

#F1-Mgt-SW

```
en
conf t
hostname F1-MGT-SW
banner motd #This F1-MGT switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 10
name MGT
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 10
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
exit
```

#F1-SRC-SW

```
en
conf t
```

```
hostname F1-RSC-SW
banner motd #This F1-RSC switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 20
name RSC
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 20
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F1-HR-SW

```
en
conf t
```

```
hostname F1-HR-SW
banner motd #This F1-HR switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
```

service password-encryption

int range fa0/1-2
switchport mode trunk
exit

vlan 30
name HR
exit

int range fa0/3-24
switchport mode access
Switchport access vlan 30

switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation

do wr

#F2-MKT-SW

en
conf t

hostname F2-MKT-SW
banner motd #This F2-MKT switch#
line console 0
password cisco

```
login  
exit
```

```
line vty 0 15  
password cisco  
login  
exit
```

```
no ip domain-lookup  
enable password cisco  
service password-encryption
```

```
int range fa0/1-2  
switchport mode trunk  
exit
```

```
vlan 40  
name MKT  
exit
```

```
int range fa0/3-24  
switchport mode access  
Switchport access vlan 40
```

```
switchport port-security  
switchport port-security maximum 2  
switchport port-security mac-address sticky  
switchport port-security violation shutdown  
switchport port-security violation
```

```
do wr
```

#F2-ACC-SW

```
en
conf t
```

```
hostname F2-ACC-SW
banner motd #This F2-ACC switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 50
name ACC
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 50
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

do wr

#F2-FIN-SW

en

conf t

hostname F2-FIN-SW

banner motd #This F2-FIN switch#

line console 0

password cisco

login

exit

line vty 0 15

password cisco

login

exit

no ip domain-lookup

enable password cisco

service password-encryption

int range fa0/1-2

switchport mode trunk

exit

vlan 60

name FIN

exit

int range fa0/3-24

switchport mode access

Switchport access vlan 60

switchport port-security

```
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F3-LOG-SW

```
en
conf t
```

```
hostname F3-LOG-SW
banner motd #This F3-LOG switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```



```
vlan 70
name LOG
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 70
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F3-CUST-SW

```
en
conf t
```

```
hostname F3-CUST-SW
banner motd #This F3-CUST switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 80
name CUST
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 80
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F3-GST-SW

```
en
conf t
```

```
hostname F3-GST-SW
banner motd #This F3-GST switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 90
name GST
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 90
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F4-ADMIN-SW

```
en  
conf t
```

```
hostname F4-ADMIN-SW  
banner motd #This F4-ADMIN switch#  
line console 0  
password cisco  
login  
exit
```

```
line vty 0 15  
password cisco  
login  
exit
```

```
no ip domain-lookup  
enable password cisco  
service password-encryption
```

```
int range fa0/1-2  
switchport mode trunk  
exit
```

```
vlan 100  
name ADMIN  
exit
```

```
int range fa0/3-24  
switchport mode access  
Switchport access vlan 100
```

```
switchport port-security  
switchport port-security maximum 2
```

```
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F4-ICT-SW

```
en
conf t
```

```
hostname F4-ICT-SW
banner motd #This F4-ICT switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 110
```

```
name ICT
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 110
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F4-SVR-SW

```
en
conf t
```

```
hostname F4-SVR-SW
banner motd #This F4-SVR switch#
line console 0
password cisco
login
exit
```

```
line vty 0 15
password cisco
login
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range fa0/1-2
switchport mode trunk
exit
```

```
vlan 120
name SVR
exit
```

```
int range fa0/3-24
switchport mode access
Switchport access vlan 120
```

```
switchport port-security
switchport port-security maximum 2
switchport port-security mac-address sticky
switchport port-security violation shutdown
switchport port-security violation
```

```
do wr
```

#F1-L3-SW

```
en
conf t
```

```
hostname F1-L3-SW
banner motd #This is Layer-3-SW#
line console 0
```

```
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range gig1/0/3-8
Switchport mode trunk
exit
```

```
int range gig1/0/1-2
no switchport
exit
```

```
int gig1/0/1
ip address 10.10.10.1 255.255.255.252
exit
```

```
int gig1/0/2
ip address 10.10.10.9 255.255.255.252
exit
```



```
ip routing
router ospf 10
network 10.10.10.0 0.0.0.3 area 0
network 10.10.10.8 0.0.0.3 area 0
```

```
network 192.168.10.0 0.0.0.63 area 0
network 192.168.10.64 0.0.0.63 area 0
network 192.168.10.128 0.0.0.63 area 0
network 192.168.10.192 0.0.0.63 area 0
network 192.168.11.0 0.0.0.63 area 0
network 192.168.11.64 0.0.0.63 area 0
```

