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| --- | --- | --- |
| **Device** | **Problem** | **Solution** |
| R1 | R1 and R2 not forming an adjacency | interface Serial0/0/0  encapsulation frame-relay |
| R1 | Username and passwords are nit correct | username R3 password 0 ciscoccna |
| R2 | TFTP Server cannot ping the Outside Host | interface g0/0  no ip nat outside  ip nat inside  interface g0/1  ip nat outside |
| R2 | Default route is pointing to the incorrect interface | no ip route 0.0.0.0 0.0.0.0 g0/0  ip route 0.0.0.0 0.0.0.0 g0/1 |
| S1 | Native VLAN mismatch | interface range fa0/1-4  switchport trunk native vlan 99 |
| S2 | This switch is not the root bridge for VLANs 1, 10, and 20 | spanning-tree vlan 1,10,20 root primary |
| S3 | The PCs do not pull a DHCP address | interface g0/1  switchport mode trunk |

Verification Document :

R1 :

R1(config)#int s0/0/0

R1(config-if)#encapsulatio

R1(config-if)#encapsulation fr

R1(config-if)#encapsulation frame-relay

R1(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to down

%DUAL-5-NBRCHANGE: IP-EIGRP 22: Neighbor 10.1.1.2 (Serial0/0/0) is down: interface down

R1(config)#username R3 password 0 ciscoccna

R1(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 22: Neighbor 10.3.3.2 (Serial0/0/1) is up: new adjacency

R2:

C:\>ping 209.165.201.10

Pinging 209.165.201.10 with 32 bytes of data:

Reply from 209.165.201.10: bytes=32 time<1ms TTL=126

Reply from 209.165.201.10: bytes=32 time=10ms TTL=126

Reply from 209.165.201.10: bytes=32 time=11ms TTL=126

Reply from 209.165.201.10: bytes=32 time=13ms TTL=126

Ping statistics for 209.165.201.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 13ms, Average = 8ms

S2:

S3:

S3# show interfaces trunk

Port Mode Encapsulation Status Native vlan

Fa0/1 on 802.1q trunking 99

Fa0/2 on 802.1q trunking 99

Fa0/3 on 802.1q trunking 99

Fa0/4 on 802.1q trunking 99

Gig0/1 on 802.1q trunking 99

Port Vlans allowed on trunk

Fa0/1 1-1005

Fa0/2 1-1005

Fa0/3 1-1005

Fa0/4 1-1005

Gig0/1 1-1005

Port Vlans allowed and active in management domain

Fa0/1 1,10,20,30,88

Fa0/2 1,10,20,30,88

Fa0/3 1,10,20,30,88

Fa0/4 1,10,20,30,88

Gig0/1 1,10,20,30,88

Port Vlans in spanning tree forwarding state and not pruned

Fa0/1 1,10,20,30,88

Fa0/2 30,88

Fa0/3 30,88

Fa0/4 30,88

Gig0/1 1,10,20,30,88