

# Running Configuration for the Network Devices

**Password for SSH, Privileged Exec mode: cisco**

**Password for Console , VTY: project**

## S1

Current configuration : 2336 bytes

!

version 15.0

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname S1

!

enable secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

ip domain-name example.com

!

username admin secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport trunk native vlan 100

switchport trunk allowed vlan 40,50,60,100

switchport mode trunk

!

interface FastEthernet0/2

```
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0000.0C20.5BEA
!
interface FastEthernet0/3
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 000A.416C.4101
!
interface FastEthernet0/4
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0007.EC99.4D71
!
interface FastEthernet0/5
switchport access vlan 50
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0004.9AE0.93C8
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
```

```
!  
interface FastEthernet0/16  
!  
interface FastEthernet0/17  
!  
interface FastEthernet0/18  
!  
interface FastEthernet0/19  
!  
interface FastEthernet0/20  
!  
interface FastEthernet0/21  
!  
interface FastEthernet0/22  
!  
interface FastEthernet0/23  
!  
interface FastEthernet0/24  
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
no ip address  
shutdown  
!  
banner motd ^CUnauthorized access to this device is prohibited!^C  
!  
!  
!  
line con 0  
password 7 08315E41031C0603  
logging synchronous  
login  
exec-timeout 0 0  
!  
line vty 0 4  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 5 14  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 15
```

```
login local
transport input ssh
!
!
!
!
end
```

## S2

Current configuration : 2356 bytes

```
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname S2
!
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
no ip domain-lookup
ip domain-name example.com
!
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk native vlan 100
switchport trunk allowed vlan 40,50,60,100
switchport mode trunk
!
interface FastEthernet0/2
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
```

```
switchport port-security mac-address sticky 0001.9795.C1AC
!
interface FastEthernet0/3
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0001.64E5.DE35
!
interface FastEthernet0/4
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 00D0.BA75.33D2
!
interface FastEthernet0/5
switchport access vlan 60
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0060.3E8B.81DB
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
```

```
!  
interface FastEthernet0/18  
!  
interface FastEthernet0/19  
!  
interface FastEthernet0/20  
!  
interface FastEthernet0/21  
!  
interface FastEthernet0/22  
!  
interface FastEthernet0/23  
!  
interface FastEthernet0/24  
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
no ip address  
shutdown  
!  
banner motd ^CUnauthorized access to this device is prohibited!^C  
!  
!  
!  
line con 0  
password 7 08315E41031C0603  
logging synchronous  
login  
exec-timeout 0 0  
!  
line vty 0 4  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 5 14  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 15  
login local  
transport input ssh  
!  
!
```

```
!  
!  
end
```

## S3

Building configuration...

Current configuration : 1907 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
service password-encryption  
!  
hostname S3  
!  
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport trunk native vlan 100  
switchport trunk allowed vlan 40,50,60,100  
switchport mode trunk  
!  
interface FastEthernet0/2  
switchport trunk native vlan 100
```

```
switchport trunk allowed vlan 40,50,60,100
switchport mode trunk
!
interface FastEthernet0/3
switchport trunk native vlan 100
switchport trunk allowed vlan 40,50,60,100
switchport mode trunk
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
```



```
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
!
interface Vlan100
ip address 192.168.3.3 255.255.255.0
!
ip default-gateway 192.168.3.1
!
banner motd ^CUnauthorized access to this device is prohibited!^C
!
!
!
line con 0
password 7 08315E41031C0603
logging synchronous
login
exec-timeout 0 0
!
line vty 0 4
password 7 08315E41031C0603
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
!
!
!
!
end
```

## S4

Current configuration : 3121 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
service password-encryption  
!  
hostname S4  
!  
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0  
!  
ip arp inspection vlan 20  
!  
ip dhcp snooping vlan 10,20,30  
ip dhcp snooping  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport trunk native vlan 100  
switchport trunk allowed vlan 10,20,30,100  
ip dhcp snooping trust  
ip dhcp snooping limit rate 5  
switchport mode trunk  
switchport port-security maximum 20
```

```
!  
interface FastEthernet0/2  
switchport access vlan 30  
ip arp inspection trust  
ip dhcp snooping trust  
switchport mode access  
switchport port-security  
switchport port-security mac-address sticky  
switchport port-security mac-address sticky 00E0.A3D6.92AA  
!  
interface FastEthernet0/3  
switchport access vlan 10  
ip dhcp snooping limit rate 5  
switchport mode access  
switchport port-security  
switchport port-security mac-address sticky  
switchport port-security mac-address sticky 0002.4ACD.CD52  
!  
interface FastEthernet0/4  
switchport access vlan 20  
ip dhcp snooping limit rate 5  
switchport mode access  
!  
interface FastEthernet0/5  
switchport access vlan 20  
ip dhcp snooping limit rate 5  
switchport mode access  
switchport port-security  
switchport port-security mac-address sticky  
switchport port-security mac-address sticky 0030.A363.98E0  
!  
interface FastEthernet0/6  
ip dhcp snooping limit rate 5  
!  
interface FastEthernet0/7  
ip dhcp snooping limit rate 5  
!  
interface FastEthernet0/8  
ip dhcp snooping limit rate 5  
!  
interface FastEthernet0/9  
ip dhcp snooping limit rate 5  
!  
interface FastEthernet0/10  
ip dhcp snooping limit rate 5  
!
```

```
interface FastEthernet0/11
ip dhcp snooping limit rate 5
!
interface FastEthernet0/12
ip dhcp snooping limit rate 5
!
interface FastEthernet0/13
ip dhcp snooping limit rate 5
!
interface FastEthernet0/14
ip dhcp snooping limit rate 5
!
interface FastEthernet0/15
ip dhcp snooping limit rate 5
!
interface FastEthernet0/16
ip dhcp snooping limit rate 5
!
interface FastEthernet0/17
ip dhcp snooping limit rate 5
!
interface FastEthernet0/18
ip dhcp snooping limit rate 5
!
interface FastEthernet0/19
ip dhcp snooping limit rate 5
!
interface FastEthernet0/20
ip dhcp snooping limit rate 5
!
interface FastEthernet0/21
ip dhcp snooping limit rate 5
!
interface FastEthernet0/22
ip dhcp snooping limit rate 5
!
interface FastEthernet0/23
ip dhcp snooping limit rate 5
!
interface FastEthernet0/24
ip dhcp snooping limit rate 5
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
```

```
interface Vlan1
no ip address
shutdown
!
banner motd ^CUnauthorized access to this device is prohibited!^C
!
!
!
line con 0
password 7 08315E41031C0603
logging synchronous
login
exec-timeout 0 0
!
line vty 0 4
password 7 08315E41031C0603
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
!
!
!
!
end
```

