**IERG4831**

**Lab 1B Logbook**

NAME: Doria Tang

SID: 1155126139

N1= 63, N2 = 19

VLAN63 network: 10.63.1.0/24

VLAN19 network: 10.19.1.0/24

|  |  |
| --- | --- |
| **VLAN #** | **NAME** |
| 63 | 63 |
| 19 | 19 |
| 163 | 63\_COMM |
| 263 | 63\_ISO |

**Task 1: Planning for Private VLAN**

|  |  |
| --- | --- |
| **VLAN 63** | **PC** |
| VLAN 163 | PC210A, PC220A |
| VLAN 263 | PC21A, PC22A |

* Record the configurations on the switches SW\_DL2, SW\_AL21 and SW\_AL22.

SW\_DL2:

|  |
| --- |
| vlan 63,163,263  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto |

SW\_AL21:

|  |
| --- |
| vlan 63,163,263  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport mode access  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport mode access  negotiation auto |

SW\_AL22:

|  |
| --- |
| vlan 63,163,263  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport mode access  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport mode access  negotiation auto |

**Task 2: Traffic Isolation by Private VLAN**

* Verify your configuration by PING test. Record the result.

PC210A ping PC220A (10.63.1.4 ping 20.63.1.6)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  64 bytes from 10.63.1.6: seq=0 ttl=64 time=5.022 ms  64 bytes from 10.63.1.6: seq=1 ttl=64 time=4.113 ms  64 bytes from 10.63.1.6: seq=2 ttl=64 time=4.885 ms  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.113/4.673/5.022 ms |

PC220A ping PC210A (10.63.1.6 ping 20.63.1.4)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  64 bytes from 10.63.1.4: seq=0 ttl=64 time=12.366 ms  64 bytes from 10.63.1.4: seq=1 ttl=64 time=4.972 ms  64 bytes from 10.63.1.4: seq=2 ttl=64 time=5.754 ms  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.972/7.697/12.366 ms |

PC21A cannot ping PC22A (10.63.1.3 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC21A (10.63.1.5 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot talk to PC210A (10.63.1.3 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot talk to PC220A (10.63.1.3 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot talk to PC210A (10.63.1.5 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot talk to PC220A (10.63.1.5 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

* Record the switches configurations in this task.

SW\_AL21:

|  |
| --- |
| vlan 63  private-vlan primary  private-vlan association 163,263  !  vlan 163  private-vlan community  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 163,263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport private-vlan host-association 63 163  switchport mode private-vlan host  negotiation auto |

SW\_AL22:

|  |
| --- |
| vlan 63  private-vlan primary  private-vlan association 163,263  !  vlan 163  private-vlan community  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 163,263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport private-vlan host-association 63 163  switchport mode private-vlan host  negotiation auto  ! |

SW\_DL2:

|  |
| --- |
| vlan 63,163,263  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  ! |

**Task 3: Full Network Implementation of Private VLAN**

* Verify your configuration by PING test. Record the result.

PC11A: (10.63.1.1)

PC11A cannot ping PC11B (10.63.1.1 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC11A cannot ping PC12A (10.63.1.1 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC12B (10.63.1.1 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC11A cannot ping PC210A (10.63.1.1 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC21A (10.63.1.1 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC21B (10.63.1.1 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC11A cannot ping PC22A (10.63.1.1 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC22B (10.63.1.1 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC11A cannot ping PC220A (10.63.1.1 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A: (10.63.1.2)

PC12A cannot ping PC11A (10.63.1.2 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC11B (10.63.1.2 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC12A cannot ping PC12B (10.63.1.2 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC12A cannot ping PC210A (10.63.1.2 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC21A (10.63.1.2 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC21B (10.63.1.2 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC12A cannot ping PC22A (10.63.1.2 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC22B (10.63.1.2 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC12A cannot ping PC220A (10.63.1.2 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A: (10.63.1.3)

PC21A cannot ping PC11A (10.63.1.3 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC11B (10.63.1.3 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC21A cannot ping PC12A (10.63.1.3 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC12B (10.63.1.3 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC21A cannot ping PC210A (10.63.1.3 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC21B (10.63.1.3 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC21A cannot ping PC22A (10.63.1.3 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC22B (10.63.1.3 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC21A cannot ping PC220A (10.63.1.3 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A: (10.63.1.5)

PC22A cannot ping PC11A (10.63.1.5 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC11B (10.63.1.5 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC22A cannot ping PC12A (10.63.1.5 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC12B (10.63.1.5 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC22A cannot ping PC210A (10.63.1.5 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC21A (10.63.1.5 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC21B (10.63.1.5 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC22A cannot ping PC22B (10.63.1.5 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC22A cannot ping PC220A (10.63.1.5 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A: (10.63.1.4)

