

Switch-13

Building configuration...

Current configuration : 8221 bytes

!

! Last configuration change at 15:56:33 UTC Sun Nov 16 2025 by admin

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname SWITCH1

!

boot-start-marker

boot-end-marker

!

!

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

logging buffered 50000

enable secret 5 \$1\$ZOpM\$.8rTB/MTWYbMp/nxXcI2w1

!

```
username admin privilege 15 secret 5 $1$ZhWP$/UwmQcuaA7oEZYJuyfw/M0
```

```
aaa new-model
```

```
!
```

```
!
```

```
aaa authentication login default local
```

```
aaa session-id common
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
no ip icmp rate-limit unreachable
```

```
!
```

```
!
```

```
!
```

```
ip dhcp snooping vlan 10,44-100
```

```
ip dhcp snooping
```

```
no ip domain-lookup
```

```
no ip cef
```

```
ipv6 multicast rpf use-bgp
```

```
no ipv6 cef
```

```
!
```

```
!
```

```
errdisable recovery cause psecure-violation
```

```
errdisable recovery interval 30
```

```
!
```

```
spanning-tree mode pvst
```

```
spanning-tree portfast edge default
```

```
spanning-tree extend system-id
```

```
interface GigabitEthernet0/0
```

```
description TO-SWITCH1-MS1
```

```
switchport trunk allowed vlan 10,44,100
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

```
negotiation auto
```

```
ip dhcp snooping trust
```

```
!
```

```
interface GigabitEthernet0/1
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

!

```
interface GigabitEthernet0/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet0/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet1/0
description PC1
```

```
switchport access vlan 10
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6801
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/1
description PC2
switchport access vlan 10
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6802
switchport port-security
negotiation auto
spanning-tree portfast edge
```

```
spanning-tree bpduguard enable  
ip dhcp snooping limit rate 25  
!  
interface GigabitEthernet1/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!  
interface GigabitEthernet1/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!
```

```
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/2
switchport access vlan 100
switchport mode access
```

```
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!  
interface GigabitEthernet2/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!  
interface GigabitEthernet3/0  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5
```

switchport port-security aging type inactivity

switchport port-security

negotiation auto

!

interface GigabitEthernet3/1

switchport access vlan 100

switchport mode access

switchport port-security violation restrict

switchport port-security mac-address sticky

switchport port-security aging time 5

switchport port-security aging type inactivity

switchport port-security

negotiation auto

!

interface GigabitEthernet3/2

switchport access vlan 100

switchport mode access

switchport port-security violation restrict

switchport port-security mac-address sticky

switchport port-security aging time 5

switchport port-security aging type inactivity

switchport port-security

negotiation auto

!

```
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
switchport port-security aging type inactivity
switchport port-security
negotiation auto

!
interface GigabitEthernet3/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet3/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
line con 0
exec-timeout 0 0
```

```
privilege level 15  
logging synchronous  
line aux 0  
exec-timeout 0 0  
privilege level 15  
logging synchronous  
line vty 0 4
```

!

!

End

Switch-14

Building configuration...

Current configuration : 8212 bytes

!

! Last configuration change at 15:54:31 UTC Sun Nov 16 2025

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

```
hostname SWITCH2
!
boot-start-marker
boot-end-marker
!
!
logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL
logging buffered 50000
enable secret 5 $1$Qchw$sVvymxzTfmD/0dKLzzPeq0
!
username admin privilege 15 secret 5 $1$Dxo7$VWe7JimqTvESMC5M84Lqn.
aaa new-model
!
!
aaa authentication login default local
aaa session-id common
!
!
!
!
!
no ip icmp rate-limit unreachable
!
```

!

!

ip dhcp snooping vlan 20,55-100

ip dhcp snooping

no ip domain-lookup

no ip cef

ipv6 multicast rpf use-bgp

no ipv6 cef

!

!

errdisable recovery cause psecure-violation

errdisable recovery interval 30

!

spanning-tree mode pvst

spanning-tree portfast edge default

spanning-tree extend system-id

aaa session-id common

!

!

!

!

!

no ip icmp rate-limit unreachable

!
!
!

ip dhcp snooping vlan 20,55-100

ip dhcp snooping

no ip domain-lookup

no ip cef

ipv6 multicast rpf use-bgp

no ipv6 cef

!

!

errdisable recovery cause psecure-violation

errdisable recovery interval 30

!

spanning-tree mode pvst

spanning-tree portfast edge default

spanning-tree extend system-id

switchport port-security aging time 5

switchport port-security aging type inactivity

switchport port-security

negotiation auto

!

interface GigabitEthernet1/0

```
description PC3
switchport access vlan 20
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6803
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/1
description PC4
switchport access vlan 20
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6804
switchport port-security
negotiation auto
```

```
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet1/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/2
switchport access vlan 100
```

```
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/0  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky
```

```
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/1  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security
```

```
negotiation auto
!
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface Vlan55
ip address 192.168.55.55 255.255.255.0
!
ip default-gateway 192.168.55.1
ip forward-protocol nd
!
ip tcp synwait-time 5
no ip http server
ip http secure-server
!
ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr
```

```
ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr
```

```
!
```

```
!
```

```
logging trap debugging
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
control-plane
```

```
!
```

```
line con 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
line aux 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
line vty 0 4
```

```
!
```

```
!
```

End

Switch-15

Building configuration...

Current configuration : 8211 bytes

!

! Last configuration change at 15:54:30 UTC Sun Nov 16 2025

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname SWITC3

!

boot-start-marker

boot-end-marker

!

!

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

logging buffered 50000

enable secret 5 \$1\$gK0M\$GuRTBt3cBEdgyW7W/9eG10

!

username admin privilege 15 secret 5 \$1\$3OvJ\$fxatXFPg5xIxAib8uVtZv1

aaa new-model

!

!

aaa authentication login default local

aaa session-id common

!

!

!

!

!

no ip icmp rate-limit unreachable

!

!

!

ip dhcp snooping vlan 30,66-100

ip dhcp snooping

no ip domain-lookup

no ip cef

ipv6 multicast rpf use-bgp

no ipv6 cef

!

!

errdisable recovery cause psecure-violation

errdisable recovery interval 30

!

spanning-tree mode pvst

spanning-tree portfast edge default

spanning-tree extend system-id

interface GigabitEthernet0/0

description TO-SWITCH3-MS2

switchport trunk allowed vlan 30,66,100

switchport trunk encapsulation dot1q

switchport mode trunk

negotiation auto

ip dhcp snooping trust

!

interface GigabitEthernet0/1

switchport access vlan 100

switchport mode access

switchport port-security violation restrict

switchport port-security mac-address sticky

switchport port-security aging time 5

switchport port-security aging type inactivity

switchport port-security

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet0/2
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet0/3
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet1/0
```

```
description PC5
switchport access vlan 30
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6805
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/1
description PC6
switchport access vlan 30
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6806
switchport port-security
negotiation auto
```

```
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet1/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/2
switchport access vlan 100
```

```
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/0  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky
```

```
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/1  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security
```

```
negotiation auto
!
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface Vlan66
ip address 192.168.66.55 255.255.255.0
!
ip default-gateway 192.168.66.1
ip forward-protocol nd
!
ip tcp synwait-time 5
no ip http server
ip http secure-server
!
ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr
```

```
ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr
```

```
!
```

```
!
```

```
logging trap debugging
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
control-plane
```

```
!
```

```
line con 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
line aux 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
line vty 0 4
```

