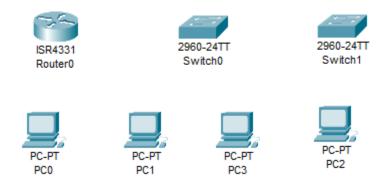
Inter-VLAN Routing Activity Documentation

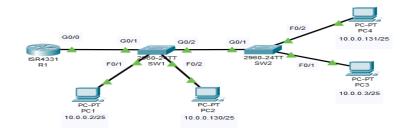
1. Set up the required desired device for the activity.



2. Put labels.



3. Connect using copper straight through. I follow the configured wires. I configured the router and configured the IP addresses of each PCs. Reference is FREE CCNA Lab 007: Inter-VLAN Routing.



Note: PC1 can ping PC3 while it cannot ping PC2 and P4
PC3 can ping PC1 while it cannot ping PC4 and P2

BSIT 2A Jerahmil Jay Felipe

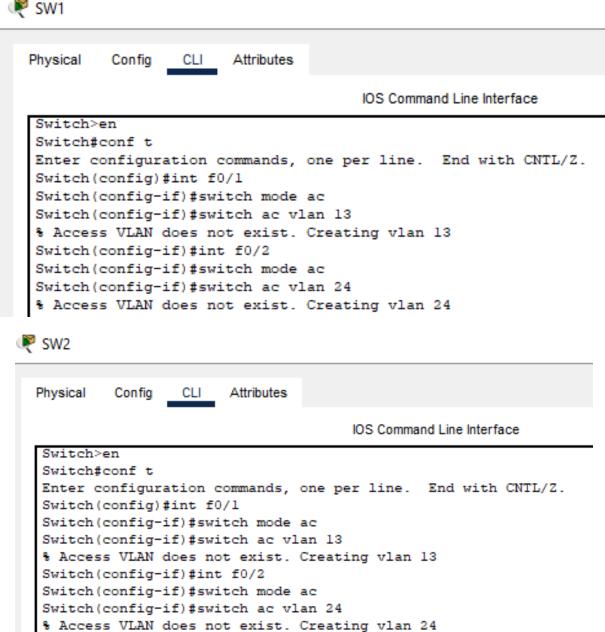
PC2 can ping PC4 while it cannot ping PC1 and P3

PC4 can ping PC2 while it cannot ping PC3 and P1

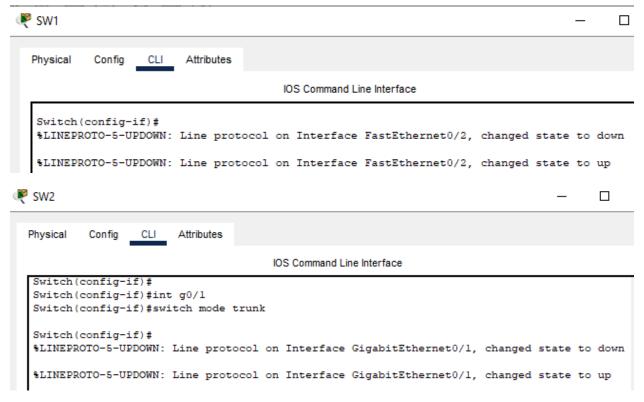
Findings: Computer in same vlan can communicate but inter vlan is not working.