PC210A cannot ping PC11A (10.63.1.4 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A cannot ping PC11B (10.63.1.4 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC210A cannot ping PC12A (10.63.1.4 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A cannot ping PC12B (10.63.1.4 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC210A cannot ping PC21A (10.63.1.4 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A cannot ping PC21B (10.63.1.4 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC210A cannot ping PC22A (10.63.1.4 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A cannot ping PC22B (10.63.1.4 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC210A can ping PC220A (10.63.1.4 can ping 10.63.1.6)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  64 bytes from 10.63.1.6: seq=0 ttl=64 time=5.425 ms  64 bytes from 10.63.1.6: seq=1 ttl=64 time=5.142 ms  64 bytes from 10.63.1.6: seq=2 ttl=64 time=5.073 ms  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.073/5.213/5.425 ms |

PC220A: (10.63.1.6)

PC220A cannot ping PC11A (10.63.1.6 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC220A cannot ping PC11B (10.63.1.6 cannot ping 10.19.1.1)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  ping: sendto: Network is unreachable |

PC220A cannot ping PC12A (10.63.1.6 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC220A cannot ping PC12B (10.63.1.6 cannot ping 10.19.1.2)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  ping: sendto: Network is unreachable |

PC220A can ping PC210A (10.63.1.6 can ping 10.63.1.4)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  64 bytes from 10.63.1.4: seq=0 ttl=64 time=6.946 ms  64 bytes from 10.63.1.4: seq=1 ttl=64 time=5.173 ms  64 bytes from 10.63.1.4: seq=2 ttl=64 time=6.052 ms  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.173/6.057/6.946 ms |

PC220A cannot ping PC21A (10.63.1.6 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC220A cannot ping PC21B (10.63.1.6 cannot ping 10.19.1.3)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  ping: sendto: Network is unreachable |

PC220A cannot ping PC22A (10.63.1.6 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC220A cannot ping PC22B (10.63.1.6 cannot ping 10.19.1.4)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  ping: sendto: Network is unreachable |

PC11B: (10.19.1.1)

PC11B can ping PC12B: (10.19.1.1 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC11B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=10.787 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=8.729 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=5.694 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.694/8.403/10.787 ms |

PC11B can ping PC21B: (10.19.1.1 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC11B:~$ ping 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=24.436 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=20.061 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=10.248 ms  ^C  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 10.248/18.248/24.436 ms |

PC11B can ping PC22B: (10.19.1.1 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC11B:~$ ping 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=20.135 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=8.858 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=8.191 ms  ^C  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 8.191/12.394/20.135 ms |

PC12B: (10.19.1.2)

PC12B can ping PC11B: (10.19.1.2 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=7.521 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=5.418 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=5.489 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.418/6.142/7.521 ms |

PC12B can ping PC21B: (10.19.1.2 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=17.967 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=11.389 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=9.603 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 9.603/12.986/17.967 ms |

PC12B can ping PC22B: (10.19.1.2 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=22.748 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=8.973 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=6.815 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.815/12.845/22.748 ms |

PC21B: (10.19.1.3)

PC21B can ping PC11B: (10.19.1.3 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=10.932 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=13.417 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=10.978 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 10.932/11.775/13.417 ms |

PC21B can ping PC12B: (10.19.1.3 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=16.431 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=10.910 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=7.955 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.955/11.765/16.431 ms |

PC21B can ping PC22B: (10.19.1.3 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=13.789 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=5.221 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=11.721 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.221/10.243/13.789 ms |

PC22B: (10.19.1.4)

PC22B can ping PC11B: (10.19.1.4 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=11.022 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=11.628 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=13.261 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 11.022/11.970/13.261 ms |

PC22B can ping PC12B: (10.19.1.4 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=9.501 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=10.692 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=9.681 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 9.501/9.958/10.692 ms |

PC22B can ping PC21B: (10.19.1.4 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=5.992 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=6.392 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=7.463 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.992/6.615/7.463 ms |

* Record the switches configurations in this task.