```
!
```

```
!
```

End

Switch-16

Building configuration...

Current configuration : 8212 bytes

!

! Last configuration change at 15:54:30 UTC Sun Nov 16 2025

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname SWITCH4

!

boot-start-marker

boot-end-marker

!

!

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

logging buffered 50000

enable secret 5 \$1\$e2LF\$WTH0tkjqlGs/wLMa1SVmq0

```
!  
username admin privilege 15 secret 5 $1$Kckg$RISOOhylv004yCQfRGvcC1  
aaa new-model  
!  
!  
aaa authentication login default local  
!  
!  
!  
!  
!  
!  
aaa session-id common  
!  
no ip icmp rate-limit unreachable  
!  
!  
ip dhcp snooping vlan 40,77-100  
ip dhcp snooping  
no ip domain-lookup  
no ip cef  
ipv6 multicast rpf use-bgp
```

no ipv6 cef

!

!

errdisable recovery cause psecure-violation

errdisable recovery interval 30

!

spanning-tree mode pvst

spanning-tree portfast edge default

spanning-tree extend system-id

interface GigabitEthernet0/0

description TO-SWITCH4-MS2

switchport trunk allowed vlan 40,77,100

switchport trunk encapsulation dot1q

switchport mode trunk

negotiation auto

ip dhcp snooping trust

!

interface GigabitEthernet0/1

switchport access vlan 100

switchport mode access

switchport port-security violation restrict

switchport port-security mac-address sticky

switchport port-security aging time 5

```
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet0/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet0/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet1/0
description PC7
switchport access vlan 40
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6807
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
```

!

```
interface GigabitEthernet1/1
description PC8
switchport access vlan 40
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6808
```

```
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet1/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
```

```
switchport port-security
negotiation auto
!
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
```

```
interface GigabitEthernet2/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/0
switchport access vlan 100
switchport mode access
```

```
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface Vlan77
ip address 192.168.77.55 255.255.255.0
!
ip default-gateway 192.168.77.1
ip forward-protocol nd
!
ip tcp synwait-time 5
no ip http server
ip http secure-server
```

!

ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr

ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr

!

!

logging trap debugging

!

!

!

!

!

!

control-plane

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

!

!

End

Switch-17

Building configuration...

Current configuration : 8213 bytes

!

! Last configuration change at 15:54:30 UTC Sun Nov 16 2025

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname SWITCH5

!

boot-start-marker

boot-end-marker

!

!

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

```
logging buffered 50000
enable secret 5 $1$ZAF6$qTlzcCnhYlG35KOcDlk2d1
!
username admin privilege 15 secret 5 $1$yQsn$EhLpUlpaA.fZoHdTtlqeq.
aaa new-model
!
!
aaa authentication login default local
aaa session-id common
!
!
!
!
!
no ip icmp rate-limit unreachable
!
!
!
ip dhcp snooping vlan 50,88-100
ip dhcp snooping
no ip domain-lookup
no ip cef
ipv6 multicast rpf use-bgp
```

```
no ipv6 cef
!
!
errdisable recovery cause psecure-violation
errdisable recovery interval 30
!
spanning-tree mode pvst
spanning-tree portfast edge default
spanning-tree extend system-id
!
interface GigabitEthernet0/0
description TO-SWITCH5-MS3
switchport trunk allowed vlan 50,88,100
switchport trunk encapsulation dot1q
switchport mode trunk
negotiation auto
ip dhcp snooping trust
!
interface GigabitEthernet0/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
```

```
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet0/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet0/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security
```

```
negotiation auto
!
interface GigabitEthernet1/0
description PC9
switchport access vlan 50
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.6809
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/1
description PC10
switchport access vlan 50
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
```

```
switchport port-security mac-address sticky 0050.7966.680a
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet1/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet2/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

!

```
interface GigabitEthernet3/0
switchport access vlan 100
```

```
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/1  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky
```

```
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface Vlan88
ip address 192.168.88.55 255.255.255.0
!
ip default-gateway 192.168.88.1
ip forward-protocol nd
!
ip tcp synwait-time 5
no ip http server
```

```
ip http secure-server
!
ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr
ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr
!
!
logging trap debugging
!
!
!
!
!
!
control-plane
!
line con 0
exec-timeout 0 0
privilege level 15
logging synchronous
line aux 0
exec-timeout 0 0
privilege level 15
logging synchronous
```

```
line vty 0 4
```

```
!
```

```
!
```

```
End
```

Switch-18

```
Building configuration...
```

```
Current configuration : 8214 bytes
```

```
!
```

```
! Last configuration change at 15:54:27 UTC Sun Nov 16 2025
```

```
!
```

```
version 15.2
```

```
service timestamps debug datetime msec
```

```
service timestamps log datetime msec
```

```
no service password-encryption
```

```
service compress-config
```

```
!
```

```
hostname SWITCH6
```

```
!
```

```
boot-start-marker
```

```
boot-end-marker
```

```
!
```

```
!
```

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

logging buffered 50000

enable secret 5 \$1\$iyhd\$mVeNmSAmayCt1xaREY7CP/

!

username admin privilege 15 secret 5 \$1\$9lm8\$pJtywhiZEoMkPlS1dWOtr0

aaa new-model

!

!

aaa authentication login default local

aaa session-id common

!

!

!

!

!

no ip icmp rate-limit unreachable

!

!

!

ip dhcp snooping vlan 60,99-100

ip dhcp snooping

no ip domain-lookup

no ip cef

```
ipv6 multicast rpf use-bgp
no ipv6 cef
!
!
errdisable recovery cause psecure-violation
errdisable recovery interval 30
!
spanning-tree mode pvst
spanning-tree portfast edge default
spanning-tree extend system-id
!
interface GigabitEthernet0/0
description TO-SWITCH6-MS3
switchport trunk allowed vlan 60,99,100
switchport trunk encapsulation dot1q
switchport mode trunk
negotiation auto
ip dhcp snooping trust
!
interface GigabitEthernet0/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
```

```
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!
```

```
interface GigabitEthernet0/2  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!  
interface GigabitEthernet0/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity
```

```
switchport port-security
negotiation auto
!
interface GigabitEthernet1/0
description PC11
switchport access vlan 60
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.680b
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/1
description PC12
switchport access vlan 60
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
```

```
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.7966.680c
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet1/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
```

```
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/2
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/3
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/0
```

```
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/1
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
```

```
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!
```

```
interface GigabitEthernet3/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!  
interface Vlan99  
ip address 192.168.99.55 255.255.255.0  
!  
ip default-gateway 192.168.99.1  
ip forward-protocol nd  
!  
ip tcp synwait-time 5
```

```
no ip http server  
ip http secure-server  
!  
ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr  
ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr  
!  
!  
logging trap debugging  
!  
!  
!  
!  
!  
!  
control-plane  
!  
line con 0  
exec-timeout 0 0  
privilege level 15  
logging synchronous  
line aux 0  
exec-timeout 0 0  
privilege level 15
```

logging synchronous

line vty 0 4

!

!

End

AdminSwitch

Building configuration...

Current configuration : 8235 bytes

!

! Last configuration change at 15:54:28 UTC Sun Nov 16 2025

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname AdminSwitch

!

boot-start-marker

boot-end-marker

!

!

logging discriminator EXCESS severity drops 6 msg-body drops EXCESSCOLL

logging buffered 50000

enable secret 5 \$1\$AFFP\$Jp/g5FpVR9Wv/Okc/aCuR/

!

username admin privilege 15 secret 5 \$1\$BG/n\$tbiXv/4Irer6/ewVVXi.R0

aaa new-model

!

!

aaa authentication login default local

aaa session-id common

!

!

!

!

!

no ip icmp rate-limit unreachable

!

!