Switch 1 and 2 Config

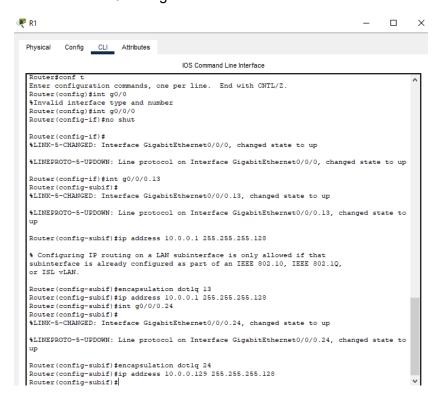




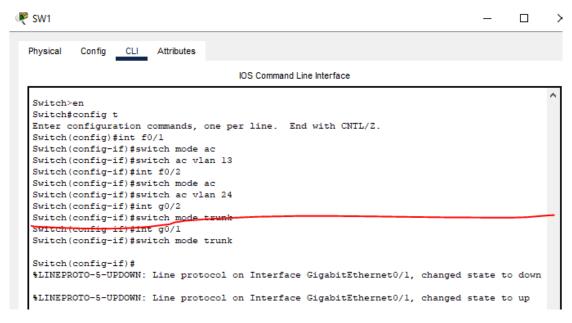
Trunk Config



Creating Sub Interfaces in Router



Making Trunk in Switch 1



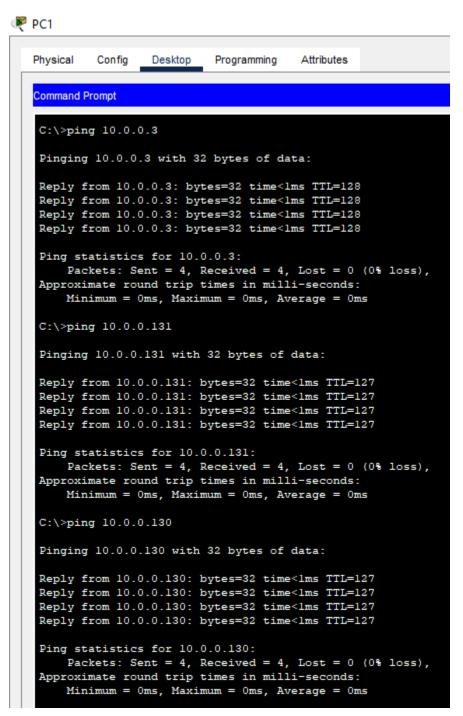
Then I set the default gateway for each PCs

PC 1 and PC 3 to 10.0.0.1

PC 2 and 4 to 10.0.0.129

4. Troubleshooting: Testing Pings

All Ping should work.

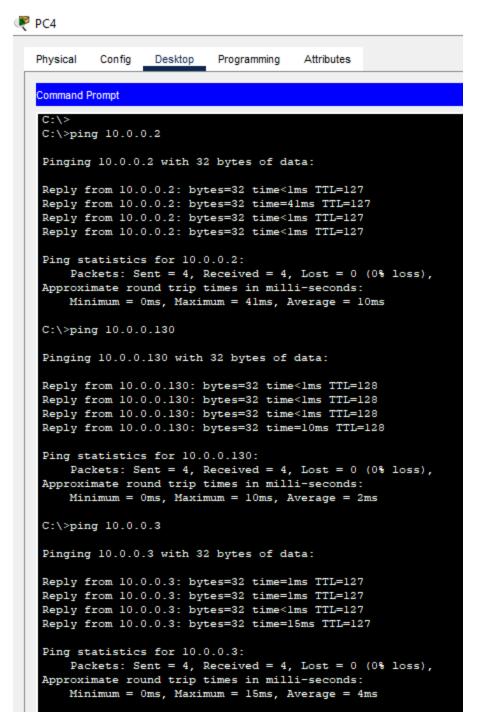




```
Physical
         Config
                 Desktop
                          Programming
                                      Attributes
Command Prompt
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<1ms TTL=127
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.2
 Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<1ms TTL=127
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.131
 Pinging 10.0.0.131 with 32 bytes of data:
Reply from 10.0.0.131: bytes=32 time<1ms TTL=128
Reply from 10.0.0.131: bytes=32 time<1ms TTL=128
 Reply from 10.0.0.131: bytes=32 time<1ms TTL=128
Reply from 10.0.0.131: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.3
```



```
Physical
         Config
                 Desktop
                          Programming
                                       Attributes
Command Prompt
 Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.130
 Pinging 10.0.0.130 with 32 bytes of data:
Reply from 10.0.0.130: bytes=32 time<1ms TTL=127
Ping statistics for 10.0.0.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.131
 Pinging 10.0.0.131 with 32 bytes of data:
Reply from 10.0.0.131: bytes=32 time<1ms TTL=127
 Ping statistics for 10.0.0.131:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```



References

FREE CCNA Lab 007: Inter-VLAN Routing

https://www.youtube.com/watch?v=3II2RwiXImg

FREE CCNA Lab 008: Inter-VLAN Routing (Router on a Stick) https://youtu.be/iIDkr4Kq7io?feature=shared