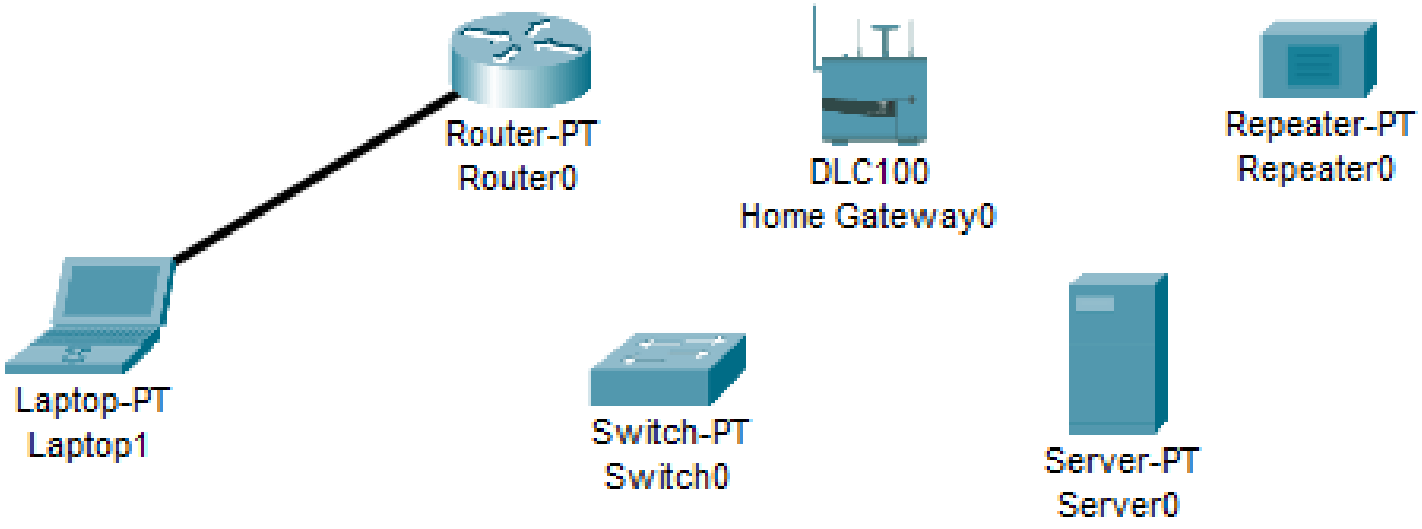
main.c

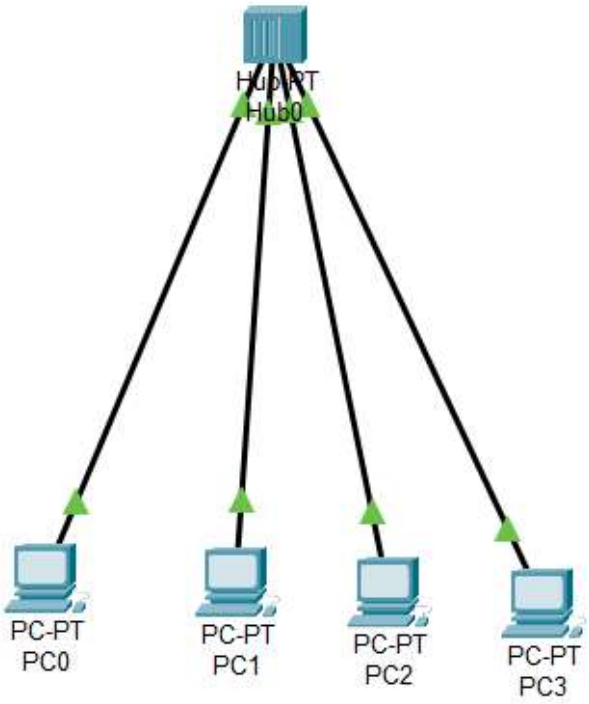
Share Run

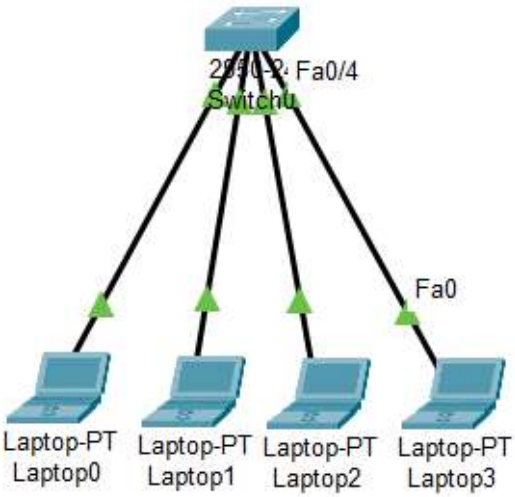
```c
        if (data[i] == '1') {
            stuffed_data[j++] = data[i]; // Add it to the stuffed
                data
            count++; // Increment the count of consecutive '1's

            // If we have five consecutive '1's, insert a '0'
            if (count == 5) {
                stuffed_data[j++] = '0';
                count = 0; // Reset the counter
            }
        }
        // If the current bit is '0'
        else {
            stuffed_data[j++] = data[i]; // Add it to the stuffed
                data
            count = 0; // Reset the counter
        }
    }
    stuffed_data[j] = '\0'; // Null-terminate the stuffed data
        string

    printf("Original data: %s\n", data);
    printf("Stuffed data: %s\n", stuffed_data);

    return 0;
```

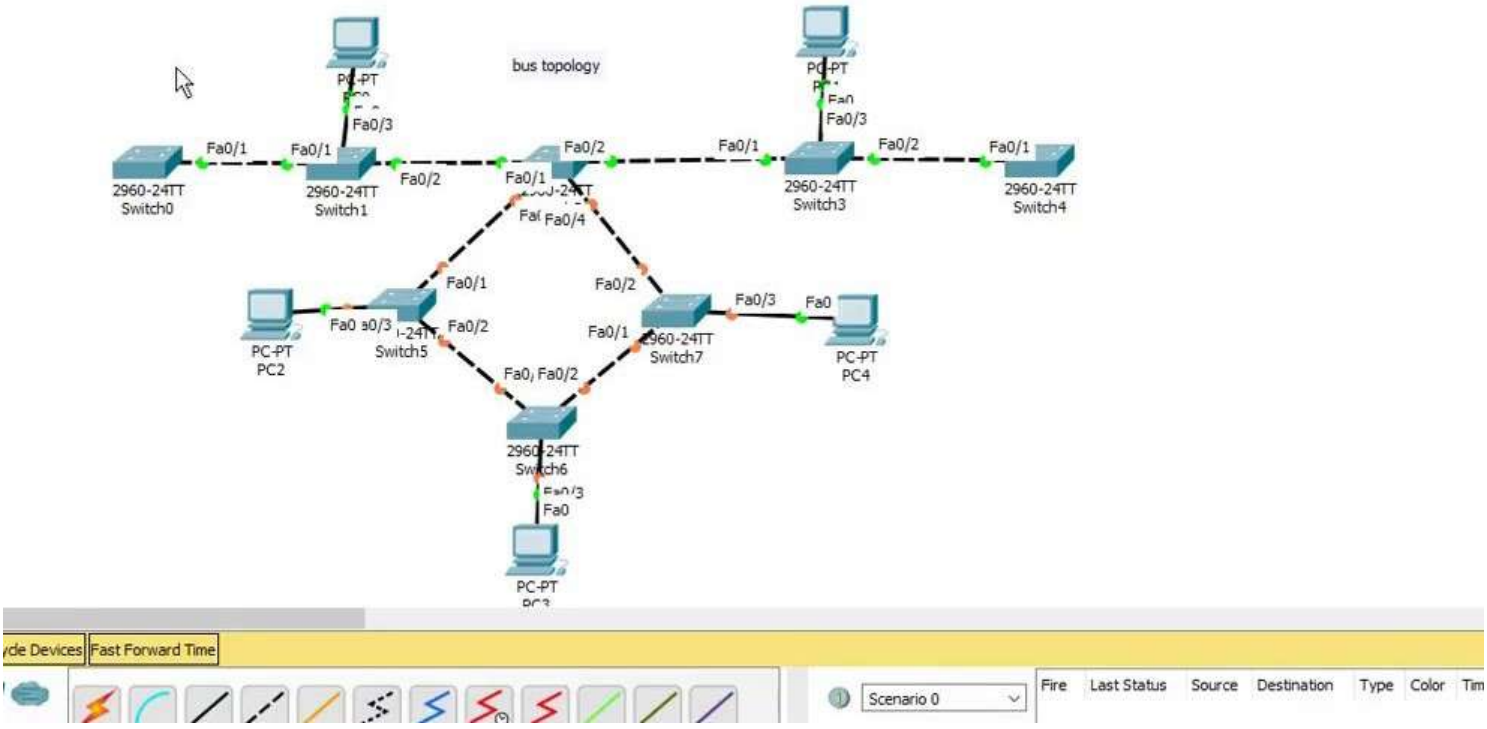
Output Clear

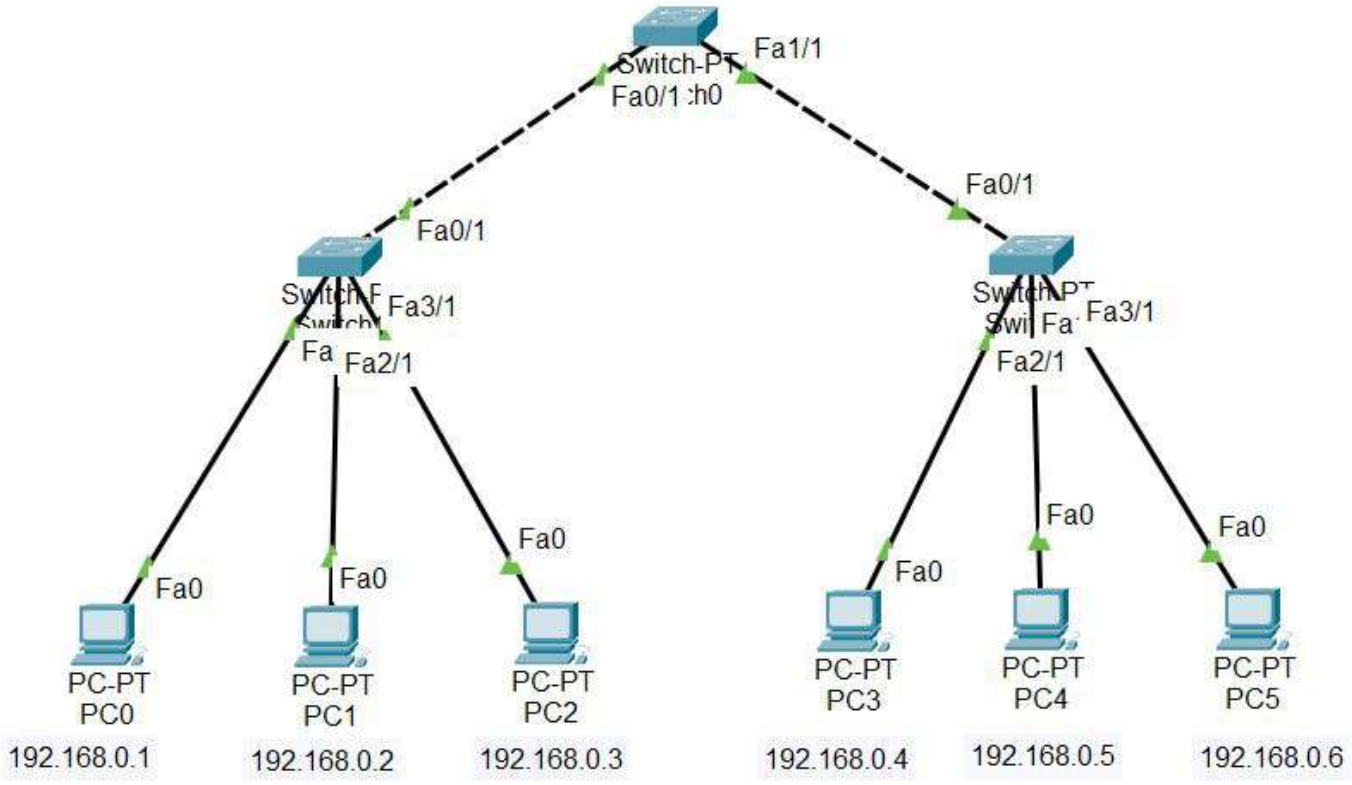
```
Enter the data stream (binary, max 99 bits): 101101
Original data: 101101
Stuffed data: 101101


=== Code Execution Successful ===
```

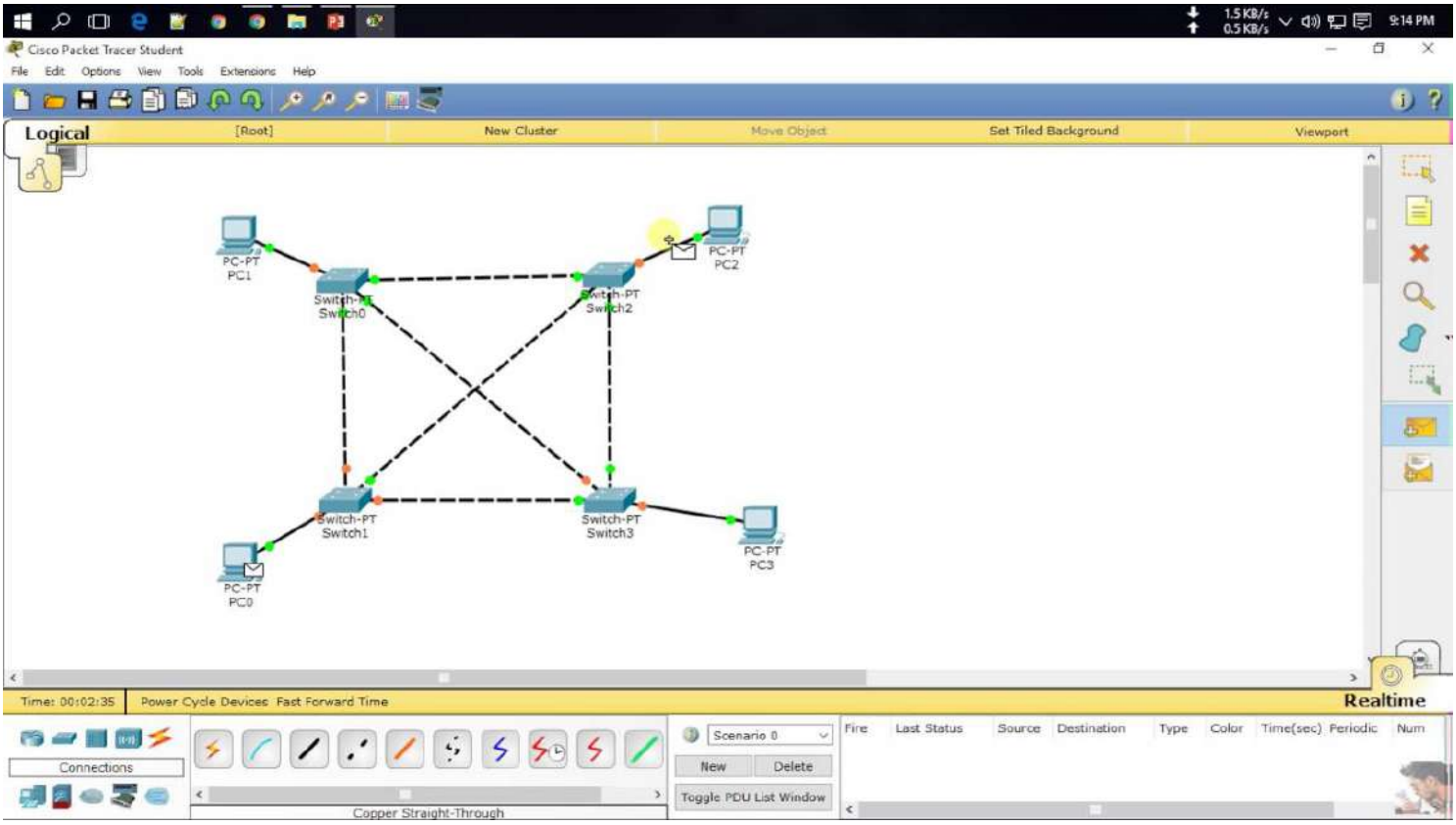

Router-PT
Router0
DLC100
Home Gateway0
Repeater-PT
Repeater0
Laptop-PT
Laptop1
Switch-PT
Switch0
Server-PT
Server0

