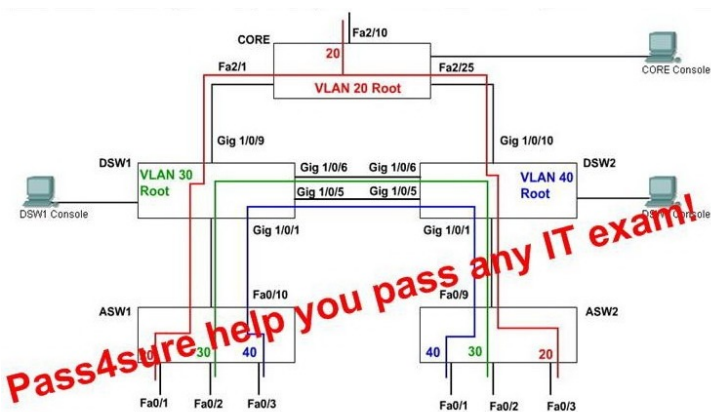


CCNP BCMSN(642-812) Lab – STP(New)

Acme is small export company that has an existing enterprise network comprised of 5 switches; CORE,DSW1,DSW2,ASW1 and ASW2. The topology diagram indicates their desired pre-VLAN spanning tree mapping. Previous configuration attempts have resulted in the following issues:

- CORE should be the root bridge for VLAN 20; however, DSW1 is currently the root bridge for VLAN 20.
- Traffic for VLAN 30 should be forwarding over the gig 1/0/6 trunk port between DSW1 and DSW2. However VLAN 30 is currently using gig 1/0/5.
- Traffic for VLAN 40 should be forwarding over the gig 1/0/5 trunk port between DSW1 and DSW2. However VLAN 40 is currently using gig 1/0/6.

You have been tasked with isolating the cause the these issuer and implementing the appropriate solutions. You task is complicated by the fact that you only have full access to DSW1, with isolating the cause of these issues and implementing the appropriate solutions, Your task is complicated by the fact that you only have full access to DSW1, with the enable secret password cisco. Only limited show command access is provided on CORE, and DSW2 using the enable 2 level with a password of acme. No configuration changes will be possible on these routers. No access is provided to ASW1 or ASW2.



```
hostname DSW1
!
enable secret 5 $1$wN16$j5RnayatKfxaKxhX30TVo0
!
no aaa new-model
switch 1 provision ws-c3750g-24t
ip subnet-zero
!
!
!
!
!
!
no file verify auto
!
spanning-tree mode pvst
spanning-tree extend system-id
spanning-tree vlan 20 priority 28672
spanning-tree vlan 30 priority 24576
!
vlan internal allocation policy ascending
!
!
interface GigabitEthernet1/0/1
description trunk line to ASW1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport nonegotiate
speed 100
duplex full
!
interface GigabitEthernet1/0/2
shutdown
!
interface GigabitEthernet1/0/3
shutdown
!
interface GigabitEthernet1/0/4
shutdown
!
interface GigabitEthernet1/0/5
description trunk line to DSW 2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport nonegotiate
speed 100
duplex full
!
interface GigabitEthernet1/0/6
description trunk line to DSW 2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport nonegotiate
speed 100
duplex full
!
interface GigabitEthernet1/0/7
shutdown
!
interface GigabitEthernet1/0/8
shutdown
!
interface GigabitEthernet1/0/9
description trunk line to CORE
switchport trunk encapsulation dot1q
switchport mode trunk
!
end
```

```
DSW1# show sp
DSW1# show spanning-tree
```

```
VLAN0001
Spanning tree enabled protocol ieee
Root ID    Priority    32769
Address    0016.4658.f300
Cost       19
Port       9 (GigabitEthernet1/0/9)
Hello Time 2 sec    Max Age 20 sec    Forward Delay 15 sec

Bridge ID  Priority    32769    (priority 32768 sys-id-ext 1)
Address    0016.46fa.9b00
Hello Time 2 sec    Max Age 20 sec    Forward Delay 15 sec
Aging Time 300

Interface Role Sts Cost Prio.Nbr Type
-----
Gil/0/1   Desg FWD 19    128.1 P2p
Gil/0/5   Altn BLK 19    128.6 P2p
Gil/0/6   Altn BLK 19    128.6 P2p
Gil/0/9   Root FWD 19    128.9 P2p
```

Solutions: DSW1#conf t DSW1(config)#spanning-tree vlan 20 priority 61440 DSW1(config)#int g1/0/5
 DSW1(config-if)#spanning-tree vlan 40 cost 1 DSW1(config-if)#no shut DSW1(config-if)#exit
DSW1(config)#int g1/0/6 DSW1(config-if)#spanning-tree vlan 30 port-priority 64 DSW1(config-if)#no shut
DSW1(config-if)#end DSW1#copy run start Verification? DSW1# show spanning-tree vlan 20
DSW1# show spanning-tree vlan 40 DSW2# show spanning-tree vlan 30 **That is all, hope to helpful for you.**
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