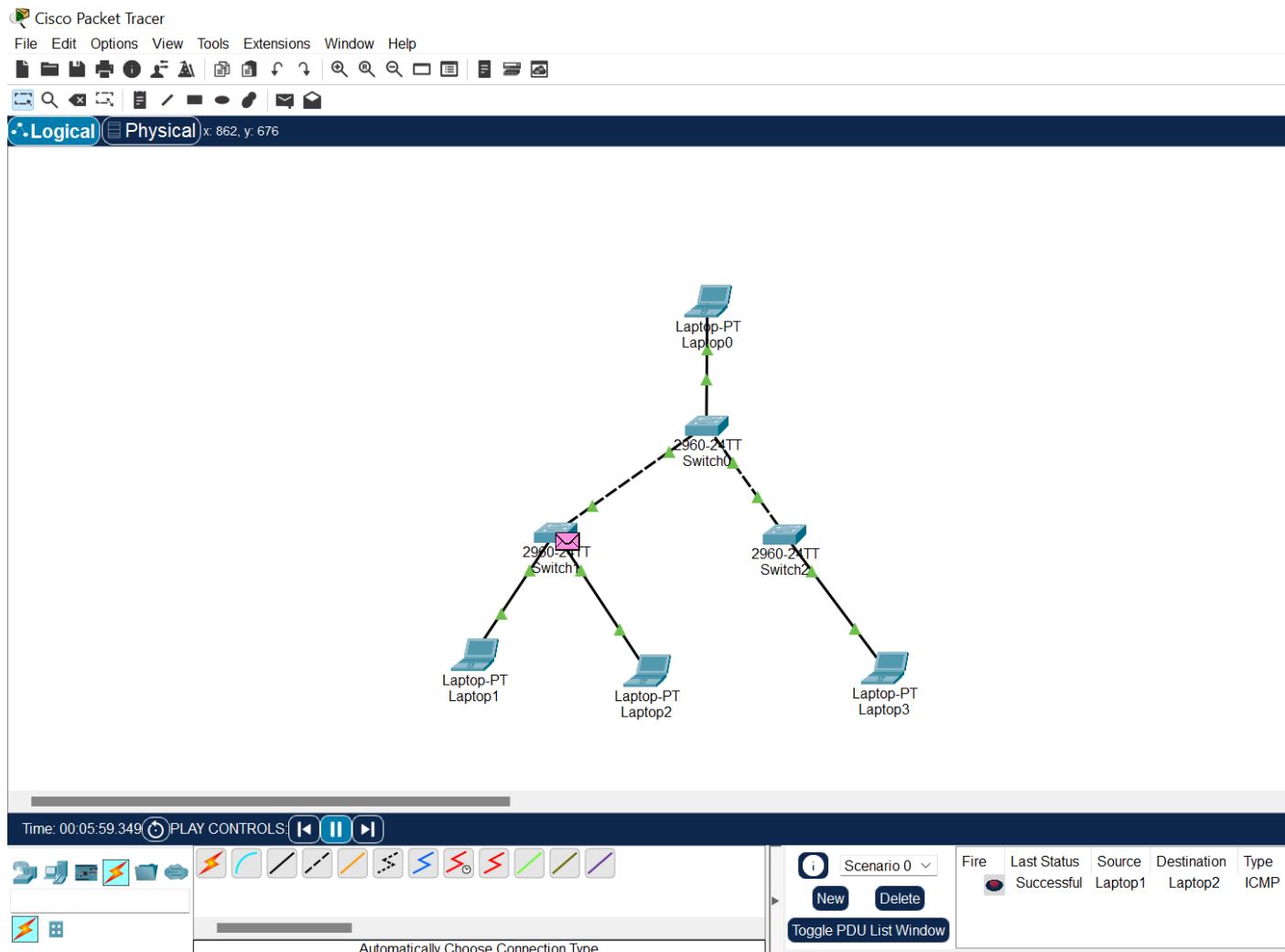
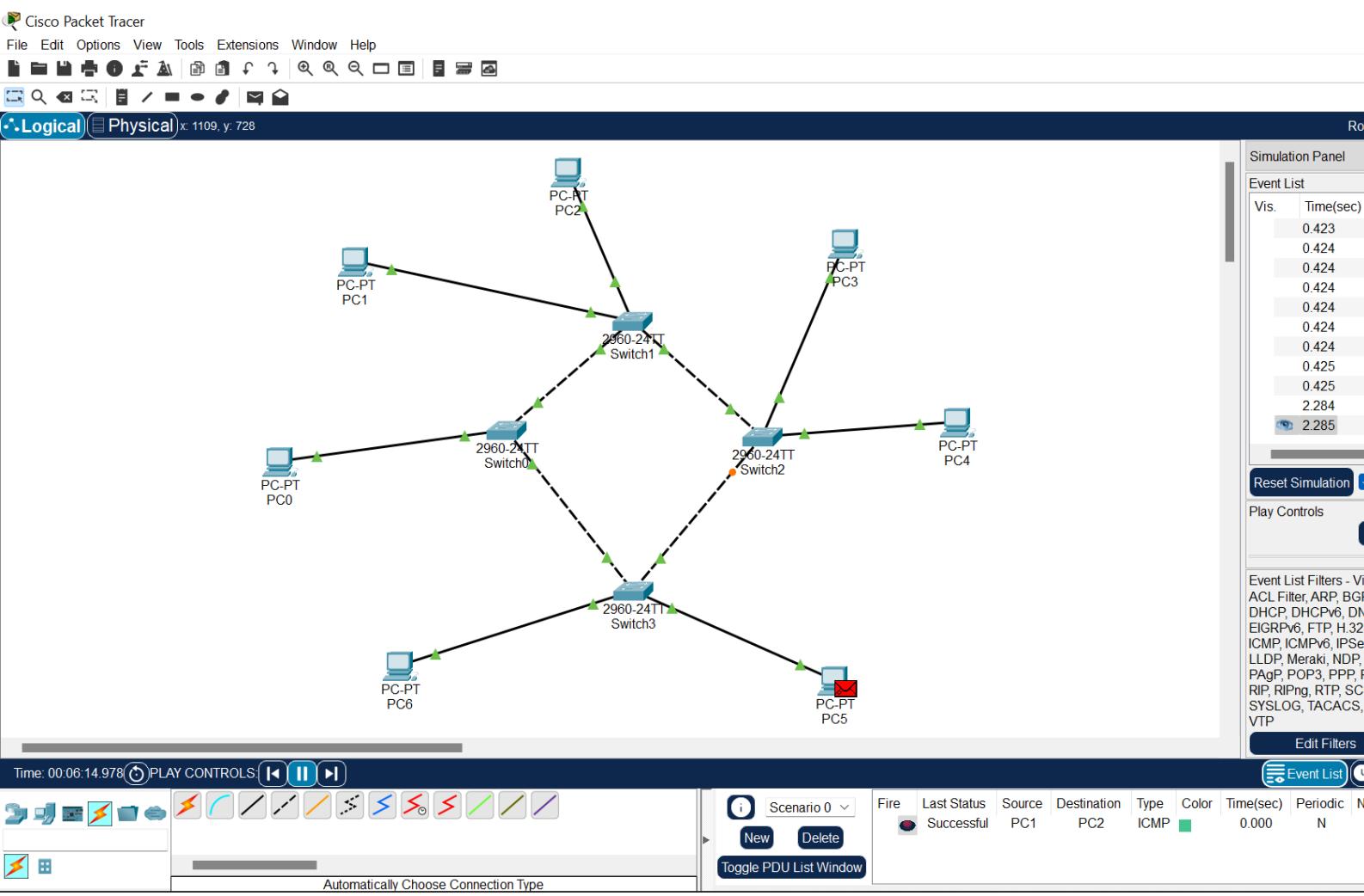


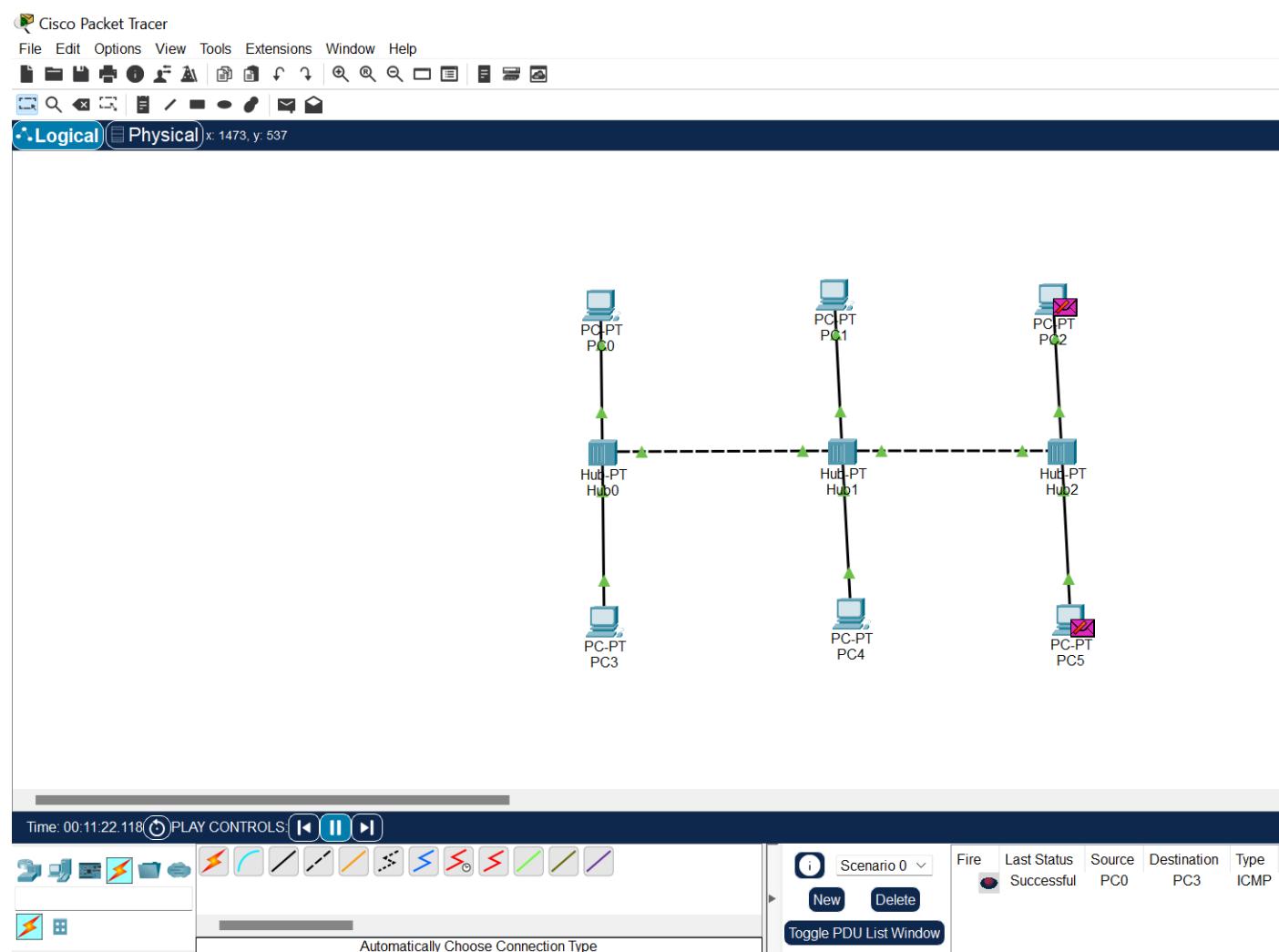
# Tree topology:



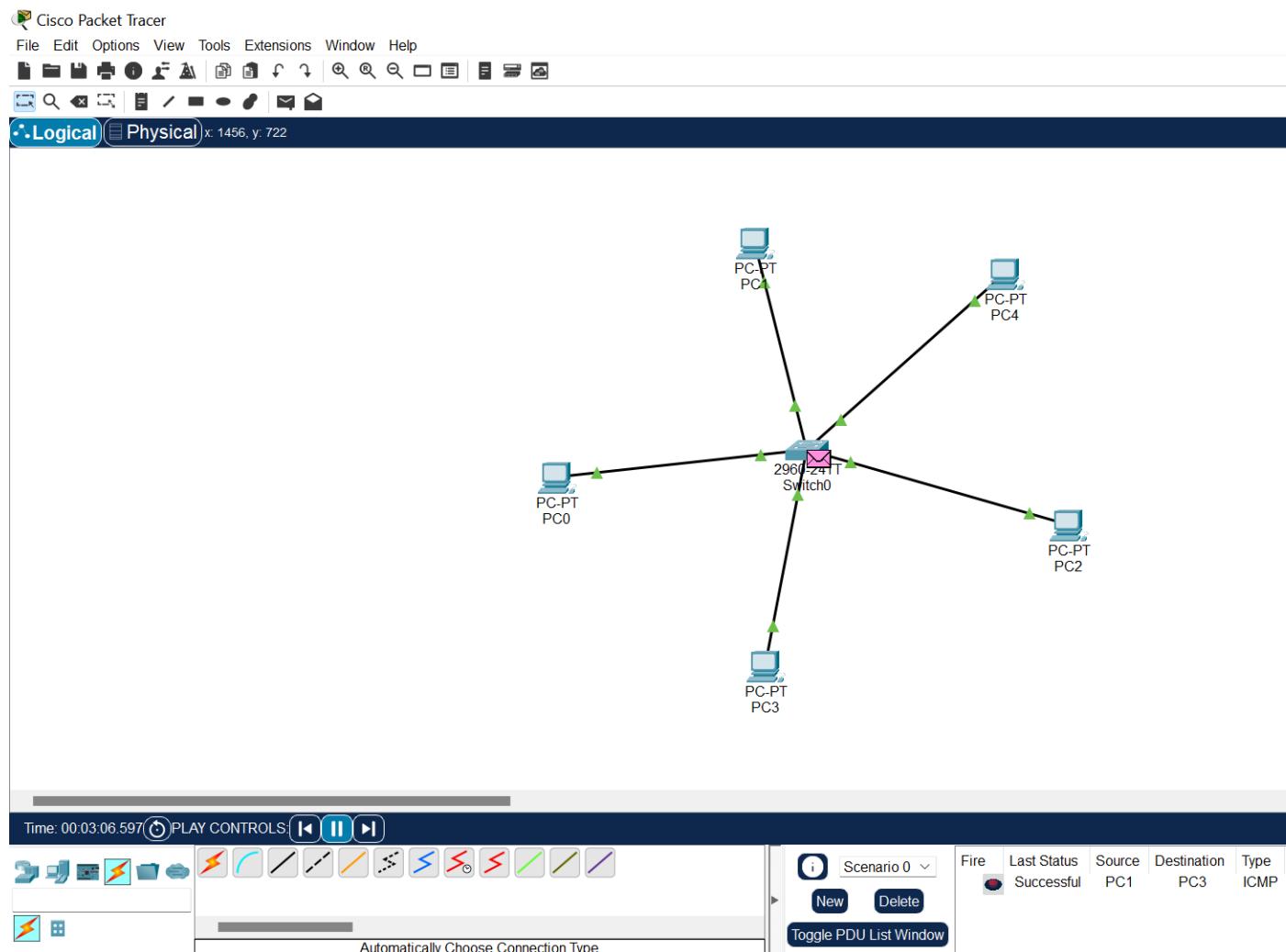
# Mesh topology:



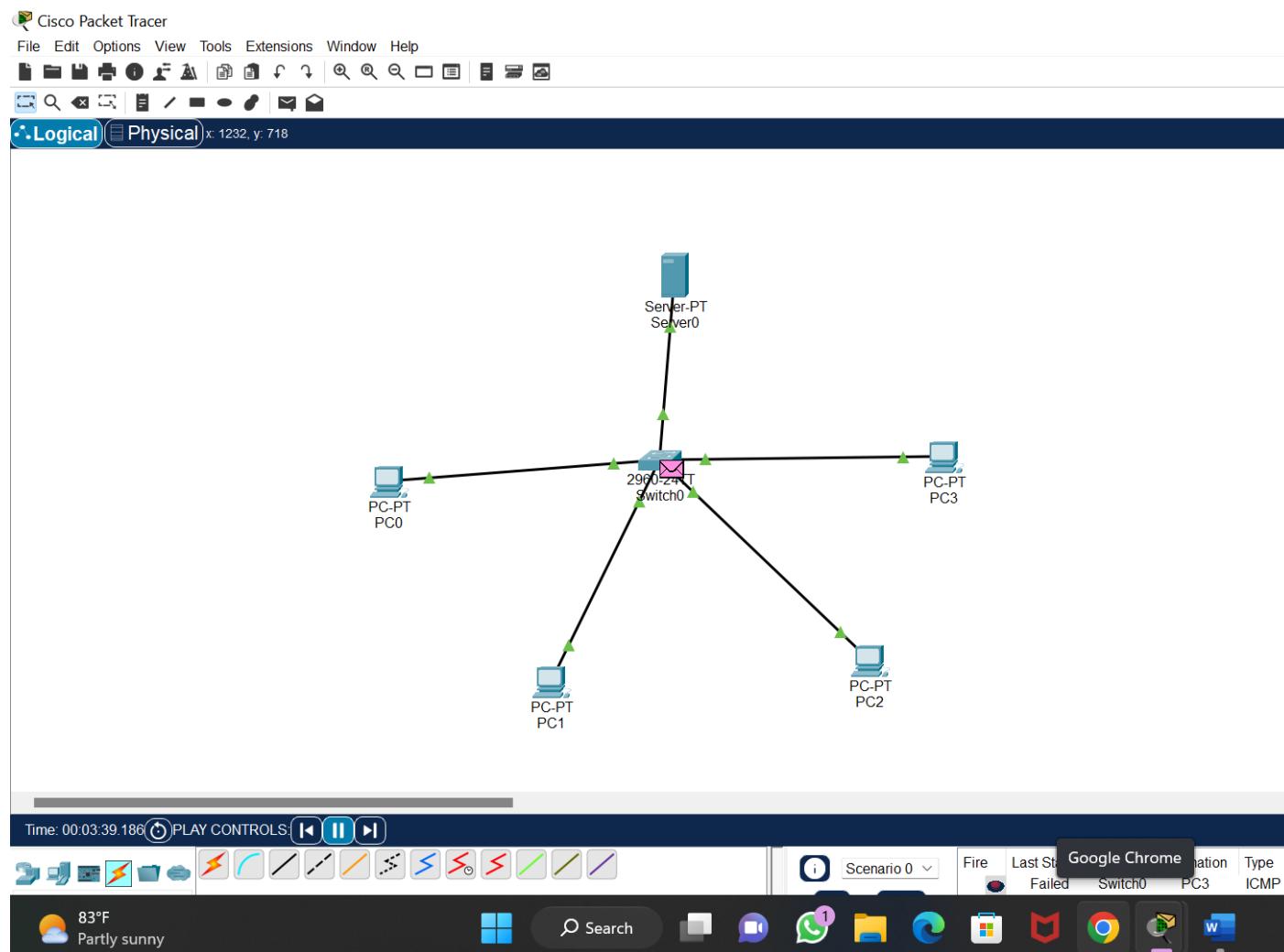
# BUS TOPOLOGY:



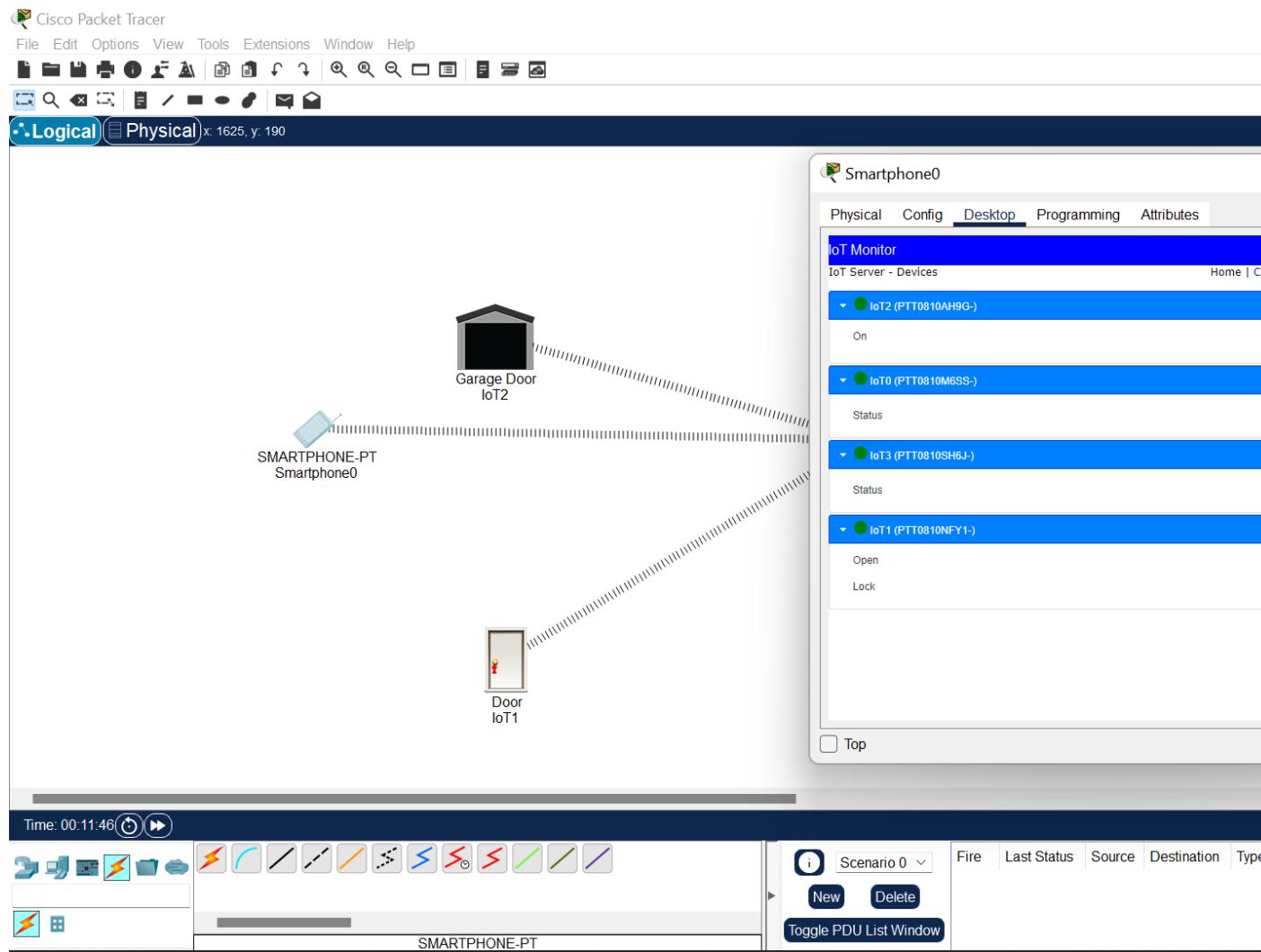
# Star topology:



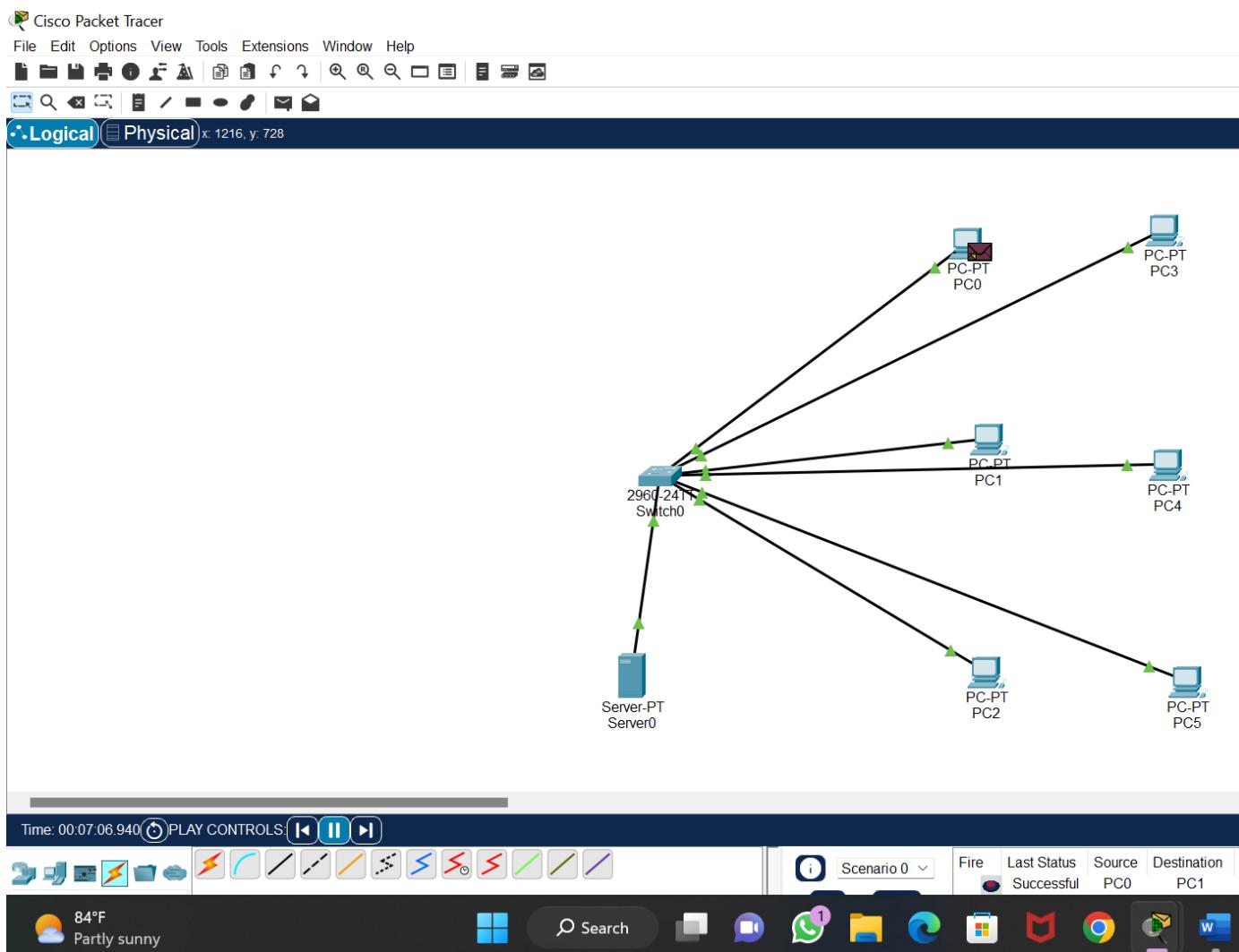
# Ring topology:



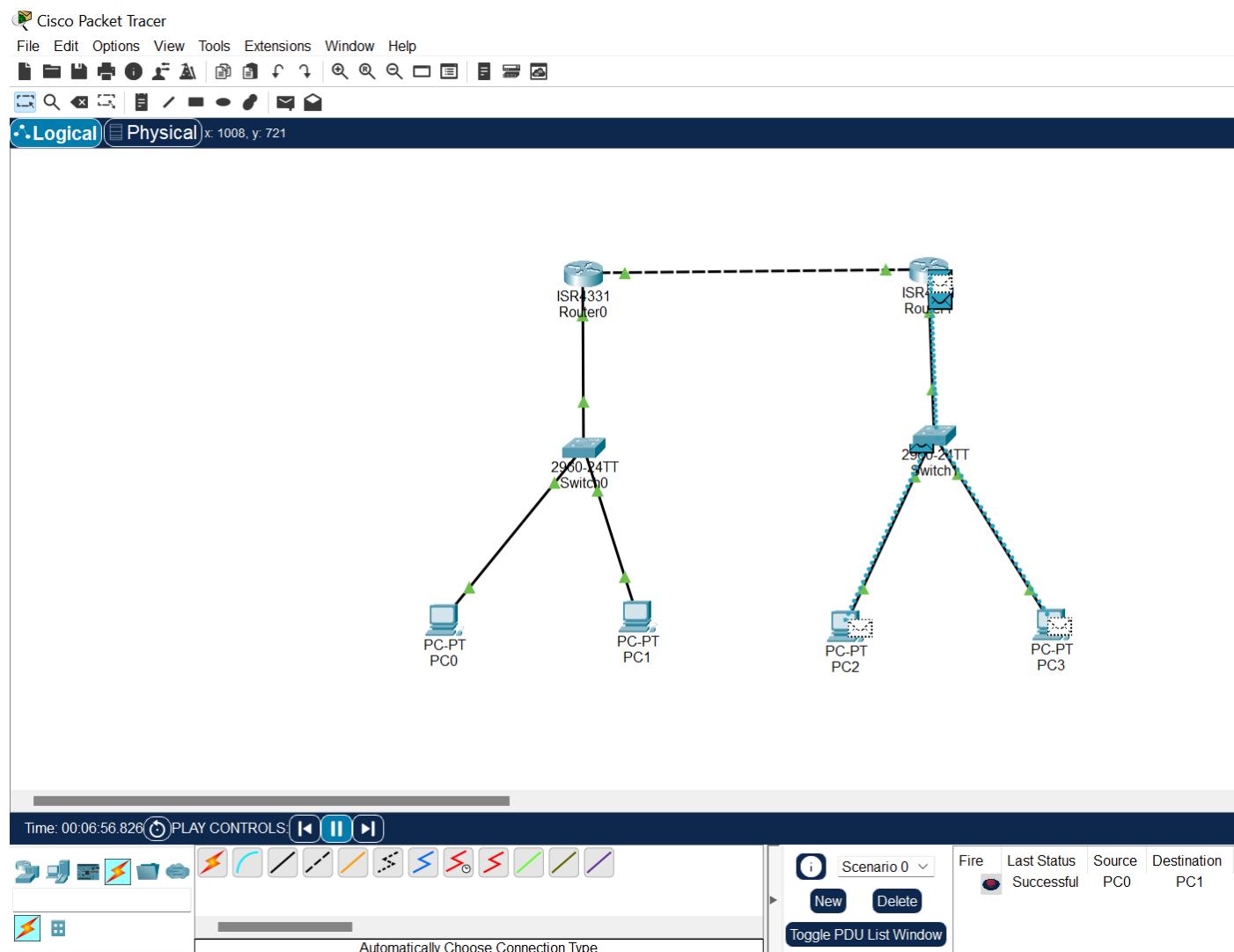
# Home gateway:



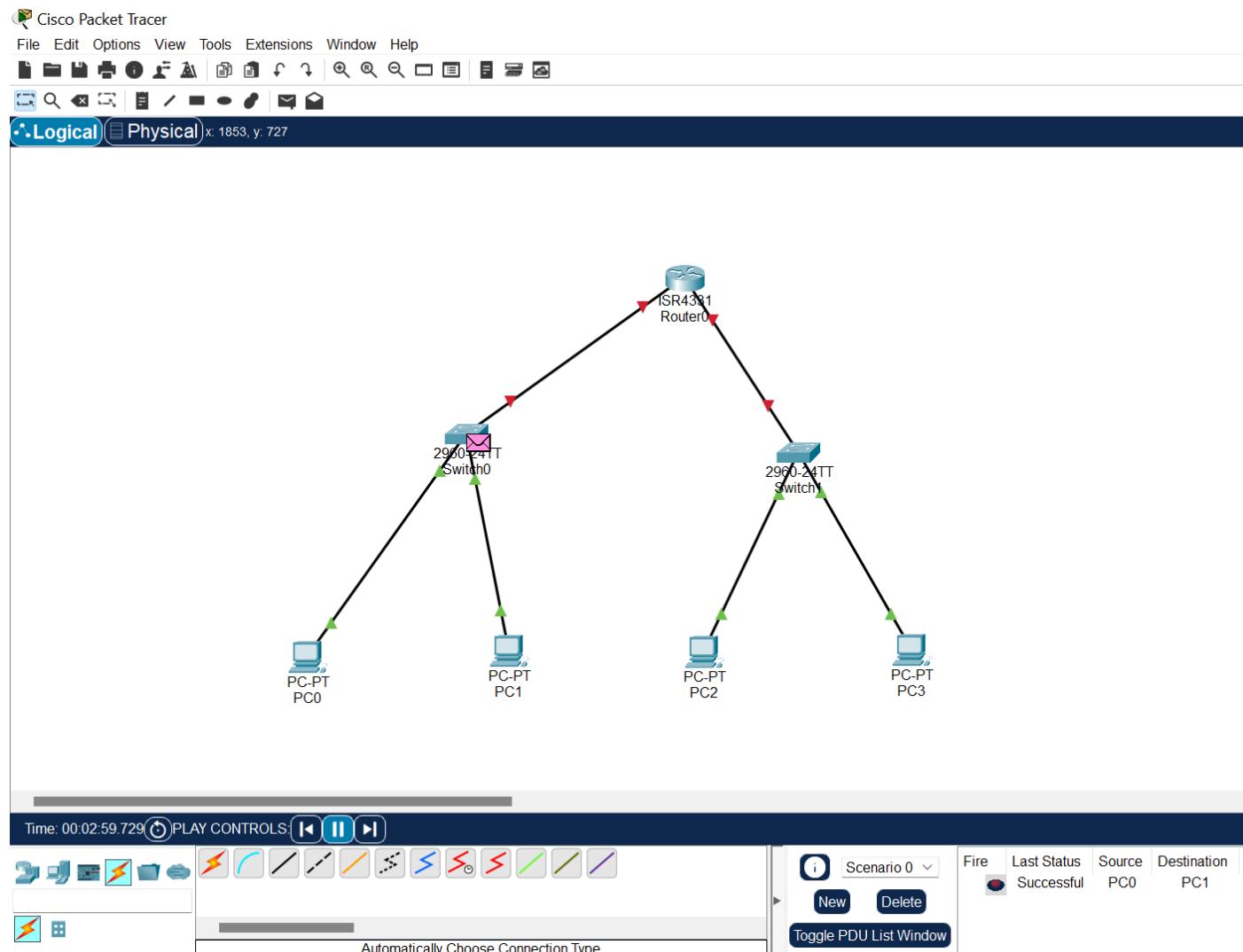
LAB  
CREATING:



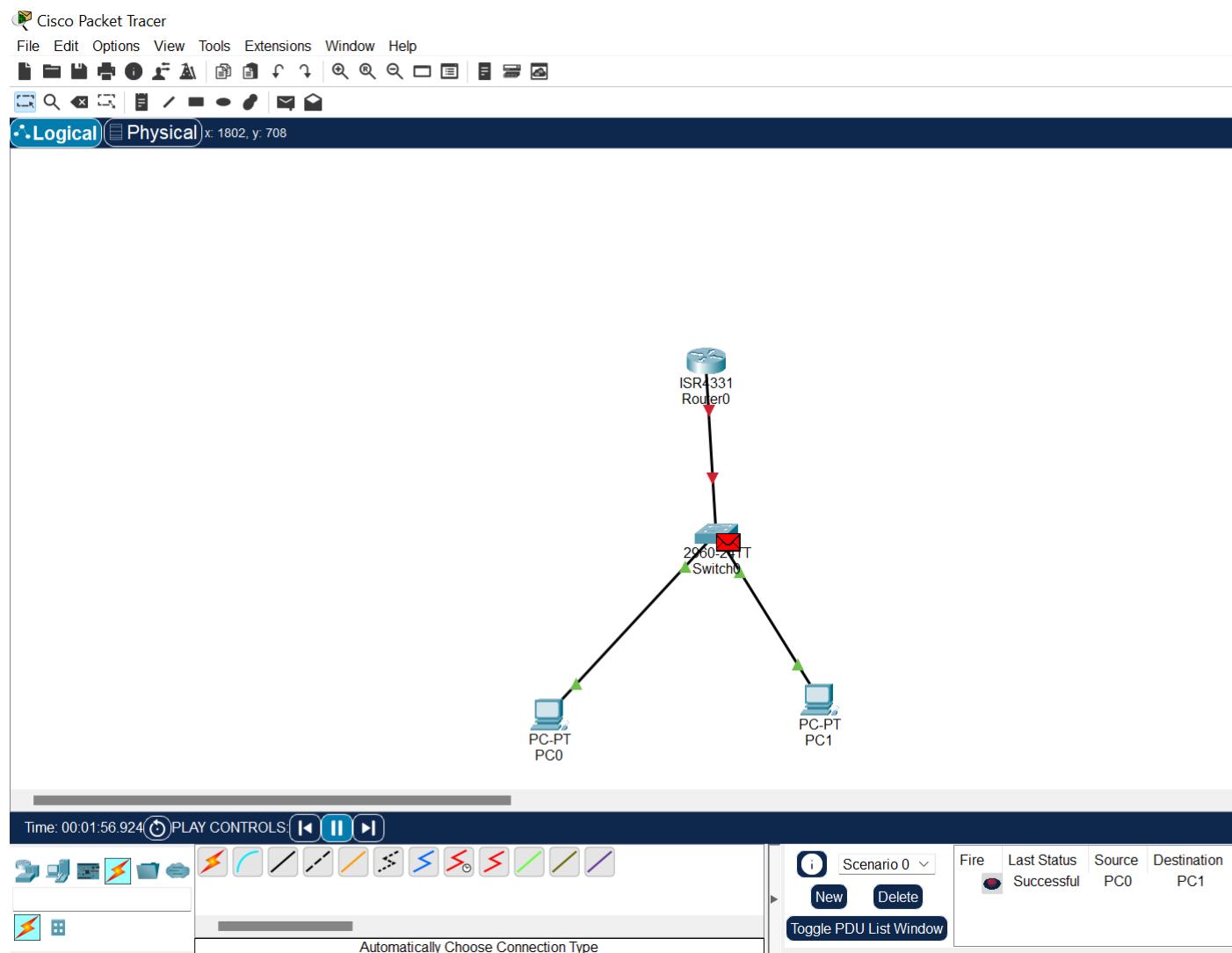
# Static routing:



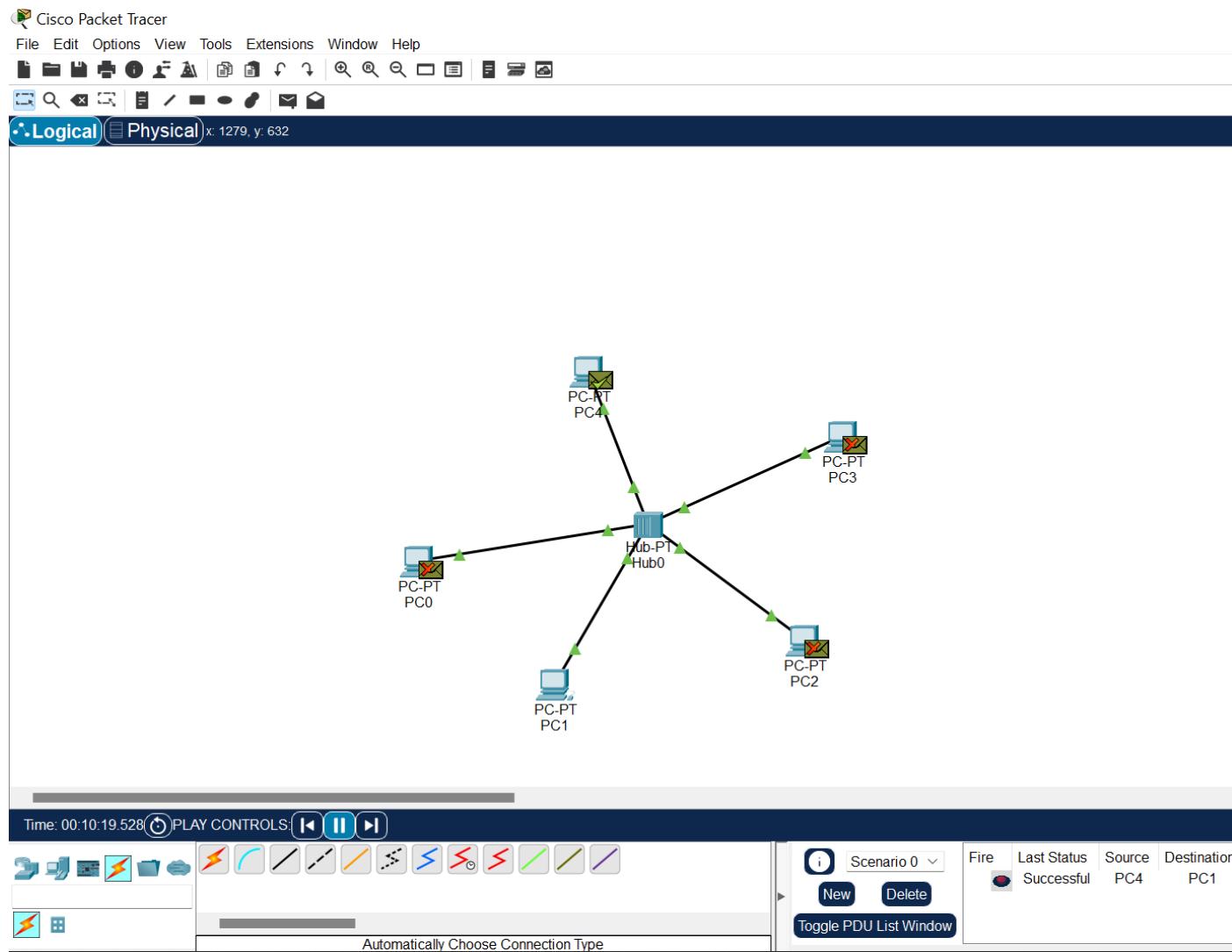
# Class c:



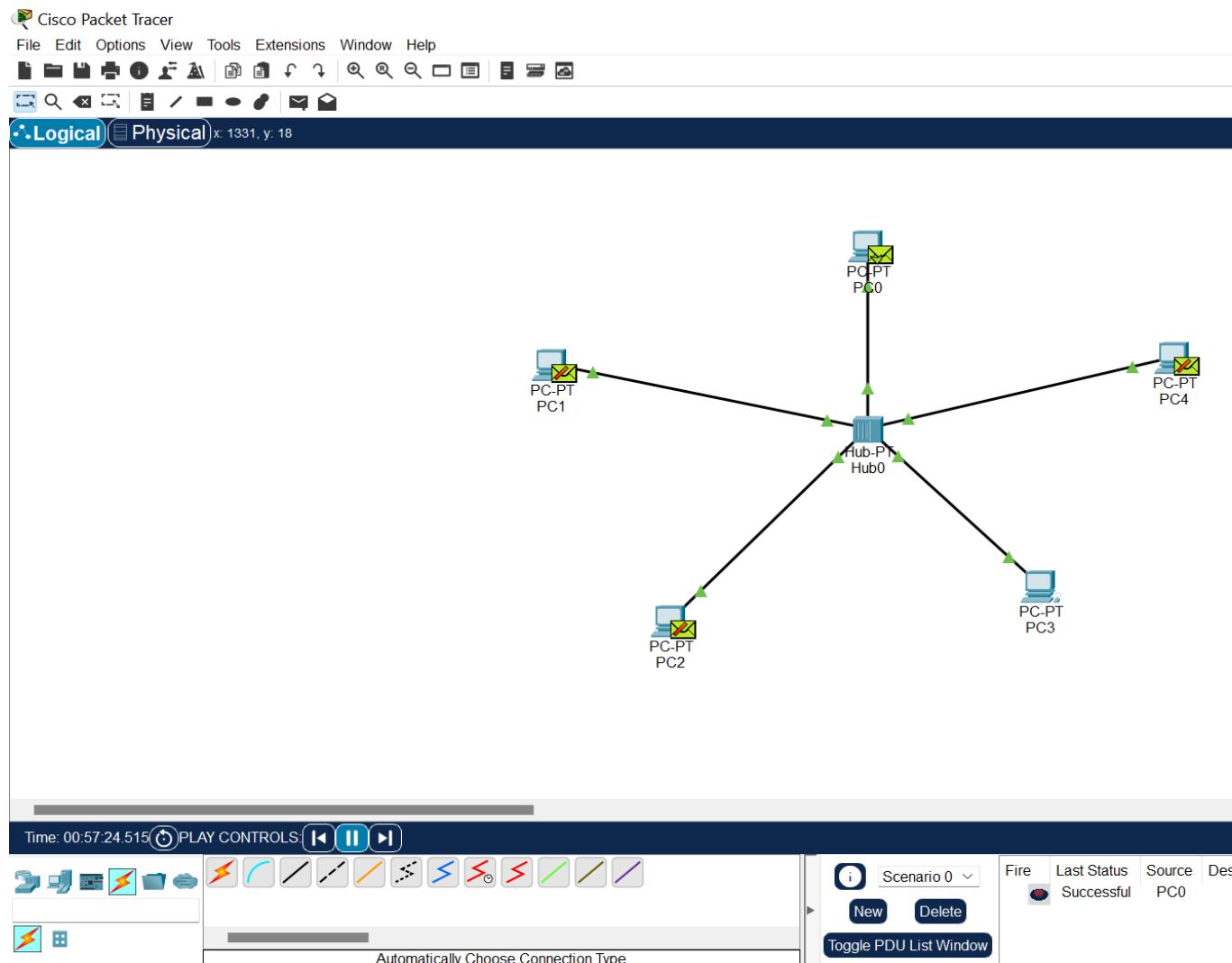
# Fire wall:



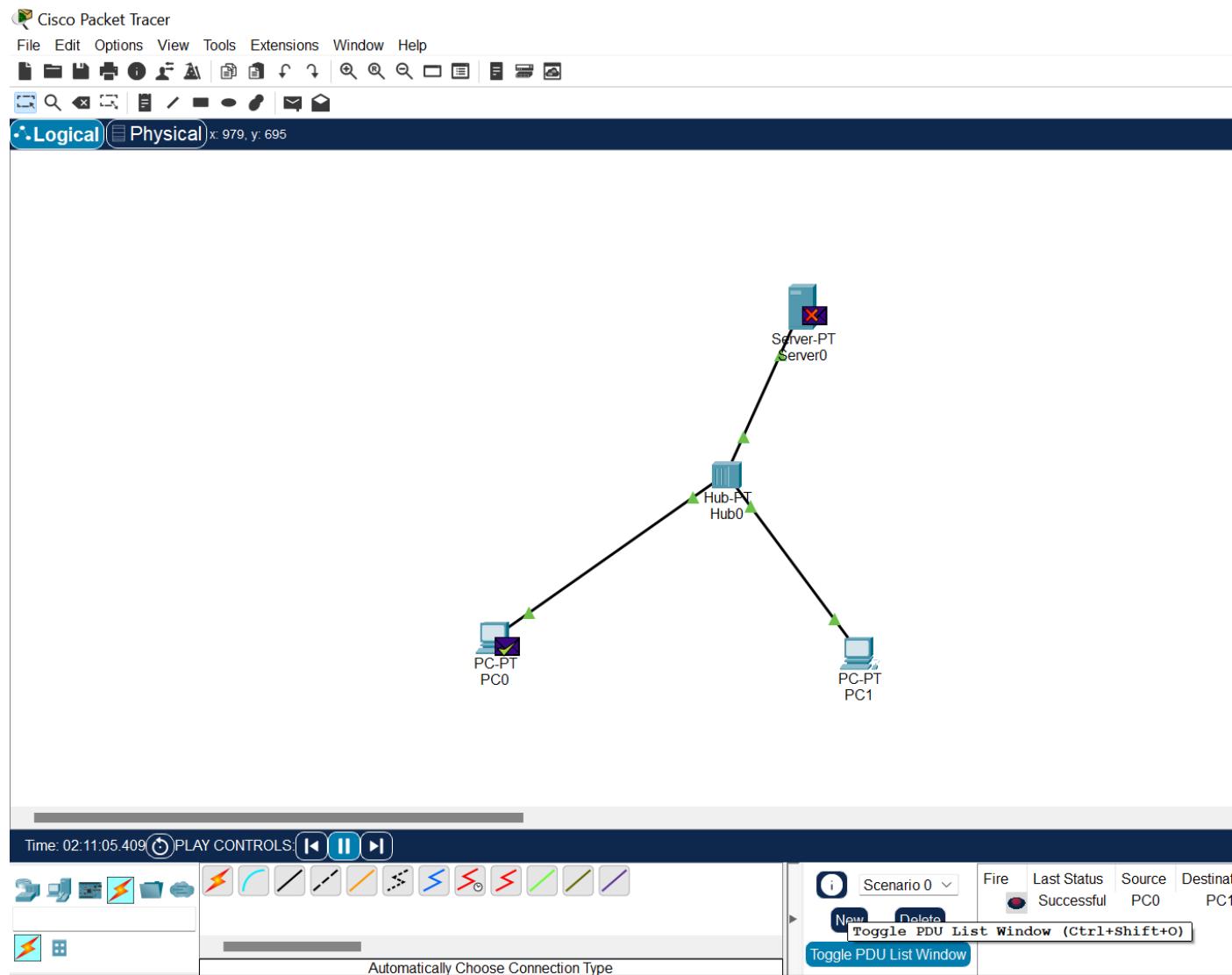
# CSMA:



# Network devices:



# Traffic simulation:



# TCP:

\*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

tcp

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	64:ff9b::346c:2c0e	2409:40f4:1009:b17b...	TLSv1.2	107	Application Data
2	0.000175	2409:40f4:1009:b17b...	64:ff9b::346c:2c0e	TCP	86	52875 → 443 [TCP ACK]
3	1.007838	64:ff9b::346c:2c0e	2409:40f4:1009:b17b...	TCP	107	[TCP Spurious ACK]
4	1.008101	2409:40f4:1009:b17b...	64:ff9b::346c:2c0e	TCP	86	[TCP Dup ACK]
7	2.703861	64:ff9b::346c:2c0e	2409:40f4:1009:b17b...	TCP	107	[TCP Spurious ACK]
8	2.704036	2409:40f4:1009:b17b...	64:ff9b::346c:2c0e	TCP	86	[TCP Dup ACK]

```

> Frame 1: 107 bytes on wire (856 bits), 107 bytes captured (856 bits) on interface \Device\NPF_{...}
> Ethernet II, Src: c6:50:09:20:e5:00 (c6:50:09:20:e5:00), Dst: AzureWav_2e:69:51 (34:6f:24:...
> Internet Protocol Version 6, Src: 64:ff9b::346c:2c0e, Dst: 2409:40f4:1009:b17b:102a:14da:5...
> Transmission Control Protocol, Src Port: 443, Dst Port: 52875, Seq: 1, Ack: 1, Len: 33
> Transport Layer Security

```

```

0000  34 6f 24 2e 69 51 c6 50  09 20 e5 00 86 dd 60 00  4o$.iQ·P · . . .` .
0010  00 00 00 35 06 6d 00 64  ff 9b 00 00 00 00 00 00  ...5·m·d .....
0020  00 00 34 6c 2c 0e 24 09  40 f4 10 09 b1 7b 10 2a  ..41,.·$· @· .{· *·
0030  14 da 57 92 16 22 01 bb  ce 8b f3 4a e7 d1 6b 3c  ..·W··"·· · · J · k<
0040  4a 0c 50 18 07 fe 45 92  00 00 17 03 03 00 1c 00  J · P · · E · .....
0050  00 00 00 00 00 00 04 39  68 2f 25 1a 2d b4 b1 e6  .....9 h/% · · · ·
0060  96 d3 31 de 61 da 0e 76  e1 97 26  ..1·a··v · · &
```

Transmission Control Protocol: Protocol

# UDP:

\*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

udp

No.	Time	Source	Destination	Protocol	Length	Info
28	15.483749	192.168.216.175	192.168.216.75	DNS	75	Standard query
29	15.484223	192.168.216.175	192.168.216.75	DNS	75	Standard query
30	15.566725	192.168.216.75	192.168.216.175	DNS	297	Standard query
31	15.566725	192.168.216.75	192.168.216.175	DNS	309	Standard query
133	39.275403	192.168.216.175	192.168.216.75	DNS	74	Standard query
134	39.275562	192.168.216.175	192.168.216.75	DNS	74	Standard query

```
> Frame 28: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface \Device\NPF_{...}
> Ethernet II, Src: AzureWav_2e:69:51 (34:6f:24:2e:69:51), Dst: c6:50:09:20:e5:00 (c6:50:09:20:e5:00)
> Internet Protocol Version 4, Src: 192.168.216.175, Dst: 192.168.216.75
> User Datagram Protocol, Src Port: 49673, Dst Port: 53
> Domain Name System (query)
```

0000	c6 50 09 20 e5 00 34 6f 24 2e 69 51 08 00 45 00	.P. .4o \$.iQ..E.
0010	00 3d 4f 8e 00 00 80 11 b8 d5 c0 a8 d8 af c0 a8	.=0..... .......
0020	d8 4b c2 09 00 35 00 29 f8 28 dc 05 01 00 00 01	.K...5.) .(.....
0030	00 00 00 00 00 00 01 64 04 64 6f 63 73 04 6c 69	.....d .docs.li
0040	76 65 03 6e 65 74 00 00 01 00 01	ve.net.. . .

User Datagram Protocol: Protocol

# Arp:

\*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help



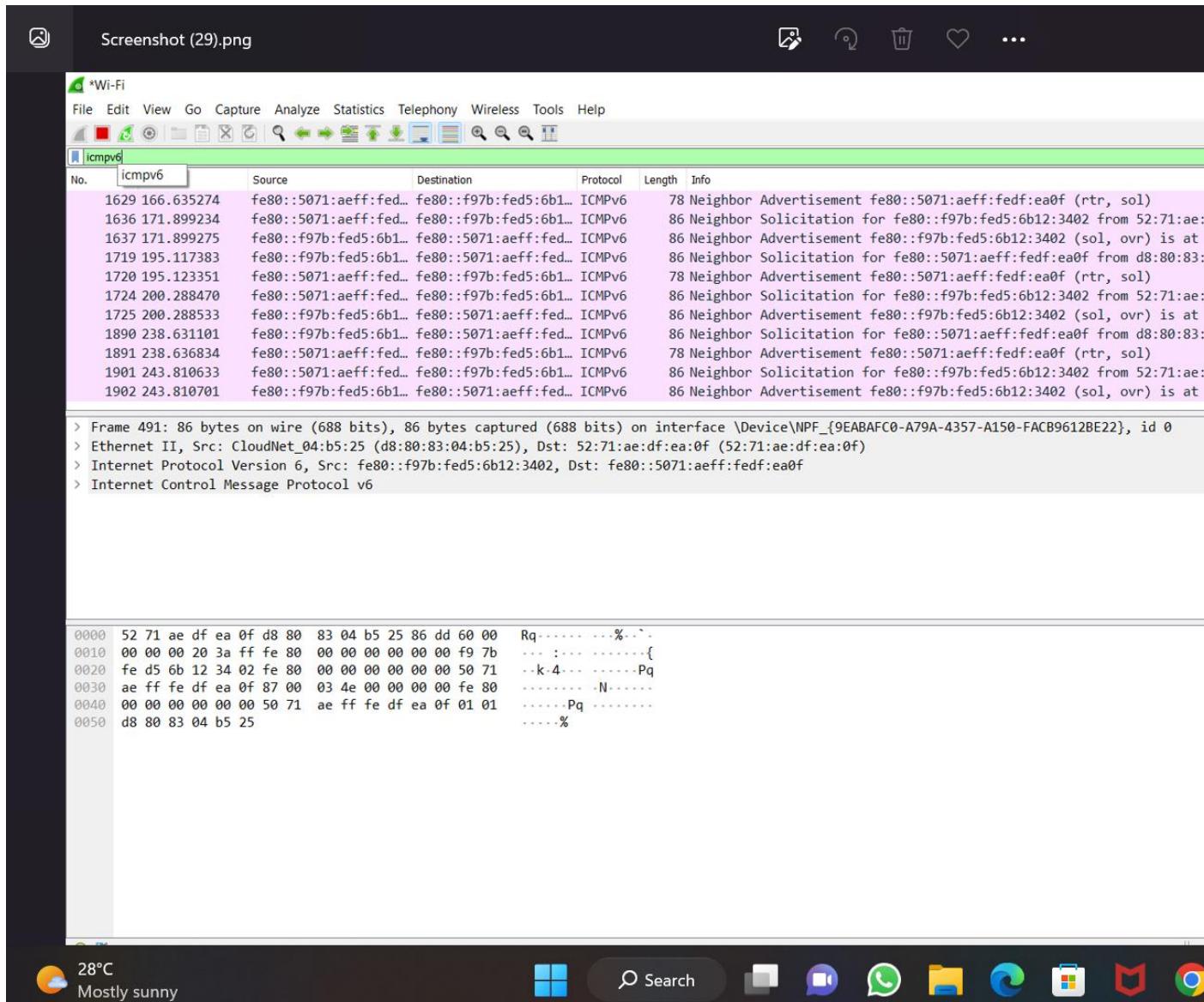
0000 34 6f 24 2e 69 51 c6 50 09 20 e5 00 08 06 00 01 40\$.iQ.P . ....  
0010 08 00 06 04 00 01 c6 50 09 20 e5 00 c0 a8 d8 4b .....P . ....K  
0020 00 00 00 00 00 00 c0 a8 d8 af .....



