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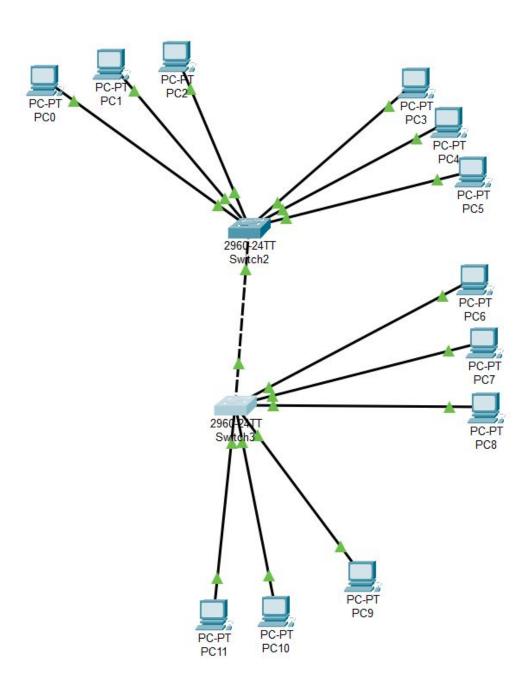
BBM 453 Computer Networks Lab

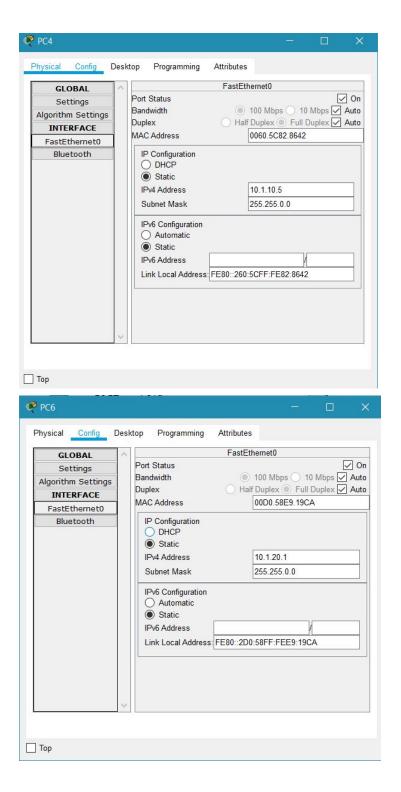
VLAN Lab Assignment

Group ID: 1

IP Address: 10.1.xx.x

This is the topology we used. PC0 to PC2 belongs to VLAN1, PC3 to PC8 belongs to VLAN2 and PC9 to PC11 belongs to VLAN3. Those two switches connected to each other, we understand that by looking at the green arrows on the cable. We used copper-crossover cable for connecting the switches and we used copper straight-through wires to connect each device to switch.





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Physical Config Desktop Programming Attributes

Command Prompt

Pinging 10.1.10.4 with 32 bytes of data:

Reply from 10.1.10.4: bytes=32 time=321ms TTL=128
Reply from 10.1.10.4: bytes=32 time<1ms TTL=128

Ping statistics for 10.1.10.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 321ms, Average = 80ms

C:\>ping 10.1.20.1

Pinging 10.1.20.1 with 32 bytes of data:

Reply from 10.1.20.1: bytes=32 time<1ms TTL=128

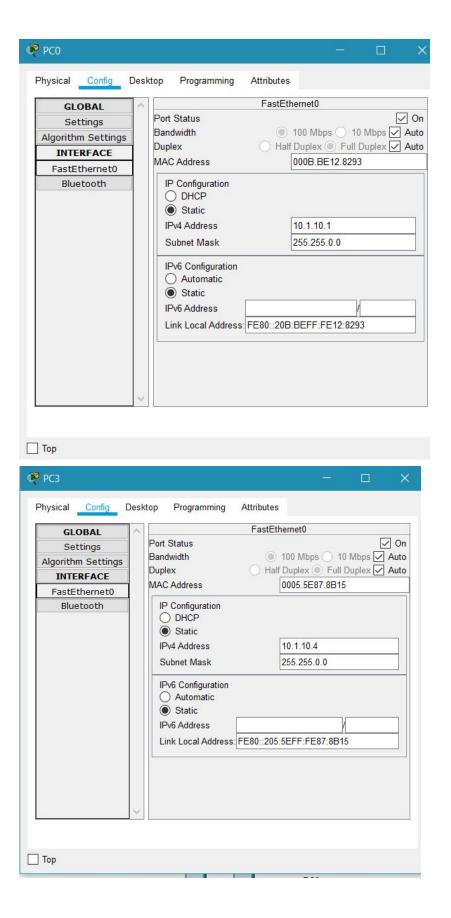
Ping statistics for 10.1.20.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

We pinged from **PC4(10.1.10.5)** to **PC6(10.1.20.1)**. The ping result is successful. By looking at the result we can say even if they are connected to different switches they can ping each other because they belong to the same VLAN which is VLAN2 in our case.



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Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 10.1.10.4

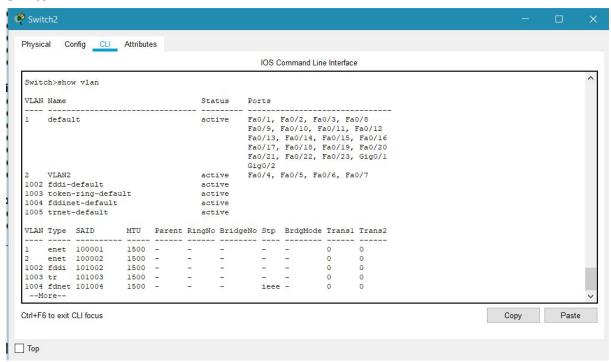
Pinging 10.1.10.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.1.10.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

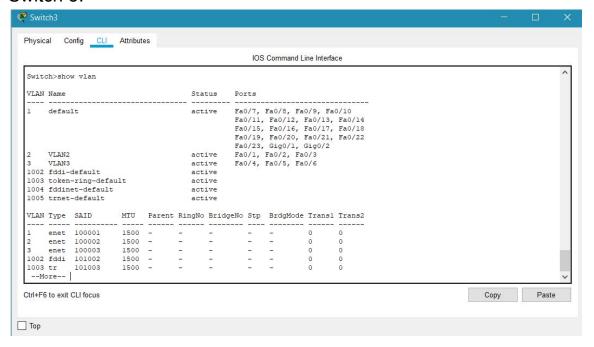
C:\>
```

We pinged from **PC0(10.1.10.1)** to **PC3(10.1.10.4)**. The result of the ping command is unsuccessful, because, although they are connected to the same switch, they are in different VLAN. That's why they cannot communicate with each other.

We use the show vlan command in the above pictures to see our VLAN topology. Our vlan names are default which is VLAN1 and VLAN2 which is VLAN2 in our case. Their ids are 1 and 2. This command is for Switch 2.



We use the show vlan command in the above pictures to see our VLAN topology. Our vlan names are VLAN2 which is VLAN2 and VLAN3 which is VLAN3 in our case. Their ids are 2 and 3. This command is for Switch 3.



NOTE: We did not use the CLI tab while executing the commands due to getting % Invalid input detected at '^' marker. error.

That's why we used the Config part. In fact, they both do the same configuration so that we manage to achieve our goals in this experiment.