!

ip dhcp snooping vlan 33-100

ip dhcp snooping

no ip domain-lookup

```
no ip cef

ipv6 multicast rpf use-bgp

no ipv6 cef

!

!

errdisable recovery cause psecure-violation

errdisable recovery interval 30

!

spanning-tree mode pvst

spanning-tree portfast edge default

spanning-tree extend system-id

!

interface GigabitEthernet0/0

description TO-AdminSwitch-RouterAdmin

switchport trunk allowed vlan 33,69,70,80,90,100

switchport trunk encapsulation dot1q

switchport mode trunk

negotiation auto

ip dhcp snooping trust

!

interface GigabitEthernet0/1

switchport access vlan 100

switchport mode access
```

```
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet0/2
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet0/0
description TO-AdminSwitch-RouterAdmin
switchport trunk allowed vlan 33,69,70,80,90,100
switchport trunk encapsulation dot1q
switchport mode trunk
negotiation auto
```

```
ip dhcp snooping trust
```

```
!
```

```
interface GigabitEthernet0/1
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet0/2
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet1/2
```

```
description FTP-Server
switchport access vlan 90
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
ip dhcp snooping limit rate 25
!
interface GigabitEthernet1/3
description 1C-server
switchport access vlan 69
switchport mode access
switchport port-security maximum 2
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security
negotiation auto
spanning-tree portfast edge
spanning-tree bpduguard enable
```

```
ip dhcp snooping limit rate 25
```

```
!
```

```
interface GigabitEthernet2/0
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/1
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet2/2
```

```
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet2/3
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
switchport port-security mac-address sticky
switchport port-security aging time 5
switchport port-security aging type inactivity
switchport port-security
negotiation auto
!
interface GigabitEthernet3/0
switchport access vlan 100
switchport mode access
switchport port-security violation restrict
```

```
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto  
!
```

```
interface GigabitEthernet3/1  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity  
switchport port-security  
negotiation auto
```

```
!  
interface GigabitEthernet2/3  
switchport access vlan 100  
switchport mode access  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
switchport port-security aging time 5  
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/0
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

```
interface GigabitEthernet3/1
```

```
switchport access vlan 100
```

```
switchport mode access
```

```
switchport port-security violation restrict
```

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

```
switchport port-security aging time 5
```

```
switchport port-security aging type inactivity
```

```
switchport port-security
```

```
negotiation auto
```

```
!
```

logging trap debugging

!

!

!

!

!

control-plane

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

!

!

End

Vios-19

Building configuration...

Current configuration : 7984 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS1

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 9

\$9\$9EwBR056Uy3suv\$2igSh3cESKybGgDppu7hxmbHB8VbaCSFGPex9jhwNn
Q

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

!

aaa session-id common

!

mmi polling-interval 60

no mmi auto-configure

no mmi pvc

mmi snmp-timeout 180

!

!

!

!

no ip icmp rate-limit unreachable

!

ip dhcp excluded-address 192.168.1.1

ip dhcp excluded-address 192.168.2.1

ip dhcp excluded-address 192.168.3.1

ip dhcp excluded-address 192.168.4.1

ip dhcp excluded-address 192.168.5.1

ip dhcp excluded-address 192.168.6.1

ip dhcp excluded-address 192.168.7.1

ip dhcp excluded-address 192.168.8.1
ip dhcp excluded-address 192.168.9.1
ip dhcp excluded-address 192.168.11.1
ip dhcp excluded-address 192.168.13.1
ip dhcp excluded-address 192.168.14.1
ip dhcp excluded-address 192.168.16.1
ip dhcp excluded-address 192.168.17.1
ip dhcp excluded-address 192.168.19.1
ip dhcp excluded-address 192.168.21.1
ip dhcp excluded-address 192.168.23.1
ip dhcp excluded-address 192.168.24.1
ip dhcp excluded-address 192.168.26.1
ip dhcp excluded-address 192.168.27.1
ip dhcp excluded-address 192.168.98.1
ip dhcp excluded-address 192.168.44.1
ip dhcp excluded-address 192.168.55.1
ip dhcp excluded-address 192.168.66.1
ip dhcp excluded-address 192.168.77.1
ip dhcp excluded-address 192.168.88.1
ip dhcp excluded-address 192.168.99.1
ip dhcp excluded-address 192.168.33.1
ip dhcp excluded-address 192.168.100.1
ip dhcp excluded-address 192.168.22.1

!

ip dhcp pool VLAN10

network 192.168.10.0 255.255.255.0

default-router 192.168.10.1

dns-server 8.8.8.8 1.1.1.1

!

ip dhcp pool VLAN20

network 192.168.20.0 255.255.255.0

default-router 192.168.20.1

dns-server 8.8.8.8 1.1.1.1

!

!

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

!

!

```
username admin privilege 15 secret 9
$9$ZPQt1RQO8T4CUP$TpX8b4PLBItlw9qH7qBlvsDu04AeGYJdy4VFr2QNG
Dg
```

```
!
```

```
redundancy
```

```
!
```

```
!
```

```
track 1 ip sla 1 reachability
```

```
!
```

```
ip tcp synwait-time 5
```

```
!
```

```
interface GigabitEthernet0/0
```

```
ip address 192.168.1.2 255.255.255.252
```

```
ip ospf authentication message-digest
```

```
ip ospf message-digest-key 1 md5 SuperSecureKey
```

```
ip ospf network point-to-point
```

```
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 10
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/1
```

```
ip address 192.168.2.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex auto
speed auto
media-type rj45
```

!

```
interface GigabitEthernet0/2
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

!

```
interface GigabitEthernet0/3
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/4
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/5
```

```
no ip address
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/5.10
```

```
encapsulation dot1Q 10
```

```
ip address 192.168.10.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/5.44
```

```
encapsulation dot1Q 44
```

```
ip address 192.168.44.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/5.100
  encapsulation dot1Q 100
  ip address 192.168.100.1 255.255.255.0
!
interface GigabitEthernet0/6
  no ip address
  duplex auto
  speed auto
  media-type rj45
!
interface GigabitEthernet0/6.20
  encapsulation dot1Q 20
  ip address 192.168.20.1 255.255.255.0
!
interface GigabitEthernet0/6.55
  encapsulation dot1Q 55
  ip address 192.168.55.1 255.255.255.0
!
interface GigabitEthernet0/7
  ip address 192.168.3.1 255.255.255.252
  ip ospf authentication message-digest
  ip ospf message-digest-key 1 md5 SuperSecureKey
  ip ospf network point-to-point
```

```
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 12
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/8
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/9
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/10
```

```
no ip address
```

```
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/11
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/12
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/13
no ip address
shutdown
duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/14
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/15
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
router ospf 50
router-id 1.2.1.2
area 0 authentication message-digest
passive-interface default
no passive-interface GigabitEthernet0/0
no passive-interface GigabitEthernet0/1
```

```
no passive-interface GigabitEthernet0/7
network 192.168.1.0 0.0.0.3 area 0
network 192.168.2.0 0.0.0.3 area 0
network 192.168.3.0 0.0.0.3 area 0
network 192.168.10.0 0.0.0.255 area 0
network 192.168.20.0 0.0.0.255 area 0
network 192.168.44.0 0.0.0.255 area 0
network 192.168.55.0 0.0.0.255 area 0
network 192.168.100.0 0.0.0.255 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.1.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.2.1 10
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
ip access-list standard MGMT_ALLOW
permit 192.168.44.0 0.0.0.255
permit 192.168.55.0 0.0.0.255
```

```
deny any
!
ip sla 1
    icmp-echo 192.168.2.1 source-interface GigabitEthernet0/0
    threshold 500
    frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
!
!
!
!
!
control-plane
!
line con 0
    exec-timeout 0 0
    privilege level 15
    logging synchronous
line aux 0
    exec-timeout 0 0
    privilege level 15
```

```
logging synchronous  
line vty 0 4  
access-class MGMT_ALLOW in  
transport input ssh  
!  
no scheduler allocate  
!
```

End

VIOS-20

Building configuration...

```
Current configuration : 8298 bytes  
!  
version 15.9  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname MS2  
!  
boot-start-marker  
boot-end-marker  
!
```

!

logging buffered 50000 warnings

enable secret 9

\$9\$rilIa.Pp/BaWk9\$jLQxv29pDNtfuOxqxm2YZI4y2XRtpeEflzB95foULok

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

aaa session-id common

!

mmi polling-interval 60

no mmi auto-configure

no mmi pvc

mmi snmp-timeout 180

!