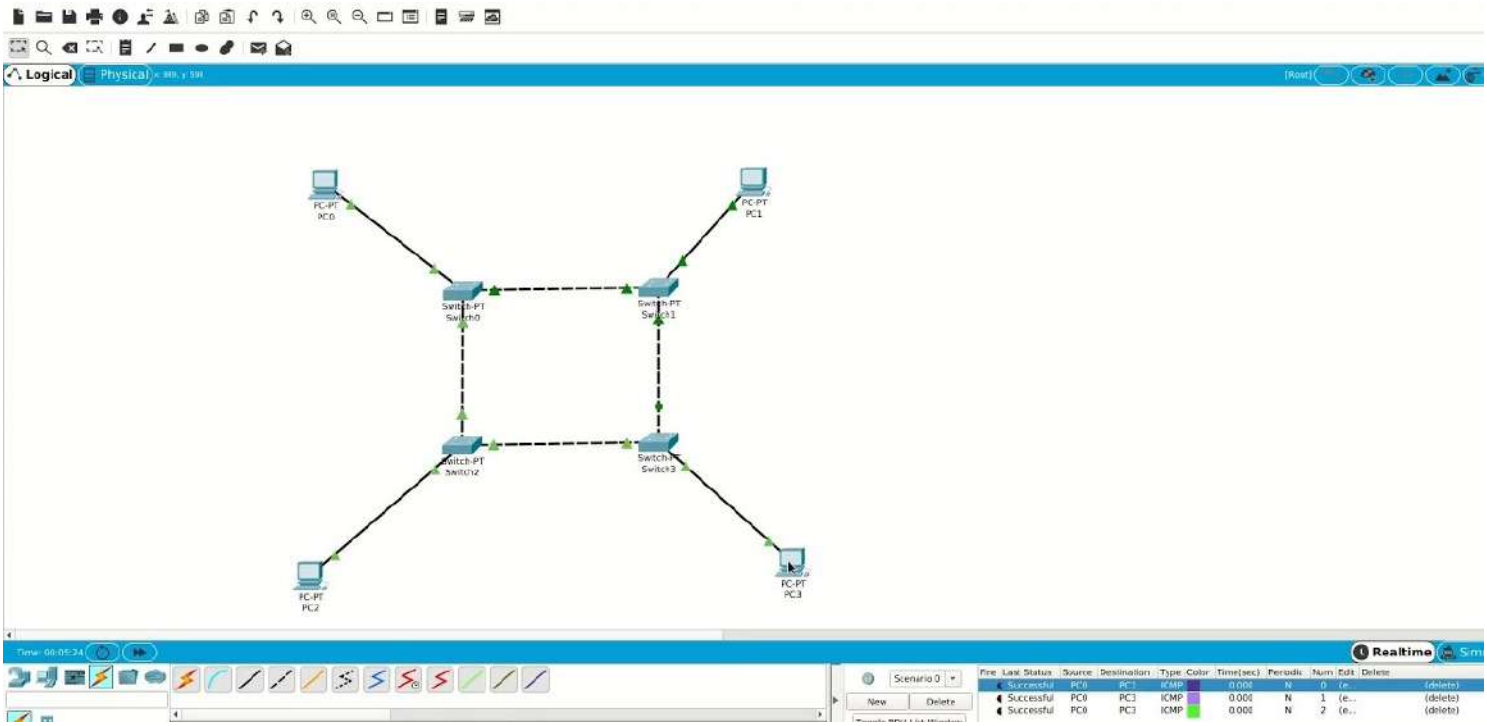

Hub-PT
Hub0
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3

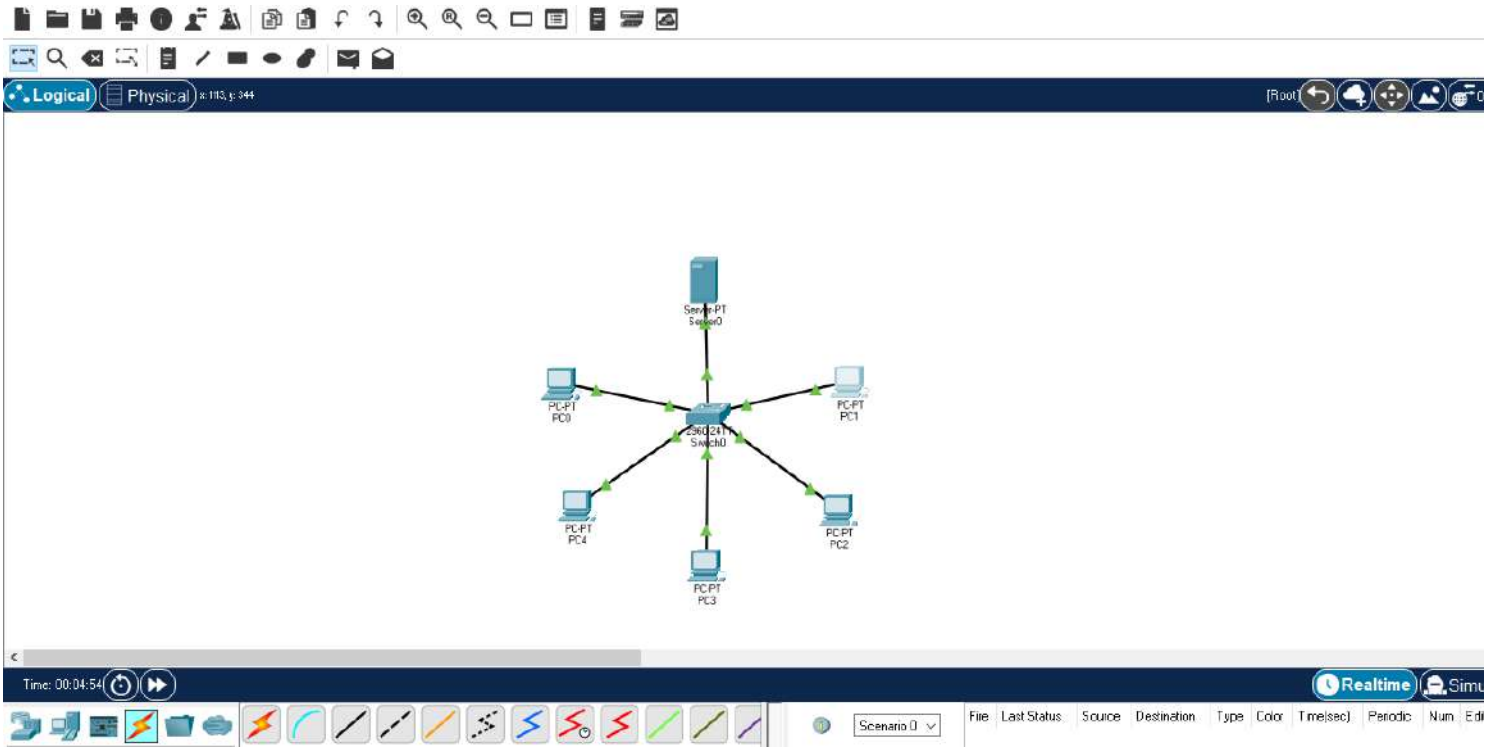

Fa0/4
Switch0
Fa0
Laptop-PT
Laptop0
Laptop-PT
Laptop1
Laptop-PT
Laptop2
Laptop-PT
Laptop3

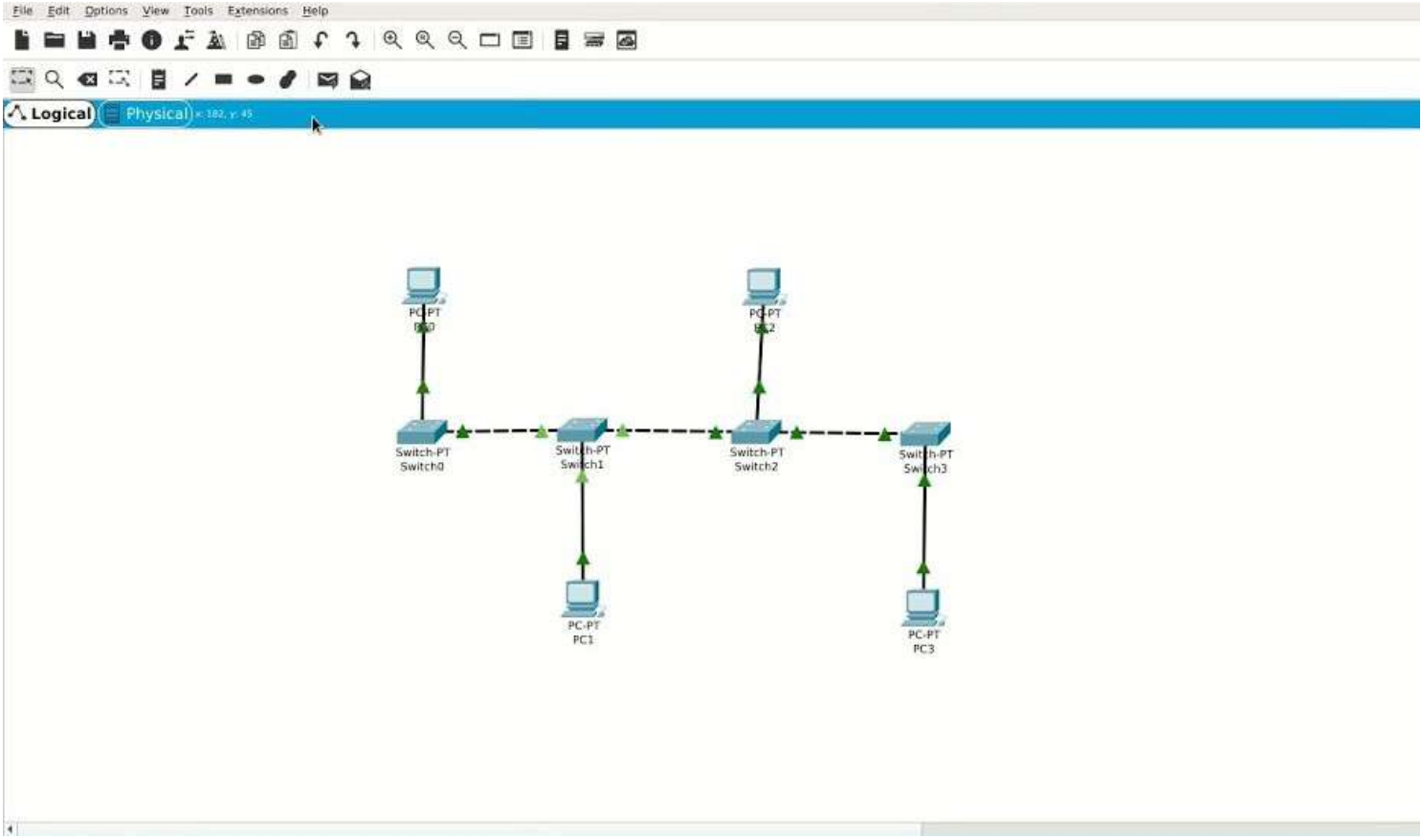

bus topology
2960-24TT
Switch0
2960-24TT
Switch1
2960-24TT
Switch3
2960-24TT
Switch4
2960-24TT
Switch5
2960-24TT
Switch6
2960-24TT
Switch7
PC-PT
PC2
PC-PT
PC4
PC-PT
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Fa0
Fast Forward Time
Scenario 0
Fire
Last Status
Source
Destination
Type
Color

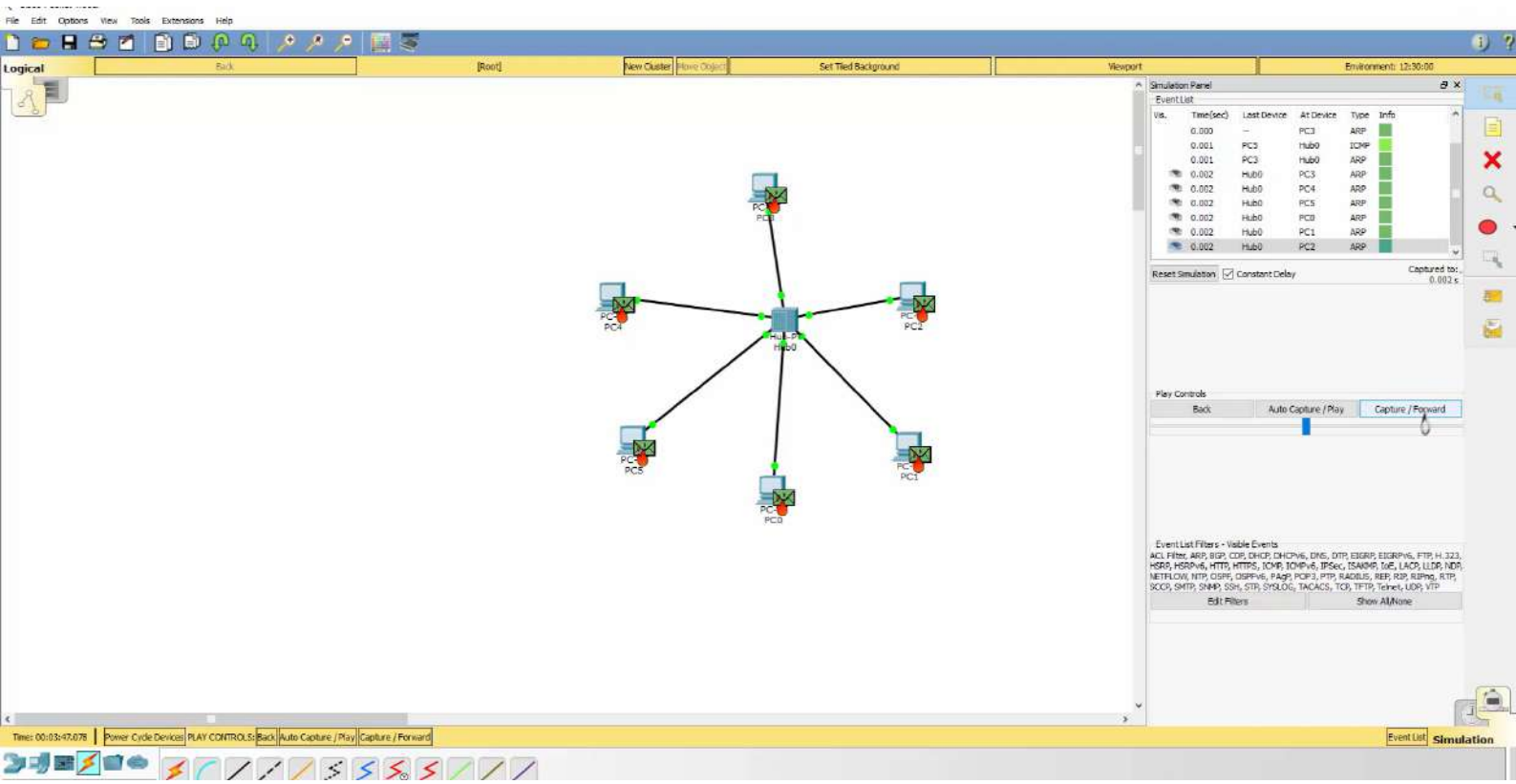

Switch-PT
Fa0/1 :h0
Fa1/1
Fa0/1
Fa0/1
Fa3/1
Fa2/1
Fa0
Fa0
Fa0
Fa0
Fa0
Fa0
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
192.168.0.1
192.168.0.2
192.168.0.3
192.168.0.4
192.168.0.5
192.168.0.6

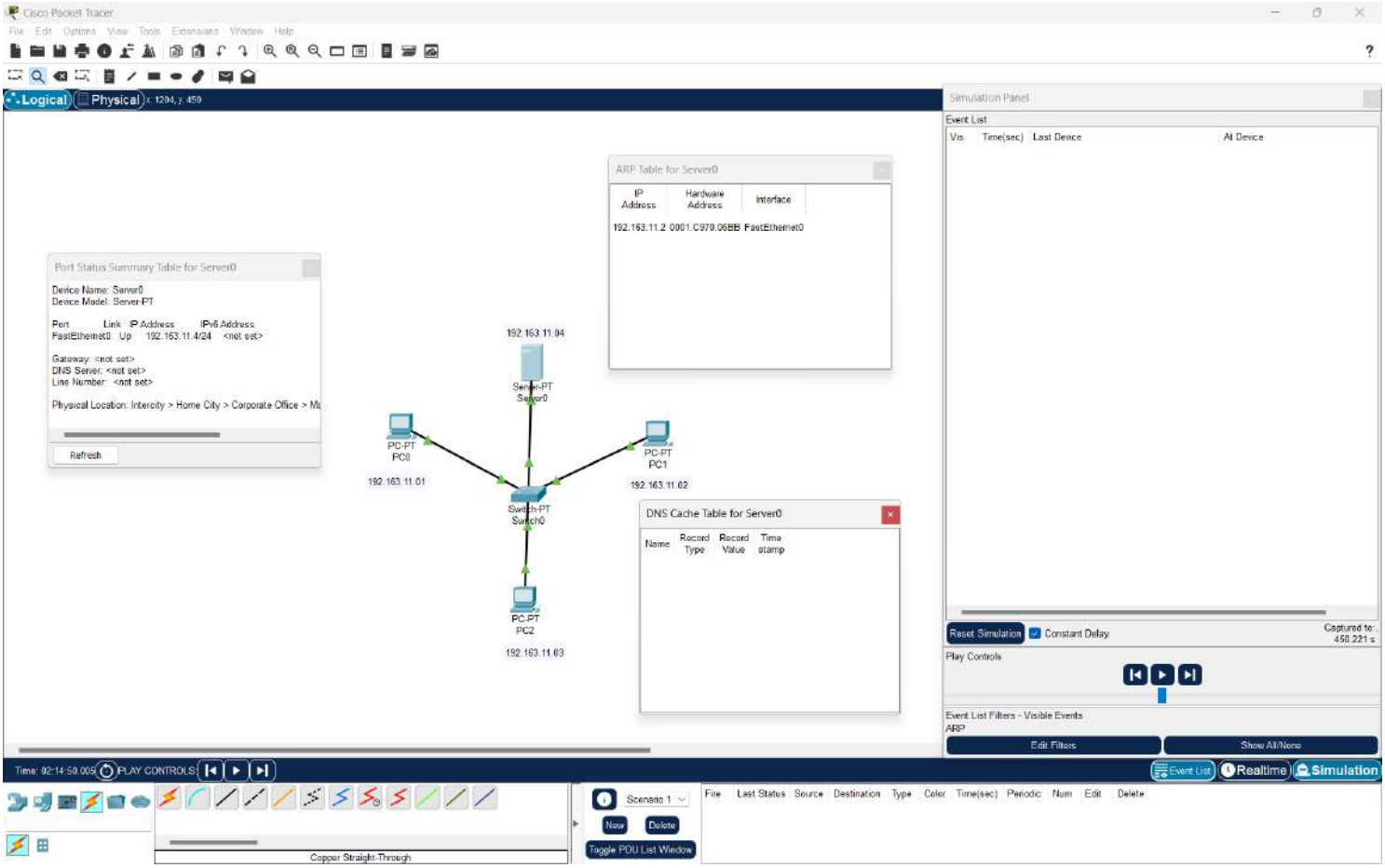

Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC-PT PC1
PC-PT PC2
Switch-PT Switch0
Switch-PT Switch2
Switch-PT Switch1
Switch-PT Switch3
PC-PT PC0
PC-PT PC3
Time: 00:02:35
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num

