

To construct a VLAN & make
the PCs comm. across a VLAN.

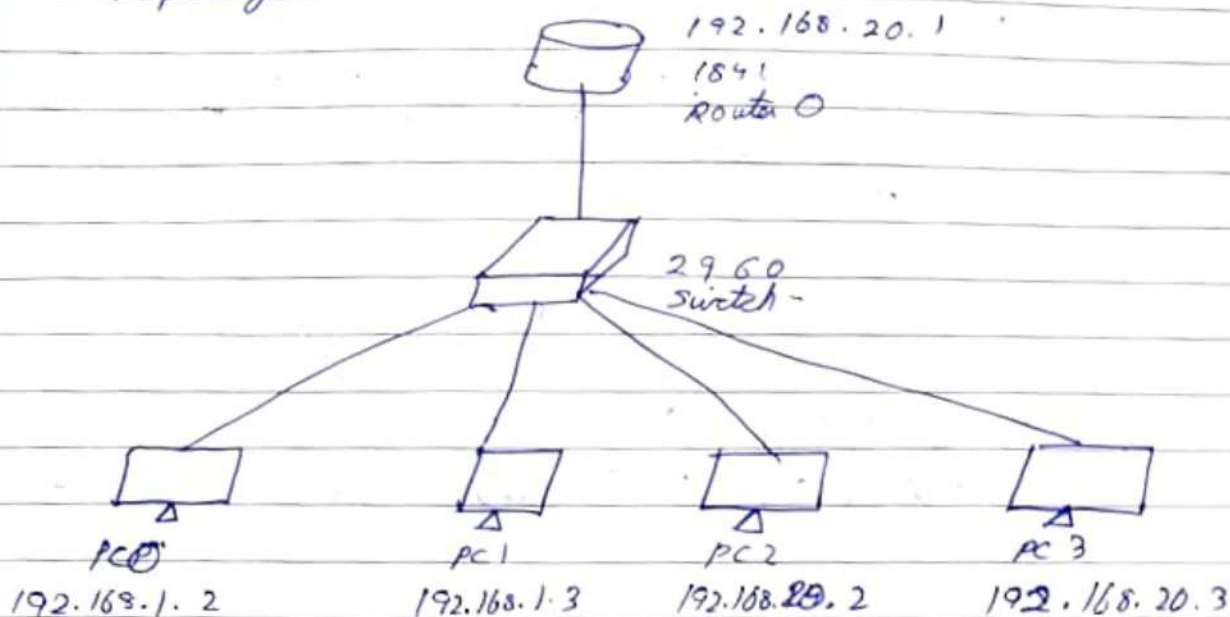
classmate

Date

Page

VLAN

Topology



Procedure:

→ In Switch → VLAN Database → Configure VLAN number & VLAN name

Fa 0/5 ⇒ In dropdown select TRUNK

Fa 0/4 ⇒ Configure VLAN

Fa 0/30 ⇒ Configure VLAN

→ In Router

⇒ VLAN Database ⇒ Configure VLAN number & VLAN name

CLI of router:

conf t

interface fa0/0.1

encapsulation dot1q 20

ip address 192.168.20.1 255.255.255.0

no shut

exit

Output:

Ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3 bytes=32 time=0ms TTL=127

" " " " " " " "

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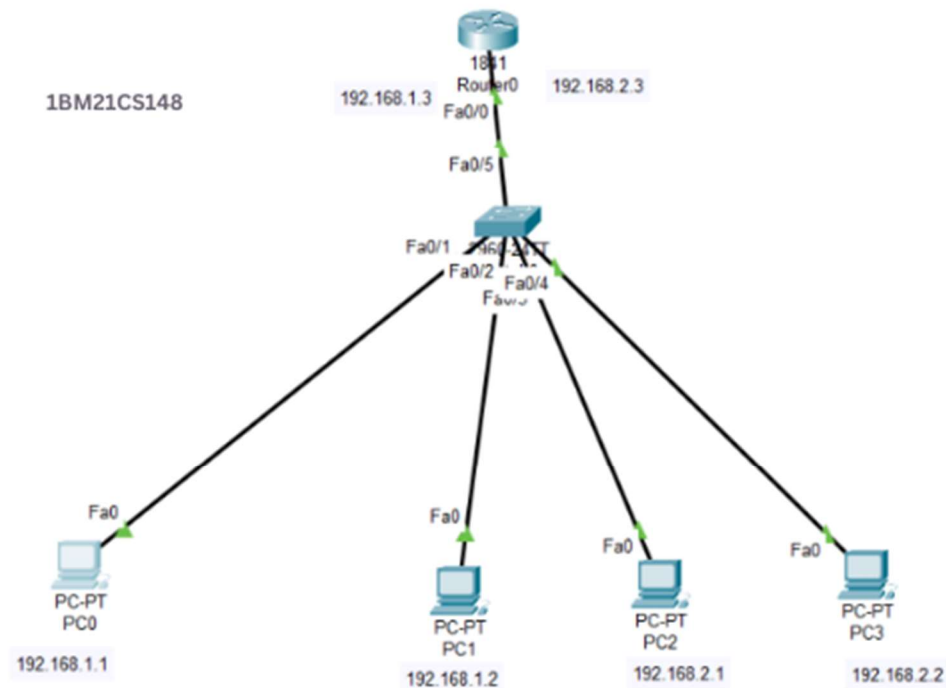
" " " " " " " "

Ping statistics for 192.168.20.3

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

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22/8/23



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```