!

!

!

!

no ip icmp rate-limit unreachable

!

ip dhcp excluded-address 192.168.1.1

ip dhcp excluded-address 192.168.2.1

ip dhcp excluded-address 192.168.3.1

ip dhcp excluded-address 192.168.4.1

ip dhcp excluded-address 192.168.5.1

ip dhcp excluded-address 192.168.6.1

ip dhcp excluded-address 192.168.7.1

ip dhcp excluded-address 192.168.8.1

ip dhcp excluded-address 192.168.9.1

ip dhcp excluded-address 192.168.11.1

ip dhcp excluded-address 192.168.13.1

ip dhcp excluded-address 192.168.14.1

ip dhcp excluded-address 192.168.16.1

ip dhcp excluded-address 192.168.17.1

ip dhcp excluded-address 192.168.19.1

ip dhcp excluded-address 192.168.21.1

ip dhcp excluded-address 192.168.23.1

ip dhcp excluded-address 192.168.24.1

ip dhcp excluded-address 192.168.26.1

```
ip dhcp excluded-address 192.168.27.1
ip dhcp excluded-address 192.168.98.1
ip dhcp excluded-address 192.168.44.1
ip dhcp excluded-address 192.168.55.1
ip dhcp excluded-address 192.168.66.1
ip dhcp excluded-address 192.168.77.1
ip dhcp excluded-address 192.168.88.1
ip dhcp excluded-address 192.168.99.1
ip dhcp excluded-address 192.168.33.1
ip dhcp excluded-address 192.168.100.1
ip dhcp excluded-address 192.168.22.1
!
ip dhcp pool VLAN30
  network 192.168.30.0 255.255.255.0
  default-router 192.168.30.1
  dns-server 8.8.8.8 1.1.1.1
!
ip dhcp pool VLAN40
  network 192.168.40.0 255.255.255.0
  default-router 192.168.40.1
  dns-server 8.8.8.8 1.1.1.1
!
!
```

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

!

!

username admin privilege 15 secret 9

\$9\$QLHeDA/dk7LTTv\$d2vgnn0M1.bsU8rpWhX3/1dmRC1pe5.WNiFCN0xaiA

A

!

redundancy

!

!

track 1 ip sla 1 reachability

!

ip tcp synwait-time 5

!

interface GigabitEthernet0/0

ip address 192.168.4.2 255.255.255.252

```
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/1
ip address 192.168.5.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/2
```

```
no ip address  
shutdown  
duplex auto  
speed auto  
media-type rj45  
!  
interface GigabitEthernet0/3  
no ip address  
shutdown  
duplex auto  
speed auto  
media-type rj45  
!  
interface GigabitEthernet0/4  
no ip address  
shutdown  
duplex auto  
speed auto  
media-type rj45  
!  
interface GigabitEthernet0/5  
no ip address  
duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/5.30
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
!
interface GigabitEthernet0/5.66
encapsulation dot1Q 66
ip address 192.168.66.1 255.255.255.0
!
interface GigabitEthernet0/5.100
encapsulation dot1Q 100
ip address 192.168.100.1 255.255.255.0
!
interface GigabitEthernet0/6
no ip address
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/6.40
encapsulation dot1Q 40
```

```
ip address 192.168.40.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/6.77
```

```
encapsulation dot1Q 77
```

```
ip address 192.168.77.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/7
```

```
ip address 192.168.3.2 255.255.255.252
```

```
ip ospf authentication message-digest
```

```
ip ospf message-digest-key 1 md5 SuperSecureKey
```

```
ip ospf network point-to-point
```

```
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 12
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/8
```

```
ip address 192.168.6.1 255.255.255.252
```

```
ip ospf authentication message-digest
```

```
ip ospf message-digest-key 1 md5 SuperSecureKey
```

```
ip ospf network point-to-point
```

```
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 13
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/9
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/10
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/11
```

```
no ip address
```

```
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/12
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/13
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/14
no ip address
shutdown
duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/15
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
router ospf 50
router-id 1.3.1.3
area 0 authentication message-digest
passive-interface default
no passive-interface GigabitEthernet0/0
no passive-interface GigabitEthernet0/1
no passive-interface GigabitEthernet0/7
no passive-interface GigabitEthernet0/8
network 192.168.3.0 0.0.0.3 area 0
network 192.168.4.0 0.0.0.3 area 0
network 192.168.5.0 0.0.0.3 area 0
network 192.168.6.0 0.0.0.3 area 0
network 192.168.30.0 0.0.0.255 area 0
```

```
network 192.168.40.0 0.0.0.255 area 0
network 192.168.66.0 0.0.0.255 area 0
network 192.168.77.0 0.0.0.255 area 0
network 192.168.100.0 0.0.0.255 area 0
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.4.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.5.1 10
ip route 0.0.0.0 0.0.0.0 192.168.3.1 20
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
ip access-list standard MGMT_ALLOW
permit 192.168.66.0 0.0.0.255
permit 192.168.77.0 0.0.0.255
deny any
!
ip sla 1
```

```
icmp-echo 192.168.5.1 source-interface GigabitEthernet0/0
threshold 500
frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
!
!
!
!
control-plane
line con 0
exec-timeout 0 0
privilege level 15
logging synchronous
line aux 0
exec-timeout 0 0
privilege level 15
logging synchronous
line vty 0 4
access-class MGMT_ALLOW in
transport input ssh
```

!

no scheduler allocate

!

End

VIOS-21

Building configuration...

Current configuration : 8024 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS3

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 9

\$9\$b57Gy3l7VXzjLf\$170.AHuTQGnwXcmknQc8CleEBzMgG3rhM07eyyfXDp.

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

!

aaa session-id common

mmi polling-interval 60

no mmi auto-configure

no mmi pvc

mmi snmp-timeout 180

!

!

!

!