SW\_AL11:

|  |
| --- |
| vlan 19  !  vlan 63  private-vlan primary  private-vlan association 263  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  ! |

SW\_AL12:

|  |
| --- |
| !  vlan 19  !  vlan 63  private-vlan primary  private-vlan association 263  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  ! |

SW\_AL21:

|  |
| --- |
| !  vlan 19  !  vlan 63  private-vlan primary  private-vlan association 163,263  !  vlan 163  private-vlan community  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 163,263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport private-vlan host-association 63 163  switchport mode private-vlan host  negotiation auto  ! |

SW\_AL22:

|  |
| --- |
| !  vlan 19  !  vlan 63  private-vlan primary  private-vlan association 163,263  !  vlan 163  private-vlan community  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 163,263  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport access vlan 263  switchport private-vlan host-association 63 263  switchport mode private-vlan host  negotiation auto  !  interface GigabitEthernet0/2  switchport access vlan 19  switchport mode access  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 163  switchport private-vlan host-association 63 163  switchport mode private-vlan host  negotiation auto  ! |

SW\_DL1:

|  |
| --- |
| !  vlan 19,63,263  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/2  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  ! |

SW\_DL2:

|  |
| --- |
| !  vlan 19,63,163,263  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/2  negotiation auto  ! |

SW\_C:

|  |
| --- |
| !  vlan 19,63,163,263  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  ! |

**Task 4: Promiscuous Port**

* Use PING test to confirm the connectivity. Record the result.

PC11A: (10.63.1.1)

PC11A cannot ping PC12A: (10.63.1.1 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC21A: (10.63.1.1 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC22A: (10.63.1.1 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A can ping Server: (10.63.1.1 cannot ping 10.63.1.222)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=4.451 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=7.714 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=14.571 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.451/8.912/14.571 ms |

PC11A cannot ping PC210A: (10.63.1.1 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC11A cannot ping PC220A: (10.63.1.1 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC11A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A: (10.63.1.2):

PC12A cannot ping PC11A: (10.63.1.2 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC21A: (10.63.1.2 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC22A: (10.63.1.2 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A can ping Server: (10.63.1.2 cannot ping 10.63.1.222)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=15.323 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=6.669 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=7.119 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.669/9.703/15.323 ms |

PC12A cannot ping PC210A: (10.63.1.2 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC12A cannot ping PC220A: (10.63.1.2 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC12A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A: (10.63.1.3)

PC21A cannot ping PC11A: (10.63.1.3 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC21A:~$ ping 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC12A: (10.63.1.3 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC22A: (10.63.1.3 cannot ping 10.63.1.5)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.5  PING 10.63.1.5 (10.63.1.5): 56 data bytes  ^C  --- 10.63.1.5 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A can ping Server: (10.63.1.3 cannot ping 10.63.1.222)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=7.103 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=7.368 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=8.103 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.103/7.524/8.103 ms |

PC21A cannot ping PC210A: (10.63.1.3 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC21A cannot ping PC220A: (10.63.1.3 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC21A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A: (10.63.1.4)

PC22A cannot ping PC11A: (10.63.1.5 cannot ping 10.63.1.1)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.1  PING 10.63.1.1 (10.63.1.1): 56 data bytes  ^C  --- 10.63.1.1 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC12A: (10.63.1.5 cannot ping 10.63.1.2)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.2  PING 10.63.1.2 (10.63.1.2): 56 data bytes  ^C  --- 10.63.1.2 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC21A: (10.63.1.5 cannot ping 10.63.1.3)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.3  PING 10.63.1.3 (10.63.1.3): 56 data bytes  ^C  --- 10.63.1.3 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A can ping Server: (10.63.1.5 cannot ping 10.63.1.222)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=17.117 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=7.760 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=7.876 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.760/10.917/17.117 ms |

PC22A cannot ping PC210A: (10.63.1.5 cannot ping 10.63.1.4)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  ^C  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC22A cannot ping PC220A: (10.63.1.5 cannot ping 10.63.1.6)

|  |
| --- |
| cisco@PC22A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  ^C  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 0 packets received, 100% packet loss |

PC210A: (10.63.1.4)

PC210A can ping PC220A: (10.63.1.4 can ping 10.63.1.6)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  64 bytes from 10.63.1.6: seq=0 ttl=64 time=5.131 ms  64 bytes from 10.63.1.6: seq=1 ttl=64 time=5.239 ms  64 bytes from 10.63.1.6: seq=2 ttl=64 time=6.095 ms  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.131/5.488/6.095 ms |

PC210A can ping Server: (10.63.1.4 can ping 10.63.1.222)

|  |
| --- |
| cisco@PC210A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=9.226 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=6.198 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=6.456 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.198/7.293/9.226 ms |

PC220A: (10.63.1.6)

PC220A can ping PC210A: (10.63.1.6 can ping 10.63.1.4)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  64 bytes from 10.63.1.4: seq=0 ttl=64 time=4.802 ms  64 bytes from 10.63.1.4: seq=1 ttl=64 time=4.959 ms  64 bytes from 10.63.1.4: seq=2 ttl=64 time=5.242 ms  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.802/5.001/5.242 ms |

