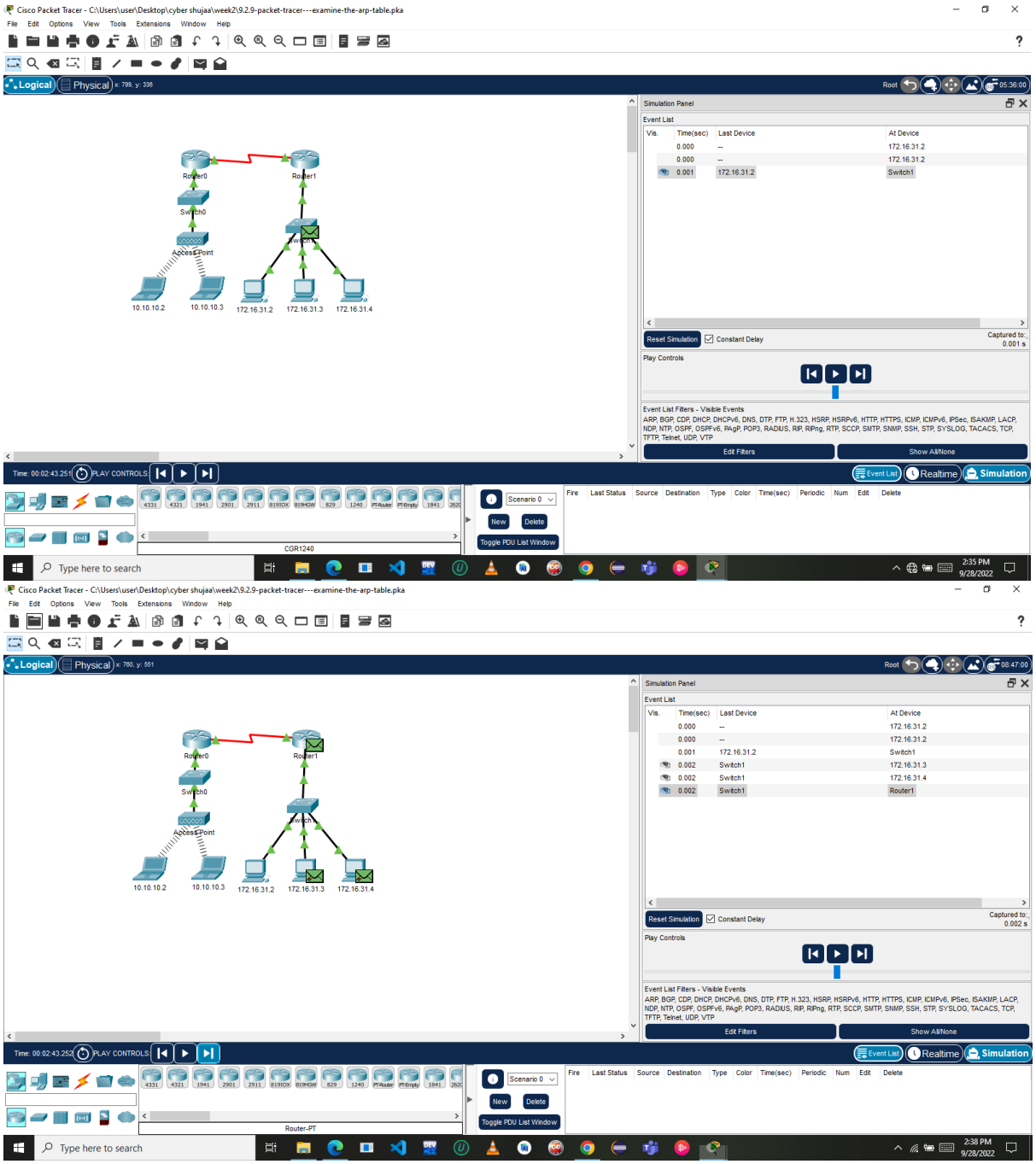
Packet Tracer - Examine the ARP Table