!

no ip icmp rate-limit unreachable

!

ip dhcp excluded-address 192.168.1.1

ip dhcp excluded-address 192.168.2.1
ip dhcp excluded-address 192.168.3.1
ip dhcp excluded-address 192.168.4.1
ip dhcp excluded-address 192.168.5.1
ip dhcp excluded-address 192.168.6.1
ip dhcp excluded-address 192.168.7.1
ip dhcp excluded-address 192.168.8.1
ip dhcp excluded-address 192.168.9.1
ip dhcp excluded-address 192.168.11.1
ip dhcp excluded-address 192.168.13.1
ip dhcp excluded-address 192.168.14.1
ip dhcp excluded-address 192.168.16.1
ip dhcp excluded-address 192.168.17.1
ip dhcp excluded-address 192.168.19.1
ip dhcp excluded-address 192.168.21.1
ip dhcp excluded-address 192.168.23.1
ip dhcp excluded-address 192.168.24.1
ip dhcp excluded-address 192.168.26.1
ip dhcp excluded-address 192.168.27.1
ip dhcp excluded-address 192.168.98.1
ip dhcp excluded-address 192.168.44.1
ip dhcp excluded-address 192.168.55.1
ip dhcp excluded-address 192.168.66.1

```
ip dhcp excluded-address 192.168.77.1
ip dhcp excluded-address 192.168.88.1
ip dhcp excluded-address 192.168.99.1
ip dhcp excluded-address 192.168.33.1
ip dhcp excluded-address 192.168.100.1
ip dhcp excluded-address 192.168.22.1
!
ip dhcp pool VLAN50
network 192.168.50.0 255.255.255.0
default-router 192.168.50.1
dns-server 8.8.8.8 1.1.1.1
!
ip dhcp pool VLAN60
network 192.168.60.0 255.255.255.0
default-router 192.168.60.1
dns-server 8.8.8.8 1.1.1.1
!
!
no ip domain lookup
ip domain name corp.local
ip cef
no ipv6 cef
```

!

multilink bundle-name authenticated

!

!

!

!

username admin privilege 15 secret 9
\$9\$qaUyGxn40jUlcP\$eePB0IZEELIr/.RPHZvqzn8Uc1Bkk4lG2LmVUaKoLoI

!

redundancy

!

!

track 1 ip sla 1 reachability

!

ip tcp synwait-time 5

!

interface GigabitEthernet0/0

ip address 192.168.8.2 255.255.255.252

ip ospf authentication message-digest

ip ospf message-digest-key 1 md5 SuperSecureKey

ip ospf network point-to-point

ip ospf hello-interval 1

ip ospf 50 area 0

```
ip ospf cost 10  
duplex auto  
speed auto  
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/1  
ip address 192.168.7.2 255.255.255.252  
ip ospf authentication message-digest  
ip ospf message-digest-key 1 md5 SuperSecureKey  
ip ospf network point-to-point  
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 11
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/2  
no ip address  
shutdown  
duplex auto  
speed auto  
media-type rj45
```

!

interface GigabitEthernet0/3

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/4

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/5

no ip address

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/5.50

encapsulation dot1Q 50

```
ip address 192.168.50.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/5.88
```

```
encapsulation dot1Q 88
```

```
ip address 192.168.88.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/5.100
```

```
encapsulation dot1Q 100
```

```
ip address 192.168.100.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/6
```

```
no ip address
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/6.60
```

```
encapsulation dot1Q 60
```

```
ip address 192.168.60.1 255.255.255.0
```

```
!
```

```
interface GigabitEthernet0/6.99
```

```
encapsulation dot1Q 99
```

```
ip address 192.168.99.1 255.255.255.0
```

!

```
interface GigabitEthernet0/7
ip address 192.168.6.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 12
duplex auto
speed auto
media-type rj45
```

!

```
interface GigabitEthernet0/8
no ip address
shutdown
duplex auto
speed auto
media-type rj45
```

!

```
interface GigabitEthernet0/9
no ip address
shutdown
```

```
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/10
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/11
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/12
no ip address
shutdown
duplex auto
speed auto
```

media-type rj45

!

interface GigabitEthernet0/13

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/14

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/15

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

```
router ospf 50
  router-id 1.4.1.4
    area 0 authentication message-digest
    passive-interface default
    no passive-interface GigabitEthernet0/0
    no passive-interface GigabitEthernet0/1
    no passive-interface GigabitEthernet0/7
    network 192.168.6.0 0.0.0.3 area 0
    network 192.168.7.0 0.0.0.3 area 0
    network 192.168.8.0 0.0.0.3 area 0
    network 192.168.50.0 0.0.0.255 area 0
    network 192.168.60.0 0.0.0.255 area 0
    network 192.168.88.0 0.0.0.255 area 0
    network 192.168.99.0 0.0.0.255 area 0
    network 192.168.100.0 0.0.0.255 area 0
  !
  ip forward-protocol nd
  !
  !
  no ip http server
  no ip http secure-server
  ip route 0.0.0.0 0.0.0.0 192.168.8.1 track 1
  ip route 0.0.0.0 0.0.0.0 192.168.7.1 10
```

```
ip route 0.0.0.0 0.0.0.0 192.168.6.1 11
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
ip access-list standard MGMT_ALLOW
permit 192.168.99.0 0.0.0.255
permit 192.168.88.0 0.0.0.255
deny any
!
ip sla 1
icmp-echo 192.168.7.1 source-interface GigabitEthernet0/0
threshold 500
frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
!
!
!
!
control-plane
```

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

access-class MGMT_ALLOW in

transport input ssh

!

no scheduler allocate

!

End

VIOS-32

Building configuration...

Current configuration : 5417 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS4

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 9

\$9\$MXdvATq0mQt.AP\$9tEgVqWYZiLNAhbRGu7Coc7QdMTVfYrI5Ev9Xv1C
/Uo

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

aaa session-id common

mmi polling-interval 60

no mmi auto-configure

no mmi pvc

mmi snmp-timeout 180

!

!

!

!

!

no ip icmp rate-limit unreachable

!

!

!

!

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

```
!
!
username admin privilege 15 secret 9
$9$PRbKAvOmsTHj59$oLY0s6ceoTvIdf4YgfSZCfPuUYrZCJUSZ9m/kjwRrxk
!
redundancy
!
!
track 1 ip sla 1 reachability
!
ip tcp synwait-time 5
interface GigabitEthernet0/0
ip address 192.168.13.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/1
    ip address 192.168.14.2 255.255.255.252
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 11
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/2
    no ip address
    shutdown
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/3
    no ip address
    shutdown
    duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/4
ip address 192.168.9.1 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 100
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/5
ip address 192.168.12.1 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 12
```

```
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/6
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/7
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
router ospf 50
router-id 1.5.1.5
area 0 authentication message-digest
passive-interface default
no passive-interface GigabitEthernet0/0
```

```
no passive-interface GigabitEthernet0/1
no passive-interface GigabitEthernet0/4
no passive-interface GigabitEthernet0/5
network 192.168.9.0 0.0.0.3 area 0
network 192.168.12.0 0.0.0.3 area 0
network 192.168.13.0 0.0.0.3 area 0
network 192.168.14.0 0.0.0.3 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.13.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.14.1 10
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
ip access-list standard MGMT_ALLOW
permit 192.168.33.0 0.0.0.255
deny any
!
ip sla 1
```

```
icmp-echo 192.168.14.1 source-interface GigabitEthernet0/0
threshold 500
frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
!
!
!
!
!
control-plane
!
line con 0
exec-timeout 0 0
privilege level 15
logging synchronous
line aux 0
exec-timeout 0 0
privilege level 15
logging synchronous
line vty 0 4
access-class MGMT_ALLOW in
```

transport input ssh

!

no scheduler allocate

!

End

VIOS-33

Building configuration...

Current configuration : 5584 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS5

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

```
enable secret 9
$9$BsxNP9fGsN3SE9$ykLP9TpRoR10oPKpb2KscW6E.ALtqzJrM3gLxvRBsww
!
aaa new-model
!
!
aaa authentication login default local
!
!
!
!
!
!
aaa session-id common
!
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
!
!
!
!
```

no ip icmp rate-limit unreachable

!

!

!

!

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

!

!

username admin privilege 15 secret 9

\$9\$cz1c0kLDZU99Mf\$CJYoNLW.RVhneuFHcxqUlxCi.Y0RgMddXsIVhGV96x

A

!

redundancy

!