## S5

Current configuration : 2176 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
service password-encryption  
!  
hostname S5  
!  
enable secret 5 $1$mERr$hX5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
username admin secret 5 $1$mERr$hX5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport trunk native vlan 100  
switchport trunk allowed vlan 10,20,30,40,100  
switchport mode trunk  
!  
interface FastEthernet0/2  
switchport access vlan 10  
switchport mode access  
switchport port-security  
switchport port-security mac-address sticky
```

```
switchport port-security mac-address sticky 0001.6398.6781
!
interface FastEthernet0/3
switchport access vlan 20
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0060.4788.9640
!
interface FastEthernet0/4
switchport access vlan 10
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security mac-address sticky 00D0.BC32.5035
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
```

```
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
banner motd ^CUnauthorized access to this device is prohibited!^C
!
!
!
line con 0
password 7 08315E41031C0603
logging synchronous
login
exec-timeout 0 0
!
line vty 0 4
password 7 08315E41031C0603
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
!
!
!
!
end
```



## S6

Current configuration : 1917 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
service password-encryption  
!  
hostname S6  
!  
enable secret 5 $1$mERr$hX5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
username admin secret 5 $1$mERr$hX5rVt7rPNoS4wqbXKX7m0  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport trunk native vlan 100  
switchport trunk allowed vlan 10,20,30,100  
switchport mode trunk  
!  
interface FastEthernet0/2  
switchport trunk native vlan 100  
switchport trunk allowed vlan 10,20,30,100  
switchport mode trunk  
!
```

```
interface FastEthernet0/3
switchport trunk native vlan 100
switchport trunk allowed vlan 10,20,30,100
switchport mode trunk
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
```

```
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
no ip address  
shutdown  
!  
interface Vlan100  
ip address 192.168.4.4 255.255.255.0  
!  
ip default-gateway 192.168.4.1  
!  
banner motd ^CUnauthorized access to this device is prohibited!^C  
!  
!  
!  
line con 0  
password 7 08315E41031C0603  
logging synchronous  
login  
exec-timeout 0 0  
!  
line vty 0 4  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 5 14  
password 7 08315E41031C0603  
login local  
transport input ssh  
line vty 15  
login local  
transport input ssh  
!  
!  
!  
!  
end
```

# R1

Current configuration : 2442 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname R1

!

!

!

enable secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

!

!

!

ip cef

no ipv6 cef

!

!

!

username admin secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

license udi pid CISCO2901/K9 sn FTX152426S8-

!

!

!

!

!

