LS3(config)#line console 0

Floor4-LS3(config-line)#password BANK

Floor4-LS3(config-line)#login

Floor4-LS3(config-line)#exit

Floor4-LS3(config)#

Floor4-LS3(config)#ip domain-name bank.net

Floor4-LS3(config)#username admin password admin

Floor4-LS3(config)#crypto key generate rsa

The name for the keys will be: Floor4-LS3.bank.net

Choose the size of the key modulus in the range of 360 to 2048 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

Floor4-LS3(config)#line vty 0 15

\*Mar 1 2:15:33.343: %SSH-5-ENABLED: SSH 1.99 has been enabled

Floor4-LS3(config-line)#login local

Floor4-LS3(config-line)#transport input ssh

Floor4-LS3(config-line)#exit

Floor4-LS3(config)#no ip domain-lookup

Floor4-LS3(config)#enable password BANK

Floor4-LS3(config)#service password-encryption

Floor4-LS3(config)#int range g1/0/1-2

Floor4-LS3(config-if-range)#no switchport

Floor4-LS3(config-if-range)#ex

Floor4-LS3(config)#int g1/0/1

Floor4-LS3(config-if)#ip add 10.10.10.49 255.255.255.252

Floor4-LS3(config-if)#int g1/0/2

Floor4-LS3(config-if)#ip add 10.10.10.53 255.255.255.252

Floor4-LS3(config)#ip routing

Floor4-LS3(config)#router ospf 10

Floor4-LS3(config-router)#network 10.10.10.48 0.0.0.3 area 0

Floor4-LS3(config-router)#network 10.10.10.52 0.0.0.3 area 0

Floor4-LS3(config-router)#

Floor4-LS3(config-router)#network 192.168.11.128 0.0.0.63 area 0

Floor4-LS3(config-router)#network 192.168.11.192 0.0.0.63 area 0

Floor4-LS3(config-router)#network 192.168.12.0 0.0.0.63 area 0

Floor4-LS3(config-router)#network 192.168.12.64 0.0.0.63 area 0

Floor4-LS3(config-router)#network 192.168.12.128 0.0.0.63 area 0

Floor4-LS3(config-router)#network 192.168.12.192 0.0.0.63 area 0

Floor4-LS3(config)#vlan 70

Floor4-LS3(config-vlan)#vlan 80

Floor4-LS3(config-vlan)#vlan 90

Floor4-LS3(config-vlan)#vlan 100

Floor4-LS3(config-vlan)#vlan 110

Floor4-LS3(config-vlan)#vlan 120

Floor4-LS3(config)#int vlan 70

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.11.129 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

Floor4-LS3(config-if)#

Floor4-LS3(config-if)#int vlan 80

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.11.193 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

Floor4-LS3(config-if)#

Floor4-LS3(config-if)#int vlan 90

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.12.1 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

Floor4-LS3(config-if)#

Floor4-LS3(config-if)#int vlan 100

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.12.65 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

Floor4-LS3(config-if)#

Floor4-LS3(config-if)#int vlan 110

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.12.129 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