!

```
track 1 ip sla 1 reachability
ip tcp synwait-time 5
interface GigabitEthernet0/0
ip address 192.168.17.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/1
ip address 192.168.16.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/2
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/3
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/4
ip address 192.168.11.1 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
ip ospf cost 100
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/5
ip address 192.168.12.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
ip ospf cost 12
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/6
no ip address
shutdown
duplex auto
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/7
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
router ospf 50
```

```
router-id 1.6.1.6
```

```
area 0 authentication message-digest
```

```
passive-interface default
```

```
no passive-interface GigabitEthernet0/0
```

```
no passive-interface GigabitEthernet0/1
```

```
no passive-interface GigabitEthernet0/4
```

```
no passive-interface GigabitEthernet0/5
```

```
network 192.168.11.0 0.0.0.3 area 0
```

```
network 192.168.12.0 0.0.0.3 area 0
```

```
network 192.168.16.0 0.0.0.3 area 0
```

```
network 192.168.17.0 0.0.0.3 area 0
```

```
!
```

```
ip forward-protocol nd
```

!

no ip http server

no ip http secure-server

ip route 0.0.0.0 0.0.0.0 192.168.17.1 track 1

ip route 0.0.0.0 0.0.0.0 192.168.16.1 10

ip route 0.0.0.0 0.0.0.0 192.168.12.1 20

ip ssh time-out 60

ip ssh authentication-retries 2

ip ssh version 2

!

ip access-list standard MGMT_ALLOW

permit 192.168.33.0 0.0.0.255

permit 192.168.70.0 0.0.0.255

permit 192.168.80.0 0.0.0.255

permit 192.168.90.0 0.0.0.255

permit 192.168.69.0 0.0.0.255

deny any

!

ip sla 1

icmp-echo 192.168.16.1 source-interface GigabitEthernet0/0

threshold 500

frequency 5

ip sla schedule 1 life forever start-time now

logging trap warnings

ipv6 ioam timestamp

!

!

!

!

!

control-plane

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

access-class MGMT_ALLOW in

transport input ssh

!

no scheduler allocate

!

End

VIOS-24

Building configuration...

Current configuration : 8175 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS01

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 9

\$9\$xmm0x0rksOGLt9\$yuO5WNSwE4jE.0qhf9xupNXrf9Y0H/4nsy0CtaKNzrg

!

aaa new-model

!

!

```
aaa authentication login default local
```

```
!
```

```
!
```

```
!
```

```
!
```

```
aaa session-id common
```

```
!
```

```
mmi polling-interval 60
```

```
no mmi auto-configure
```

```
no mmi pvc
```

```
mmi snmp-timeout 180
```

```
!
```

```
!
```

```
!
```

```
!
```

```
no ip icmp rate-limit unreachable
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

!

!

username admin privilege 15 secret 9

\$9\$0eZwSdIBdFRiGv\$xWRIH2BSmBsQJQdVQYpcZmWX7ogxWIKeHnBGmz
plj/o

!

Redundancy

track 1 ip sla 1 reachability

!

ip tcp synwait-time 5

!

interface GigabitEthernet0/0

ip address 192.168.21.2 255.255.255.252

ip ospf authentication message-digest

ip ospf message-digest-key 1 md5 SuperSecureKey

```
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/1
ip address 192.168.22.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/2
no ip address
shutdown
```

```
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/3
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/4
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/5
ip address 192.168.1.1 255.255.255.252
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
```

```
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 150
duplex auto
speed auto
media-type rj45
```

!

```
interface GigabitEthernet0/6
ip address 192.168.4.1 255.255.255.252
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 140
duplex auto
speed auto
media-type rj45
```

!

```
interface GigabitEthernet0/7
ip address 192.168.7.1 255.255.255.252
```

```
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 130
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/8
ip address 192.168.19.1 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 120
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/9
    ip address 192.168.13.1 255.255.255.252
    ip access-group FROM-USERS in
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 100
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/10
    ip address 192.168.16.1 255.255.255.252
    ip access-group FROM-USERS in
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 110
    duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/11
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/12
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/13
no ip address
shutdown
duplex auto
speed auto
media-type rj45
```

!

interface GigabitEthernet0/14

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

interface GigabitEthernet0/15

no ip address

shutdown

duplex auto

speed auto

media-type rj45

!

router ospf 50

router-id 2.3.2.3

area 0 authentication message-digest

passive-interface default

no passive-interface GigabitEthernet0/0

no passive-interface GigabitEthernet0/1

no passive-interface GigabitEthernet0/5

no passive-interface GigabitEthernet0/6

```
no passive-interface GigabitEthernet0/7
no passive-interface GigabitEthernet0/8
no passive-interface GigabitEthernet0/9
no passive-interface GigabitEthernet0/10
network 192.168.1.0 0.0.0.3 area 0
network 192.168.4.0 0.0.0.3 area 0
network 192.168.7.0 0.0.0.3 area 0
network 192.168.13.0 0.0.0.3 area 0
network 192.168.16.0 0.0.0.3 area 0
network 192.168.19.0 0.0.0.3 area 0
network 192.168.21.0 0.0.0.3 area 0
network 192.168.22.0 0.0.0.3 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.21.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.22.1 10
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
```

```
ip access-list extended FROM-USERS
permit ip host 192.168.70.50 host 192.168.100.17
permit tcp 192.168.10.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.20.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.30.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.40.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.50.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.60.0 0.0.0.255 host 192.168.100.17 eq www
deny icmp 192.168.20.0 0.0.0.255 host 192.168.100.17
deny icmp 192.168.10.0 0.0.0.255 host 192.168.100.17
deny icmp 192.168.30.0 0.0.0.255 host 192.168.100.17
deny icmp 192.168.40.0 0.0.0.255 host 192.168.100.17
deny icmp 192.168.50.0 0.0.0.255 host 192.168.100.17
deny icmp 192.168.60.0 0.0.0.255 host 192.168.100.17
permit ip any any
!
ip sla 1
  icmp-echo 192.168.22.1 source-interface GigabitEthernet0/0
  threshold 500
  frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
```

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

transport input ssh

!

no scheduler allocate

!

End

VIOS-25

Building configuration...

Current configuration : 8210 bytes

!

version 15.9

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname MS02

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 9

\$9\$rT985gifHOoWhv\$3s4eKQCZrehC45gyZDD93QRwwuEZM.t/vngCJhkBV3
k

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

aaa session-id common

mmi polling-interval 60

no mmi auto-configure

no mmi pvc

mmi snmp-timeout 180

!

!

!

!

!

no ip icmp rate-limit unreachable

!

!

!

!

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

multilink bundle-name authenticated

!

!

