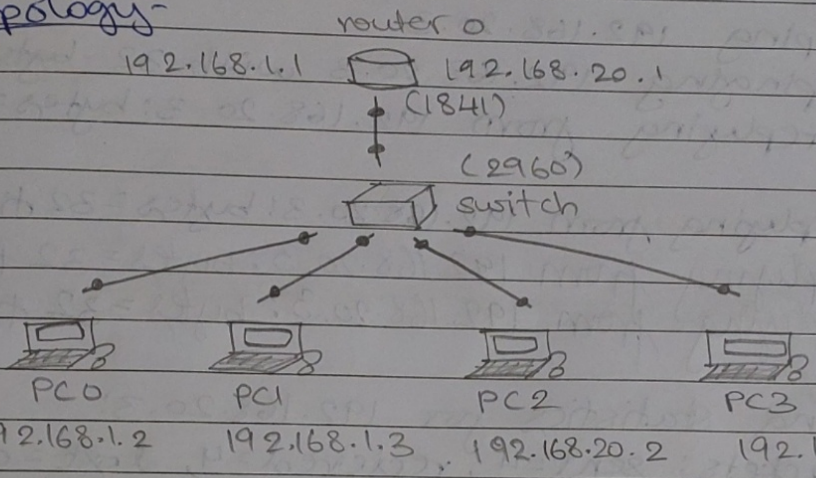
DATE: PAGE:

11/8/23

VLAN

(I)

- Topology-



- Steps:

→ In switch → VLAN database → configure VLAN number & VLAN name

fastethernet 0/5 → In dropdown, select TRUNK
fastethernet 0/4 → configure VLAN
fast ethernet 0/3 → configure VLAN

→ In router
VLAN database → configure VLAN number & VLAN name

CLI of router:
config t
interface fastethernet 0/0.1
encapsulation dot1q 20
ip address 192.168.20.1 255.255.255.0
no shut
exit

DATE: PAGE:

- OUTPUT-

ping 192.168.20.3
pinging 192.168.20.3 with 32 bytes of data!
replying from 192.168.20.3: bytes=32 time=0ms TTL=127

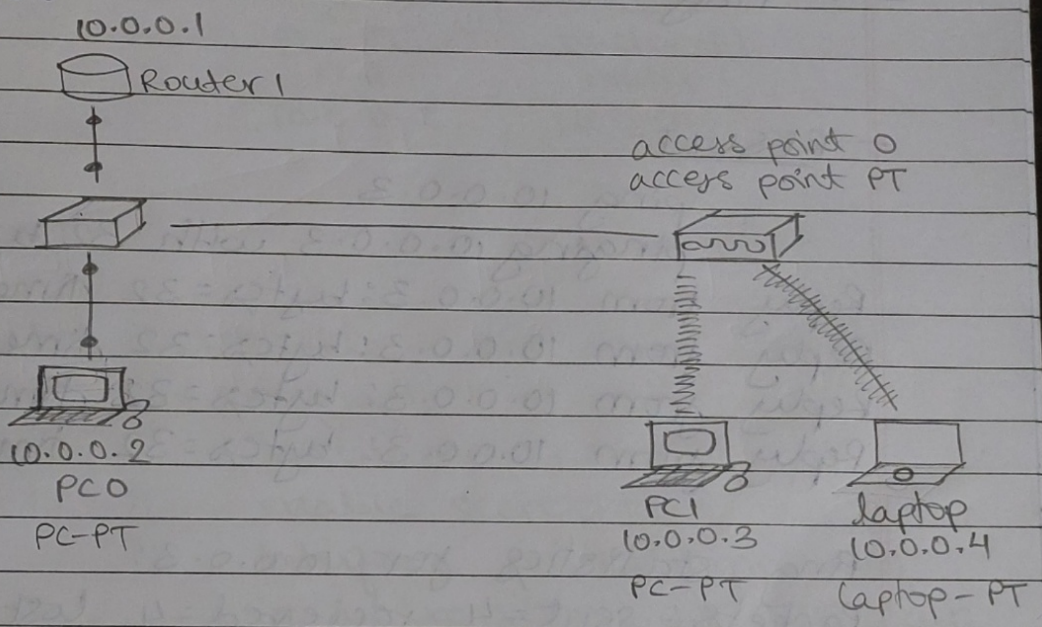
replying from 192.168.20.3: bytes=32 time=0ms TTL=127
replying from 192.168.20.3: bytes=32 time=0ms TTL=127
replying from 192.168.20.3: bytes=32 time=0ms TTL=127

ping statistics for 192.168.20.3:
packets: sent=4, recieved=4, lost=0 (0% loss)

DATE: PAGE:

(V) WLAN

— Topology —



— steps —

→ construct the topology.

→ set ip address & gateway of PC.

→ for access point 0,

⇒ In port 1

SSID ⇒ WLAN

WLAN key ⇒ 1234567890

→ for PC 1,

switch off, drag the existing PT-HOST-NM-1AM to the components list & drag WMP300N to empty port. Then switch on device.

In wireless 0,

SSID ⇒ WLAN

WEN key ⇒ 1234567890

DATE: PAGE:

IP address ⇒ 10.0.0.3
gateway ⇒ 10.0.0.1

→ Repeat the same to laptop.
→ Ping the device.

- RESULT -

ping 10.0.0.3
pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128
Reply from 10.0.0.3: bytes=32 time=15ms TTL=128

Ping statistics for 10.0.0.3:
Packets: sent=4, recieved=4, lost=0
approximate round trip times in ms:
minimum=6ms, maximum=15ms, average=10ms