Floor4-LS3(config-if)#

Floor4-LS3(config-if)#int vlan 120

Floor4-LS3(config-if)#no shutdown

Floor4-LS3(config-if)#ip add 192.168.12.193 255.255.255.192

Floor4-LS3(config-if)#ip helper-address 192.168.12.196

**Switches Floor1:**

Management:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F1-Management

F1-Management(config)#banner motd #This is the floor1's Management's Switch#

F1-Management(config)#line console 0

F1-Management(config-line)#password BANK

F1-Management(config-line)#login

F1-Management(config-line)#exit

F1-Management(config)#line vty 0 15

F1-Management(config-line)#password BANK

F1-Management(config-line)#login

F1-Management(config-line)#exit

F1-Management(config)#no ip domain-lookup

F1-Management(config)#enable password BANK

F1-Management(config)#service password-encryption

F1-Management(config)#int range fa0/1-2

F1-Management(config-if-range)#switchport mode trunk

F1-Management(config-if-range)#exit

F1-Management(config)#vlan 10

F1-Management(config-vlan)#name Management

F1-Management(config-vlan)#exit

F1-Management(config)#int range f0/3-24

F1-Management(config-if-range)#switchport mode access

F1-Management(config-if-range)#switchport access vlan 10

F1-Management(config-if-range)#switchport port-security maximum 2

F1-Management(config-if-range)#switchport port-security mac-address sticky

F1-Management(config-if-range)#switchport port-security violation shutdown

Research:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F1-Research

F1-Research(config)#banner motd #This is the floor1's Research's Switch#

F1-Research(config)#line console 0

F1-Research(config-line)#password BANK

F1-Research(config-line)#login

F1-Research(config-line)#exit

F1-Research(config)#line vty 0 15

F1-Research(config-line)#password BANK

F1-Research(config-line)#login

F1-Research(config-line)#exit

F1-Research(config)#no ip domain-lookup

F1-Research(config)#enable password BANK

F1-Research(config)#service password-encryption

F1- Research(config)#int range fa0/1-2

F1- Research(config-if-range)#switchport mode trunk

F1- Research(config-if-range)#exit

F1- Research(config)#

F1- Research(config)#vlan 20

F1- Research(config-vlan)#name Research

F1- Research(config-vlan)#exit

F1- Research(config)#int range fa0/3-24

F1- Research(config-if-range)#switchport mode access

F1- Research(config-if-range)#switchport access vlan 20

F1- Research(config-if-range)#switchport port-security

F1- Research(config-if-range)#switchport port-security maximum 2

F1- Research(config-if-range)#switchport port-security mac-address sticky

F1- Research(config-if-range)#switchport port-security violation shutdown

Human Resource:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F1-HR

F1-HR(config)#banner motd #This is the floor1's Human Ressource's Switch#

F1-HR(config)#line console 0

F1-HR(config-line)#password BANK

F1-HR(config-line)#login

F1-HR(config-line)#exit

F1-HR(config)#line vty 0 15

F1-HR(config-line)#password BANK

F1-HR(config-line)#login

F1-HR(config-line)#exit

F1-HR(config)#no ip domain-lookup

F1-HR(config)#enable password BANK

F1-HR(config)#service password-encryption

F1-HR(config)#int range fa0/1-2

F1-HR(config-if-range)#switchport mode trunk

F1-HR(config-if-range)#exit

F1-HR(config)#

F1-HR(config)#vlan 30

F1-HR(config-vlan)#name HR

F1-HR(config-vlan)#exit

F1-HR(config)#int range fa0/3-24

F1-HR(config-if-range)#switchport mode access

F1-HR(config-if-range)#switchport access vlan 30

F1-HR(config-if-range)#switchport port-security

F1-HR(config-if-range)#switchport port-security maximum 2

F1-HR(config-if-range)#switchport port-security mac-address sticky

F1-HR(config-if-range)#switchport port-security violation shutdown

Switches Floor2:

Marketing:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F2-Marketing

F2-Marketing(config)#banner motd #This is the floor2's Marketing's Switch#

F2-Marketing(config)#line console 0

F2-Marketing(config-line)#password BANK

F2-Marketing(config-line)#login

F2-Marketing(config-line)#exit

F2-Marketing(config)#line vty 0 15

F2-Marketing(config-line)#password BANK

F2-Marketing(config-line)#login

F2-Marketing(config-line)#exit

F2-Marketing(config)#no ip domain-lookup

F2-Marketing(config)#enable password BANK

F2-Marketing(config)#service password-encryption

F2-Marketing(config)#int range fa0/1-2

F2-Marketing(config-if-range)#switchport mode trunk

F2-Marketing(config-if-range)#exit

F2-Marketing(config)#vlan 40

F2-Marketing(config-vlan)#name Marketing

F2-Marketing(config-vlan)#exit

F2-Marketing(config)#int range fa0/3-24

F2-Marketing(config-if-range)#switchport mode access

F2-Marketing(config-if-range)#switchport access vlan 40

F2-Marketing(config-if-range)#switchport port-security

F2-Marketing(config-if-range)#switchport port-security maximum 2

F2-Marketing(config-if-range)#switchport port-security mac-address sticky

F2-Marketing(config-if-range)#switchport port-security violation shutdown

Accounting:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F2-Accounting

F2-Accounting(config)#banner motd #This is the floor2's Accounting's Switch#

F2-Accounting(config)#line console 0

F2-Accounting(config-line)#password BANK

F2-Accounting(config-line)#login

F2-Accounting(config-line)#exit

F2-Accounting(config)#line vty 0 15

F2-Accounting(config-line)#password BANK

F2-Accounting(config-line)#login

F2-Accounting(config-line)#exit

F2-Accounting(config)#no ip domain-lookup

F2-Accounting(config)#enable password BANK

F2-Accounting(config)#service password-encryption

F2-Accounting(config)#

F2-Accounting(config)#int range fa0/1-2

F2-Accounting(config-if-range)#switchport mode trunk

F2-Accounting(config-if-range)#exit

F2-Accounting(config)#vlan 50

F2-Accounting(config-vlan)#name Accounting

F2-Accounting(config-vlan)#exit

F2-Accounting(config)#int range fa0/3-24

F2-Accounting(config-if-range)#switchport mode access

F2-Accounting(config-if-range)#switchport access vlan 50

F2-Accounting(config-if-range)#switchport port-security

F2-Accounting(config-if-range)#switchport port-security maximum 2

F2-Accounting(config-if-range)#switchport port-security mac-address sticky

F2-Accounting(config-if-range)#switchport port-security violation shutdown

Finance:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F2-Finance

F2-Finance(config)#banner motd #This is the floor2's Finance's Switch#

F2-Finance(config)#line console 0

F2-Finance(config-line)#password BANK

F2-Finance(config-line)#login

F2-Finance(config-line)#exit

F2-Finance(config)#line vty 0 15

F2-Finance(config-line)#password BANK

F2-Finance(config-line)#login

F2-Finance(config-line)#exit

F2-Finance(config)#no ip domain-lookup

F2-Finance(config)#enable password BANK

F2-Finance(config)#service password-encryption

F2-Finance(config)#int range fa0/1-2

F2-Finance(config-if-range)#switchport mode trunk

F2-Finance(config-if-range)#exit

F2-Finance(config)#

F2-Finance(config)#vlan 60

F2-Finance(config-vlan)#name Finance

F2-Finance(config-vlan)#exit

F2-Finance(config)#int range fa0/3-24

F2-Finance(config-if-range)#switchport mode access

F2-Finance(config-if-range)#switchport access vlan 60

F2-Finance(config-if-range)#switchport port-security

F2-Finance(config-if-range)#switchport port-security maximum 2

F2-Finance(config-if-range)#switchport port-security mac-address sticky

F2-Finance(config-if-range)#switchport port-security violation shutdown

Switches Floor3:

Logistics and Store:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F3-Logistics/Store

F3-Logistics/Store(config)#banner motd #This is the floor3's Logistic and Store's Switch#