```
!
!
username admin privilege 15 secret 9
$9$6e0fMjbO.hHxhv$cnQUSFVnSs9qOboVGMZwx3FAa0jONQfDsr85WpCEa
0Y
!
redundancy
!
track 1 ip sla 1 reachability
!
ip tcp synwait-time 5
!
interface GigabitEthernet0/0
ip address 192.168.24.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/1
    ip address 192.168.23.2 255.255.255.252
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 11
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/2
    no ip address
    shutdown
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/3
    no ip address
    shutdown
    duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/4
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/5
ip address 192.168.5.1 255.255.255.252
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 16
duplex auto
speed auto
media-type rj45
!
```

```
interface GigabitEthernet0/6
    ip address 192.168.8.1 255.255.255.252
    ip access-group FROM-USERS in
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 17
    duplex auto
    speed auto
    media-type rj45
!
interface GigabitEthernet0/7
    ip address 192.168.2.1 255.255.255.252
    ip access-group FROM-USERS in
    ip ospf authentication message-digest
    ip ospf message-digest-key 1 md5 SuperSecureKey
    ip ospf network point-to-point
    ip ospf hello-interval 1
    ip ospf 50 area 0
    ip ospf cost 15
    duplex auto
```

```
speed auto
media-type rj45
!
interface GigabitEthernet0/8
ip address 192.168.19.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 14
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/9
ip address 192.168.14.1 255.255.255.252
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
```

```
ip ospf cost 12
duplex auto
speed auto
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/10
ip address 192.168.17.1 255.255.255.252
ip access-group FROM-USERS in
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
```

```
ip ospf 50 area 0
```

```
ip ospf cost 13
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/11
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/12
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/13
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/14
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
media-type rj45
```

```
!
```

```
interface GigabitEthernet0/15
no ip address
shutdown
duplex auto
speed auto
media-type rj45
!
router ospf 50
router-id 2.2.2.2
area 0 authentication message-digest
passive-interface default
no passive-interface GigabitEthernet0/0
no passive-interface GigabitEthernet0/1
no passive-interface GigabitEthernet0/5
no passive-interface GigabitEthernet0/6
no passive-interface GigabitEthernet0/7
no passive-interface GigabitEthernet0/8
no passive-interface GigabitEthernet0/9
no passive-interface GigabitEthernet0/10
network 192.168.2.0 0.0.0.3 area 0
network 192.168.5.0 0.0.0.3 area 0
network 192.168.8.0 0.0.0.3 area 0
network 192.168.14.0 0.0.0.3 area 0
```

```
network 192.168.17.0 0.0.0.3 area 0
network 192.168.19.0 0.0.0.3 area 0
network 192.168.23.0 0.0.0.3 area 0
network 192.168.24.0 0.0.0.3 area 0
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.24.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.23.1 10
ip route 0.0.0.0 0.0.0.0 192.168.19.1 15
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
ip access-list extended FROM-USERS
permit ip host 192.168.70.50 host 192.168.100.17
permit tcp 192.168.10.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.20.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.30.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.40.0 0.0.0.255 host 192.168.100.17 eq www
```

```
permit tcp 192.168.50.0 0.0.0.255 host 192.168.100.17 eq www
permit tcp 192.168.60.0 0.0.0.255 host 192.168.100.17 eq www
deny  icmp 192.168.20.0 0.0.0.255 host 192.168.100.17
deny  icmp 192.168.10.0 0.0.0.255 host 192.168.100.17
deny  icmp 192.168.30.0 0.0.0.255 host 192.168.100.17
deny  icmp 192.168.40.0 0.0.0.255 host 192.168.100.17
deny  icmp 192.168.50.0 0.0.0.255 host 192.168.100.17
deny  icmp 192.168.60.0 0.0.0.255 host 192.168.100.17
permit ip any any
!
ip sla 1
  icmp-echo 192.168.23.1 source-interface GigabitEthernet0/0
  threshold 500
  frequency 5
ip sla schedule 1 life forever start-time now
logging trap warnings
ipv6 ioam timestamp
!
!
!
!
control-plane
```

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

transport input ssh

!

no scheduler allocate

!

End

ROUTER-7206-IT Service

Building configuration...

Current configuration : 4519 bytes

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

!

hostname AdminRouter

!

boot-start-marker

boot-end-marker

!

!

logging buffered 50000 warnings

enable secret 5 \$1\$nCsa\$QDhijH2G51pqsjtTXx/q1/

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

!

aaa session-id common

no ip icmp rate-limit unreachable

!

ip dhcp excluded-address 192.168.1.1

```
ip dhcp excluded-address 192.168.2.1
ip dhcp excluded-address 192.168.3.1
ip dhcp excluded-address 192.168.4.1
ip dhcp excluded-address 192.168.5.1
ip dhcp excluded-address 192.168.6.1
ip dhcp excluded-address 192.168.7.1
ip dhcp excluded-address 192.168.8.1
ip dhcp excluded-address 192.168.9.1
ip dhcp excluded-address 192.168.11.1
ip dhcp excluded-address 192.168.13.1
ip dhcp excluded-address 192.168.14.1
ip dhcp excluded-address 192.168.16.1
ip dhcp excluded-address 192.168.17.1
ip dhcp excluded-address 192.168.19.1
ip dhcp excluded-address 192.168.21.1
ip dhcp excluded-address 192.168.23.1
ip dhcp excluded-address 192.168.24.1
ip dhcp excluded-address 192.168.26.1
ip dhcp excluded-address 192.168.27.1
ip dhcp excluded-address 192.168.98.1
ip dhcp excluded-address 192.168.44.1
ip dhcp excluded-address 192.168.55.1
ip dhcp excluded-address 192.168.66.1
```

```
ip dhcp excluded-address 192.168.77.1  
ip dhcp excluded-address 192.168.88.1  
ip dhcp excluded-address 192.168.99.1  
ip dhcp excluded-address 192.168.33.1  
ip dhcp excluded-address 192.168.100.1  
ip dhcp excluded-address 192.168.22.1
```

!

no ip domain lookup

ip domain name corp.local

ip cef

no ipv6 cef

!

!

multilink bundle-name authenticated

!

!

!

!

!

!

!

11

```
username admin privilege 15 secret 5 $1$99nu$recXBgkpSbSHUPIPqjEg1
```

!

```
!
!
!
!
ip tcp synwait-time 5
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
track 1 ip sla 1 reachability
!
interface FastEthernet0/0
ip address 192.168.9.2 255.255.255.252
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex full
!
interface FastEthernet1/0
ip address 192.168.11.2 255.255.255.252
```

```
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex full
!
interface FastEthernet2/0
no ip address
shutdown
duplex full
!
interface FastEthernet3/0
no ip address
shutdown
duplex full
!
interface FastEthernet4/0
no ip address
duplex full
!
interface FastEthernet4/0.33
```

```
encapsulation dot1Q 33
ip address 192.168.33.1 255.255.255.0
!
interface FastEthernet4/0.69
encapsulation dot1Q 69
ip address 192.168.69.1 255.255.255.0
ip access-group TO-1C out
!
interface FastEthernet4/0.70
encapsulation dot1Q 70
ip address 192.168.70.1 255.255.255.0
!
interface FastEthernet4/0.80
encapsulation dot1Q 80
ip address 192.168.80.1 255.255.255.0
!
interface FastEthernet4/0.90
encapsulation dot1Q 90
ip address 192.168.90.1 255.255.255.0
!
interface FastEthernet4/0.100
encapsulation dot1Q 100
ip address 192.168.100.1 255.255.255.0
```

!

interface FastEthernet5/0

no ip address

shutdown

duplex full

!

interface FastEthernet6/0

no ip address

shutdown

duplex full

!

router ospf 50

router-id 2.1.2.1

area 0 authentication message-digest

passive-interface default

no passive-interface FastEthernet0/0

no passive-interface FastEthernet1/0

network 192.168.9.0 0.0.0.3 area 0

network 192.168.11.0 0.0.0.3 area 0

network 192.168.33.0 0.0.0.255 area 0

network 192.168.69.0 0.0.0.255 area 0

network 192.168.70.0 0.0.0.255 area 0

network 192.168.80.0 0.0.0.255 area 0

```
network 192.168.90.0 0.0.0.255 area 0
network 192.168.100.0 0.0.0.255 area 0
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.9.1 track 1
ip route 0.0.0.0 0.0.0.0 192.168.11.1 10
!
ip access-list standard MGMT_ALLOW
permit 192.168.33.0 0.0.0.255
deny any
ip access-list standard TO-1C
permit 192.168.60.0 0.0.0.255
permit 192.168.70.0 0.0.0.255
!
ip sla 1
icmp-echo 192.168.11.1 source-interface FastEthernet0/0
threshold 500
frequency 5
ip sla schedule 1 life forever start-time now
```