```
vlan 10
vlan 20
vlan 30
vlan 40
vlan 50
vlan 60
```

```
int vlan 10
no shutdown
ip address 192.168.10.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 20
no shutdown
ip address 192.168.10.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 30
no shutdown
ip address 192.168.10.129 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 40
no shutdown
ip address 192.168.10.193 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 50
no shutdown
ip address 192.168.11.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 60
no shutdown
ip address 192.168.11.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
do wr
```

#F2-L3-SW

```
en
conf t
```

```
hostname F2-L3-SW
```

```
banner motd #This is Layer-3-SW#  
line console 0  
password cisco  
login  
exit
```

```
ip domain-name cisco.net  
username cisco password cisco  
crypto key generate rsa  
1024  
line vty 0 15  
login local  
transport input ssh  
exit
```

```
no ip domain-lookup  
enable password cisco  
service password-encryption
```

```
int range gig1/0/3-8  
Switchport mode trunk  
exit
```

```
int range gig1/0/1-2  
no switchport  
exit
```

```
int gig1/0/1  
ip address 10.10.10.5 255.255.255.252  
exit
```

```
int gig1/0/2  
ip address 10.10.10.13 255.255.255.252  
exit
```

```
ip routing
router ospf 10
network 10.10.10.4 0.0.0.3 area 0
network 10.10.10.12 0.0.0.3 area 0
```

```
network 192.168.10.0 0.0.0.63 area 0
network 192.168.10.64 0.0.0.63 area 0
network 192.168.10.128 0.0.0.63 area 0
network 192.168.10.192 0.0.0.63 area 0
network 192.168.11.0 0.0.0.63 area 0
network 192.168.11.64 0.0.0.63 area 0
```

```
vlan 10
vlan 20
vlan 30
vlan 40
vlan 50
vlan 60
```

```
int vlan 10
no shutdown
ip address 192.168.10.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 20
no shutdown
ip address 192.168.10.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 30
no shutdown
```

```
ip address 192.168.10.129 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 40
no shutdown
ip address 192.168.10.193 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 50
no shutdown
ip address 192.168.11.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 60
no shutdown
ip address 192.168.11.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
do wr
```

#F3-L3-SW

```
en
conf t
```

```
hostname F3-L3-SW
banner motd #This is Layer-3-SW#
line console 0
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range gig1/0/3-8
Switchport mode trunk
exit
```

```
int range gig1/0/1-2
no switchport
exit
```

```
int gig1/0/1
ip address 10.10.10.41 255.255.255.252
exit
```

```
int gig1/0/2
ip address 10.10.10.45 255.255.255.252
exit
```

```
ip routing
router ospf 10
network 10.10.10.40 0.0.0.3 area 0
network 10.10.10.44 0.0.0.3 area 0
```

```
network 192.168.11.128 0.0.0.63 area 0
network 192.168.11.192 0.0.0.63 area 0
network 192.168.12.0 0.0.0.63 area 0
network 192.168.12.64 0.0.0.63 area 0
network 192.168.12.128 0.0.0.63 area 0
network 192.168.12.192 0.0.0.63 area 0
```

```
vlan 70
vlan 80
vlan 90
vlan 100
vlan 110
vlan 120
```

```
int vlan 70
no shutdown
ip address 192.168.11.129 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 80
no shutdown
ip address 192.168.11.193 255.255.255.192
ip helper-address 192.168.12.196
```

exit

```
int vlan 90
no shutdown
ip address 192.168.12.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 100
no shutdown
ip address 192.168.12.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 110
no shutdown
ip address 192.168.12.129 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 120
no shutdown
ip address 192.168.12.193 255.255.255.192
exit
```

do wr

#F4-L3-SW

```
en
conf t
```

```
hostname F4-L3-SW
banner motd #This is Layer-3-SW#
line console 0
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int range gig1/0/3-8
Switchport mode trunk
exit
```

```
int range gig1/0/1-2
no switchport
exit
```

```
int gig1/0/1
ip address 10.10.10.49 255.255.255.252
exit
```

```
int gig1/0/2
ip address 10.10.10.53 255.255.255.252
exit
```

```
ip routing
router ospf 10
network 10.10.10.48 0.0.0.3 area 0
network 10.10.10.52 0.0.0.3 area 0
```

```
network 192.168.11.128 0.0.0.63 area 0
network 192.168.11.192 0.0.0.63 area 0
network 192.168.12.0 0.0.0.63 area 0
network 192.168.12.64 0.0.0.63 area 0
network 192.168.12.128 0.0.0.63 area 0
network 192.168.12.192 0.0.0.63 area 0
```

