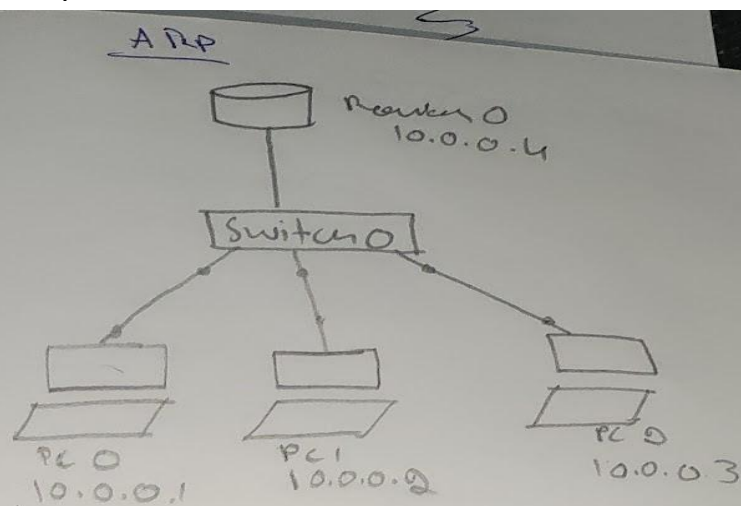


# Construct a LAN and understand the concept and operation of Address Resolution Protocol(ARP)



- Configure Topology
- configure IP
- PC0 (an D)
  - arp -a
  - ping - 10.0.0.2
  - arp -a
  - arp -d

Output

\* arp -a  
No ARP entries found

\* Ping 10.0.0.2

Reply from 10.0.0.2 bytes = 32 time 0ms TTL=128

Reply from 10.0.0.2 bytes = 32 time 0ms TTL=128

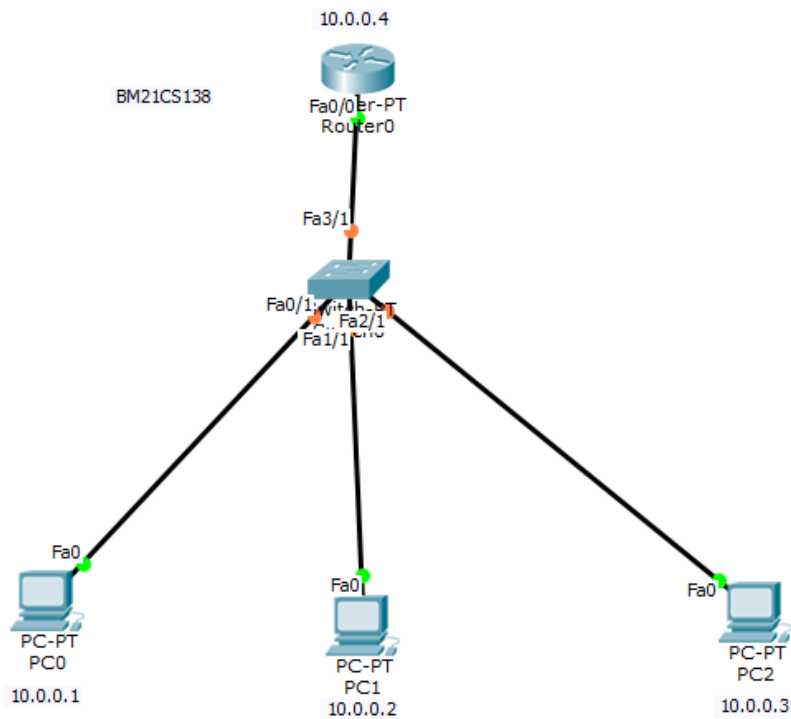
Reply from 10.0.0.2 bytes = 32 time 0ms TTL=128

Reply from 10.0.0.2 bytes = 32 time 0ms TTL=128

\* arp -a

Internet address	Physical Address	Type
10.0.0.2	00 2-16 c5-48 90	Dynamic
10.0.0.3	00 06-2a 67-40 89	Dynamic

## Topology:



## Output:

```
Physical  Config  Desktop  Custom Interface

Command Prompt

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 = 8ms, Average = 2ms

PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>arp -p
Invalid Command.

PC>arp -a
    Internet Address      Physical Address          Type
    10.0.0.2               0001.962d.9094           dynamic
    10.0.0.3               00e0.b0a9.ce08           dynamic

PC>
```