```
logging trap warnings
```

```
!
```

```
!
```

```
!
```

```
control-plane
```

```
!
```

```
line con 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
stopbits 1
```

```
line aux 0
```

```
exec-timeout 0 0
```

```
privilege level 15
```

```
logging synchronous
```

```
stopbits 1
```

```
line vty 0 4
```

```
access-class MGMT_ALLOW in
```

```
transport input ssh
```

```
!
```

```
!
```

```
End
```

ROUTER-7206 – PERIMETER-FW1

Current configuration : 3242 bytes

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

!

hostname PERIMETER-FW1

!

boot-start-marker

boot-end-marker

!

!

enable secret 5 \$1\$.5nK\$KqTl eZ820NBsI.0is7S0g0

!

aaa new-model

!

!

aaa authentication login default local

!

!

!

!

!

aaa session-id common

no ip icmp rate-limit unreachable

!

ip domain lookup recursive

ip domain name corp.local

ip name-server 8.8.8.8

ip name-server 1.1.1.1

ip cef

no ipv6 cef

!

!

multilink bundle-name authenticated

!

!

!

!

!

!

!

username admin privilege 15 secret 5 \$1\$3JGk\$wcDfkACzM3NNKp23Y/V/L0

!

ip tcp synwait-time 5

```
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
track 18 ip sla 18 reachability
!
interface FastEthernet0/0
ip address dhcp
ip nat outside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex full
!
interface FastEthernet1/0
no ip address
shutdown
duplex full
!
interface FastEthernet2/0
```

```
no ip address
shutdown
duplex full
!
interface FastEthernet3/0
no ip address
shutdown
duplex full
!
interface FastEthernet4/0
ip address 192.168.21.1 255.255.255.252
ip nat inside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 100
duplex full
!
interface FastEthernet5/0
ip address 192.168.23.1 255.255.255.252
ip nat inside
```

```
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 110
duplex full
!
interface FastEthernet6/0
ip address 192.168.26.1 255.255.255.252
ip nat inside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 11
duplex full
!
router ospf 50
router-id 10.10.10.10
area 0 authentication message-digest
passive-interface default
```

```
no passive-interface FastEthernet0/0
no passive-interface FastEthernet4/0
no passive-interface FastEthernet5/0
no passive-interface FastEthernet6/0
network 192.168.21.0 0.0.0.3 area 0
network 192.168.23.0 0.0.0.3 area 0
network 192.168.26.0 0.0.0.3 area 0
default-information originate
```

```
!
```

```
ip nat inside source list FOR-NAT interface FastEthernet0/0 overload
```

```
ip forward-protocol nd
```

```
!
```

```
!
```

```
no ip http server
```

```
no ip http secure-server
```

```
ip route 0.0.0.0 0.0.0.0 dhcp
```

```
!
```

```
ip access-list standard FOR-NAT
```

```
permit 192.168.10.0 0.0.0.255
```

```
permit 192.168.20.0 0.0.0.255
```

```
permit 192.168.30.0 0.0.0.255
```

```
permit 192.168.40.0 0.0.0.255
```

```
permit 192.168.50.0 0.0.0.255
```

```
permit 192.168.60.0 0.0.0.255
permit 192.168.70.0 0.0.0.255
!
ip sla 18
  icmp-echo 8.8.8.8 source-interface FastEthernet0/0
  threshold 500
  frequency 5
ip sla schedule 18 life forever start-time now
logging trap warnings
!
!
!
!
control-plane
!
!
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
  stopbits 1
line aux 0
  exec-timeout 0 0
```

```
privilege level 15  
logging synchronous  
stopbits 1  
line vty 0 4  
transport input telnet
```

!

!

End

RIUTER-7206 – PERIMETER-FW2

Building configuration...

Current configuration : 3133 bytes

!

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

!

hostname PERIMETER-FW2

!

boot-start-marker

boot-end-marker

!

!

```
enable secret 5 $1$QMFm$SjhuWyWKHj.vMpQFYsynl1
```

```
!
```

```
aaa new-model
```

```
!
```

```
!
```

```
aaa authentication login default local
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
aaa session-id common
```

```
no ip icmp rate-limit unreachable
```

```
!
```

```
ip domain name corp.local
```

```
ip cef
```

```
no ipv6 cef
```

```
!
```

```
!
```

```
multilink bundle-name authenticated
```

```
!
```

```
!
```

```
!
```

```
!
!
!
!
username admin privilege 15 secret 5 $1$okSe$bMiQ4CncQmpy/2kUo97qM/
!
ip tcp synwait-time 5
ip ssh time-out 60
ip ssh authentication-retries 2
ip ssh version 2
!
track 18 ip sla 18 reachability
!
interface FastEthernet0/0
ip address dhcp
ip nat outside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 10
duplex full
```

!

interface FastEthernet1/0

no ip address

shutdown

duplex full

!

interface FastEthernet2/0

no ip address

shutdown

duplex full

!

interface FastEthernet3/0

no ip address

shutdown

duplex full

!

interface FastEthernet4/0

ip address 192.168.24.1 255.255.255.252

ip nat inside

ip ospf authentication message-digest

ip ospf message-digest-key 1 md5 SuperSecureKey

ip ospf network point-to-point

ip ospf hello-interval 1

```
ip ospf 50 area 0
ip ospf cost 100
duplex full
!
interface FastEthernet5/0
ip address 192.168.22.1 255.255.255.252
ip nat inside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
ip ospf cost 110
duplex full
!
interface FastEthernet6/0
ip address 192.168.26.2 255.255.255.252
ip nat inside
ip ospf authentication message-digest
ip ospf message-digest-key 1 md5 SuperSecureKey
ip ospf network point-to-point
ip ospf hello-interval 1
ip ospf 50 area 0
```

```
duplex full
!
router ospf 50
  router-id 11.11.11.11
  area 0 authentication message-digest
    passive-interface default
    no passive-interface FastEthernet0/0
    no passive-interface FastEthernet4/0
    no passive-interface FastEthernet5/0
    no passive-interface FastEthernet6/0
    network 192.168.22.0 0.0.0.3 area 0
    network 192.168.24.0 0.0.0.3 area 0
    network 192.168.26.0 0.0.0.3 area 0
    default-information originate
!
ip nat inside source list FOR-NAT interface FastEthernet0/0 overload
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 dhcp
!
```

```
ip access-list standard FOR-NAT
```

```
    permit 192.168.10.0 0.0.0.255
```

```
    permit 192.168.20.0 0.0.0.255
```

```
    permit 192.168.30.0 0.0.0.255
```

```
    permit 192.168.40.0 0.0.0.255
```

```
    permit 192.168.50.0 0.0.0.255
```

```
    permit 192.168.60.0 0.0.0.255
```

```
    permit 192.168.70.0 0.0.0.255
```

```
!
```

```
ip sla 18
```

```
    icmp-echo 192.168.26.1 source-interface FastEthernet0/0
```

```
    threshold 500
```

```
    frequency 5
```

```
ip sla schedule 18 life forever start-time now
```

```
logging trap warnings
```

```
!
```

```
!
```

```
!
```

```
control-plane
```

```
!
```

```
!
```

```
line con 0
```

```
exec-timeout 0 0
privilege level 15
logging synchronous
stopbits 1
line aux 0
exec-timeout 0 0
privilege level 15
logging synchronous
stopbits 1
line vty 0 4
!
!
```

End