PC220A can ping Server: (10.63.1.6 can ping 10.63.1.222)

|  |
| --- |
| cisco@PC220A:~$ ping -c 3 10.63.1.222  PING 10.63.1.222 (10.63.1.222): 56 data bytes  64 bytes from 10.63.1.222: seq=0 ttl=64 time=6.758 ms  64 bytes from 10.63.1.222: seq=1 ttl=64 time=9.616 ms  64 bytes from 10.63.1.222: seq=2 ttl=64 time=11.074 ms  --- 10.63.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.758/9.149/11.074 ms |

Server: (10.63.1.222)

Server can ping PC210A: (10.63.1.222 can ping 10.63.1.4)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.63.1.4  PING 10.63.1.4 (10.63.1.4): 56 data bytes  64 bytes from 10.63.1.4: seq=0 ttl=64 time=7.297 ms  64 bytes from 10.63.1.4: seq=1 ttl=64 time=7.531 ms  64 bytes from 10.63.1.4: seq=2 ttl=64 time=6.833 ms  --- 10.63.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.833/7.220/7.531 ms |

Server can ping PC220A: (10.63.1.222 can ping 10.63.1.6)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.63.1.6  PING 10.63.1.6 (10.63.1.6): 56 data bytes  64 bytes from 10.63.1.6: seq=0 ttl=64 time=16.638 ms  64 bytes from 10.63.1.6: seq=1 ttl=64 time=7.724 ms  64 bytes from 10.63.1.6: seq=2 ttl=64 time=20.438 ms  --- 10.63.1.6 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.724/14.933/20.438 ms |

PC11B: (10.19.1.1)

PC11B can ping PC12B: (10.19.1.1 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC11B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=4.449 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=4.513 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=6.022 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.449/4.994/6.022 ms |

PC11B can ping PC21B: (10.19.1.1 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC11B:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=8.373 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=9.044 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=9.134 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 8.373/8.850/9.134 ms |

PC11B can ping PC22B: (10.19.1.1 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC11B:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=11.589 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=9.111 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=7.181 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.181/9.293/11.589 ms |

PC11B can ping Server: (10.19.1.1 can ping 10.19.1.222)

|  |
| --- |
| cisco@PC11B:~$ ping -c 3 10.19.1.222  PING 10.19.1.222 (10.19.1.222): 56 data bytes  64 bytes from 10.19.1.222: seq=0 ttl=64 time=4.448 ms  64 bytes from 10.19.1.222: seq=1 ttl=64 time=4.736 ms  64 bytes from 10.19.1.222: seq=2 ttl=64 time=5.071 ms  --- 10.19.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.448/4.751/5.071 ms |

PC12B: (10.19.1.2)

PC12B can ping PC11B: (10.19.1.2 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=9.442 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=7.474 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=5.159 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.159/7.358/9.442 ms |

PC12B can ping PC21B: (10.19.1.2 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=9.527 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=9.859 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=16.672 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 9.527/12.019/16.672 ms |

PC12B can ping PC22B: (10.19.1.2 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=27.463 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=7.914 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=12.248 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.914/15.875/27.463 ms |

PC12B can ping Server: (10.19.1.2 can ping 10.19.1.222)

|  |
| --- |
| cisco@PC12B:~$ ping -c 3 10.19.1.222  PING 10.19.1.222 (10.19.1.222): 56 data bytes  64 bytes from 10.19.1.222: seq=0 ttl=64 time=12.597 ms  64 bytes from 10.19.1.222: seq=1 ttl=64 time=6.617 ms  64 bytes from 10.19.1.222: seq=2 ttl=64 time=11.990 ms  --- 10.19.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.617/10.401/12.597 ms |

PC21B: (10.19.1.3)

PC21B can ping PC11B: (10.19.1.3 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=8.513 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=8.999 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=9.792 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 8.513/9.101/9.792 ms |

PC21B can ping PC12B: (10.19.1.3 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=9.210 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=9.890 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=10.316 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 9.210/9.805/10.316 ms |

PC21B can ping PC22B: (10.19.1.3 can ping 10.19.1.4)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=4.851 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=5.059 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=5.267 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.851/5.059/5.267 ms |

PC21B can ping Server: (10.19.1.3 can ping 10.19.1.222)

|  |
| --- |
| cisco@PC21B:~$ ping -c 3 10.19.1.222  PING 10.19.1.222 (10.19.1.222): 56 data bytes  64 bytes from 10.19.1.222: seq=0 ttl=64 time=13.907 ms  64 bytes from 10.19.1.222: seq=1 ttl=64 time=7.261 ms  64 bytes from 10.19.1.222: seq=2 ttl=64 time=7.370 ms  --- 10.19.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.261/9.512/13.907 ms |