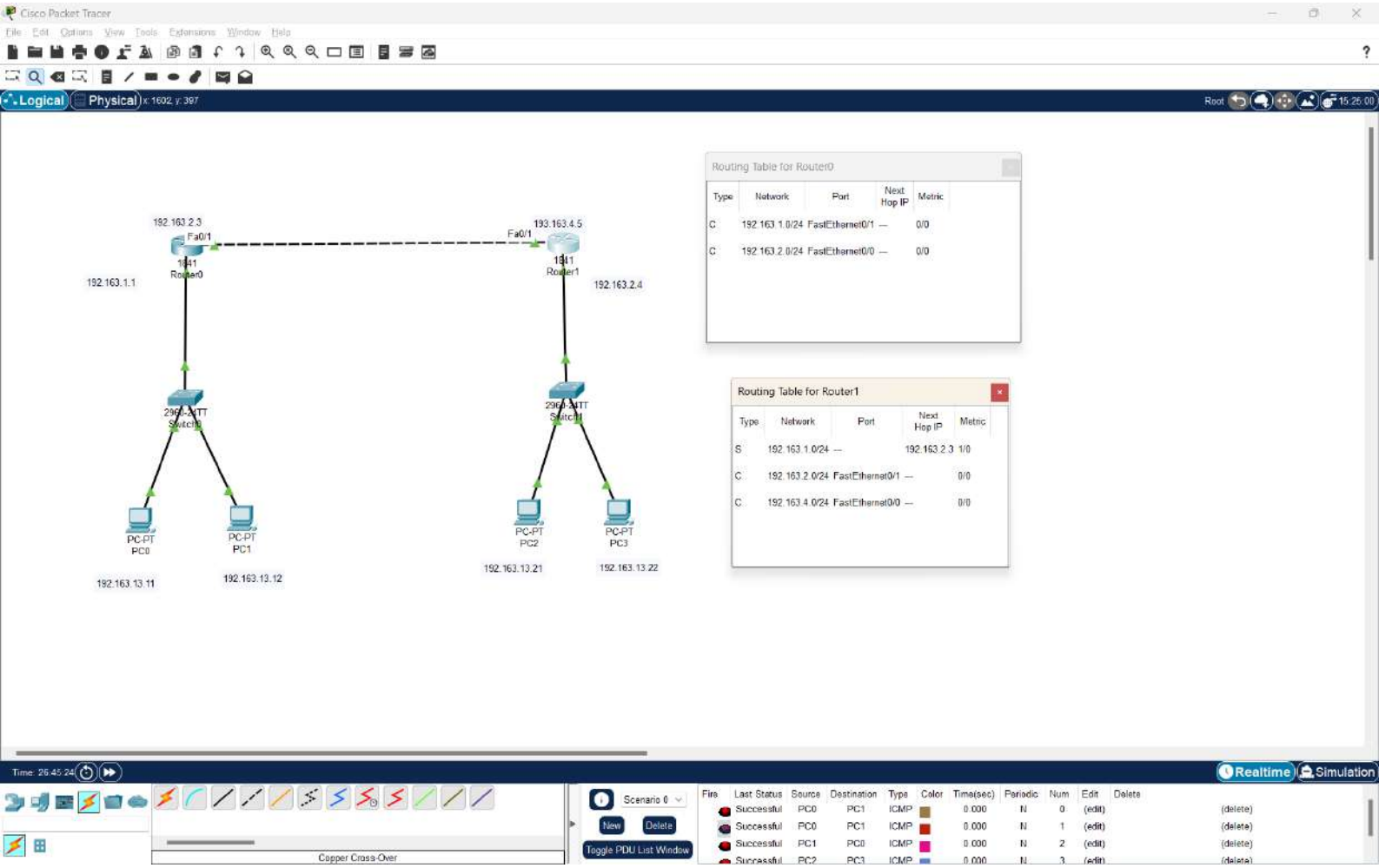

Logical
Physical
PC-PT PC0
PC-PT PC1
Switch-PT Switch0
Switch-PT Switch1
Switch-PT Switch2
Switch-PT Switch3
PC-PT PC2
PC-PT PC3
Realtime
Scenario 0
New
Delete
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC0 PC1 ICMP 0.000 N 0 (e.. (delete)
Successful PC0 PC3 ICMP 0.000 N 1 (e.. (delete)
Successful PC0 PC3 ICMP 0.000 N 2 (e.. (delete)

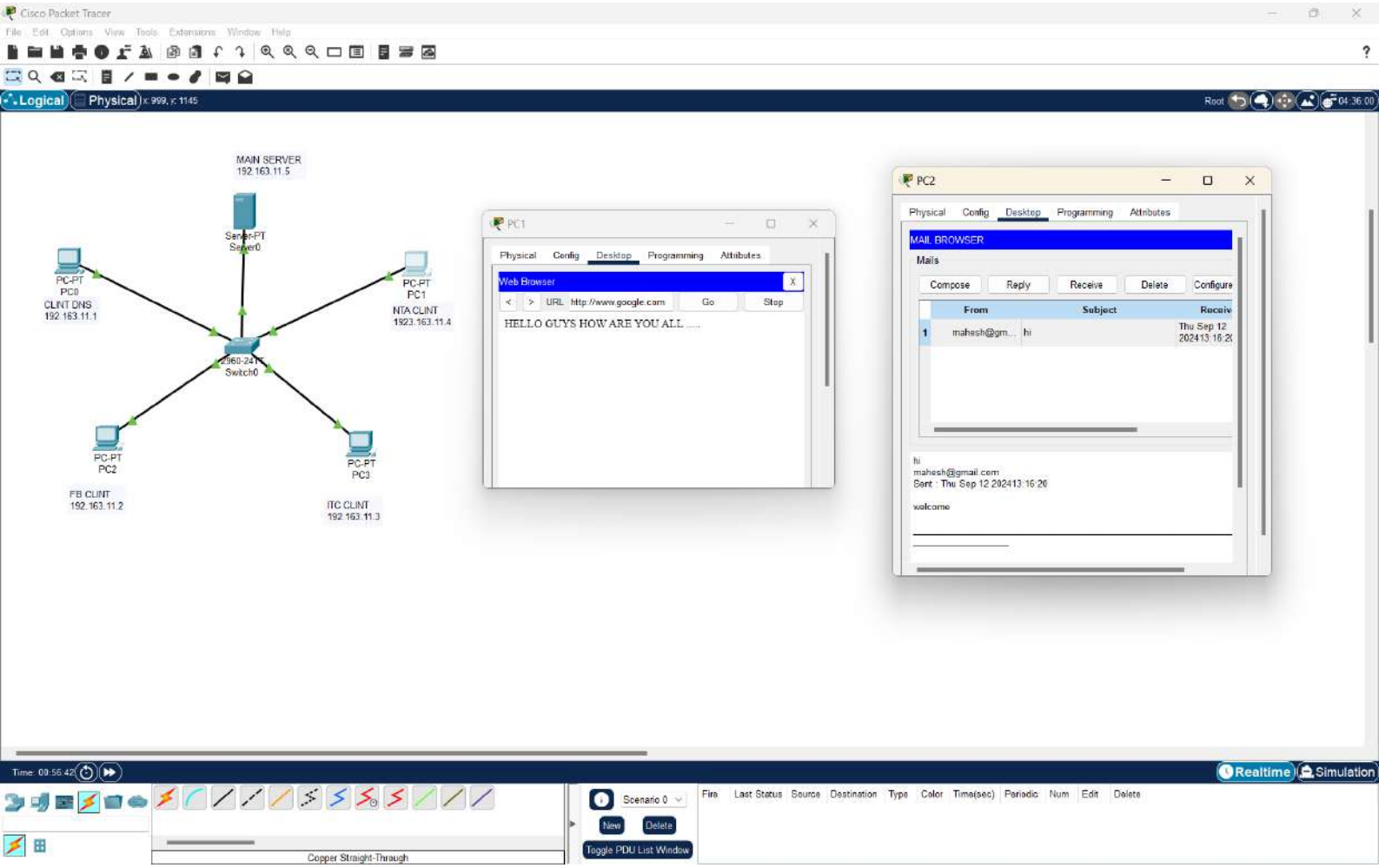

Logical
Physical
[Root]
Server-PT
Server0
PC-PT
PC0
PC-PT
PC1
2960-24TT
Switch0
PC-PT
PC4
PC-PT
PC2
PC-PT
PC3
Time: 00:04:54
Realtime
Scenario 0
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num

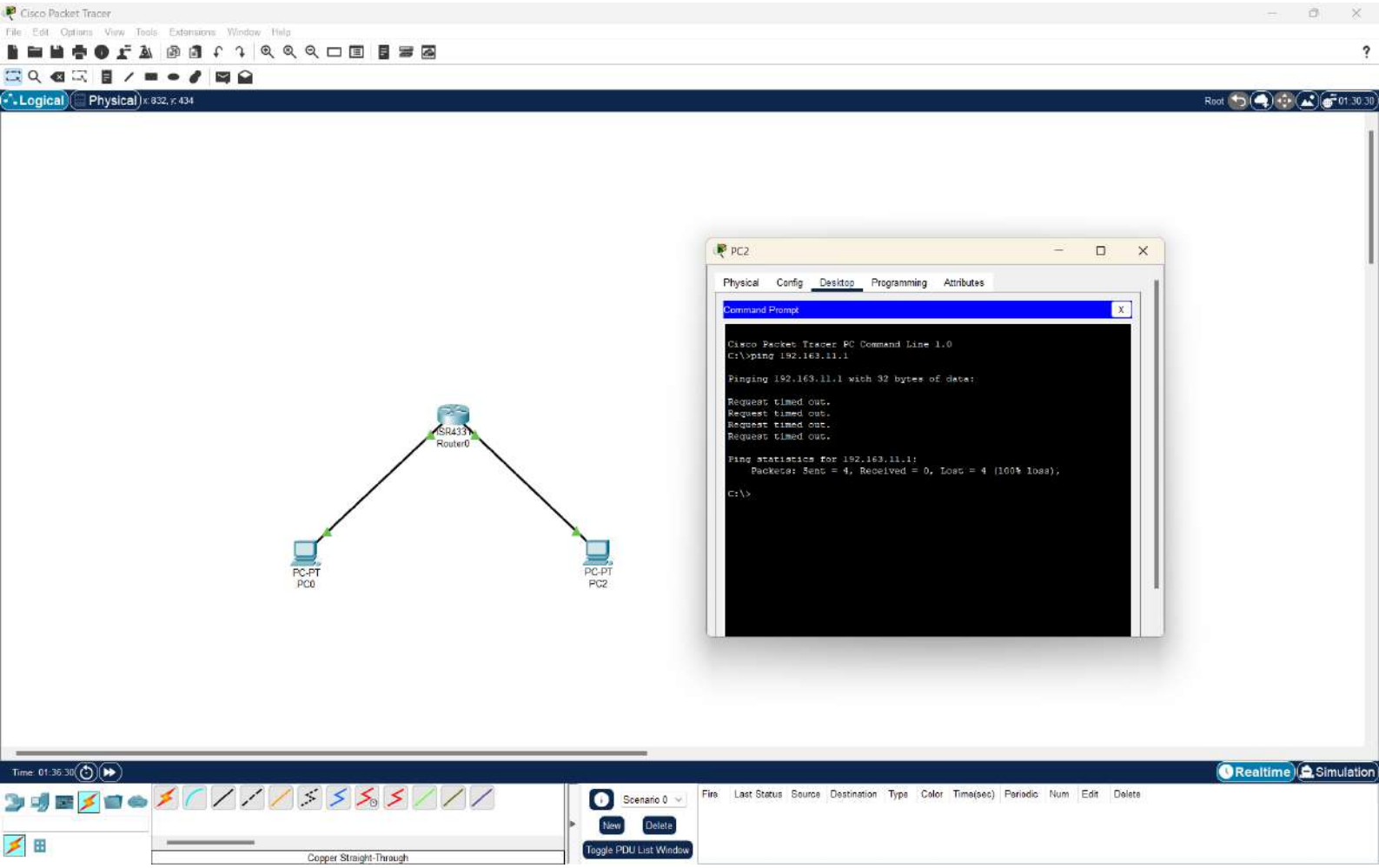

File Edit Options View Tools Extensions Help
Logical
Physical
Switch-PT
Switch0
Switch-PT
Switch1
Switch-PT
Switch2
Switch-PT
Switch3
PC-PT
PC1
PC-PT
PC3

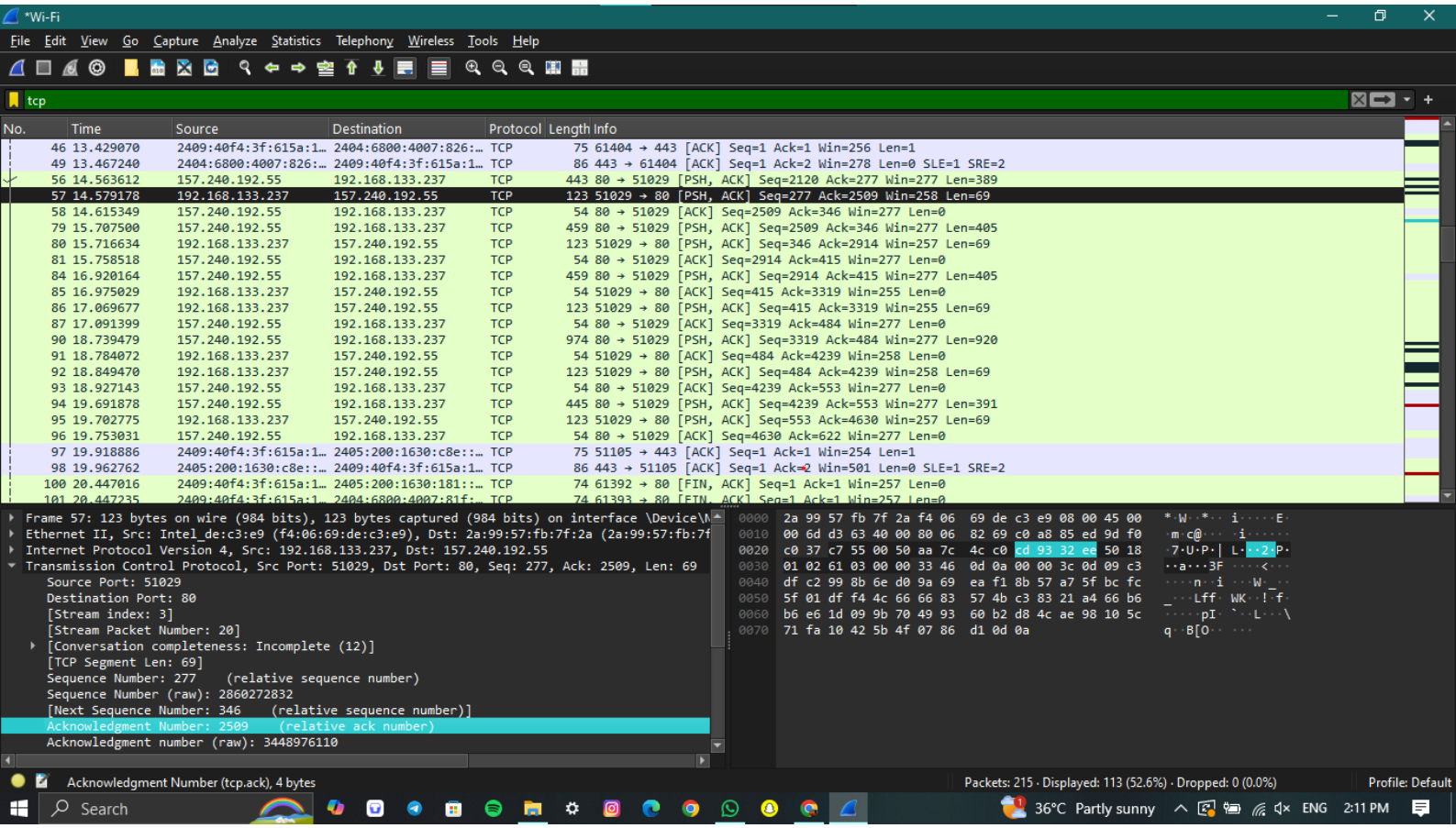

File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 12:30:00
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type Info
0.000 -- PC3 ARP
0.001 PC3 Hub0 ICMP
0.001 PC3 Hub0 ARP
0.002 Hub0 PC3 ARP
0.002 Hub0 PC4 ARP
0.002 Hub0 PC5 ARP
0.002 Hub0 PC0 ARP
0.002 Hub0 PC1 ARP
0.002 Hub0 PC2 ARP
Reset Simulation
Constant Delay
Captured to: 0.002 s
Play Controls
Back
Auto Capture / Play
Capture / Forward
Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoE, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All/None
PC4
PC2
Hub0
PC5
PC1
PC0
Time: 00:03:47.078
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation

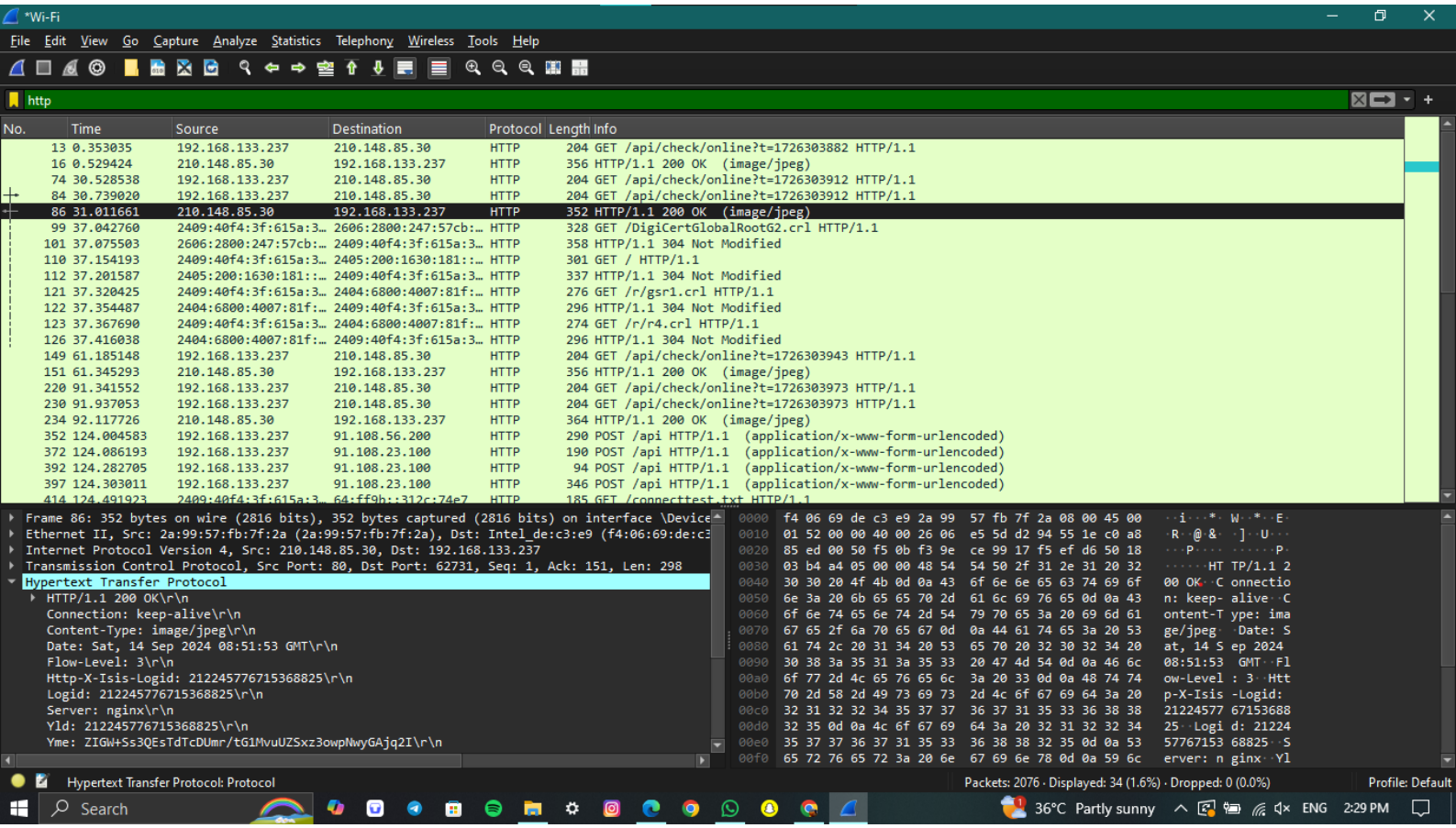

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 1204, y: 459
ARP Table for Server0
IP Address
Hardware Address
Interface
192.163.11.2 0001.C970.06BB FastEthernet0
Port Status Summary Table for Server0
Device Name: Server0
Device Model: Server-PT
Port Link IP Address IPv6 Address
FastEthernet0 Up 192.163.11.4/24 <not set>
Gateway: <not set>
DNS Server: <not set>
Line Number: <not set>
Physical Location: Intercity > Home City > Corporate Office > Ma
Refresh
192.163.11.04
Server-PT
Server0
PC-PT
PC0
192.163.11.01
PC-PT
PC1
192.163.11.02
Switch-PT
Switch0
PC-PT
PC2
192.163.11.03
DNS Cache Table for Server0
Name
Record Type
Record Value
Time stamp
Simulation Panel
Event List
Vis.
Time(sec)
Last Device
At Device
Reset Simulation
Constant Delay
Captured to:
450.221 s
Play Controls
Event List Filters - Visible Events
ARP
Edit Filters
Show All/None
Time: 02:14:50.005
PLAY CONTROLS:
Event List
Realtime
Simulation
Copper Straight-Through
Scenario 1
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete

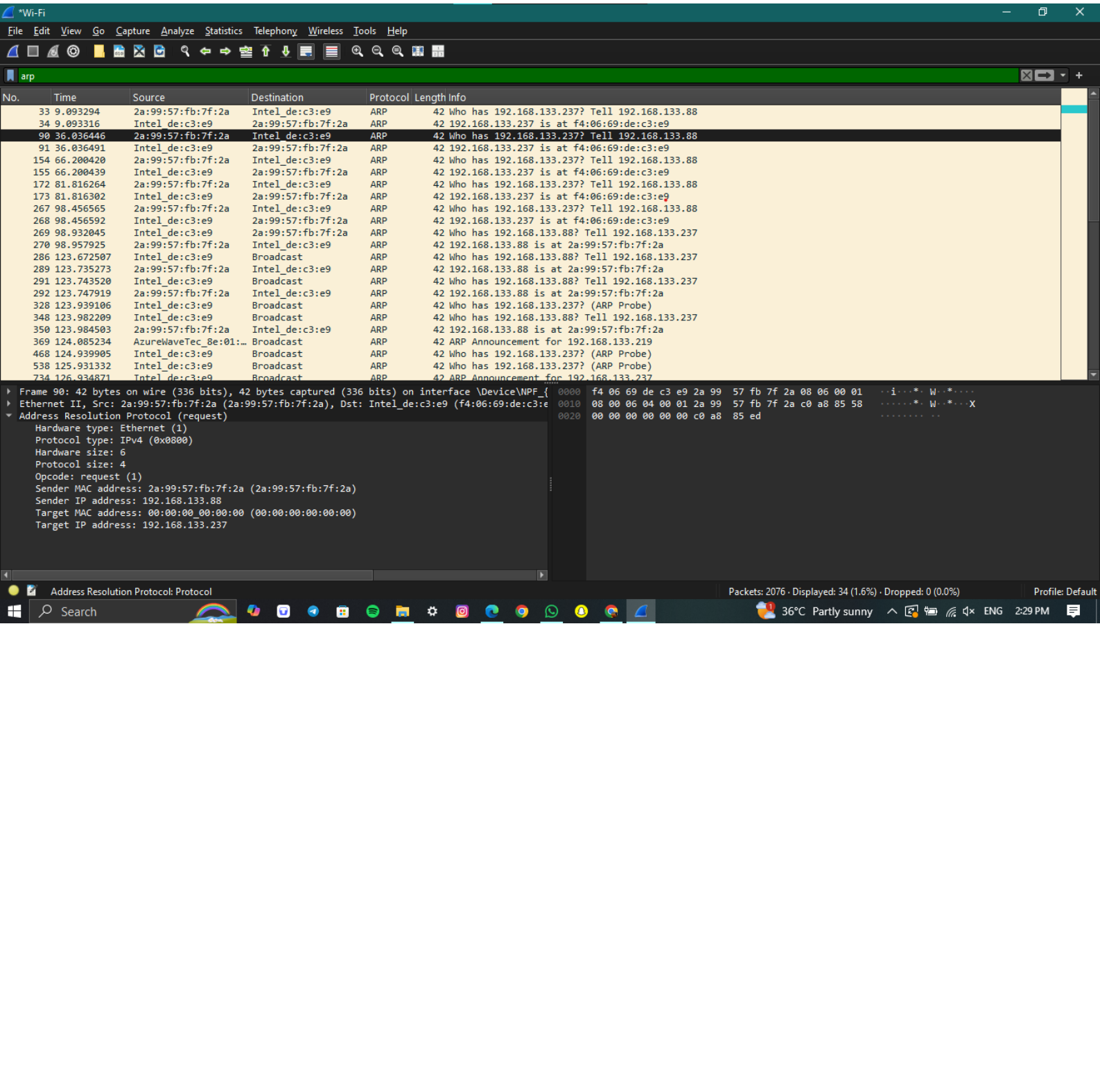

Cisco Packet Tracer
Logical
Physical
192.163.2.3
Fa0/1
193.163.4.5
Fa0/1
1841
Router0
1841
Router1
192.163.1.1
192.163.2.4
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
192.163.13.11
192.163.13.12
192.163.13.21
192.163.13.22
Routing Table for Router0
Type Network Port Next Hop IP Metric
C 192.163.1.0/24 FastEthernet0/1 — 0/0
C 192.163.2.0/24 FastEthernet0/0 — 0/0
Routing Table for Router1
Type Network Port Next Hop IP Metric
S 192.163.1.0/24 — 192.163.2.3 1/0
C 192.163.2.0/24 FastEthernet0/1 — 0/0
C 192.163.4.0/24 FastEthernet0/0 — 0/0
Realtime
Simulation
Copper Cross-Over
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC0 PC1 ICMP 0.000 N 0 (edit) (delete)
Successful PC0 PC1 ICMP 0.000 N 1 (edit) (delete)
Successful PC1 PC0 ICMP 0.000 N 2 (edit) (delete)

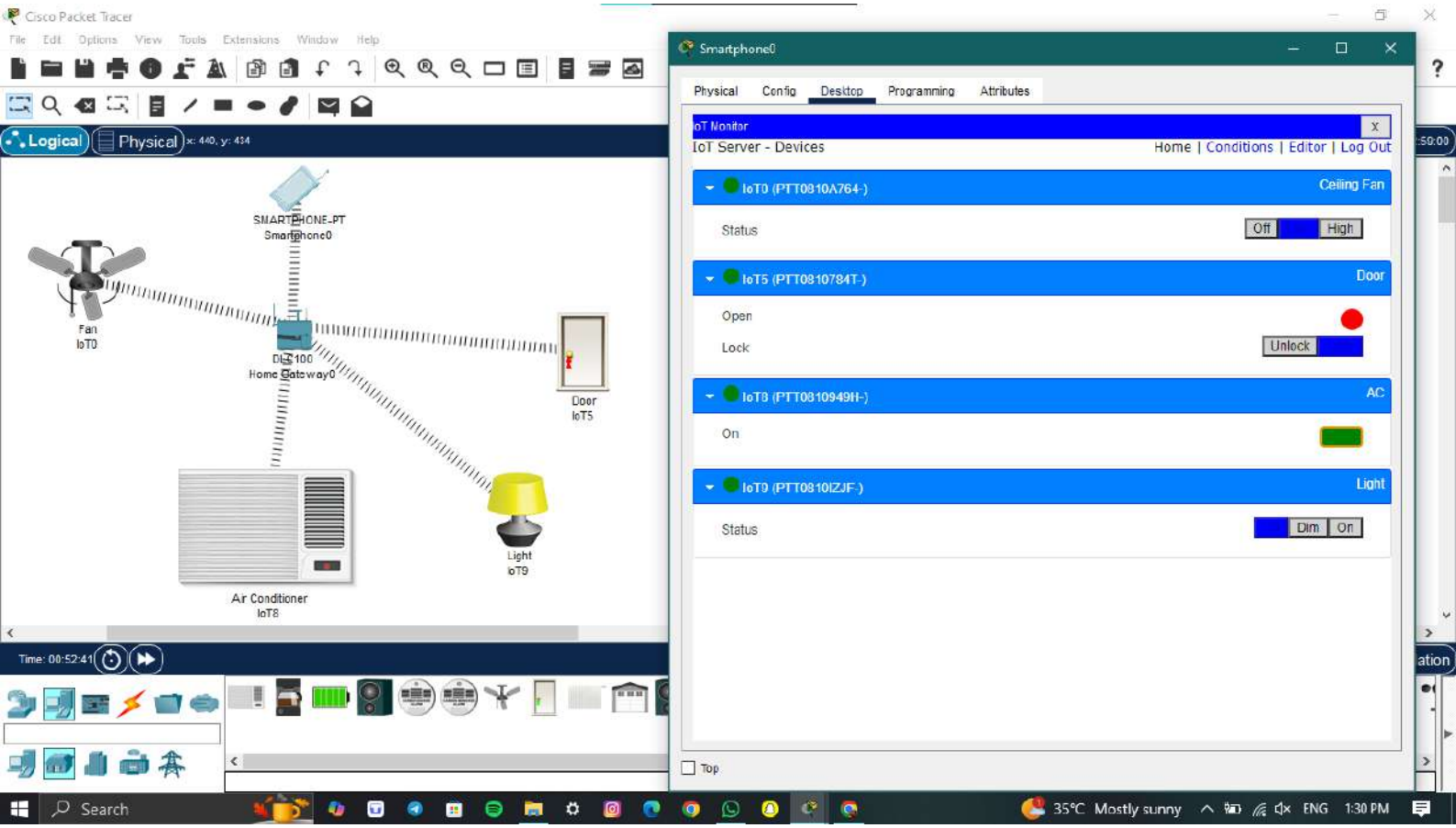

Cisco Packet Tracer
Logical
Physical
MAIN SERVER
192.163.11.5
Server-PT
Server0
PC-PT
PC0
CLINT DNS
192.163.11.1
PC-PT
PC1
NTA CLINT
1923.163.11.4
2960-24TT
Switch0
PC-PT
PC2
FB CLINT
192.163.11.2
PC-PT
PC3
ITC CLINT
192.163.11.3
PC1
Physical
Config
Desktop
Programming
Attributes
Web Browser
URL
http://www.google.com
Go
Stop
HELLO GUYS HOW ARE YOU ALL .....
PC2
MAIL BROWSER
Mails
Compose
Reply
Receive
Delete
From
Subject
mahesh@gm...
hi
hi
mahesh@gmail.com
Sent : Thu Sep 12 202413:16:20
welcome
Realtime
Simulation
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete

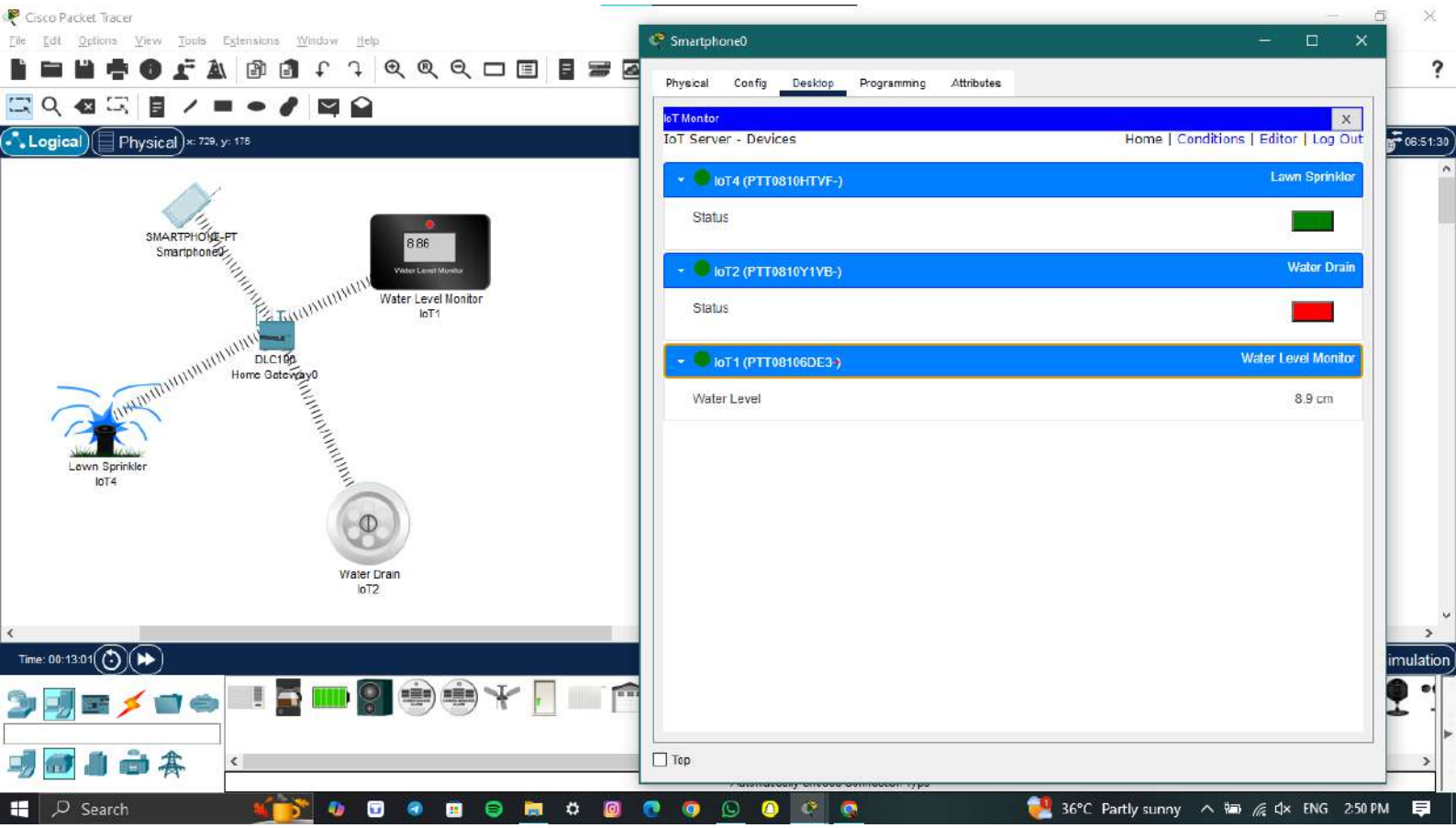

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 832, y: 434
Root
01:30:30
PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.163.11.1
Pinging 192.163.11.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.163.11.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
1841
Router0
PC-PT
PC0
PC-PT
PC2
Time: 01:36:30
Realtime
Simulation
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete

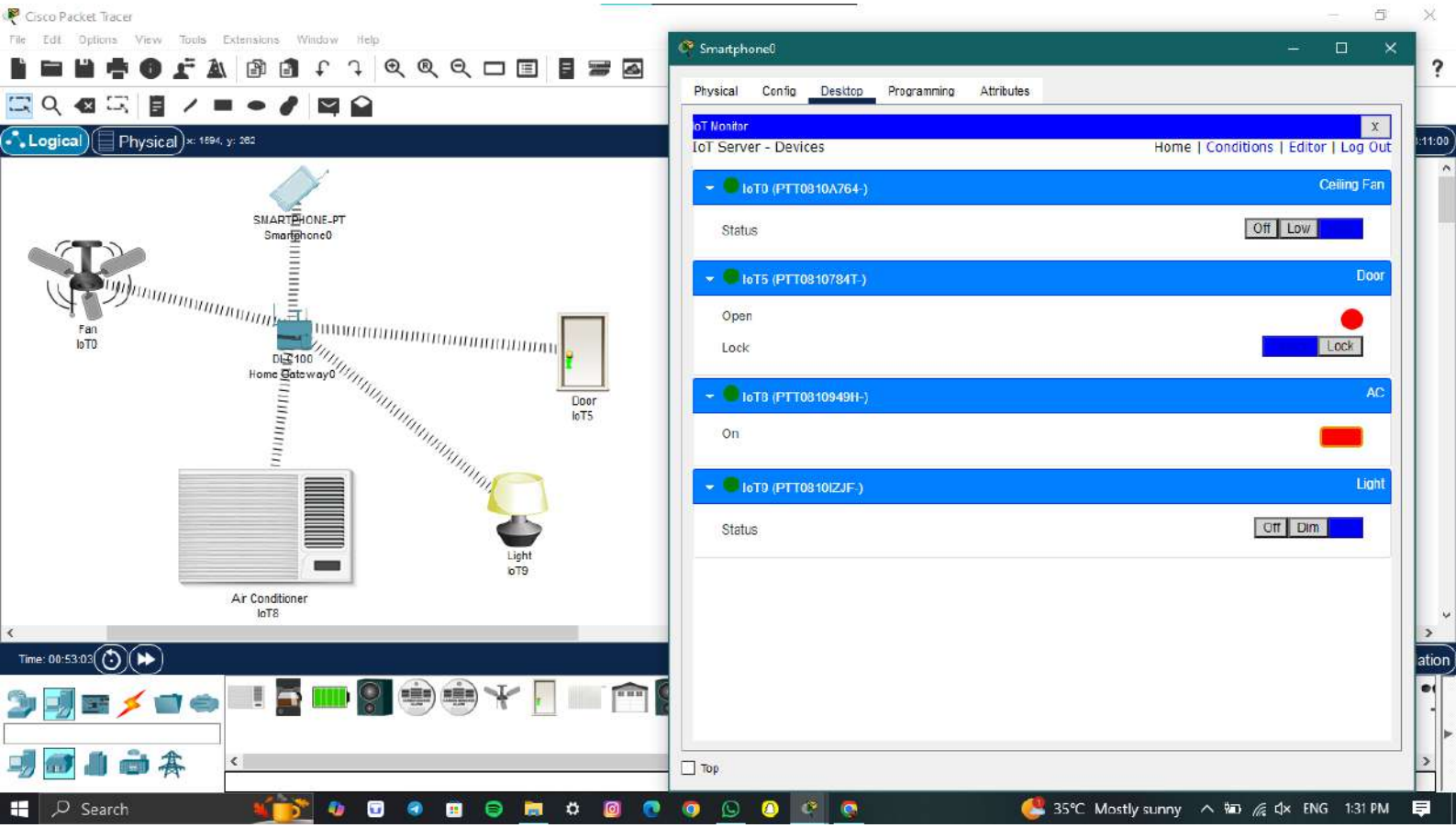

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
tcp
No. Time Source Destination Protocol Length Info
46 13.429070 2409:40f4:3f:615a:1… 2404:6800:4007:826:… TCP 75 61404 → 443 [ACK] Seq=1 Ack=1 Win=256 Len=1
49 13.467240 2404:6800:4007:826:… 2409:40f4:3f:615a:1… TCP 86 443 → 61404 [ACK] Seq=1 Ack=2 Win=278 Len=0 SLE=1 SRE=2
56 14.563612 157.240.192.55 192.168.133.237 TCP 443 80 → 51029 [PSH, ACK] Seq=2120 Ack=277 Win=277 Len=389
57 14.579178 192.168.133.237 157.240.192.55 TCP 123 51029 → 80 [PSH, ACK] Seq=277 Ack=2509 Win=258 Len=69
58 14.615349 157.240.192.55 192.168.133.237 TCP 54 80 → 51029 [ACK] Seq=2509 Ack=346 Win=277 Len=0
79 15.707500 157.240.192.55 192.168.133.237 TCP 459 80 → 51029 [PSH, ACK] Seq=2509 Ack=346 Win=277 Len=405
80 15.716634 192.168.133.237 157.240.192.55 TCP 123 51029 → 80 [PSH, ACK] Seq=346 Ack=2914 Win=257 Len=69
81 15.758518 157.240.192.55 192.168.133.237 TCP 54 80 → 51029 [ACK] Seq=2914 Ack=415 Win=277 Len=0
84 16.920164 157.240.192.55 192.168.133.237 TCP 459 80 → 51029 [PSH, ACK] Seq=2914 Ack=415 Win=277 Len=405
85 16.975029 192.168.133.237 157.240.192.55 TCP 54 51029 → 80 [ACK] Seq=415 Ack=3319 Win=255 Len=0
86 17.069677 192.168.133.237 157.240.192.55 TCP 123 51029 → 80 [PSH, ACK] Seq=415 Ack=3319 Win=255 Len=69
87 17.091399 157.240.192.55 192.168.133.237 TCP 54 80 → 51029 [ACK] Seq=3319 Ack=484 Win=277 Len=0
90 18.739479 157.240.192.55 192.168.133.237 TCP 974 80 → 51029 [PSH, ACK] Seq=3319 Ack=484 Win=277 Len=920
91 18.784072 192.168.133.237 157.240.192.55 TCP 54 51029 → 80 [ACK] Seq=484 Ack=4239 Win=258 Len=0
92 18.849470 192.168.133.237 157.240.192.55 TCP 123 51029 → 80 [PSH, ACK] Seq=484 Ack=4239 Win=258 Len=69
93 18.927143 157.240.192.55 192.168.133.237 TCP 54 80 → 51029 [ACK] Seq=4239 Ack=553 Win=277 Len=0
94 19.691878 157.240.192.55 192.168.133.237 TCP 445 80 → 51029 [PSH, ACK] Seq=4239 Ack=553 Win=277 Len=391
95 19.702775 192.168.133.237 157.240.192.55 TCP 123 51029 → 80 [PSH, ACK] Seq=553 Ack=4630 Win=257 Len=69
96 19.753031 157.240.192.55 192.168.133.237 TCP 54 80 → 51029 [ACK] Seq=4630 Ack=622 Win=277 Len=0
97 19.918886 2409:40f4:3f:615a:1… 2405:200:1630:c8e::… TCP 75 51105 → 443 [ACK] Seq=1 Ack=1 Win=254 Len=1
98 19.962762 2405:200:1630:c8e::… 2409:40f4:3f:615a:1… TCP 86 443 → 51105 [ACK] Seq=1 Ack=2 Win=501 Len=0 SLE=1 SRE=2
100 20.447016 2409:40f4:3f:615a:1… 2405:200:1630:181::… TCP 74 61392 → 80 [FIN, ACK] Seq=1 Ack=1 Win=257 Len=0
101 20.447235 2409:40f4:3f:615a:1… 2404:6800:4007:81f:… TCP 74 61393 → 80 [FIN, ACK] Seq=1 Ack=1 Win=257 Len=0
Frame 57: 123 bytes on wire (984 bits), 123 bytes captured (984 bits) on interface \Device\N
Ethernet II, Src: Intel_de:c3:e9 (f4:06:69:de:c3:e9), Dst: 2a:99:57:fb:7f:2a (2a:99:57:fb:7f
Internet Protocol Version 4, Src: 192.168.133.237, Dst: 157.240.192.55
Transmission Control Protocol, Src Port: 51029, Dst Port: 80, Seq: 277, Ack: 2509, Len: 69
Source Port: 51029
Destination Port: 80
[Stream index: 3]
[Stream Packet Number: 20]
[Conversation completeness: Incomplete (12)]
[TCP Segment Len: 69]
Sequence Number: 277 (relative sequence number)
Sequence Number (raw): 2860272832
[Next Sequence Number: 346 (relative sequence number)]
Acknowledgment Number: 2509 (relative ack number)
Acknowledgment number (raw): 3448976110
0000 2a 99 57 fb 7f 2a f4 06 69 de c3 e9 08 00 45 00
0010 00 6d d3 63 40 00 80 06 82 69 c0 a8 85 ed 9d f0
0020 c0 37 c7 55 00 50 aa 7c 4c c0 cd 93 32 ee 50 18
0030 01 02 61 03 00 00 33 46 0d 0a 00 00 3c 0d 09 c3
0040 df c2 99 8b 6e d0 9a 69 ea f1 8b 57 a7 5f bc fc
0050 5f 01 df f4 4c 66 66 83 57 4b c3 83 21 a4 66 b6
0060 b6 e6 1d 09 9b 70 49 93 60 b2 d8 4c ae 98 10 5c
0070 71 fa 10 42 5b 4f 07 86 d1 0d 0a
Acknowledgment Number (tcp.ack), 4 bytes
Packets: 215 · Displayed: 113 (52.6%) · Dropped: 0 (0.0%)
Profile: Default
Search
36°C Partly sunny
ENG
2:11 PM

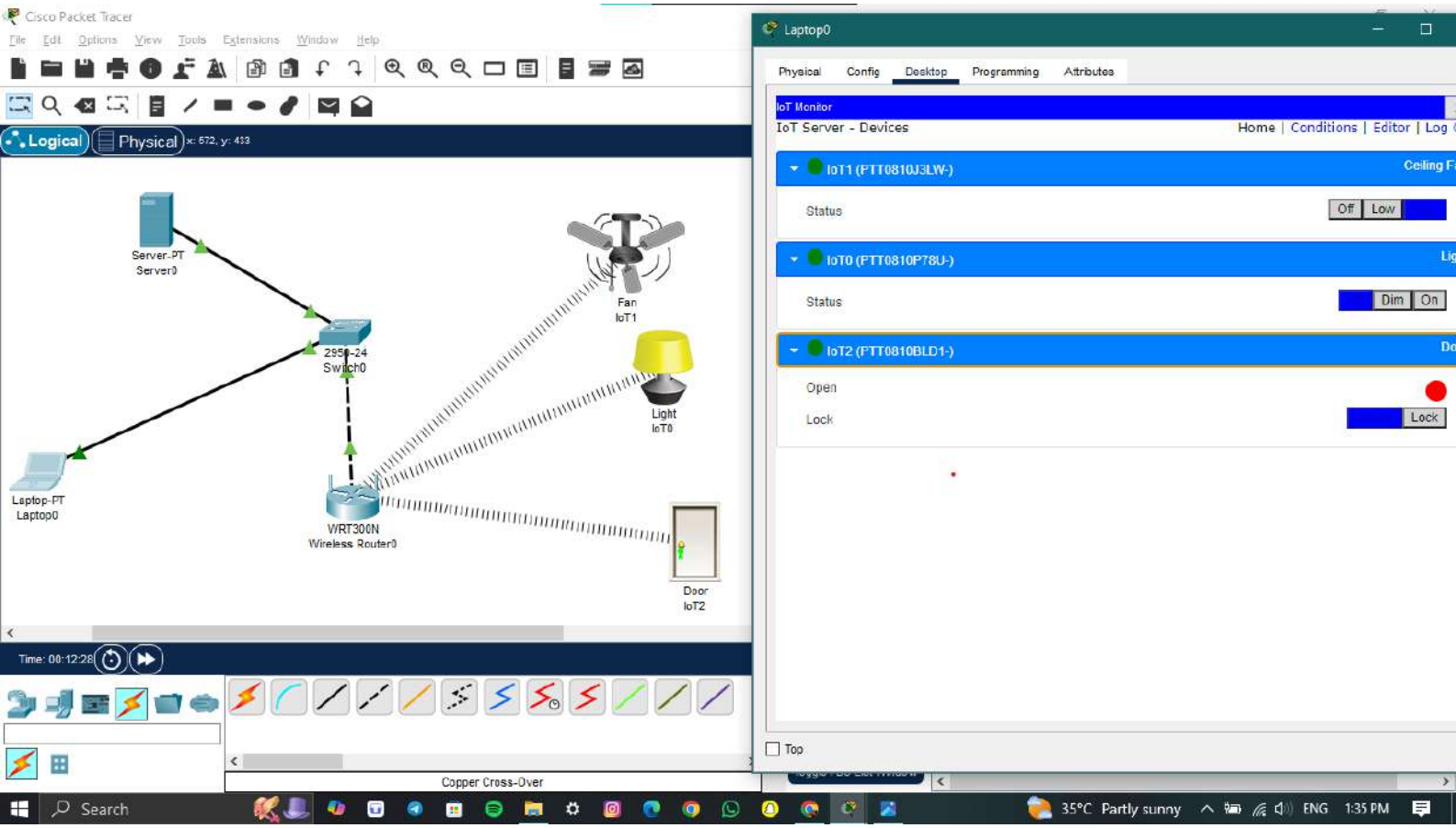

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
http
No. Time Source Destination Protocol Length Info
13 0.353035 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303882 HTTP/1.1
16 0.529424 210.148.85.30 192.168.133.237 HTTP 356 HTTP/1.1 200 OK (image/jpeg)
74 30.528538 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303912 HTTP/1.1
84 30.739020 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303912 HTTP/1.1
86 31.011661 210.148.85.30 192.168.133.237 HTTP 352 HTTP/1.1 200 OK (image/jpeg)
99 37.042760 2409:40f4:3f:615a:3… 2606:2800:247:57cb:… HTTP 328 GET /DigiCertGlobalRootG2.crl HTTP/1.1
101 37.075503 2606:2800:247:57cb:… 2409:40f4:3f:615a:3… HTTP 358 HTTP/1.1 304 Not Modified
110 37.154193 2409:40f4:3f:615a:3… 2405:200:1630:181::… HTTP 301 GET / HTTP/1.1
112 37.201587 2405:200:1630:181::… 2409:40f4:3f:615a:3… HTTP 337 HTTP/1.1 304 Not Modified
121 37.320425 2409:40f4:3f:615a:3… 2404:6800:4007:81f:… HTTP 276 GET /r/gsr1.crl HTTP/1.1
122 37.354487 2404:6800:4007:81f:… 2409:40f4:3f:615a:3… HTTP 296 HTTP/1.1 304 Not Modified
123 37.367690 2409:40f4:3f:615a:3… 2404:6800:4007:81f:… HTTP 274 GET /r/r4.crl HTTP/1.1
126 37.416038 2404:6800:4007:81f:… 2409:40f4:3f:615a:3… HTTP 296 HTTP/1.1 304 Not Modified
149 61.185148 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303943 HTTP/1.1
151 61.345293 210.148.85.30 192.168.133.237 HTTP 356 HTTP/1.1 200 OK (image/jpeg)
220 91.341552 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303973 HTTP/1.1
230 91.937053 192.168.133.237 210.148.85.30 HTTP 204 GET /api/check/online?t=1726303973 HTTP/1.1
234 92.117726 210.148.85.30 192.168.133.237 HTTP 364 HTTP/1.1 200 OK (image/jpeg)
352 124.004583 192.168.133.237 91.108.56.200 HTTP 290 POST /api HTTP/1.1 (application/x-www-form-urlencoded)
372 124.086193 192.168.133.237 91.108.23.100 HTTP 190 POST /api HTTP/1.1 (application/x-www-form-urlencoded)
392 124.282705 192.168.133.237 91.108.23.100 HTTP 94 POST /api HTTP/1.1 (application/x-www-form-urlencoded)
397 124.303011 192.168.133.237 91.108.23.100 HTTP 346 POST /api HTTP/1.1 (application/x-www-form-urlencoded)
414 124.491923 2409:40f4:3f:615a:3… 64:ff9b::312c:74e7 HTTP 185 GET /connecttest.txt HTTP/1.1
Frame 86: 352 bytes on wire (2816 bits), 352 bytes captured (2816 bits) on interface \Device
Ethernet II, Src: 2a:99:57:fb:7f:2a (2a:99:57:fb:7f:2a), Dst: Intel_de:c3:e9 (f4:06:69:de:c3
Internet Protocol Version 4, Src: 210.148.85.30, Dst: 192.168.133.237
Transmission Control Protocol, Src Port: 80, Dst Port: 62731, Seq: 1, Ack: 151, Len: 298
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
Connection: keep-alive\r\n
Content-Type: image/jpeg\r\n
Date: Sat, 14 Sep 2024 08:51:53 GMT\r\n
Flow-Level: 3\r\n
Http-X-Isis-Logid: 212245776715368825\r\n
Logid: 212245776715368825\r\n
Server: nginx\r\n
Yld: 212245776715368825\r\n
Yme: ZIGW+Ss3QEsTdTcDUmr/tG1MvuUZSxz3owpNwyGAjq2I\r\n
0000 f4 06 69 de c3 e9 2a 99 57 fb 7f 2a 08 00 45 00 ··i···*· W··*··E·
0010 01 52 00 00 40 00 26 06 e5 5d d2 94 55 1e c0 a8 ·R··@·&· ·]··U···
0020 85 ed 00 50 f5 0b f3 9e ce 99 17 f5 ef d6 50 18 ···P···· ·····P·
0030 03 b4 a4 05 00 00 48 54 54 50 2f 31 2e 31 20 32 ·····HT TP/1.1 2
0040 30 30 20 4f 4b 0d 0a 43 6f 6e 6e 65 63 74 69 6f 00 OK··C onnectio
0050 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65 0d 0a 43 n: keep- alive··C
0060 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 69 6d 61 ontent-T ype: ima
0070 67 65 2f 6a 70 65 67 0d 0a 44 61 74 65 3a 20 53 ge/jpeg· ·Date: S
0080 61 74 2c 20 31 34 20 53 65 70 20 32 30 32 34 20 at, 14 S ep 2024
0090 30 38 3a 35 31 3a 35 33 20 47 4d 54 0d 0a 46 6c 08:51:53 GMT··Fl
00a0 6f 77 2d 4c 65 76 65 6c 3a 20 33 0d 0a 48 74 74 ow-Level : 3··Htt
00b0 70 2d 58 2d 49 73 69 73 2d 4c 6f 67 69 64 3a 20 p-X-Isis -Logid:
00c0 32 31 32 32 34 35 37 37 36 37 31 35 33 36 38 38 21224577 67153688
00d0 32 35 0d 0a 4c 6f 67 69 64 3a 20 32 31 32 32 34 25··Logi d: 21224
00e0 35 37 37 36 37 31 35 33 36 38 38 32 35 0d 0a 53 57767153 68825··S
00f0 65 72 76 65 72 3a 20 6e 67 69 6e 78 0d 0a 59 6c erver: n ginx··Yl
Hypertext Transfer Protocol: Protocol
Packets: 2076 · Displayed: 34 (1.6%) · Dropped: 0 (0.0%)
Profile: Default
Search
36°C Partly sunny
ENG
2:29 PM