Part 1: Examine an ARP Request

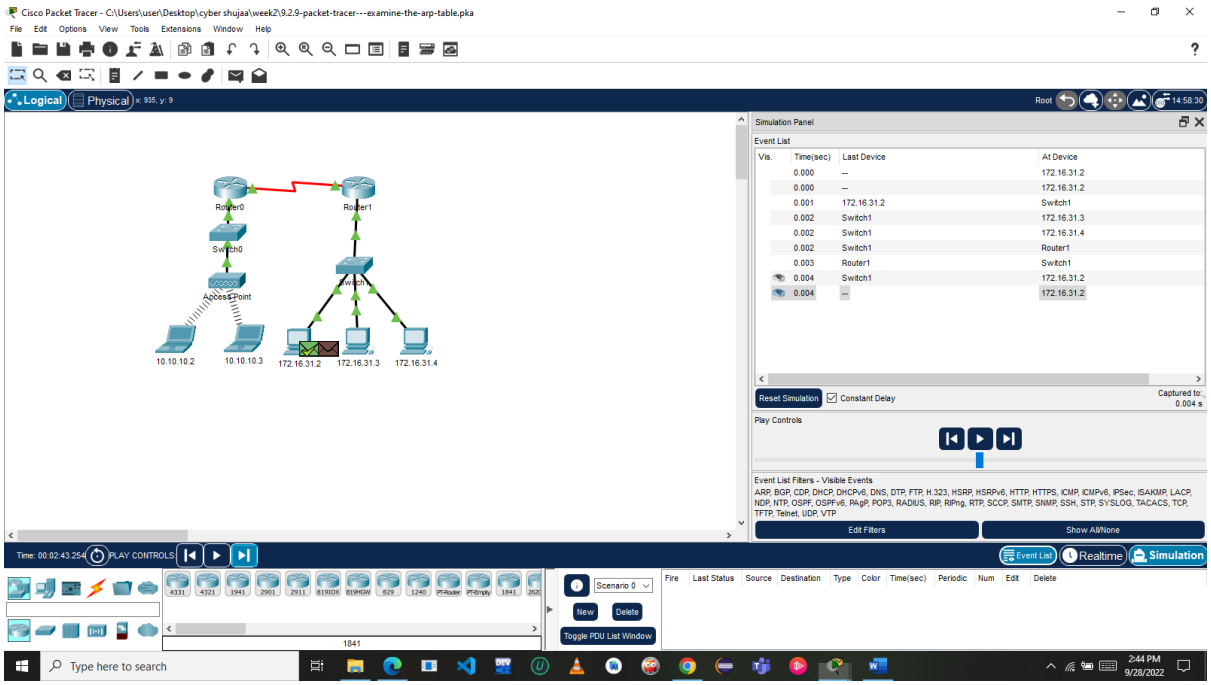