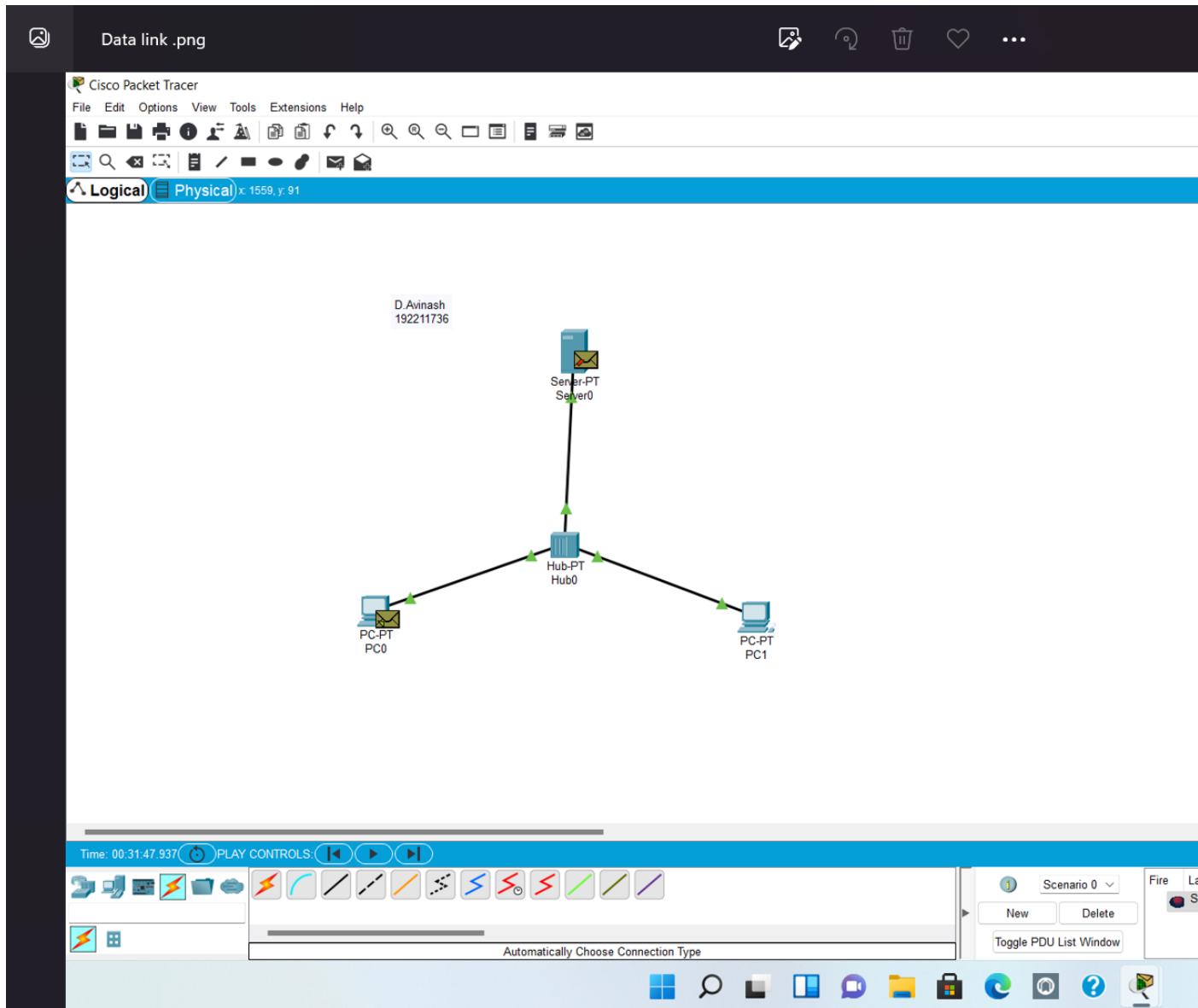
Address Resolution Protocol: Protocol

Pack

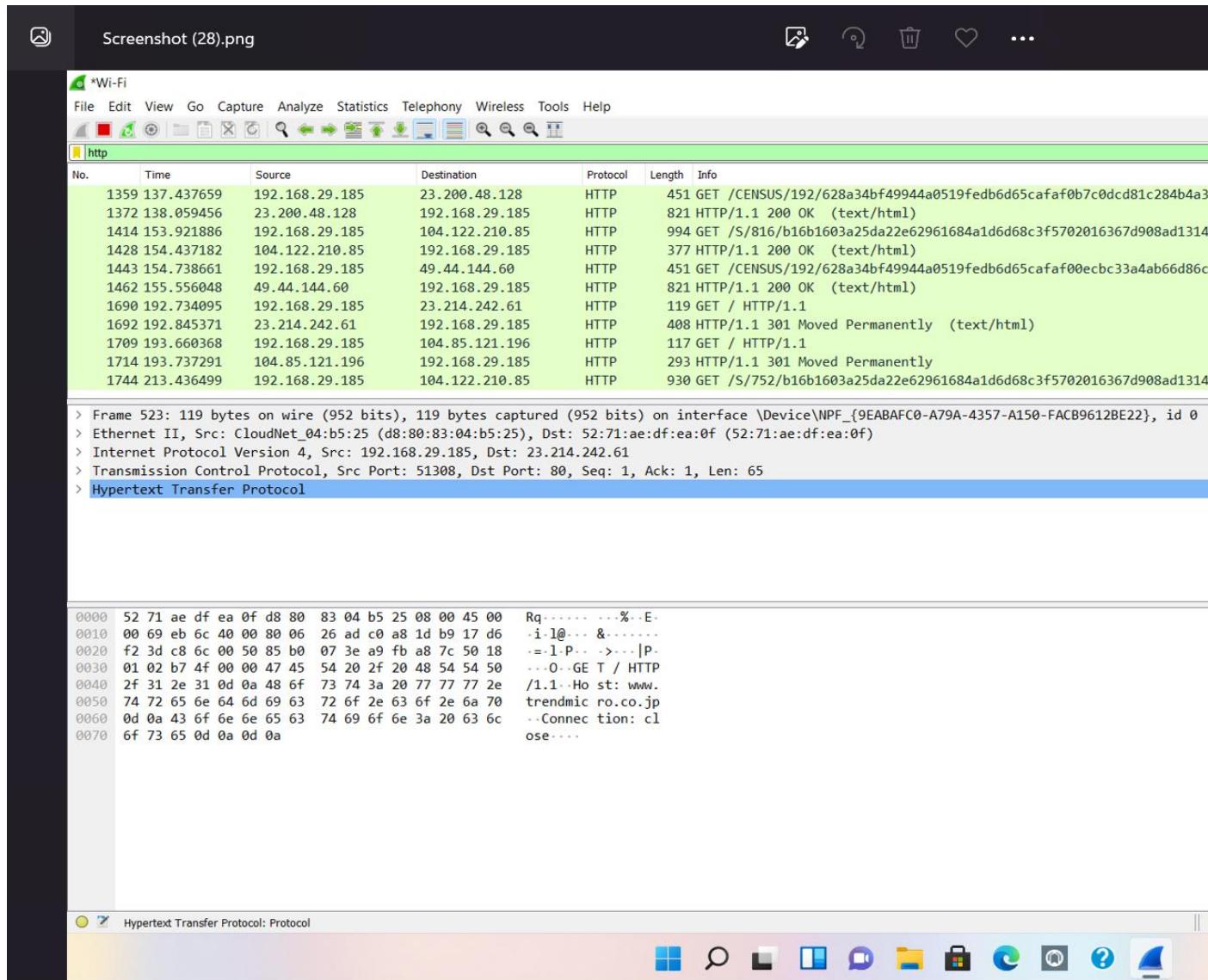
# Icmpv6:



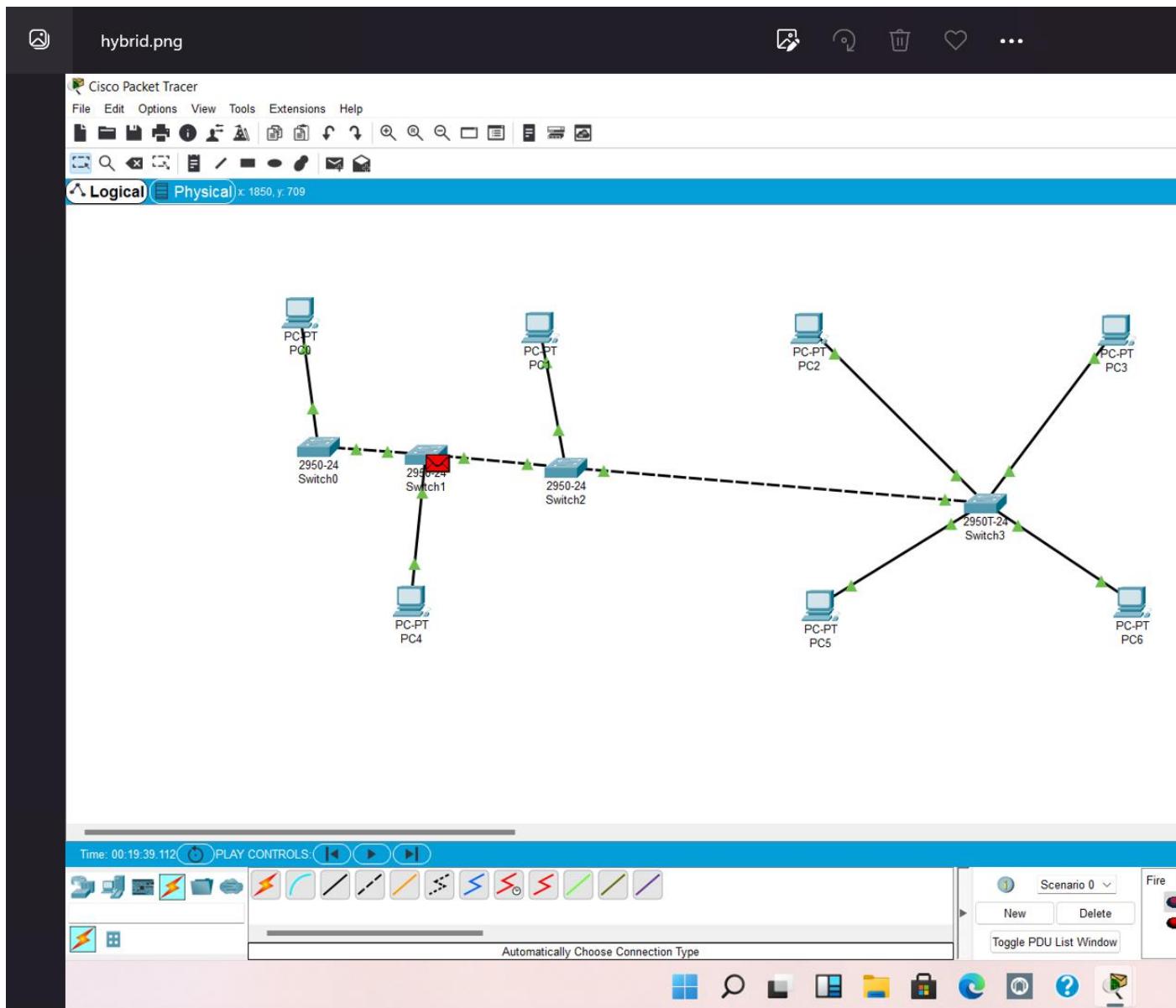
# Data link layer:



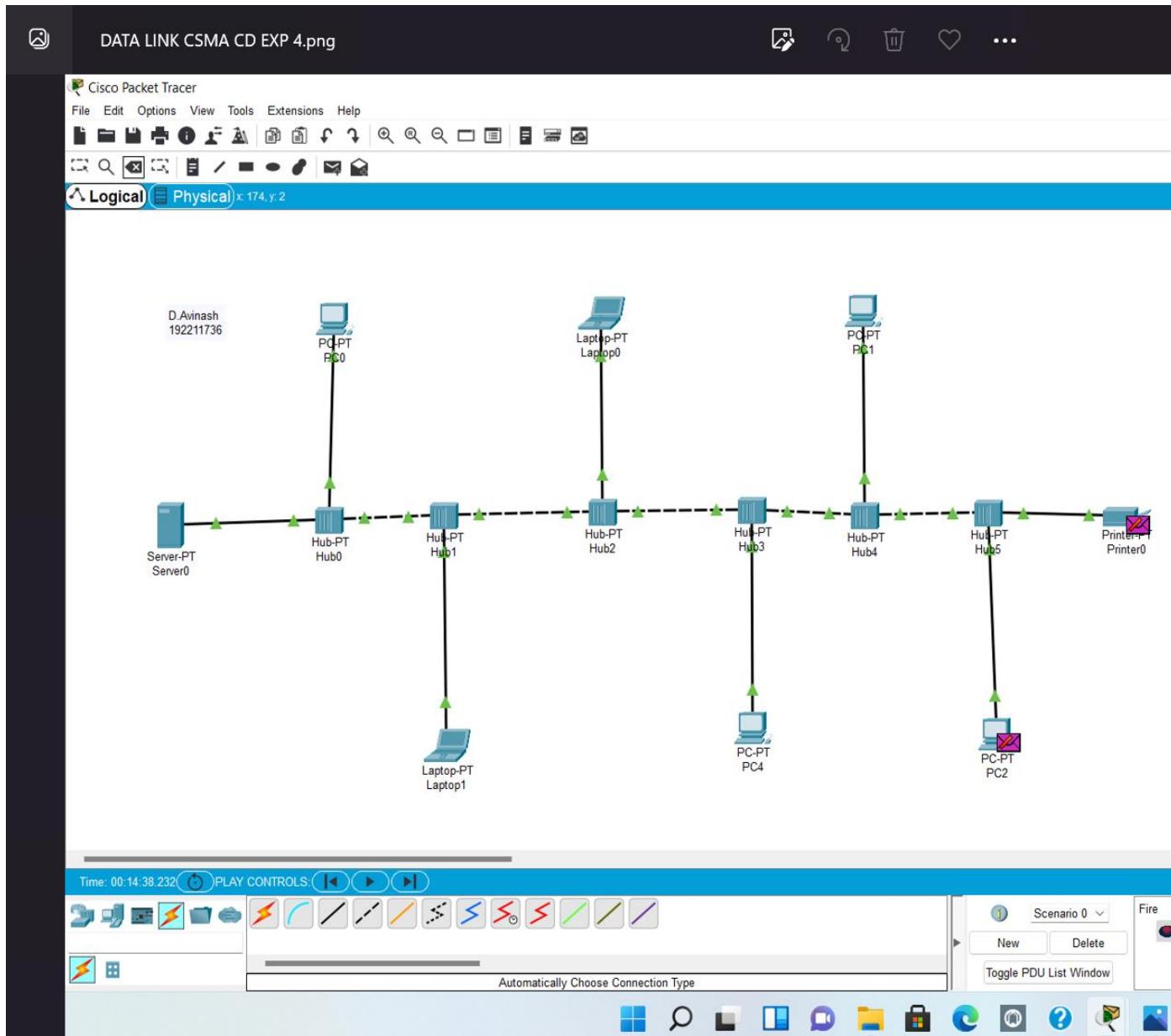
# HTTP :