F3-Logistics/Store(config)#line console 0

F3-Logistics/Store(config-line)#password BANK

F3-Logistics/Store(config-line)#login

F3-Logistics/Store(config-line)#exit

F3-Logistics/Store(config)#line vty 0 15

F3-Logistics/Store(config-line)#password BANK

F3-Logistics/Store(config-line)#login

F3-Logistics/Store(config-line)#exit

F3-Logistics/Store(config)#no ip domain-lookup

F3-Logistics/Store(config)#enable password BANK

F3-Logistics/Store(config)#service password-encryption

F3-Logistics/Store(config)#int range fa0/1-2

F3-Logistics/Store(config-if-range)#switchport mode trunk

F3-Logistics/Store(config-if-range)#exit

F3-Logistics/Store(config)#

F3-Logistics/Store(config)#vlan 70

F3-Logistics/Store(config-vlan)#name Logistics/Store

F3-Logistics/Store(config-vlan)#exit

F3-Logistics/Store(config)#int range fa0/3-24

F3-Logistics/Store(config-if-range)#switchport mode access

F3-Logistics/Store(config-if-range)#switchport access vlan 70

F3-Logistics/Store(config-if-range)#switchport port-security

F3-Logistics/Store(config-if-range)#switchport port-security maximum 2

F3-Logistics/Store(config-if-range)#switchport port-security mac-address sticky

F3-Logistics/Store(config-if-range)#switchport port-security violation shutdown

Customer Care:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F3-Customer\_Care

F3-Customer\_Care(config)#banner motd #This is the floor3's Customer Care's Switch#

F3-Customer\_Care(config)#line console 0

F3-Customer\_Care(config-line)#password BANK

F3-Customer\_Care(config-line)#login

F3-Customer\_Care(config-line)#exit

F3-Customer\_Care(config)#line vty 0 15

F3-Customer\_Care(config-line)#password BANK

F3-Customer\_Care(config-line)#login

F3-Customer\_Care(config-line)#exit

F3-Customer\_Care(config)#no ip domain-lookup

F3-Customer\_Care(config)#enable password BANK

F3-Customer\_Care(config)#service password-encryption

F3-Customer\_Care(config)#int range fa0/1-2

F3-Customer\_Care(config-if-range)#switchport mode trunk

F3-Customer\_Care(config-if-range)#exit

F3-Customer\_Care(config)#

F3-Customer\_Care(config)#vlan 80

F3-Customer\_Care(config-vlan)#name Customer\_care

F3-Customer\_Care(config-vlan)#exit

F3-Customer\_Care(config)#int range fa0/3-24

F3-Customer\_Care(config-if-range)#switchport mode access

F3-Customer\_Care(config-if-range)#switchport access vlan 80

F3-Customer\_Care(config-if-range)#switchport port-security

F3-Customer\_Care(config-if-range)#switchport port-security maximum 2

F3-Customer\_Care(config-if-range)#switchport port-security mac-address sticky

F3-Customer\_Care(config-if-range)#switchport port-security violation shutdown

Guest Area:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F3-Guest\_Area

F3-Guest\_Area(config)#banner motd #This is the floor3's Guest Area's Switch#

F3-Guest\_Area(config)#line console 0

F3-Guest\_Area(config-line)#password BANK

F3-Guest\_Area(config-line)#login

F3-Guest\_Area(config-line)#exit

F3-Guest\_Area(config)#line vty 0 15

F3-Guest\_Area(config-line)#password BANK

F3-Guest\_Area(config-line)#login

F3-Guest\_Area(config-line)#exit

F3-Guest\_Area(config)#no ip domain-lookup

F3-Guest\_Area(config)#enable password BANK

F3-Guest\_Area(config)#service password-encryption

F3-Guest\_Area(config)#int range fa0/1-2

F3-Guest\_Area(config-if-range)#switchport mode trunk

F3-Guest\_Area(config-if-range)#exit

F3-Guest\_Area(config)#

F3-Guest\_Area(config)#vlan 90

F3-Guest\_Area(config-vlan)#name Guest\_Area

F3-Guest\_Area(config-vlan)#exit

F3-Guest\_Area(config)#int range fa0/3-24

F3-Guest\_Area(config-if-range)#switchport mode access

F3-Guest\_Area(config-if-range)#switchport access vlan 90

F3-Guest\_Area(config-if-range)#switchport port-security

F3-Guest\_Area(config-if-range)#switchport port-security maximum 2

F3-Guest\_Area(config-if-range)#switchport port-security mac-address sticky

F3-Guest\_Area(config-if-range)#switchport port-security violation shutdown

Switches Floor4:

Adminstration:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F4-Administartion

F4-Administartion(config)#banner motd #This is the floor4's Administration's Switch#

F4-Administartion(config)#line console 0

F4-Administartion(config-line)#password BANK

F4-Administartion(config-line)#login

F4-Administartion(config-line)#exit

F4-Administartion(config)#line vty 0 15

F4-Administartion(config-line)#password BANK

F4-Administartion(config-line)#login

F4-Administartion(config-line)#exit

F4-Administartion(config)#no ip domain-lookup

F4-Administartion(config)#enable password BANK

F4-Administartion(config)#service password-encryption

F4-Administartion(config)#int range fa0/1-2

F4-Administartion(config-if-range)#switchport mode trunk

F4-Administartion(config-if-range)#exit

F4-Administartion(config)#

F4-Administartion(config)#vlan 100

F4-Administartion(config-vlan)#name Administration

F4-Administartion(config-vlan)#exit

F4-Administartion(config)#int range fa0/3-24

F4-Administartion(config-if-range)#switchport mode access

F4-Administartion(config-if-range)#switchport access vlan 100

F4-Administartion(config-if-range)#switchport port-security

F4-Administartion(config-if-range)#switchport port-security maximum 2

F4-Administartion(config-if-range)#switchport port-security mac-address sticky

F4-Administartion(config-if-range)#switchport port-security violation shutdown

ICT:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F4-ICT

F4-ICT(config)#banner motd #This is the floor4's ICT's Switch#

F4-ICT(config)#line console 0

F4-ICT(config-line)#password BANK

F4-ICT(config-line)#login

F4-ICT(config-line)#exit

F4-ICT(config)#line vty 0 15

F4-ICT(config-line)#password BANK

F4-ICT(config-line)#login

F4-ICT(config-line)#exit

F4-ICT(config)#no ip domain-lookup

F4-ICT(config)#enable password BANK

F4-ICT(config)#service password-encryption

F4-ICT(config)#int range fa0/1-2

F4-ICT(config-if-range)#switchport mode trunk

F4-ICT(config-if-range)#exit

F4-ICT(config)#

F4-ICT(config)#vlan 110

F4-ICT(config-vlan)#name ICT

F4-ICT(config-vlan)#exit

F4-ICT(config)#int range fa0/3-24

F4-ICT(config-if-range)#switchport mode access

F4-ICT(config-if-range)#switchport access vlan 110

F4-ICT(config-if-range)#switchport port-security

F4-ICT(config-if-range)#switchport port-security maximum 2

F4-ICT(config-if-range)#switchport port-security mac-address sticky

F4-ICT(config-if-range)#switchport port-security violation shutdown

Servers:

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname F4-Servers

F4-Servers(config)#banner motd #This is the floor4's Servers's Switch#

F4-Servers(config)#line console 0

F4-Servers(config-line)#password BANK

F4-Servers(config-line)#login

F4-Servers(config-line)#exit

F4-Servers(config)#line vty 0 15

F4-Servers(config-line)#password BANK

F4-Servers(config-line)#login

F4-Servers(config-line)#exit

F4-Servers(config)#no ip domain-lookup

F4-Servers(config)#enable password BANK

F4-Servers(config)#service password-encryption

F4-Servers(config)#int range fa0/1-2

F4-Servers(config-if-range)#switchport mode trunk

F4-Servers(config-if-range)#exit

F4-Servers(config)#

F4-Servers(config)#vlan 120

F4-Servers(config-vlan)#name Servers

F4-Servers(config-vlan)#exit

F4-Servers(config)#int range fa0/3-24

F4-Servers(config-if-range)#switchport mode access

F4-Servers(config-if-range)#switchport access vlan 120

F4-Servers(config-if-range)#switchport port-security

F4-Servers(config-if-range)#switchport port-security maximum 2

F4-Servers(config-if-range)#switchport port-security mac-address sticky

F4-Servers(config-if-range)#switchport port-security violation shutdown