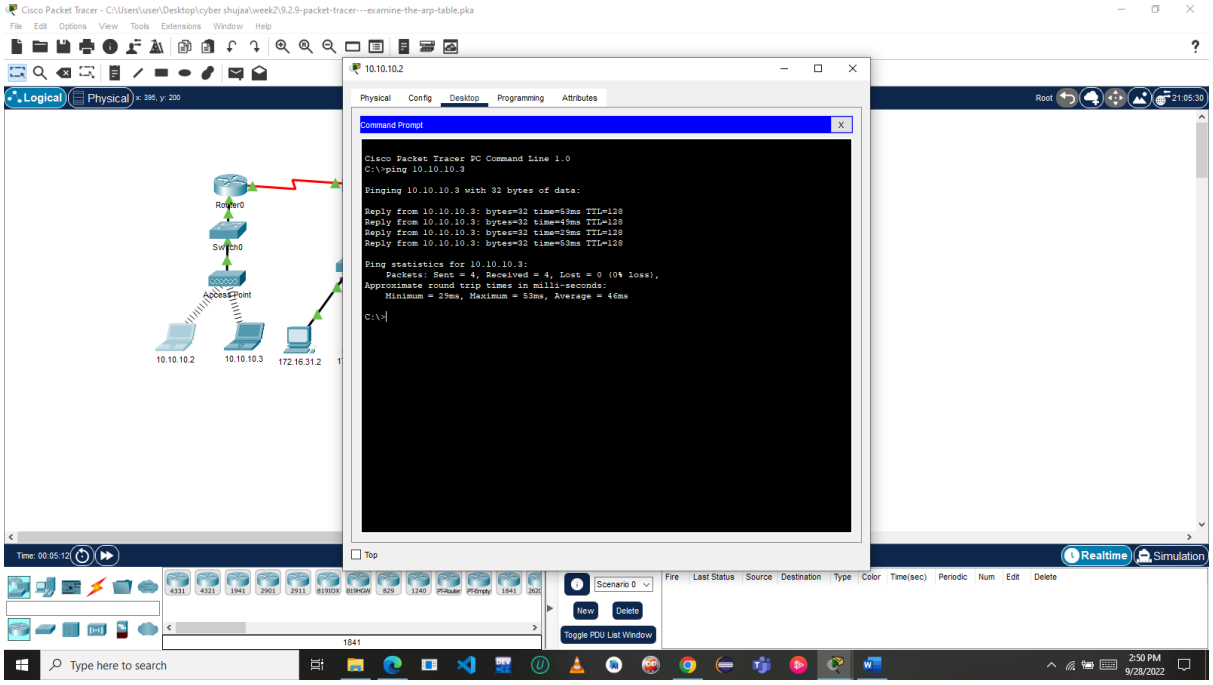
IP address of the device that accepted the PDU? 172.16.31.3

Source became destination, FFFF.FFFF.FFFF turned into MAC address of 172.16.31.3

1 copy

Step 2: Examine the ARP table

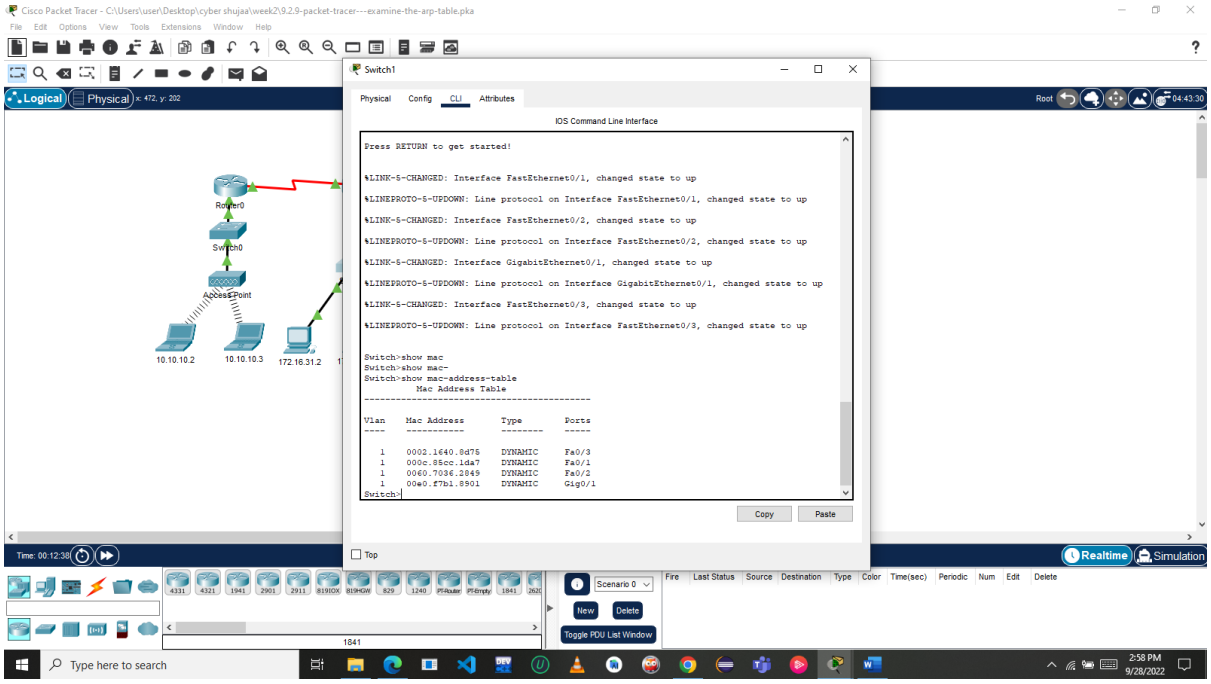


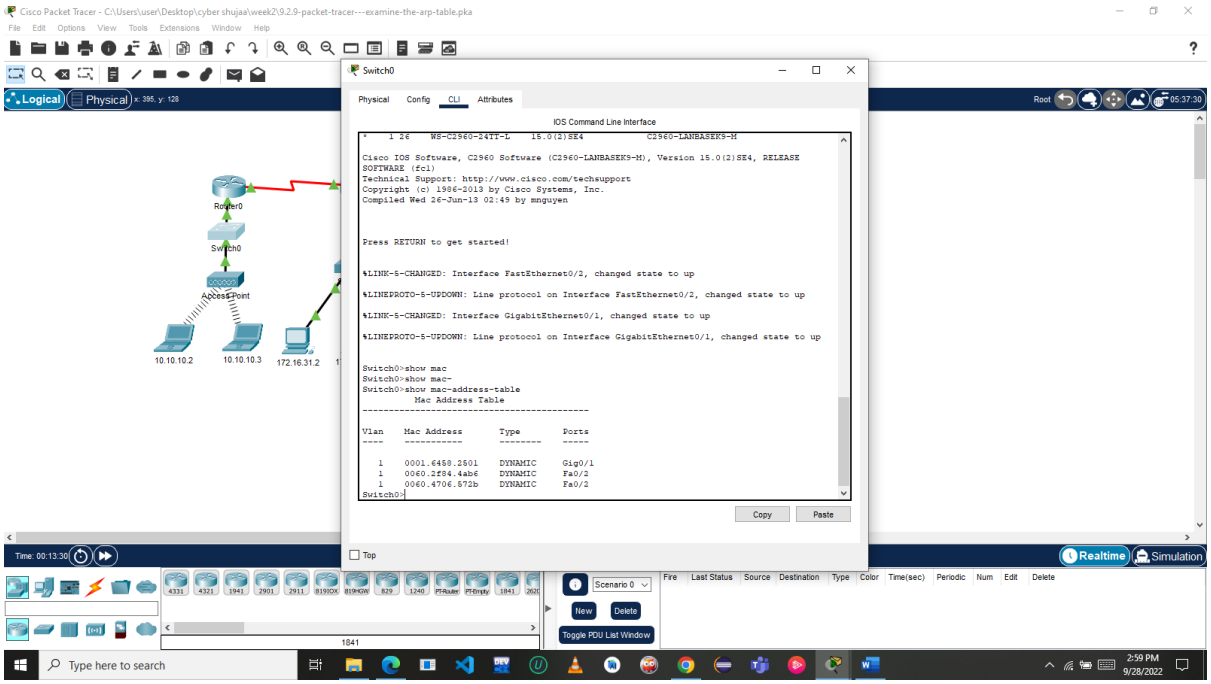


4 sent, 4 received.