# Hybrid topology:

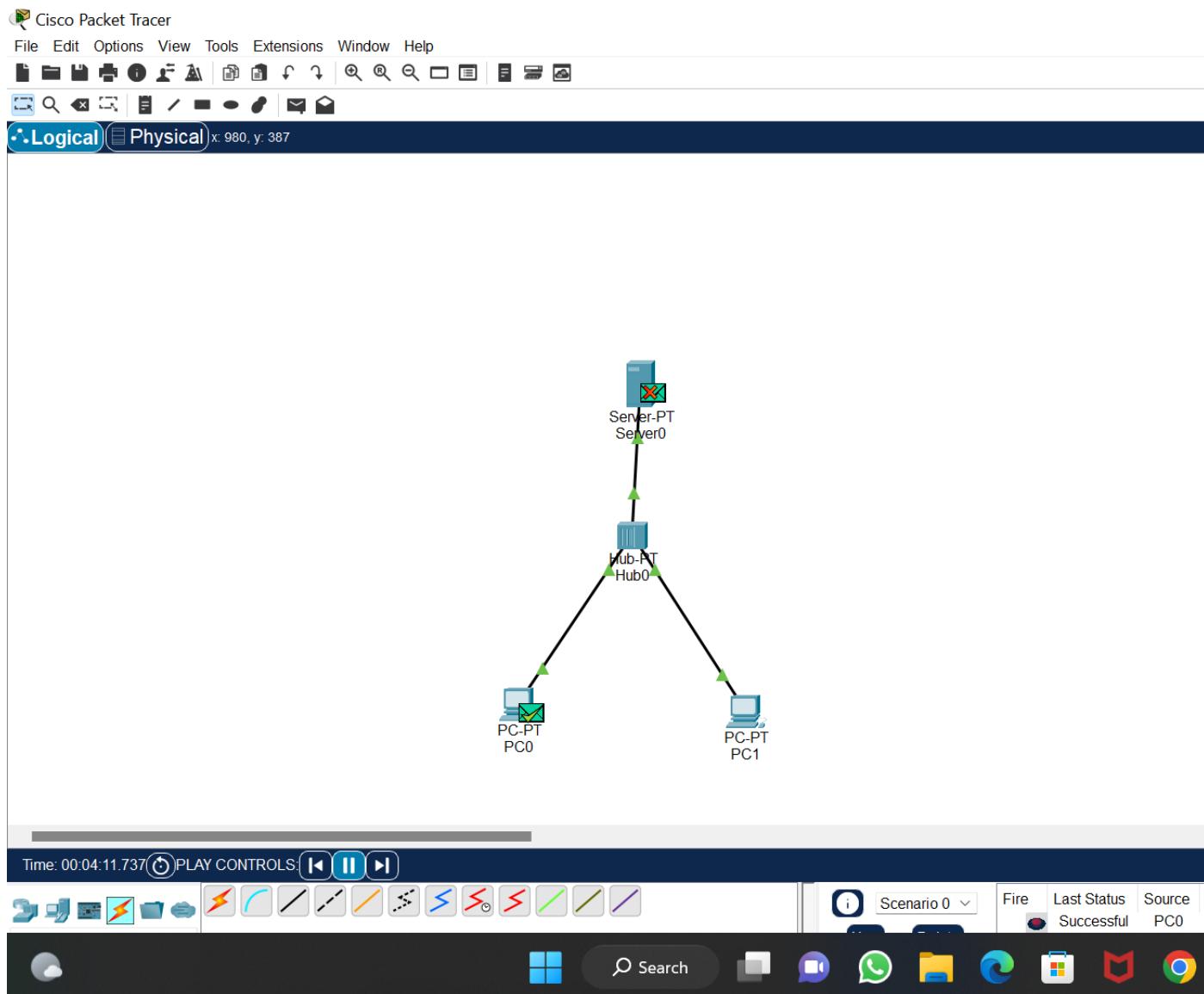


# CSMA/CD:



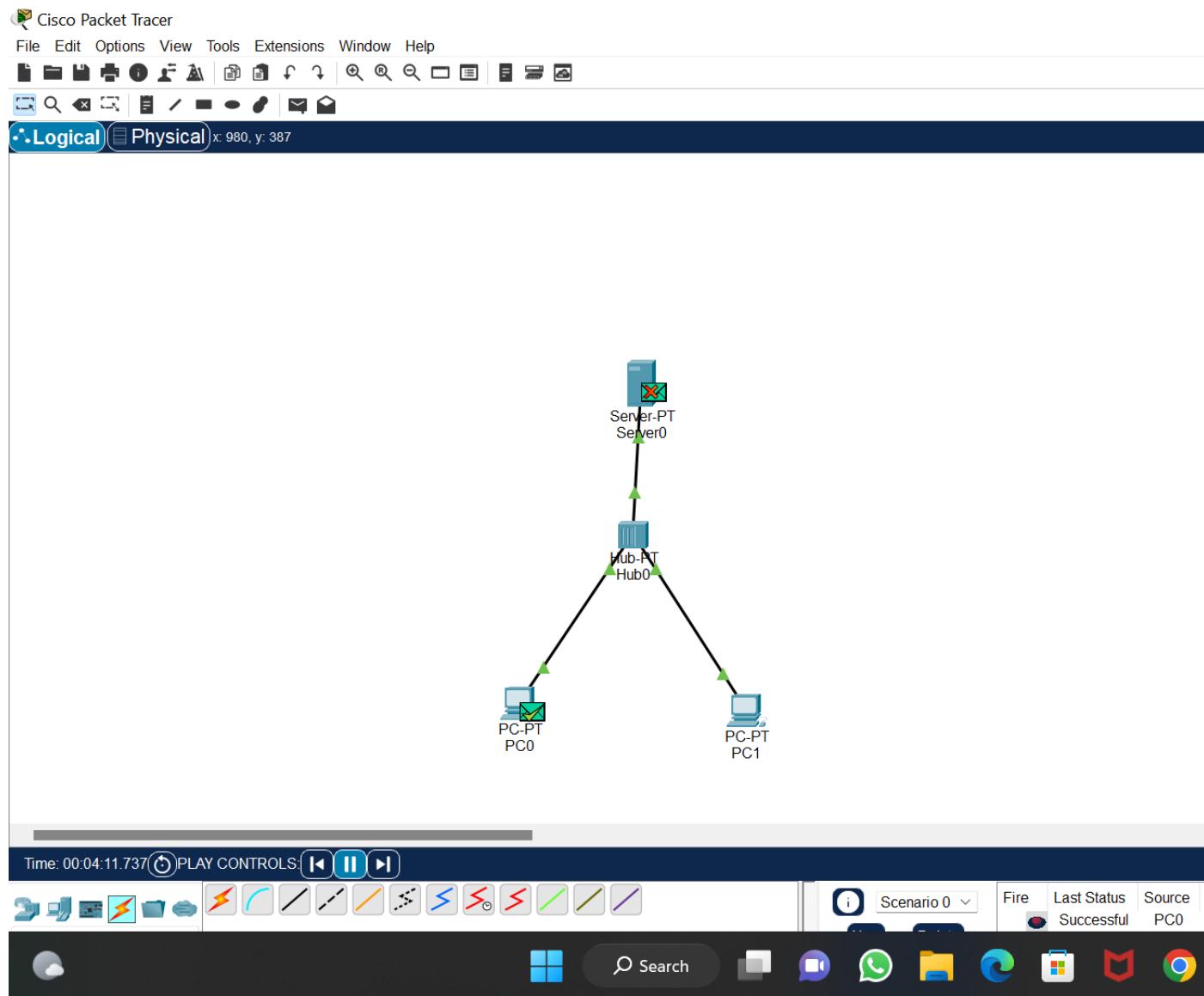
# Traffic simulation

## ARP:

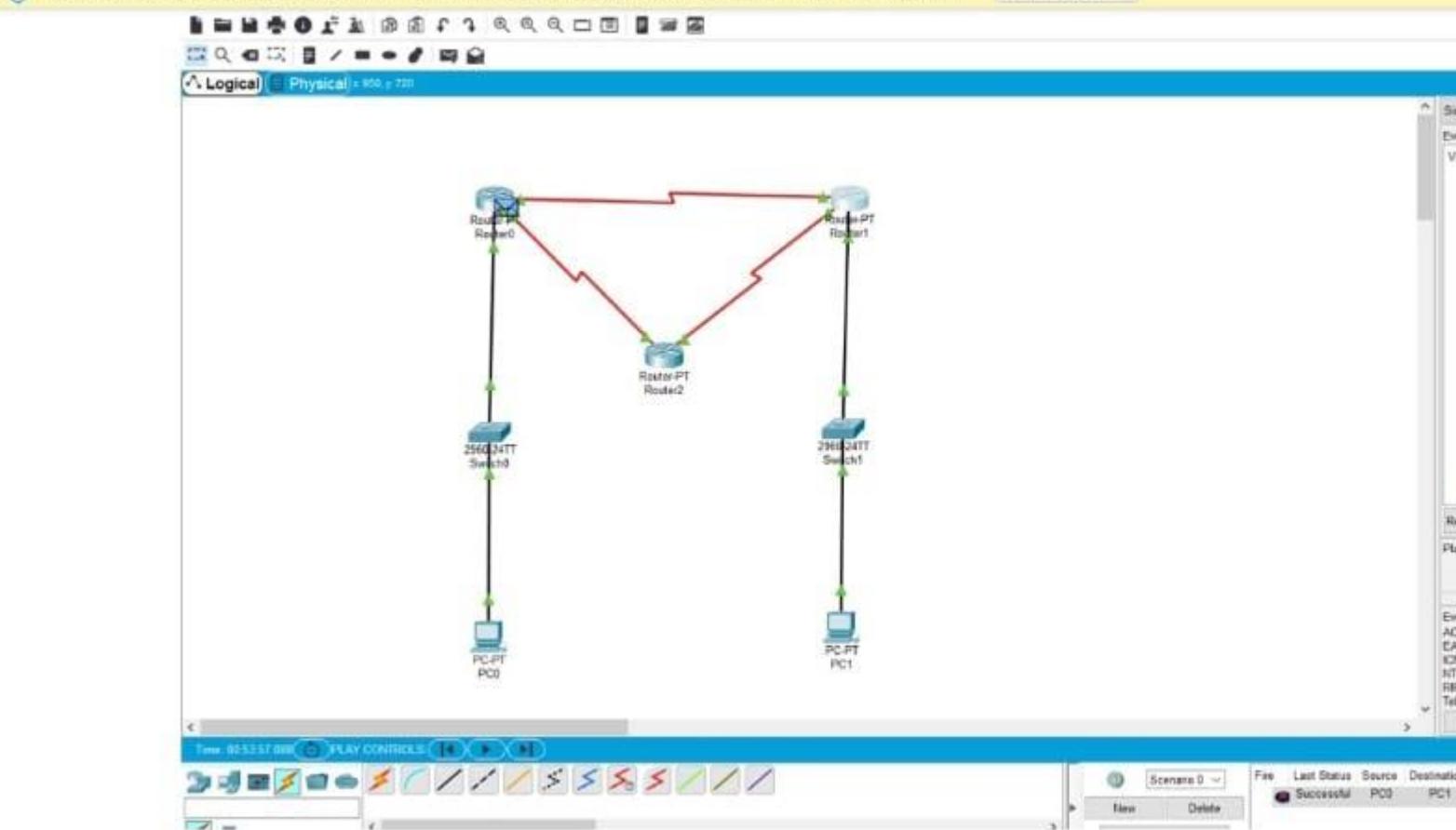


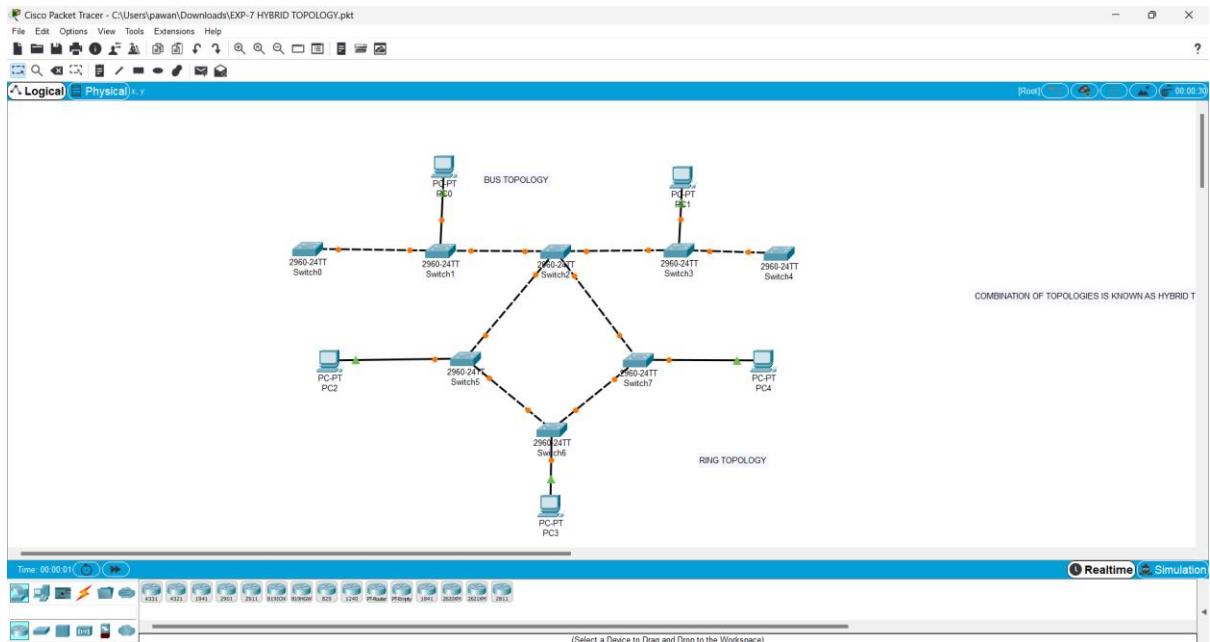
# Traffic simulation

## LLDP:

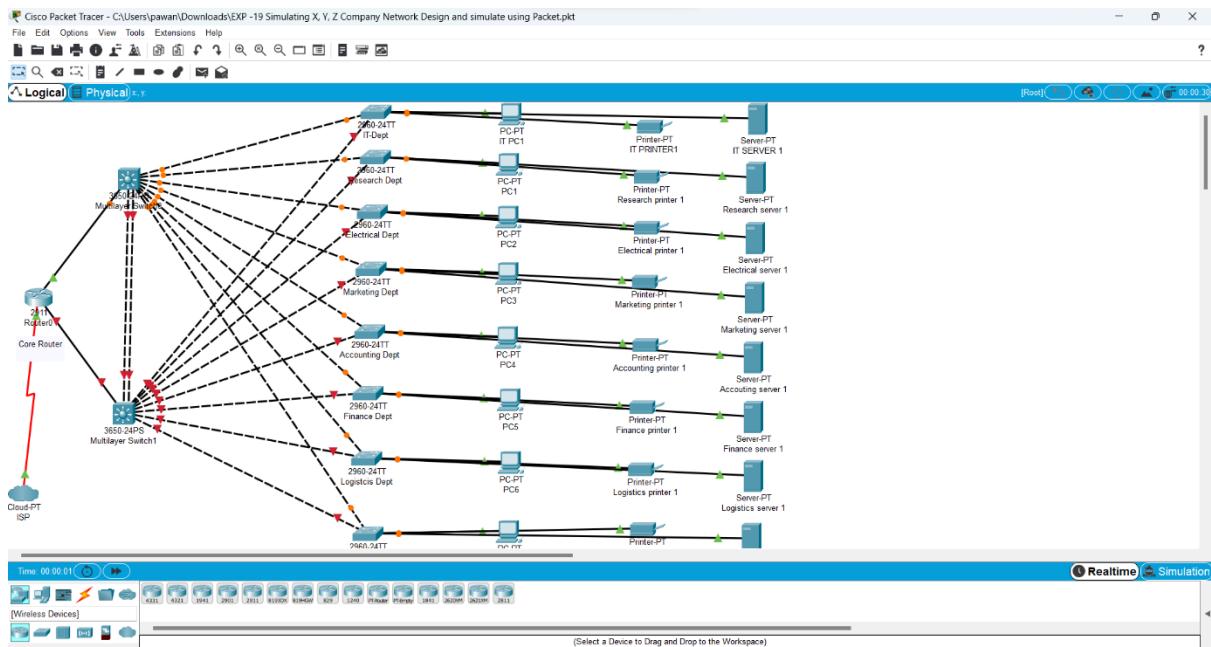