PC22B: (10.19.1.4)

PC22B can ping PC11B: (10.19.1.4 can ping 10.19.1.1)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=9.964 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=8.964 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=7.919 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.919/8.949/9.964 ms |

PC22B can ping PC12B: (10.19.1.4 can ping 10.19.1.2)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=8.504 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=7.263 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=9.087 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 7.263/8.284/9.087 ms |

PC22B can ping PC21B: (10.19.1.4 can ping 10.19.1.3)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=6.170 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=4.462 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=4.882 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 4.462/5.171/6.170 ms |

PC22B can ping Server: (10.19.1.4 can ping 10.19.1.222)

|  |
| --- |
| cisco@PC22B:~$ ping -c 3 10.19.1.222  PING 10.19.1.222 (10.19.1.222): 56 data bytes  64 bytes from 10.19.1.222: seq=0 ttl=64 time=16.072 ms  64 bytes from 10.19.1.222: seq=1 ttl=64 time=6.088 ms  64 bytes from 10.19.1.222: seq=2 ttl=64 time=20.984 ms  --- 10.19.1.222 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.088/14.381/20.984 ms |

Server: (10.19.1.222)

Server can ping PC11B: (10.19.1.222 can ping 10.19.1.1)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.19.1.1  PING 10.19.1.1 (10.19.1.1): 56 data bytes  64 bytes from 10.19.1.1: seq=0 ttl=64 time=5.439 ms  64 bytes from 10.19.1.1: seq=1 ttl=64 time=5.648 ms  64 bytes from 10.19.1.1: seq=2 ttl=64 time=6.213 ms  --- 10.19.1.1 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.439/5.766/6.213 ms |

Server can ping PC12B: (10.19.1.222 can ping 10.19.1.2)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.19.1.2  PING 10.19.1.2 (10.19.1.2): 56 data bytes  64 bytes from 10.19.1.2: seq=0 ttl=64 time=5.388 ms  64 bytes from 10.19.1.2: seq=1 ttl=64 time=5.188 ms  64 bytes from 10.19.1.2: seq=2 ttl=64 time=10.672 ms  --- 10.19.1.2 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.188/7.082/10.672 ms |

Server can ping PC21B: (10.19.1.222 can ping 10.19.1.3)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.19.1.3  PING 10.19.1.3 (10.19.1.3): 56 data bytes  64 bytes from 10.19.1.3: seq=0 ttl=64 time=8.388 ms  64 bytes from 10.19.1.3: seq=1 ttl=64 time=6.603 ms  64 bytes from 10.19.1.3: seq=2 ttl=64 time=6.696 ms  --- 10.19.1.3 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 6.603/7.229/8.388 ms |

Server can ping PC22B: (10.19.1.222 can ping 10.19.1.4)

|  |
| --- |
| cisco@Server:~$ ping -c 3 10.19.1.4  PING 10.19.1.4 (10.19.1.4): 56 data bytes  64 bytes from 10.19.1.4: seq=0 ttl=64 time=6.129 ms  64 bytes from 10.19.1.4: seq=1 ttl=64 time=5.438 ms  64 bytes from 10.19.1.4: seq=2 ttl=64 time=6.477 ms  --- 10.19.1.4 ping statistics ---  3 packets transmitted, 3 packets received, 0% packet loss  round-trip min/avg/max = 5.438/6.014/6.477 ms |

* Record the switch and host configurations in this task.

SW\_C:

|  |
| --- |
| !  vlan 19  !  vlan 63  private-vlan primary  private-vlan association 163,263  !  vlan 163  private-vlan community  !  vlan 263  private-vlan isolated  !  !  interface GigabitEthernet0/0  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/1  switchport trunk encapsulation dot1q  switchport mode trunk  negotiation auto  !  interface GigabitEthernet0/2  switchport trunk encapsulation dot1q  switchport private-vlan mapping 63 163,263  switchport mode private-vlan promiscuous  negotiation auto  !  interface GigabitEthernet0/3  switchport access vlan 19  switchport mode access  negotiation auto  ! |

Server:

|  |
| --- |
| # this is a shell script which will be sourced at boot  hostname Server  # configurable user account  USERNAME=cisco  PASSWORD=cisco  # no password for tc user by default  TC\_PASSWORD=  vconfig add eth0 63  ifconfig eth0 10.63.1.222 netmask 255.255.255.0 broadcast 10.63.1.255  vconfig add eth1 19  ifconfig eth1 10.19.1.222 netmask 255.255.255.0 broadcast 10.19.1.255 |