Step 2: Examine the MAC address table on the switches

entries correspond to those in the table

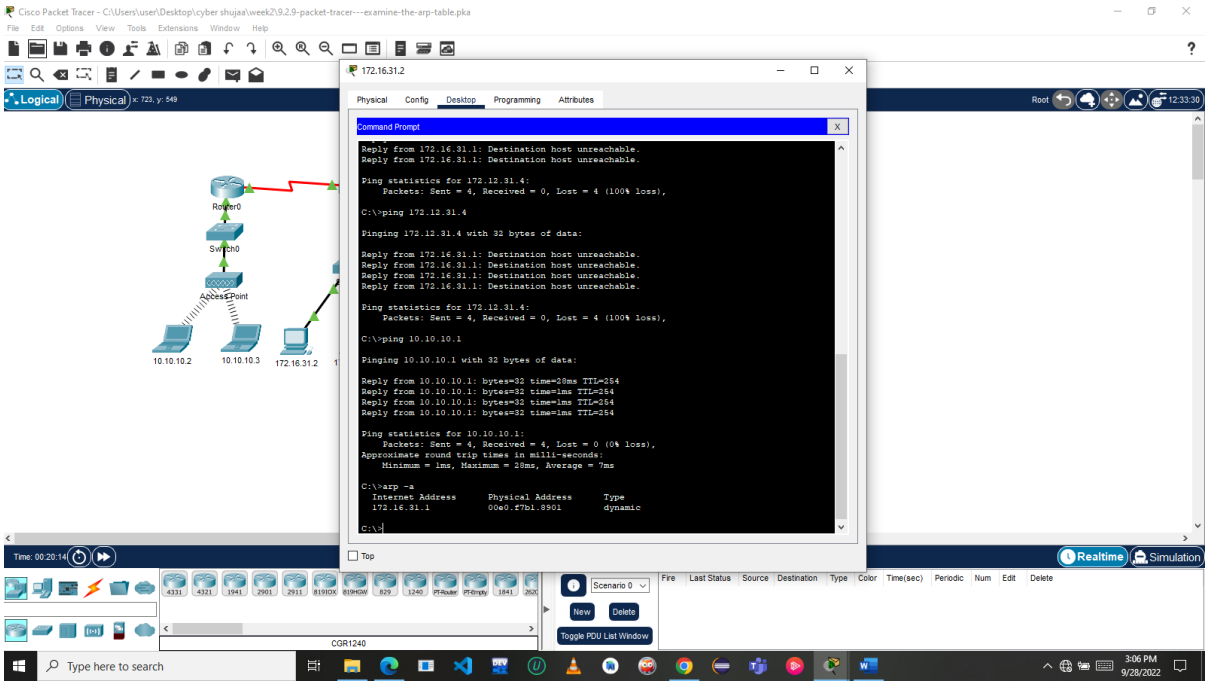


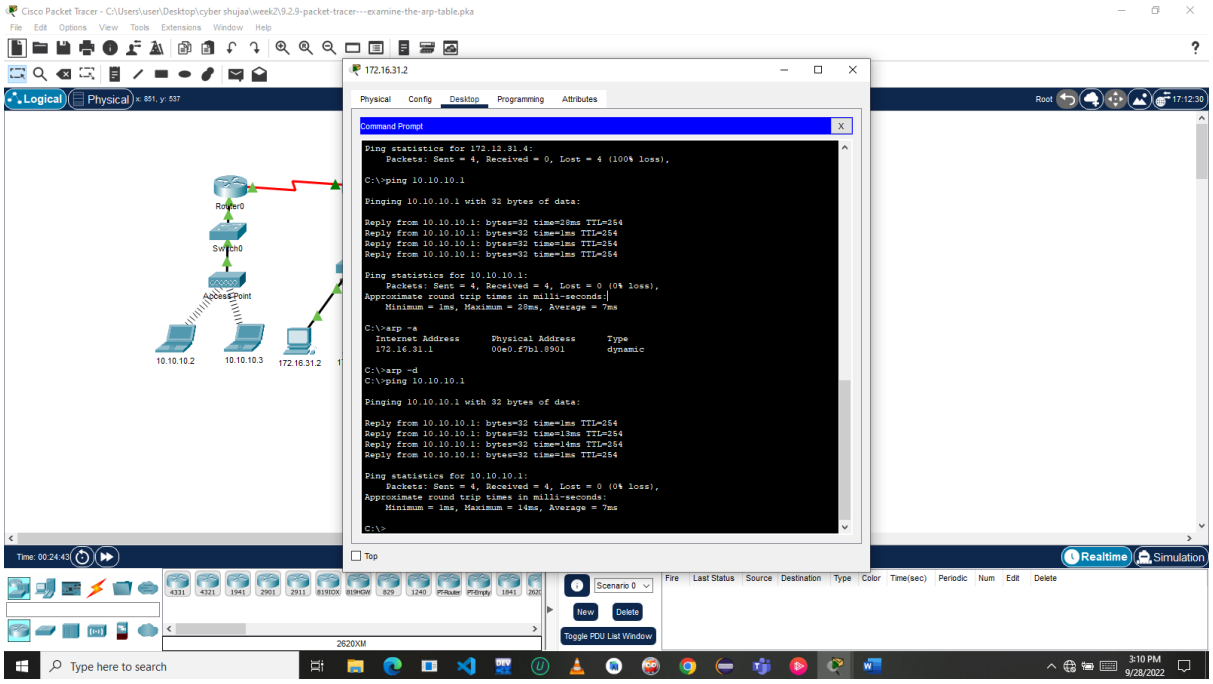


Both switch0 and switch1 the entries correspond to those in the table above