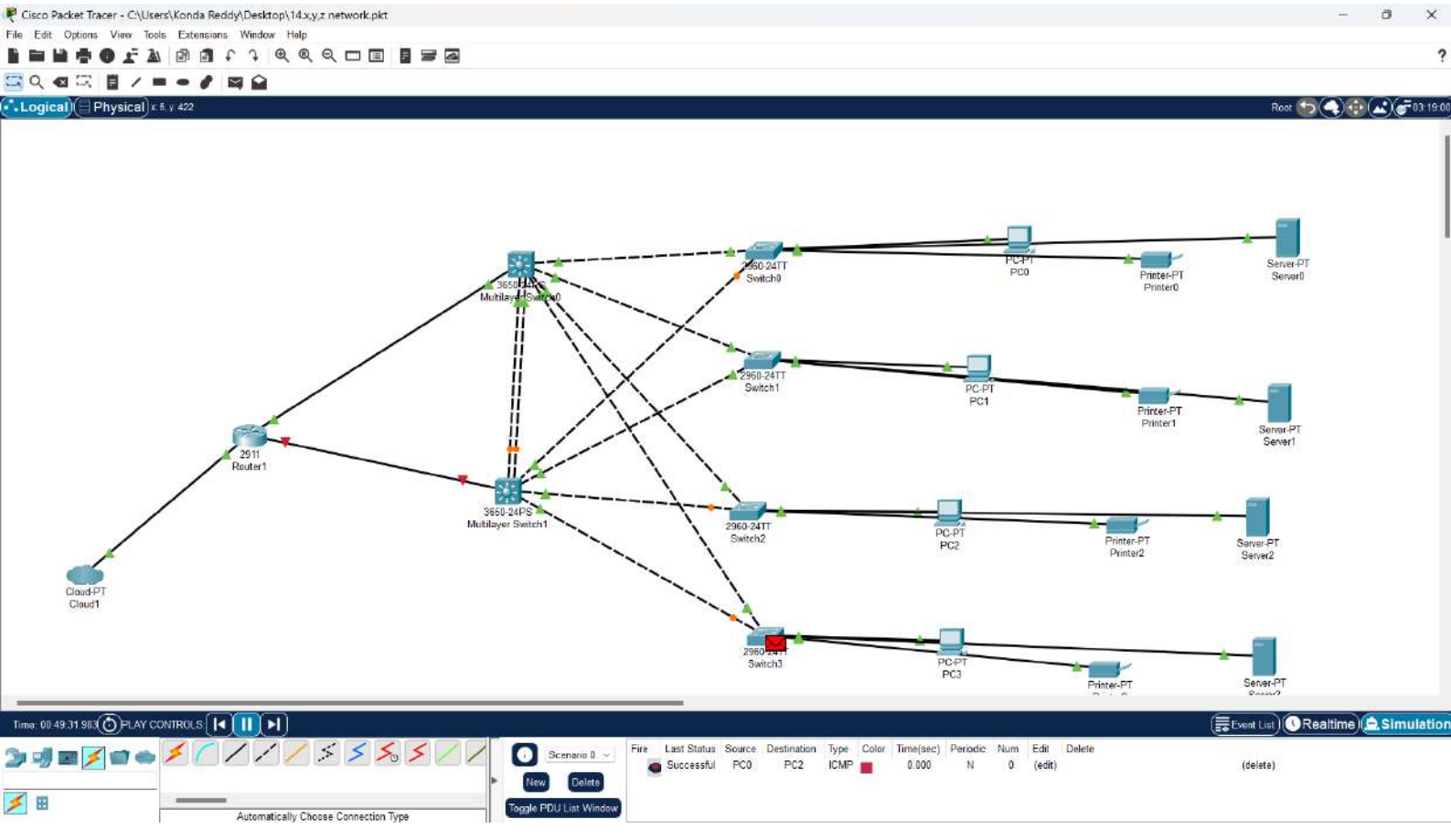

*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
arp
No. Time Source Destination Protocol Length Info
33 9.093294 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 Who has 192.168.133.237? Tell 192.168.133.88
34 9.093316 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 192.168.133.237 is at f4:06:69:de:c3:e9
90 36.036446 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 Who has 192.168.133.237? Tell 192.168.133.88
91 36.036491 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 192.168.133.237 is at f4:06:69:de:c3:e9
154 66.200420 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 Who has 192.168.133.237? Tell 192.168.133.88
155 66.200439 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 192.168.133.237 is at f4:06:69:de:c3:e9
172 81.816264 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 Who has 192.168.133.237? Tell 192.168.133.88
173 81.816302 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 192.168.133.237 is at f4:06:69:de:c3:e9
267 98.456565 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 Who has 192.168.133.237? Tell 192.168.133.88
268 98.456592 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 192.168.133.237 is at f4:06:69:de:c3:e9
269 98.932045 Intel_de:c3:e9 2a:99:57:fb:7f:2a ARP 42 Who has 192.168.133.88? Tell 192.168.133.237
270 98.957925 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 192.168.133.88 is at 2a:99:57:fb:7f:2a
286 123.672507 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.88? Tell 192.168.133.237
289 123.735273 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 192.168.133.88 is at 2a:99:57:fb:7f:2a
291 123.743520 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.88? Tell 192.168.133.237
292 123.747919 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 192.168.133.88 is at 2a:99:57:fb:7f:2a
328 123.939106 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.237? (ARP Probe)
348 123.982209 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.88? Tell 192.168.133.237
350 123.984503 2a:99:57:fb:7f:2a Intel_de:c3:e9 ARP 42 192.168.133.88 is at 2a:99:57:fb:7f:2a
369 124.085234 AzureWaveTec_8e:01:... Broadcast ARP 42 ARP Announcement for 192.168.133.219
468 124.939905 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.237? (ARP Probe)
538 125.931332 Intel_de:c3:e9 Broadcast ARP 42 Who has 192.168.133.237? (ARP Probe)
734 126.934871 Intel_de:c3:e9 Broadcast ARP 42 ARP Announcement for 192.168.133.237
Frame 90: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface \Device\NPF_{
Ethernet II, Src: 2a:99:57:fb:7f:2a (2a:99:57:fb:7f:2a), Dst: Intel_de:c3:e9 (f4:06:69:de:c3:e
Address Resolution Protocol (request)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
Sender MAC address: 2a:99:57:fb:7f:2a (2a:99:57:fb:7f:2a)
Sender IP address: 192.168.133.88
Target MAC address: 00:00:00_00:00:00 (00:00:00:00:00:00)
Target IP address: 192.168.133.237
0000 f4 06 69 de c3 e9 2a 99 57 fb 7f 2a 08 06 00 01
0010 08 00 06 04 00 01 2a 99 57 fb 7f 2a c0 a8 85 58
0020 00 00 00 00 00 00 c0 a8 85 ed
Address Resolution Protocol: Protocol
Packets: 2076 · Displayed: 34 (1.6%) · Dropped: 0 (0.0%)
Profile: Default
Search
36°C Partly sunny
ENG
2:29 PM

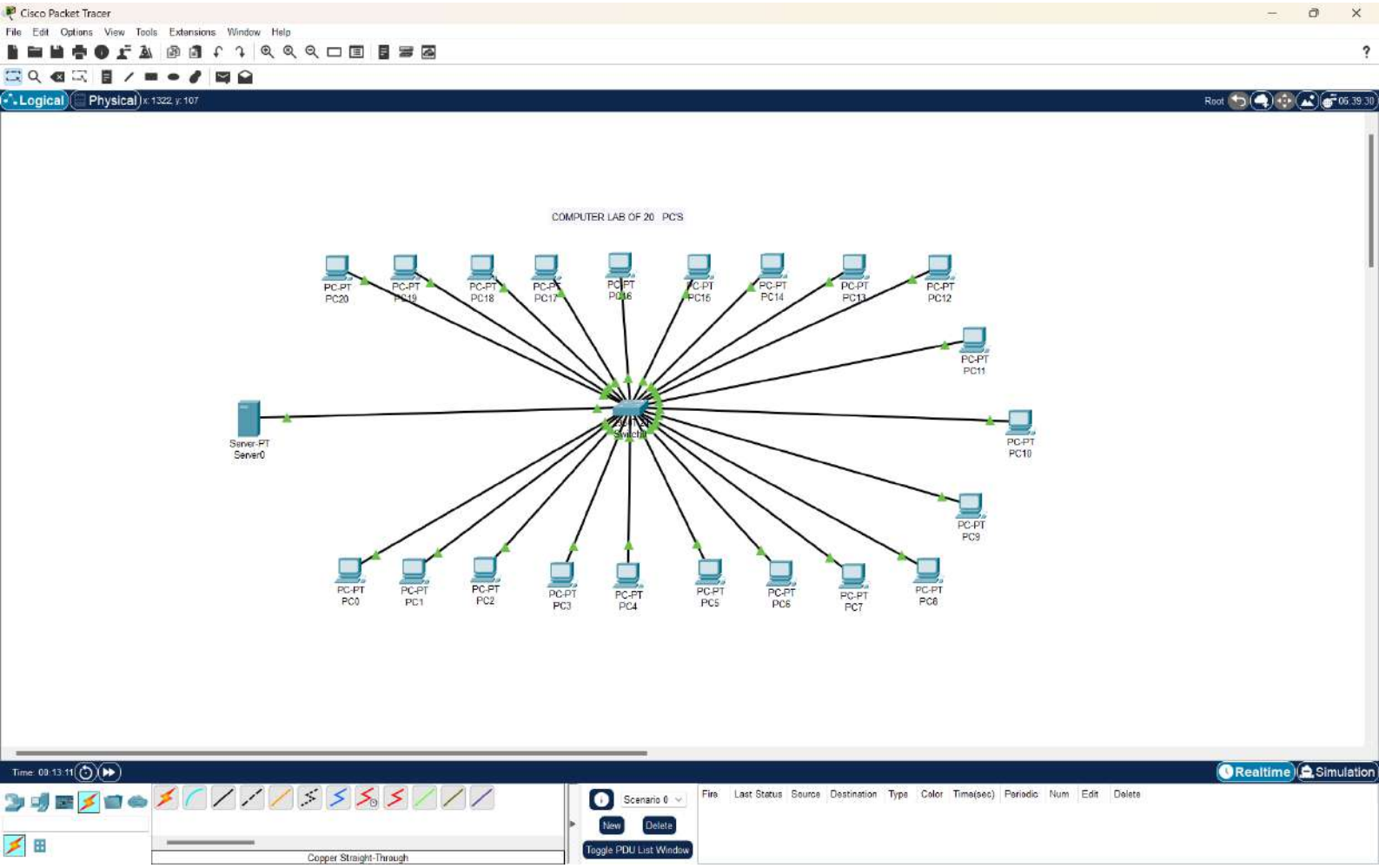

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 440, y: 414
SMARTPHONE-PT
Smartphone0
Fan
IoT0
DLS100
Home Gateway0
Door
IoT5
Light
IoT9
Air Conditioner
IoT8
Time: 00:52:41
Smartphone0
Physical
Config
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log Out
IoT0 (PTT0810A764-)
Ceiling Fan
Status
Off
High
IoT5 (PTT0810784T-)
Door
Open
Lock
Unlock
IoT8 (PTT0810949H-)
AC
On
IoT9 (PTT0810IZJF-)
Light
Status
Dim
On
Top
Search
35°C Mostly sunny
ENG
1:30 PM

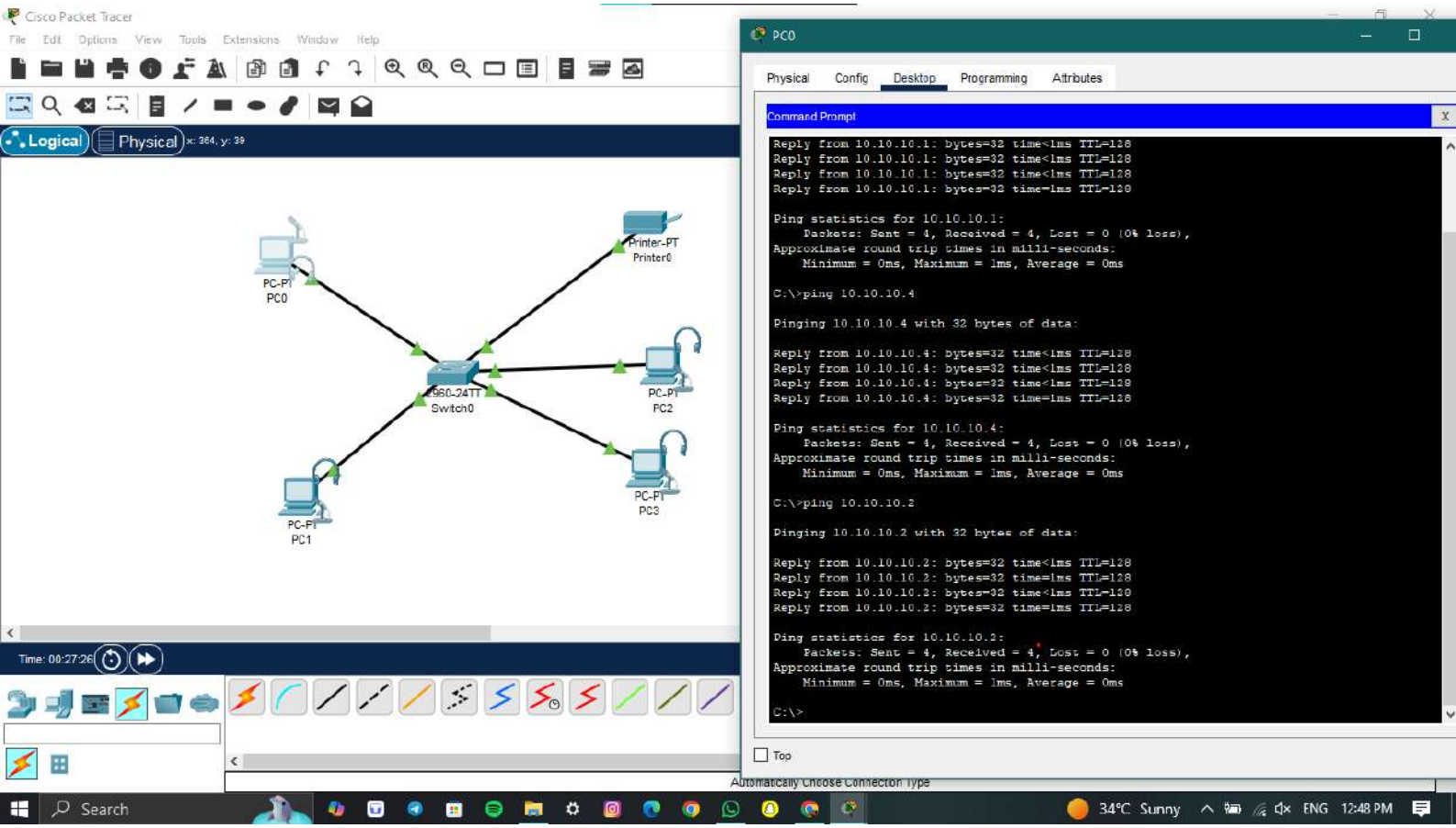

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
SMARTPHONE-PT
Smartphone0
8.86
Water Level Monitor
IoT1
DLC100
Home Gateway0
Lawn Sprinkler
IoT4
Water Drain
IoT2
Time: 00:13:01
Smartphone0
Physical
Config
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log Out
IoT4 (PTT0810HTVF-)
Lawn Sprinkler
Status
IoT2 (PTT0810Y1VB-)
Water Drain
Status
IoT1 (PTT08106DE3-)
Water Level Monitor
Water Level
8.9 cm
Top
Search
36°C Partly sunny
ENG
2:50 PM

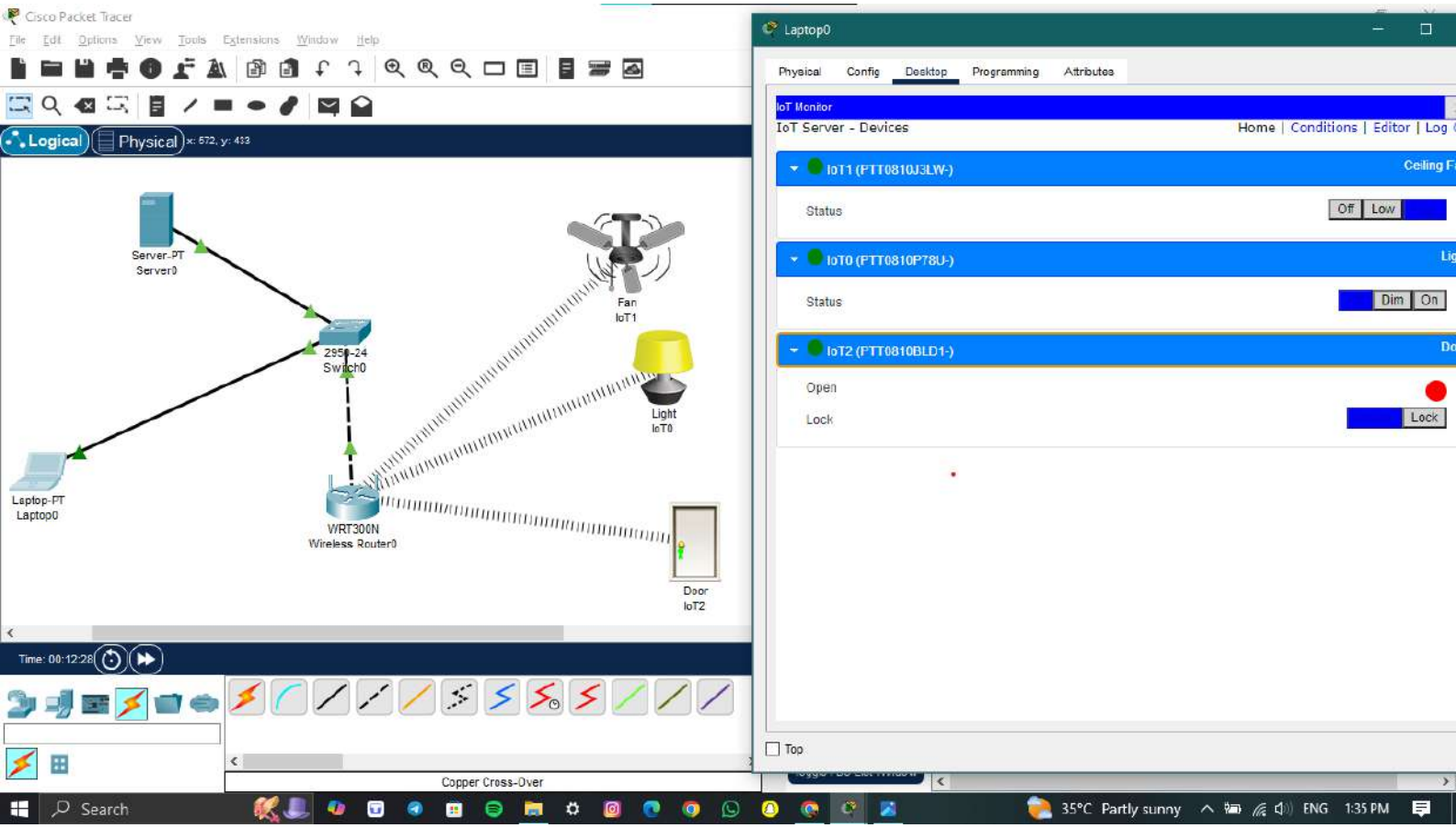

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
SMARTPHONE-PT
Smartphone0
Fan
IoT0
DLS100
Home Gateway0
Door
IoT5
Light
IoT9
Air Conditioner
IoT8
Time: 00:53:03
Smartphone0
Physical
Config
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log Out
IoT0 (PTT0810A764-)
Ceiling Fan
Status
Off
Low
IoT5 (PTT0810784T-)
Door
Open
Lock
Lock
IoT8 (PTT0810949H-)
AC
On
IoT9 (PTT0810IZJF-)
Light
Status
Off
Dim
Top
Search
35°C Mostly sunny
ENG
1:31 PM

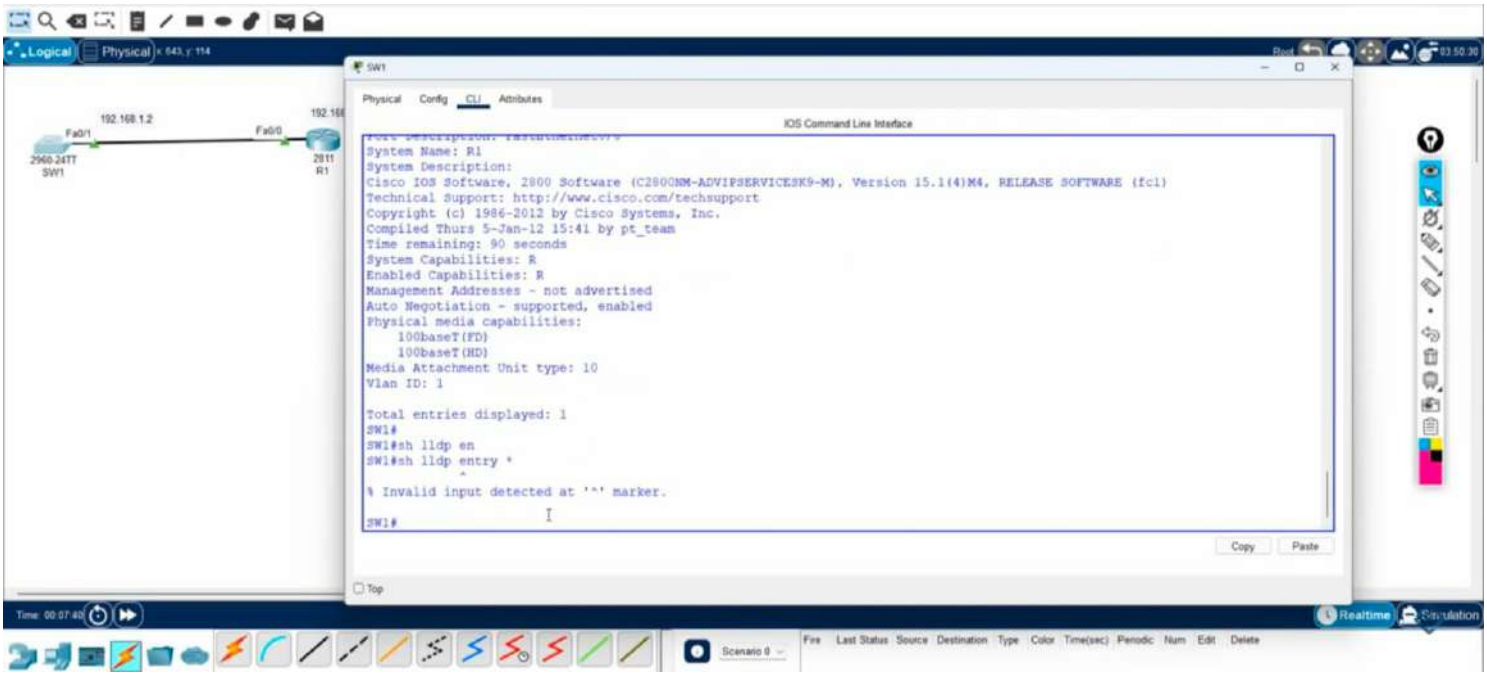

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
Server-PT
Server0
2950-24
Switch0
Fan
IoT1
Light
IoT0
Laptop-PT
Laptop0
WRT300N
Wireless Router0
Door
IoT2
Time: 00:12:28
Copper Cross-Over
Laptop0
Physical
Config
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log
IoT1 (PTT0810J3LW-)
Status
Off
Low
IoT0 (PTT0810P78U-)
Status
Dim
On
IoT2 (PTT0810BLD1-)
Open
Lock
Lock
Top
Search
35°C Partly sunny
ENG
1:35 PM

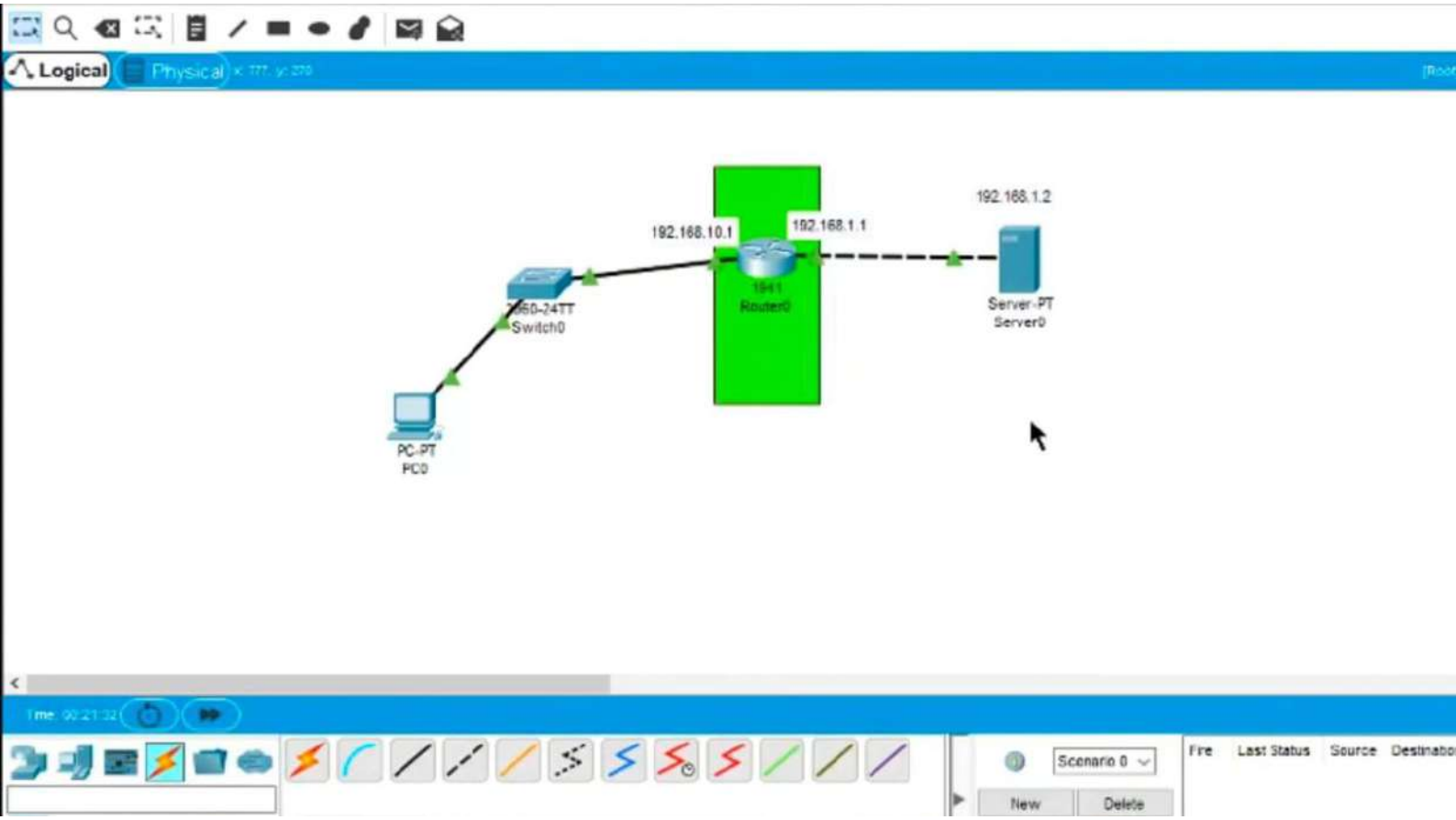

Cisco Packet Tracer - C:\Users\Konda Reddy\Desktop\14.x,y,z network.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical
Root
Cloud-PT
Cloud1
2911
Router1
3650-24PS
Multilayer Switch1
2960-24TT
Switch0
2960-24TT
Switch1
2960-24TT
Switch2
2960-24TT
Switch3
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
Printer-PT
Printer0
Printer-PT
Printer1
Printer-PT
Printer2
Server-PT
Server0
Server-PT
Server1
Server-PT
Server2
Time: 00:49:31.983
PLAY CONTROLS
Event List
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
Successful
PC0
PC2
ICMP
0.000
N
0
(edit)
(delete)
Automatically Choose Connection Type

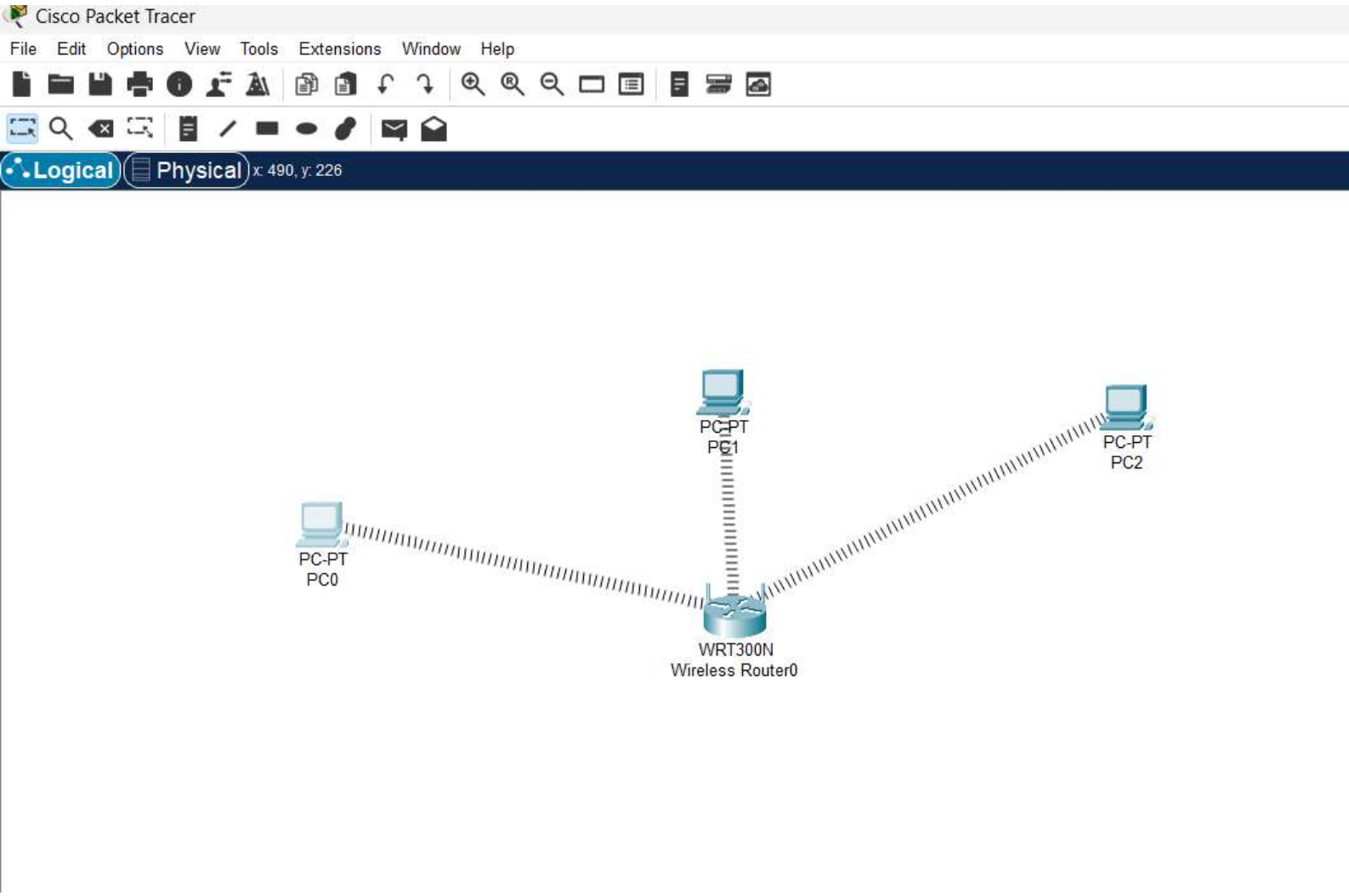

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
Root
COMPUTER LAB OF 20 PC'S
PC-PT PC20
PC-PT PC19
PC-PT PC18
PC-PT PC17
PC-PT PC16
PC-PT PC15
PC-PT PC14
PC-PT PC13
PC-PT PC12
PC-PT PC11
PC-PT PC10
PC-PT PC9
PC-PT PC8
PC-PT PC7
PC-PT PC6
PC-PT PC5
PC-PT PC4
PC-PT PC3
PC-PT PC2
PC-PT PC1
PC-PT PC0
Server-PT Server0
Realtime
Simulation
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 364, y: 39
PC-PT
PC0
Printer-PT
Printer0
2960-24TT
Switch0
PC-PT
PC2
PC-PT
PC3
PC-PT
PC1
Time: 00:27:26
PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 10.10.10.1: bytes=32 time<1ms TTL=128
Reply from 10.10.10.1: bytes=32 time<1ms TTL=128
Reply from 10.10.10.1: bytes=32 time<1ms TTL=128
Reply from 10.10.10.1: bytes=32 time=1ms TTL=128
Ping statistics for 10.10.10.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 10.10.10.4
Pinging 10.10.10.4 with 32 bytes of data:
Reply from 10.10.10.4: bytes=32 time<1ms TTL=128
Reply from 10.10.10.4: bytes=32 time<1ms TTL=128
Reply from 10.10.10.4: bytes=32 time<1ms TTL=128
Reply from 10.10.10.4: bytes=32 time=1ms TTL=128
Ping statistics for 10.10.10.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 10.10.10.2
Pinging 10.10.10.2 with 32 bytes of data:
Reply from 10.10.10.2: bytes=32 time<1ms TTL=128
Reply from 10.10.10.2: bytes=32 time=1ms TTL=128
Reply from 10.10.10.2: bytes=32 time<1ms TTL=128
Reply from 10.10.10.2: bytes=32 time=1ms TTL=128
Ping statistics for 10.10.10.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top
Automatically Choose Connection Type
Search
34°C Sunny
ENG
12:48 PM


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
Server-PT
Server0
2950-24
Switch0
Fan
IoT1
Light
IoT0
Laptop-PT
Laptop0
WRT300N
Wireless Router0
Door
IoT2
Time: 00:12:28
Copper Cross-Over
Laptop0
Physical
Config
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log
IoT1 (PTT0810J3LW-)
Status
Off
Low
IoT0 (PTT0810P78U-)
Status
Dim
On
IoT2 (PTT0810BLD1-)
Open
Lock
Lock
Top
Search
35°C Partly sunny
ENG
1:35 PM

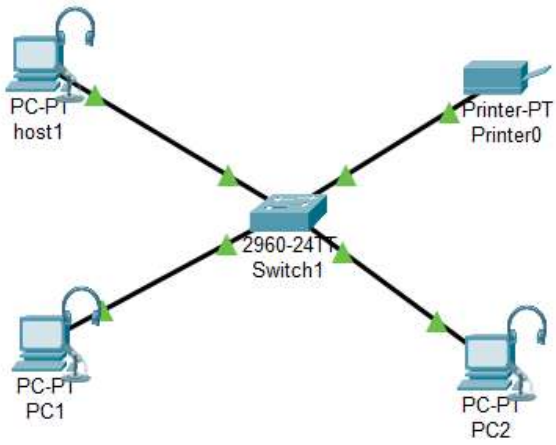

Logical
Physical
SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
System Name: R1
System Description:
Cisco IOS Software, 2800 Software (C2800NM-ADVIPSERVICESK9-M), Version 15.1(4)M4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Thurs 5-Jan-12 15:41 by pt_team
Time remaining: 90 seconds
System Capabilities: R
Enabled Capabilities: R
Management Addresses - not advertised
Auto Negotiation - supported, enabled
Physical media capabilities:
100baseT(FD)
100baseT(HD)
Media Attachment Unit type: 10
Vlan ID: 1
Total entries displayed: 1
SW1#
SW1#sh lldp en
SW1#sh lldp entry *
% Invalid input detected at '^' marker.
SW1#
Copy
Paste
Top
192.168.1.2
Fa0/1
Fa0/0
2960-24TT
SW1
2811
R1
Realtime
Simulation

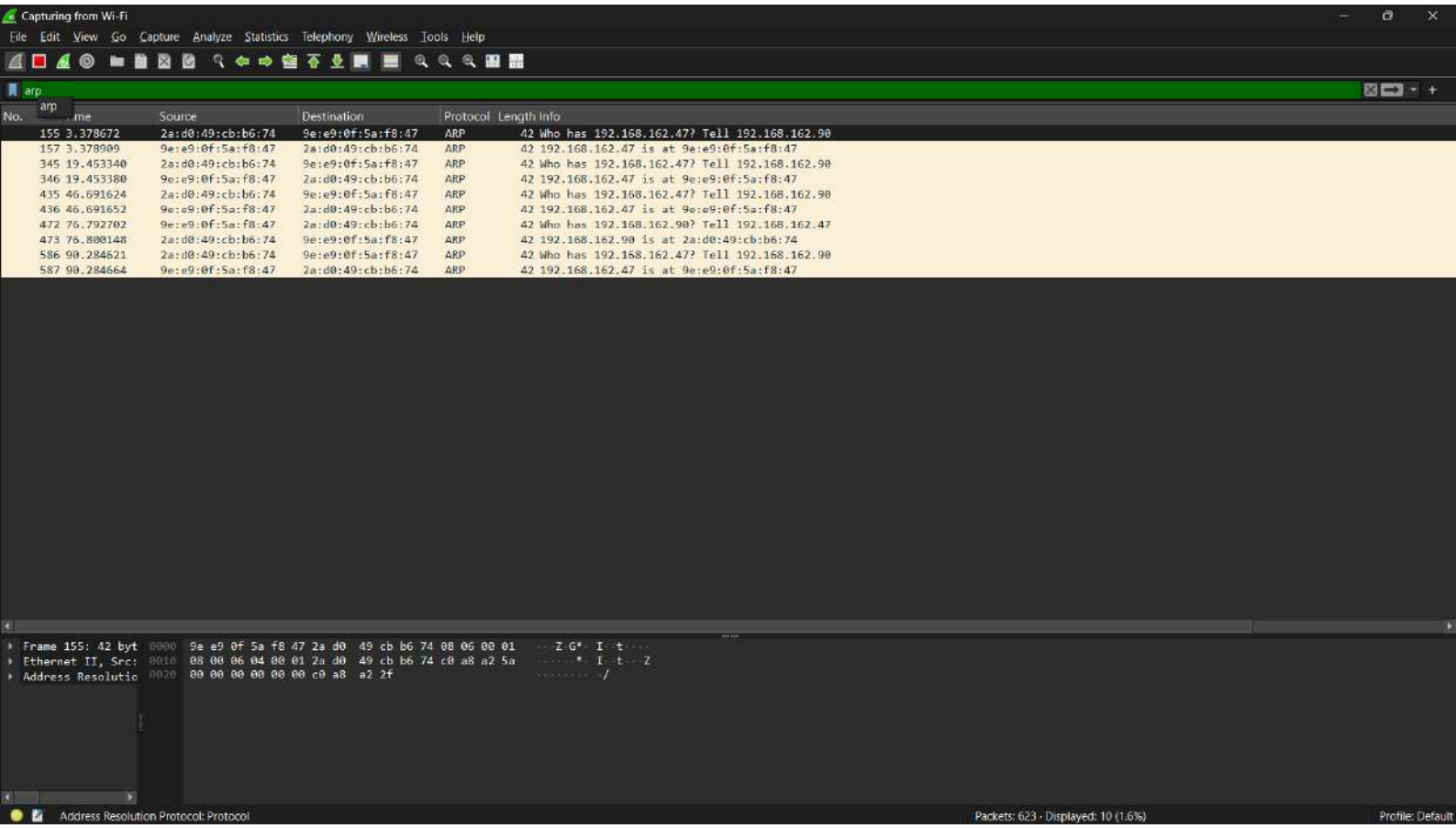

Logical
Physical
192.168.10.1
192.168.1.1
192.168.1.2
1941
Router0
Server-PT
Server0
Switch0
PC-PT
PC0

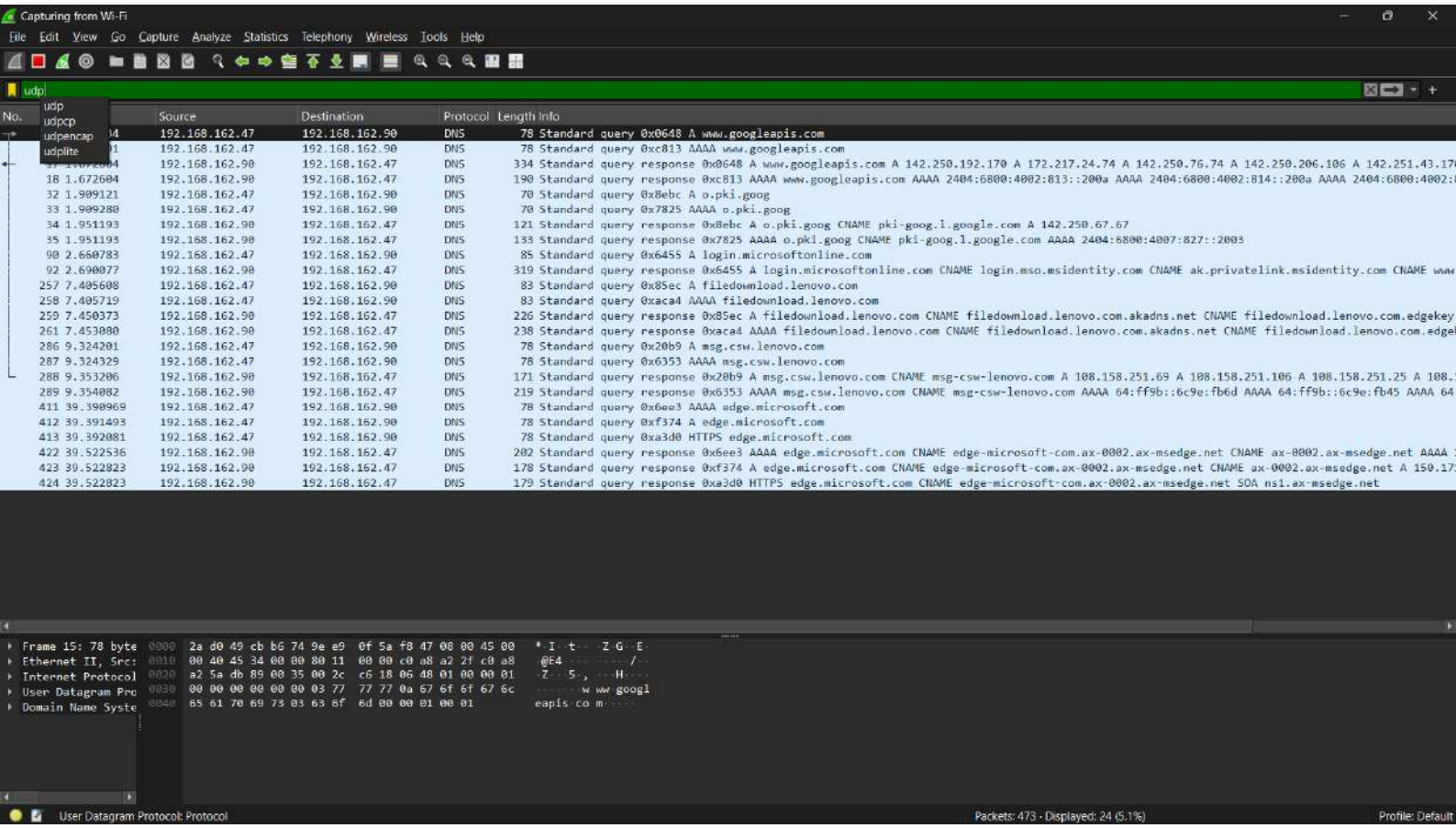

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 490, y: 226
PC-PT
PC1
PC-PT
PC2
PC-PT
PC0
WRT300N
Wireless Router0

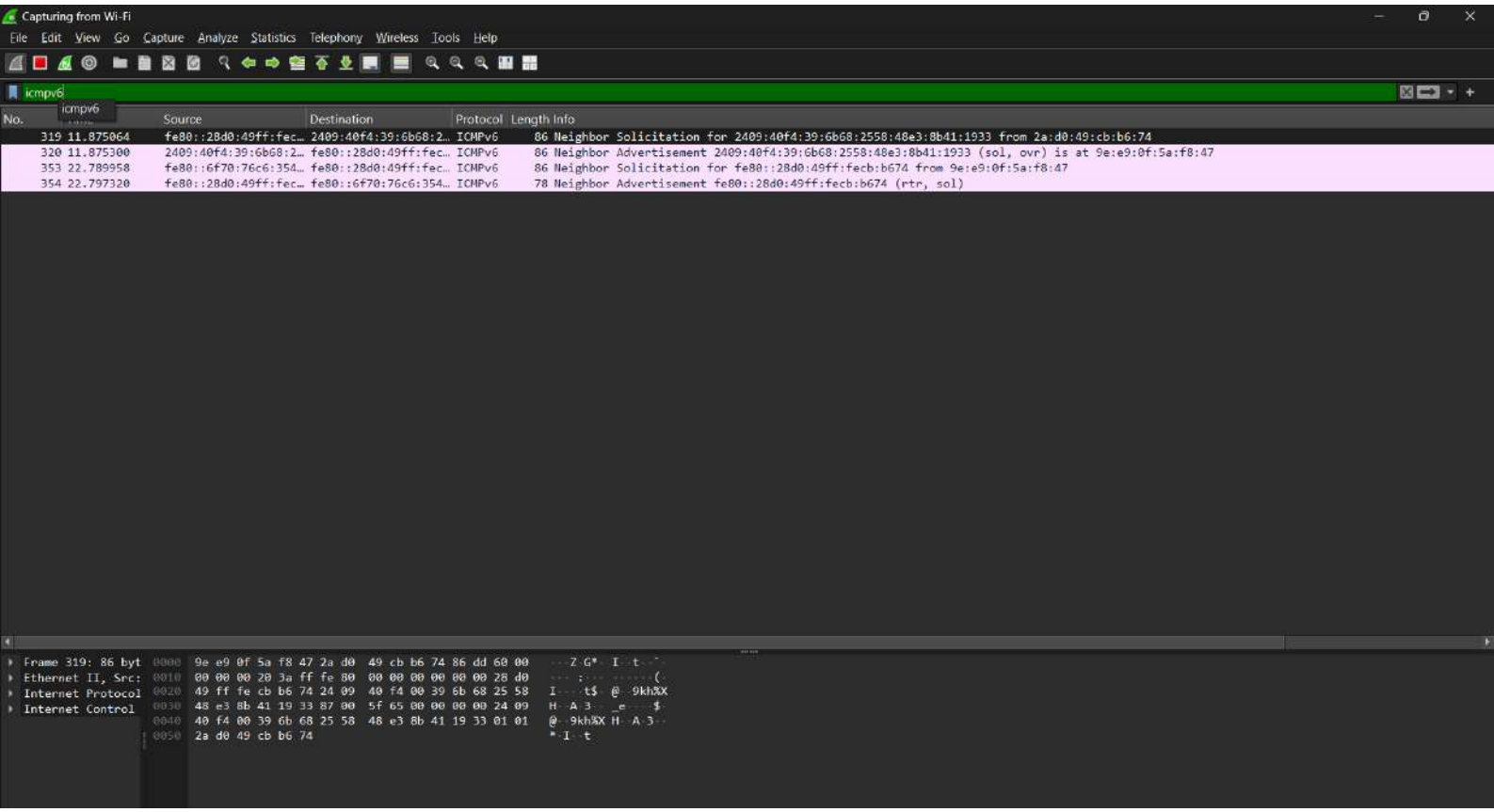
File Edit Options View Tools Extensions Window Help

Logical Physical x: 67, y: 1




Capturing from Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
arp
arp
No. Time Source Destination Protocol Length Info
155 3.378672 2a:d0:49:cb:b6:74 9e:e9:0f:5a:f8:47 ARP 42 Who has 192.168.162.47? Tell 192.168.162.90
157 3.378909 9e:e9:0f:5a:f8:47 2a:d0:49:cb:b6:74 ARP 42 192.168.162.47 is at 9e:e9:0f:5a:f8:47
345 19.453340 2a:d0:49:cb:b6:74 9e:e9:0f:5a:f8:47 ARP 42 Who has 192.168.162.47? Tell 192.168.162.90
346 19.453380 9e:e9:0f:5a:f8:47 2a:d0:49:cb:b6:74 ARP 42 192.168.162.47 is at 9e:e9:0f:5a:f8:47
435 46.691624 2a:d0:49:cb:b6:74 9e:e9:0f:5a:f8:47 ARP 42 Who has 192.168.162.47? Tell 192.168.162.90
436 46.691652 9e:e9:0f:5a:f8:47 2a:d0:49:cb:b6:74 ARP 42 192.168.162.47 is at 9e:e9:0f:5a:f8:47
472 76.792702 9e:e9:0f:5a:f8:47 2a:d0:49:cb:b6:74 ARP 42 Who has 192.168.162.90? Tell 192.168.162.47
473 76.800148 2a:d0:49:cb:b6:74 9e:e9:0f:5a:f8:47 ARP 42 192.168.162.90 is at 2a:d0:49:cb:b6:74
586 90.284621 2a:d0:49:cb:b6:74 9e:e9:0f:5a:f8:47 ARP 42 Who has 192.168.162.47? Tell 192.168.162.90
587 90.284664 9e:e9:0f:5a:f8:47 2a:d0:49:cb:b6:74 ARP 42 192.168.162.47 is at 9e:e9:0f:5a:f8:47
Frame 155: 42 byt
Ethernet II, Src:
Address Resolutio
0000 9e e9 0f 5a f8 47 2a d0 49 cb b6 74 08 06 00 01
0010 08 00 06 04 00 01 2a d0 49 cb b6 74 c0 a8 a2 5a
0020 00 00 00 00 00 00 c0 a8 a2 2f
Address Resolution Protocol: Protocol
Packets: 623 · Displayed: 10 (1.6%)
Profile: Default


Capturing from Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
udp
udp
udpcp
udpencap
udplite
No. Source Destination Protocol Length Info
192.168.162.47 192.168.162.90 DNS 78 Standard query 0x0648 A www.googleapis.com
192.168.162.47 192.168.162.90 DNS 78 Standard query 0xc813 AAAA www.googleapis.com
192.168.162.90 192.168.162.47 DNS 334 Standard query response 0x0648 A www.googleapis.com A 142.250.192.170 A 172.217.24.74 A 142.250.76.74 A 142.250.206.106 A 142.251.43.17
18 1.672604 192.168.162.90 192.168.162.47 DNS 190 Standard query response 0xc813 AAAA www.googleapis.com AAAA 2404:6800:4002:813::200a AAAA 2404:6800:4002:814::200a AAAA 2404:6800:4002:
32 1.909121 192.168.162.47 192.168.162.90 DNS 70 Standard query 0x8ebc A o.pki.goog
33 1.909280 192.168.162.47 192.168.162.90 DNS 70 Standard query 0x7825 AAAA o.pki.goog
34 1.951193 192.168.162.90 192.168.162.47 DNS 121 Standard query response 0x8ebc A o.pki.goog CNAME pki-goog.l.google.com A 142.250.67.67
35 1.951193 192.168.162.90 192.168.162.47 DNS 133 Standard query response 0x7825 AAAA o.pki.goog CNAME pki-goog.l.google.com AAAA 2404:6800:4007:827::2003
90 2.660783 192.168.162.47 192.168.162.90 DNS 85 Standard query 0x6455 A login.microsoftonline.com
92 2.690077 192.168.162.90 192.168.162.47 DNS 319 Standard query response 0x6455 A login.microsoftonline.com CNAME login.mso.msidentity.com CNAME ak.privatelink.msidentity.com CNAME www
257 7.405608 192.168.162.47 192.168.162.90 DNS 83 Standard query 0x85ec A filedownload.lenovo.com
258 7.405719 192.168.162.47 192.168.162.90 DNS 83 Standard query 0xaca4 AAAA filedownload.lenovo.com
259 7.450373 192.168.162.90 192.168.162.47 DNS 226 Standard query response 0x85ec A filedownload.lenovo.com CNAME filedownload.lenovo.com.akadns.net CNAME filedownload.lenovo.com.edgekey
261 7.453080 192.168.162.90 192.168.162.47 DNS 238 Standard query response 0xaca4 AAAA filedownload.lenovo.com CNAME filedownload.lenovo.com.akadns.net CNAME filedownload.lenovo.com.edge
286 9.324201 192.168.162.47 192.168.162.90 DNS 78 Standard query 0x20b9 A msg.csw.lenovo.com
287 9.324329 192.168.162.47 192.168.162.90 DNS 78 Standard query 0x6353 AAAA msg.csw.lenovo.com
288 9.353206 192.168.162.90 192.168.162.47 DNS 171 Standard query response 0x20b9 A msg.csw.lenovo.com CNAME msg-csw-lenovo.com A 108.158.251.69 A 108.158.251.106 A 108.158.251.25 A 108.
289 9.354082 192.168.162.90 192.168.162.47 DNS 219 Standard query response 0x6353 AAAA msg.csw.lenovo.com CNAME msg-csw-lenovo.com AAAA 64:ff9b::6c9e:fb6d AAAA 64:ff9b::6c9e:fb45 AAAA 64
411 39.390969 192.168.162.47 192.168.162.90 DNS 78 Standard query 0x6ee3 AAAA edge.microsoft.com
412 39.391493 192.168.162.47 192.168.162.90 DNS 78 Standard query 0xf374 A edge.microsoft.com
413 39.392081 192.168.162.47 192.168.162.90 DNS 78 Standard query 0xa3d0 HTTPS edge.microsoft.com
422 39.522536 192.168.162.90 192.168.162.47 DNS 202 Standard query response 0x6ee3 AAAA edge.microsoft.com CNAME edge-microsoft-com.ax-0002.ax-msedge.net CNAME ax-0002.ax-msedge.net AAAA
423 39.522823 192.168.162.90 192.168.162.47 DNS 178 Standard query response 0xf374 A edge.microsoft.com CNAME edge-microsoft-com.ax-0002.ax-msedge.net CNAME ax-0002.ax-msedge.net A 150.17
424 39.522823 192.168.162.90 192.168.162.47 DNS 179 Standard query response 0xa3d0 HTTPS edge.microsoft.com CNAME edge-microsoft-com.ax-0002.ax-msedge.net SOA ns1.ax-msedge.net
Frame 15: 78 byte
Ethernet II, Src:
Internet Protocol
User Datagram Pro
Domain Name Syste
0000 2a d0 49 cb b6 74 9e e9 0f 5a f8 47 08 00 45 00 *·I··t·· ·Z·G··E·
0010 00 40 45 34 00 00 80 11 00 00 c0 a8 a2 2f c0 a8 ·@E4···· ·····/··
0020 a2 5a db 89 00 35 00 2c c6 18 06 48 01 00 00 01 ·Z···5·, ···H····
0030 00 00 00 00 00 00 03 77 77 77 0a 67 6f 6f 67 6c ·······w ww·googl
0040 65 61 70 69 73 03 63 6f 6d 00 00 01 00 01 eapis·co m·····
User Datagram Protocol: Protocol
Packets: 473 · Displayed: 24 (5.1%)
Profile: Default


Capturing from Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
icmpv6
No. Source Destination Protocol Length Info
319 11.875064 fe80::28d0:49ff:fec… 2409:40f4:39:6b68:2… ICMPv6 86 Neighbor Solicitation for 2409:40f4:39:6b68:2558:48e3:8b41:1933 from 2a:d0:49:cb:b6:74
320 11.875300 2409:40f4:39:6b68:2… fe80::28d0:49ff:fec… ICMPv6 86 Neighbor Advertisement 2409:40f4:39:6b68:2558:48e3:8b41:1933 (sol, ovr) is at 9e:e9:0f:5a:f8:47
353 22.789958 fe80::6f70:76c6:354… fe80::28d0:49ff:fec… ICMPv6 86 Neighbor Solicitation for fe80::28d0:49ff:fecb:b674 from 9e:e9:0f:5a:f8:47
354 22.797320 fe80::28d0:49ff:fec… fe80::6f70:76c6:354… ICMPv6 78 Neighbor Advertisement fe80::28d0:49ff:fecb:b674 (rtr, sol)
Frame 319: 86 byt
Ethernet II, Src:
Internet Protocol
Internet Control
0000 9e e9 0f 5a f8 47 2a d0 49 cb b6 74 86 dd 60 00
0010 00 00 00 20 3a ff fe 80 00 00 00 00 00 00 28 d0
0020 49 ff fe cb b6 74 24 09 40 f4 00 39 6b 68 25 58
0030 48 e3 8b 41 19 33 87 00 5f 65 00 00 00 00 24 09
0040 40 f4 00 39 6b 68 25 58 48 e3 8b 41 19 33 01 01
0050 2a d0 49 cb b6 74