```
vlan 70
vlan 80
vlan 90
vlan 100
vlan 110
vlan 120
```

```
int vlan 70
no shutdown
ip address 192.168.11.129 255.255.255.192
ip helper-address 192.168.12.196
```

exit

```
int vlan 80
no shutdown
ip address 192.168.11.193 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 90
no shutdown
ip address 192.168.12.1 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 100
no shutdown
ip address 192.168.12.65 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 110
no shutdown
ip address 192.168.12.129 255.255.255.192
ip helper-address 192.168.12.196
exit
```

```
int vlan 120
no shutdown
ip address 192.168.12.193 255.255.255.192
exit
```

do wr

#Core-LayerR1

en

conf t

hostname Core-LayerR

banner motd #This is Core-LayerR#

line console 0

password cisco

login

exit

ip domain-name cisco.net

username cisco password cisco

crypto key generate rsa

1024

line vty 0 15

login local

transport input ssh

exit

no ip domain-lookup

enable password cisco

service password-encryption

int gig0/1

ip address 10.10.10.2 255.255.255.252

exit

int gig0/2

```
ip address 10.10.10.14 255.255.255.252
exit
```

```
int gig0/0
ip address 10.10.10.29 255.255.255.252
exit
```

```
int se0/2/0
ip address 10.10.10.33 255.255.255.252
clock rate 64000
exit
```

```
int se0/2/1
ip address 10.10.10.17 255.255.255.252
clock rate 64000
exit
```

```
router ospf 10
network 10.10.10.0 0.0.0.3 area 0
network 10.10.10.12 0.0.0.3 area 0
network 10.10.10.16 0.0.0.3 area 0
network 10.10.10.28 0.0.0.3 area 0
network 10.10.10.32 0.0.0.3 area 0
exit
```

```
do wr
```

#Core-LayerR2

```
en
```

conf t

```
hostname Core-LayerR
banner motd #This is Core-LayerR#
line console 0
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int gig0/1
ip address 10.10.10.6 255.255.255.252
exit
```

```
int gig0/2
ip address 10.10.10.10 255.255.255.252
exit
```

```
int gig0/0
ip address 10.10.10.21 255.255.255.252
exit
```

```
int se0/2/0
ip address 10.10.10.18 255.255.255.252
clock rate 64000
```

exit

```
int se0/2/1
ip address 10.10.10.25 255.255.255.252
clock rate 64000
exit
```

```
router ospf 10
network 10.10.10.4 0.0.0.3 area 0
network 10.10.10.8 0.0.0.3 area 0
network 10.10.10.16 0.0.0.3 area 0
network 10.10.10.20 0.0.0.3 area 0
network 10.10.10.24 0.0.0.3 area 0
exit
```

do wr

#Core-LayerR3

```
en
conf t
```

```
hostname Core-LayerR
banner motd #This is Core-LayerR#
line console 0
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int gig0/1
ip address 10.10.10.42 255.255.255.252
exit
```

```
int gig0/2
ip address 10.10.10.54 255.255.255.252
exit
```

```
int gig0/0
ip address 10.10.10.22 255.255.255.252
exit
```

```
int se0/2/0
ip address 10.10.10.34 255.255.255.252
clock rate 64000
exit
```

```
int se0/2/1
ip address 10.10.10.38 255.255.255.252
clock rate 64000
exit
```



```
router ospf 10
network 10.10.10.32 0.0.0.3 area 0
network 10.10.10.20 0.0.0.3 area 0
network 10.10.10.36 0.0.0.3 area 0
network 10.10.10.52 0.0.0.3 area 0
network 10.10.10.40 0.0.0.3 area 0
exit
```

```
do wr
```

#Core-LayerR4

```
en
conf t
```

```
hostname Core-LayerR
banner motd #This is Core-LayerR#
line console 0
password cisco
login
exit
```

```
ip domain-name cisco.net
username cisco password cisco
crypto key generate rsa
1024
line vty 0 15
login local
transport input ssh
exit
```

```
no ip domain-lookup
enable password cisco
service password-encryption
```

```
int gig0/1
ip address 10.10.10.50 255.255.255.252
exit
```

```
int gig0/2
ip address 10.10.10.46 255.255.255.252
exit
```

```
int gig0/0
ip address 10.10.10.30 255.255.255.252
exit
```

```
int se0/2/0
ip address 10.10.10.26 255.255.255.252
clock rate 64000
exit
```

```
int se0/2/1
ip address 10.10.10.37 255.255.255.252
clock rate 64000
exit
```

```
router ospf 10
network 10.10.10.24 0.0.0.3 area 0
network 10.10.10.28 0.0.0.3 area 0
network 10.10.10.36 0.0.0.3 area 0
network 10.10.10.44 0.0.0.3 area 0
network 10.10.10.48 0.0.0.3 area 0
exit
```

```
do wr
```

