R1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname R1

!

!

!

enable password cisco

!

!

ip dhcp excluded-address 172.16.10.254

ip dhcp excluded-address 172.16.11.254

ip dhcp excluded-address 172.16.20.254

ip dhcp excluded-address 172.16.30.254

ip dhcp excluded-address 172.16.99.254

ip dhcp excluded-address 172.16.99.1

ip dhcp excluded-address 172.16.99.2

ip dhcp excluded-address 172.16.99.3

ip dhcp excluded-address 172.16.99.4

ip dhcp excluded-address 172.16.99.5

ip dhcp excluded-address 172.16.99.6

ip dhcp excluded-address 172.16.99.10

ip dhcp excluded-address 172.16.99.9

ip dhcp excluded-address 172.16.99.8

ip dhcp excluded-address 172.16.99.7

ip dhcp excluded-address 172.16.99.253

!

ip dhcp pool VLAN10

network 172.16.10.0 255.255.255.0

default-router 172.16.10.254

ip dhcp pool VLAN11

network 172.16.11.0 255.255.255.0

default-router 172.16.11.254

ip dhcp pool VLAN20

network 172.16.20.0 255.255.255.0

default-router 172.16.20.254

ip dhcp pool VLAN30

network 172.16.30.0 255.255.255.0

default-router 172.16.30.254

ip dhcp pool VLAN99

network 172.16.99.0 255.255.255.0

default-router 172.16.99.254

!

!

aaa new-model

!

aaa authentication login TACACS group tacacs+

!

!

!

!

!

!

!

ip cef

no ipv6 cef

!

!

!

username admin privilege 15 password 0 cisco

!

!

!

!

!

!

!

!

ip ssh version 2

ip domain-name SS

!

!

!

!

!

!

!

!

interface FastEthernet0/0

ip address 192.168.0.254 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

duplex auto

speed auto

!

interface FastEthernet0/1.10

encapsulation dot1Q 10

ip address 172.16.10.254 255.255.255.0

!

interface FastEthernet0/1.11

encapsulation dot1Q 11

ip address 172.16.11.254 255.255.255.0

!

interface FastEthernet0/1.20

encapsulation dot1Q 20

ip address 172.16.20.254 255.255.255.0

!

interface FastEthernet0/1.30

encapsulation dot1Q 30

ip address 172.16.30.254 255.255.255.0

!

interface FastEthernet0/1.99

encapsulation dot1Q 99

ip address 172.16.99.254 255.255.255.0

!

router rip

version 2

network 142.177.0.0

network 172.16.0.0

network 192.168.0.0

!

ip classless

ip route 0.0.0.0 0.0.0.0 192.168.0.250

!

ip flow-export version 9

!

!

!

banner motd ^C

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SS R1

Authorized Access ONLY

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

^C

!

tacacs-server host 172.16.99.253 key remote

!

!

!

!

line con 0

!

line aux 0

!

line vty 0

login authentication TACACS

transport input ssh

line vty 1 4

!

!

!

End

S1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname S1

!

!

!

ip ssh version 2

ip domain-name SS

!

username admin privilege 15 password 0 cisco

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport mode trunk

!

interface FastEthernet0/2

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/3

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/4

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/5

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/6

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/7

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/8

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/9

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/10

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/11

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/12

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/13

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/14

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/15

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/16

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/17

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/18

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/19

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/20

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/21

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/22

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/23

!

interface FastEthernet0/24

!

interface GigabitEthernet0/1

description Switch trunk

switchport mode trunk

!

interface GigabitEthernet0/2

description Switch trunk

switchport mode trunk

!

interface Vlan1

no ip address

shutdown

!

interface Vlan10

description Manufacturing VLAN 1

mac-address 00d0.bc8a.6701

no ip address

!

interface Vlan11

description Manufacturing VLAN 2

mac-address 00d0.bc8a.6702

no ip address

!

interface Vlan20

description Management/Marketing/Admin VLAN

mac-address 00d0.bc8a.6703

no ip address

!

interface Vlan30

description Finance VLAN

mac-address 00d0.bc8a.6704

no ip address

!

interface Vlan99

description Network Management VLAN

mac-address 00d0.bc8a.6705

ip address 172.16.99.1 255.255.255.0

!

ip default-gateway 172.16.99.254

!

banner motd ^C

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SS S1

Authorized Access ONLY

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

^C

!

!

!

line con 0

!

line vty 0

login

transport input none

line vty 1 4

login

line vty 5 15

login

!

!

!

!

End

S2

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname S2

!

!

!

ip ssh version 2

ip domain-name SS

!

username admin privilege 15 password 0 cisco

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

!

interface FastEthernet0/2

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/3

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/4

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/5

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/6

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/7

description VLAN 10 - Manufacturing

switchport access vlan 10

switchport mode access

!

interface FastEthernet0/8

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/9

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/10

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/11

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/12

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/13

description VLAN 11 - Manufacturing

switchport access vlan 11

switchport mode access

!

interface FastEthernet0/14

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/15

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/16

description Management/Marketing/Admin - VLAN 20

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/17

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/18

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/19

description Finance - VLAN 30

switchport access vlan 30

switchport mode access

!

interface FastEthernet0/20

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/21

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/22

description Network Management - VLAN 99

switchport access vlan 99

switchport mode access

!

interface FastEthernet0/23

!

interface FastEthernet0/24

!

interface GigabitEthernet0/1

description Switch trunk

switchport mode trunk

!

interface GigabitEthernet0/2

description Switch trunk

switchport mode trunk

!

interface Vlan1

no ip address

shutdown

!

interface Vlan10

description Manufacturing VLAN 1

mac-address 0060.70a2.7001

no ip address

!

interface Vlan11

description Manufacturing VLAN 2

mac-address 0060.70a2.7002

no ip address

!

interface Vlan20

description Management/Marketing/Admin VLAN

mac-address 0060.70a2.7003

no ip address

!

interface Vlan30

description Finance VLAN

mac-address 0060.70a2.7004

no ip address

!

interface Vlan99

description Network Management VLAN

mac-address 0060.70a2.7005

ip address 172.16.99.2 255.255.255.0

!

ip default-gateway 172.16.99.254

!

banner motd ^C

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SS S2

Authorized Access ONLY

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

^C

!

!

!

line con 0

!

line vty 0

login

transport input none

line vty 1 4

login

line vty 5 15

login

!

!

!

!

end

* All switches S2 – S10 have the same configurations minus the banner.
* Ssisp, ISP sw0, and Server 0 are all preconfigured for the assignment.