!

```
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
ip address 192.168.3.1 255.255.255.0  
duplex auto  
speed auto  
!  
interface GigabitEthernet0/0.40  
description Default gateway for vlan 40  
encapsulation dot1Q 40  
ip address 192.168.40.1 255.255.255.0  
ip helper-address 192.168.30.25  
ip access-group BLOCK_VLAN40_VLAN50 in  
!  
interface GigabitEthernet0/0.50  
description Default gateway for vlan 50  
encapsulation dot1Q 50  
ip address 192.168.50.1 255.255.255.0  
ip helper-address 192.168.30.25  
!  
interface GigabitEthernet0/0.60  
description Default gateway for vlan 60  
encapsulation dot1Q 60  
ip address 192.168.60.1 255.255.255.0  
ip helper-address 192.168.30.25  
ip access-group 110 in  
!  
interface GigabitEthernet0/0.100  
encapsulation dot1Q 100  
ip address 192.168.100.1 255.255.255.0  
!  
interface GigabitEthernet0/1  
ip address 192.168.1.2 255.255.255.0  
duplex auto
```

```
speed auto
!
interface Vlan1
no ip address
shutdown
!
router ospf 1
log-adjacency-changes
network 192.168.1.0 0.0.0.255 area 0
network 192.168.3.0 0.0.0.255 area 0
network 192.168.40.0 0.0.0.255 area 0
network 192.168.100.0 0.0.0.255 area 0
network 192.168.50.0 0.0.0.255 area 0
network 192.168.60.0 0.0.0.255 area 0
!
ip classless
!
ip flow-export version 9
!
!
access-list 10 deny host 192.168.50.10
access-list 10 permit any
access-list 110 deny tcp host 192.168.60.10 host 192.168.30.25 eq www
access-list 110 permit ip any any
ip access-list extended BLOCK_VLAN50_VLAN40
deny ip host 192.168.50.0 host 192.168.40.0
permit ip any any
ip access-list extended BLOCK_VLAN40_VLAN50
deny ip 192.168.40.0 0.0.0.255 192.168.50.0 0.0.0.255
permit ip any any
!
banner motd ^CUnauthorized access to this device is prohibited!^C
!
!
!
!
line con 0
exec-timeout 0 0
password 7 08315E41031C0603
logging synchronous
login
!
line aux 0
!
line vty 0 4
password 7 08315E41031C0603
```

```
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
!
```

## R2

Current configuration : 1282 bytes

```
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname R2
!
!
!
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
license udi pid CISCO2901/K9 sn FTX1524CFZ1-
!
!
!
!
!
```

```
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
ip address 192.168.1.1 255.255.255.0  
duplex auto  
speed auto  
!  
interface GigabitEthernet0/1  
ip address 192.168.2.1 255.255.255.0  
duplex auto  
speed auto  
!  
interface Vlan1  
no ip address  
shutdown  
!  
router ospf 1  
log-adjacency-changes  
network 192.168.2.0 0.0.0.255 area 0  
network 192.168.1.0 0.0.0.255 area 0  
default-information originate  
!  
ip classless  
ip route 0.0.0.0 0.0.0.0 192.168.1.2  
!  
ip flow-export version 9  
!  
!  
!  
banner motd ^CUnauthorized access to this device is prohibited!^C  
!  
!  
!  
!
```



```
line con 0
exec-timeout 0 0
password 7 08315E41031C0603
logging synchronous
login
!
line aux 0
!
line vty 0 4
password 7 08315E41031C0603
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
!
!
!
end
```

## R3

Current configuration : 2057 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname R3

!

!

!

enable secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

!

!

!

ip cef

no ipv6 cef

!

!

!

username admin secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

!

!

license udi pid CISCO2901/K9 sn FTX1524VJO7-

!

!

!

!

!

!

```
!  
!  
!  
no ip domain-lookup  
ip domain-name example.com  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
ip address 192.168.4.1 255.255.255.0  
duplex auto  
speed auto  
!  
interface GigabitEthernet0/0.10  
description Default gateway for vlan 10  
encapsulation dot1Q 10  
ip address 192.168.10.1 255.255.255.0  
ip helper-address 192.168.30.25  
ip access-group 10 in  
!  
interface GigabitEthernet0/0.20  
description Default gateway for vlan 20  
encapsulation dot1Q 20  
ip address 192.168.20.1 255.255.255.0  
ip helper-address 192.168.30.25  
!  
interface GigabitEthernet0/0.30  
description Default gateway for vlan 30  
encapsulation dot1Q 30  
ip address 192.168.30.1 255.255.255.0  
!  
interface GigabitEthernet0/0.100  
encapsulation dot1Q 100  
ip address 192.168.100.1 255.255.255.0  
!  
interface GigabitEthernet0/1  
ip address 192.168.2.2 255.255.255.0  
duplex auto  
speed auto  
!
```

```
interface Vlan1
no ip address
shutdown
!
router ospf 1
router-id 2.2.2.2
log-adjacency-changes
network 192.168.10.0 0.0.0.255 area 0
network 192.168.20.0 0.0.0.255 area 0
network 192.168.30.0 0.0.0.255 area 0
network 192.168.100.0 0.0.0.255 area 0
network 192.168.4.0 0.0.0.255 area 0
network 192.168.2.0 0.0.0.255 area 0
!
ip classless
!
ip flow-export version 9
!
!
access-list 10 deny host 192.168.10.12
access-list 10 permit any
!
banner motd ^CUnauthorized access to this device is prohibited!^C
!
!
!
!
line con 0
exec-timeout 0 0
password 7 08315E41031C0603
logging synchronous
login
!
line aux 0
!
line vty 0 4
password 7 08315E41031C0603
login local
transport input ssh
line vty 5 14
password 7 08315E41031C0603
login local
transport input ssh
line vty 15
login local
transport input ssh
```

!  
!  
!  
end