Because both devices connect to one port through the Access Point.

Part 3: Examine the ARP Process in Remote Communication





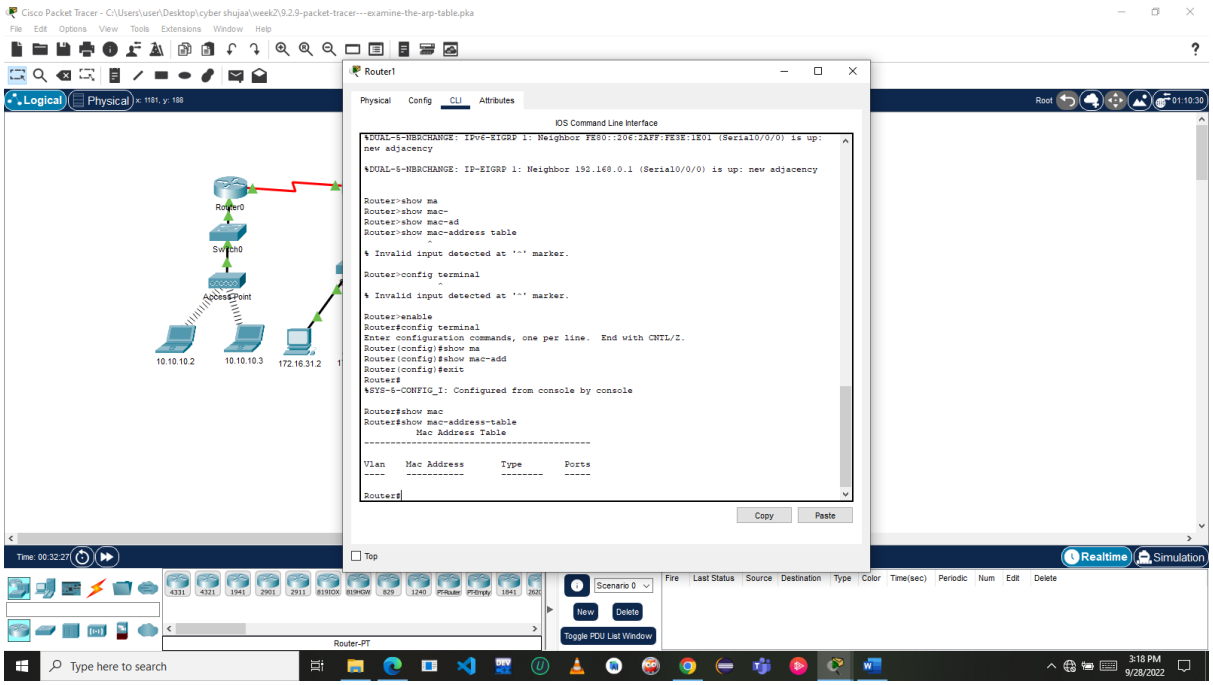
IP address of the new ARP table entry 172.16.31.1

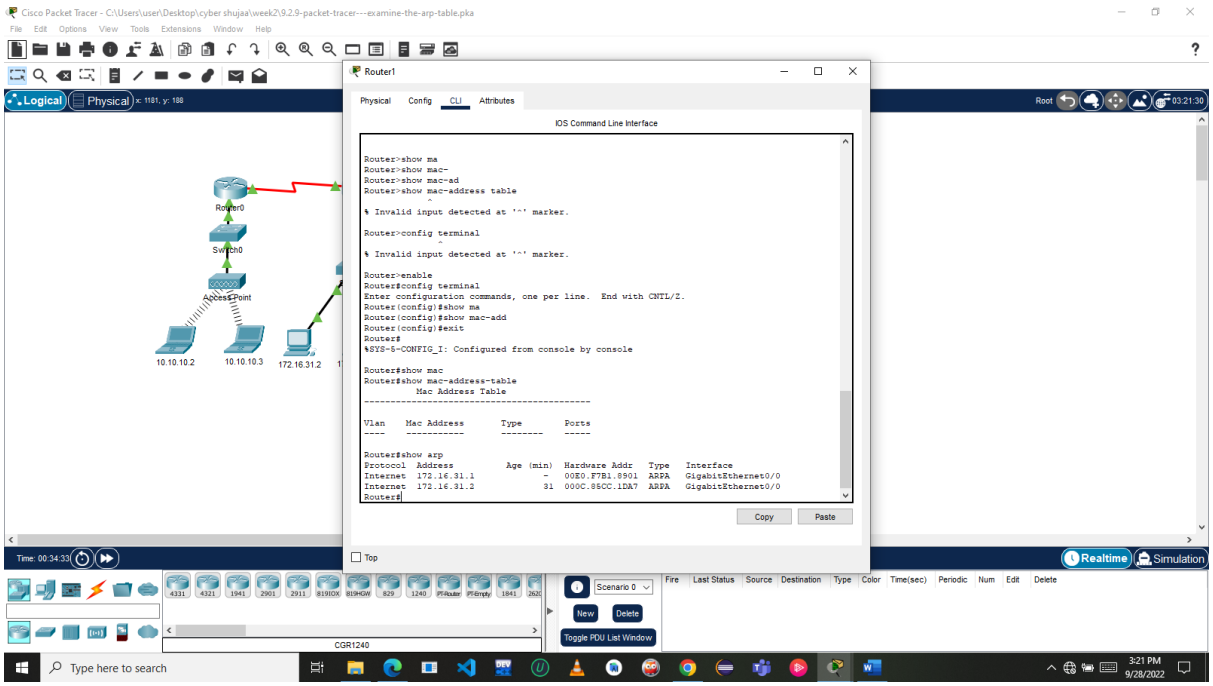
2 PDU appear

target destination IP destination address of the ARP request is 172.16.31.1

The gateway address of the router interface is stored in the IPv4 configuration of the hosts. If the receiving host is not on the same network, the source uses the ARP process to determine a MAC address for the router interface serving as the gateway.

Step 2: Examine the ARP table on Router1





Zero, this command means something completely different than the switch command show mac address-table.

There is an entry for **172.16.31.2**