# DYNAMIC ROUTING

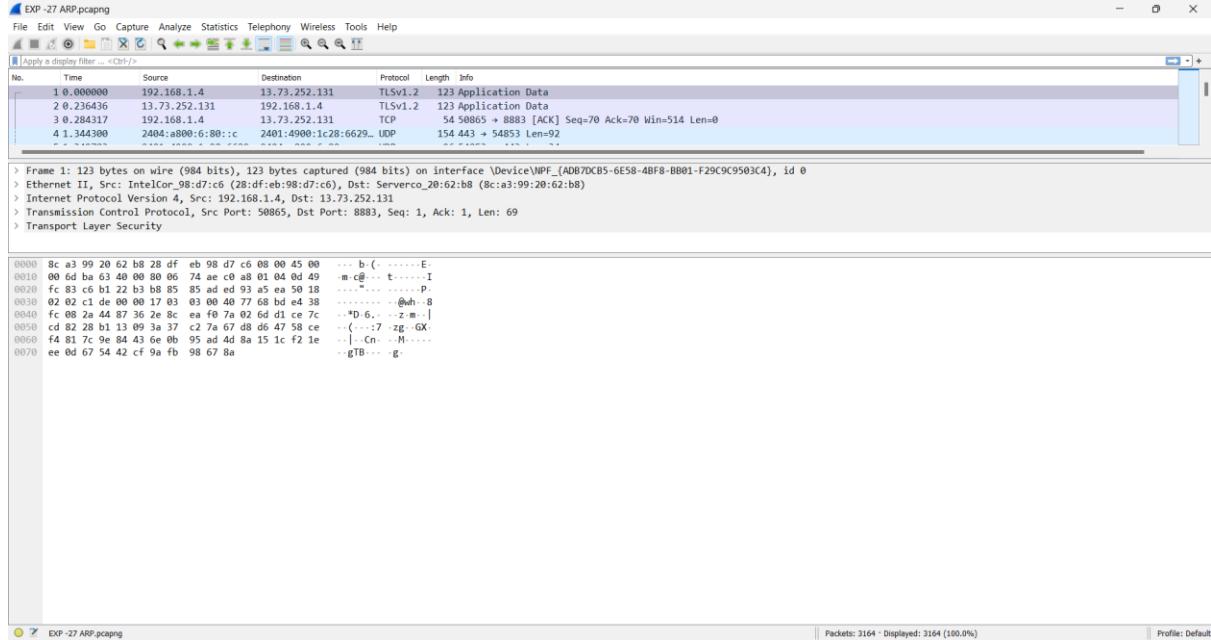




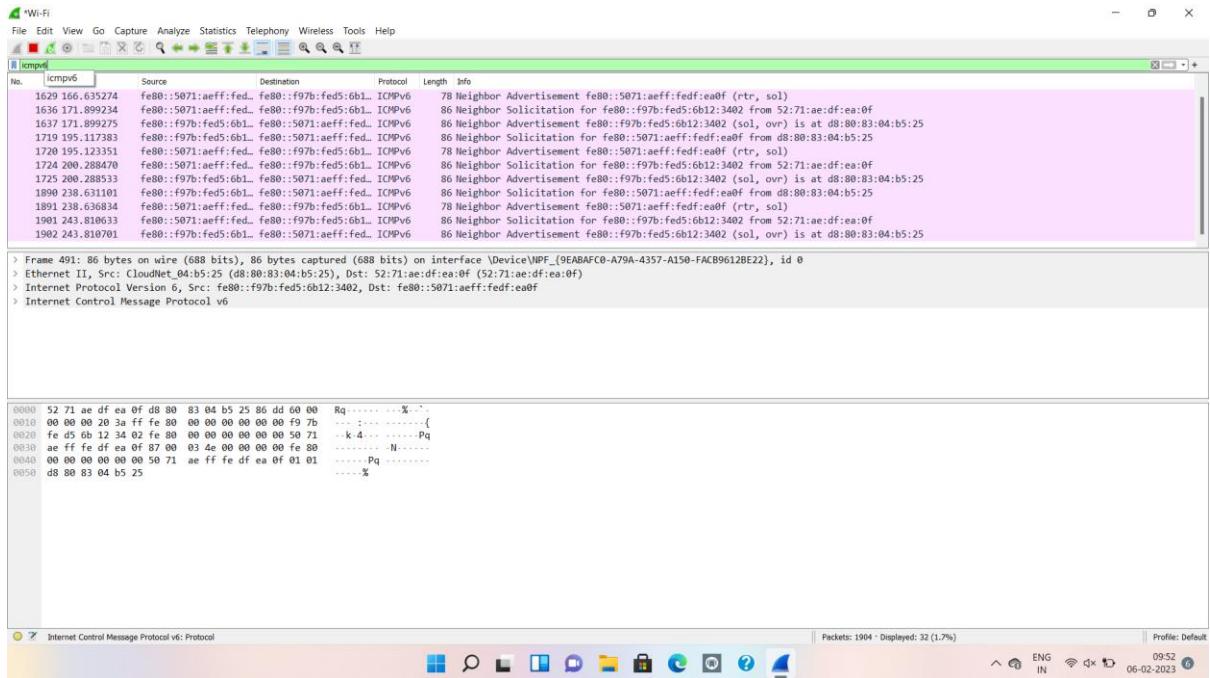
Simulating X,  
Y, Z Company  
network design:



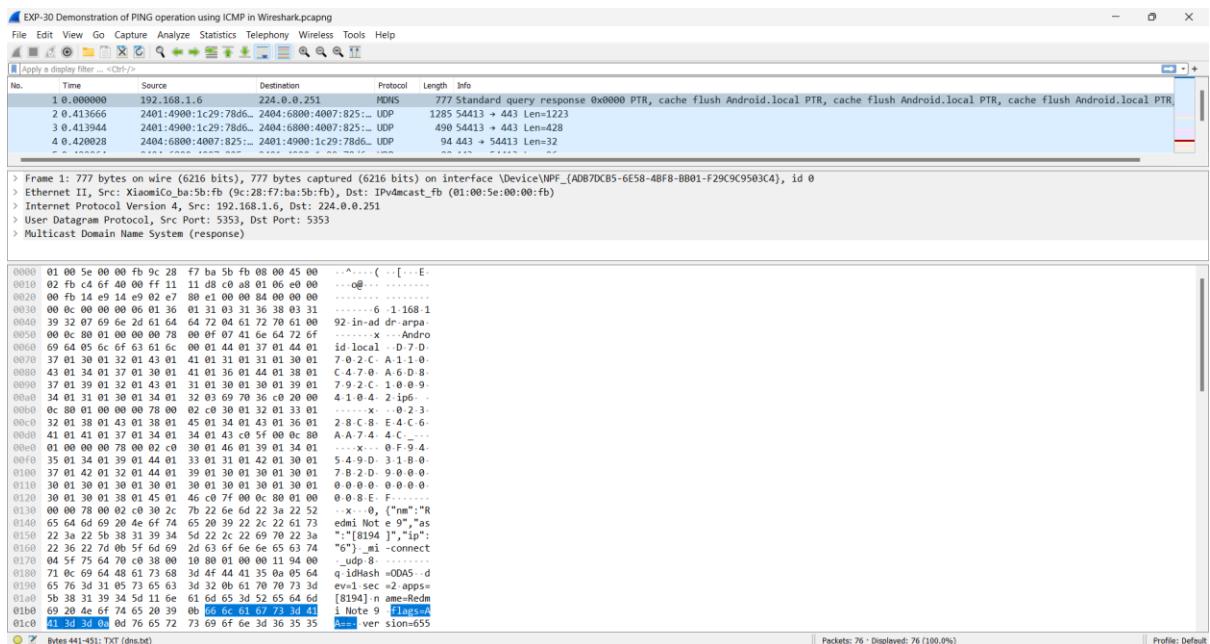
# SMTP



# ICMP:



# Ip:



# Network devices:

