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Class → MCA - B

Roll no → 2001149

Subject → Computer Networks (TMC-203)

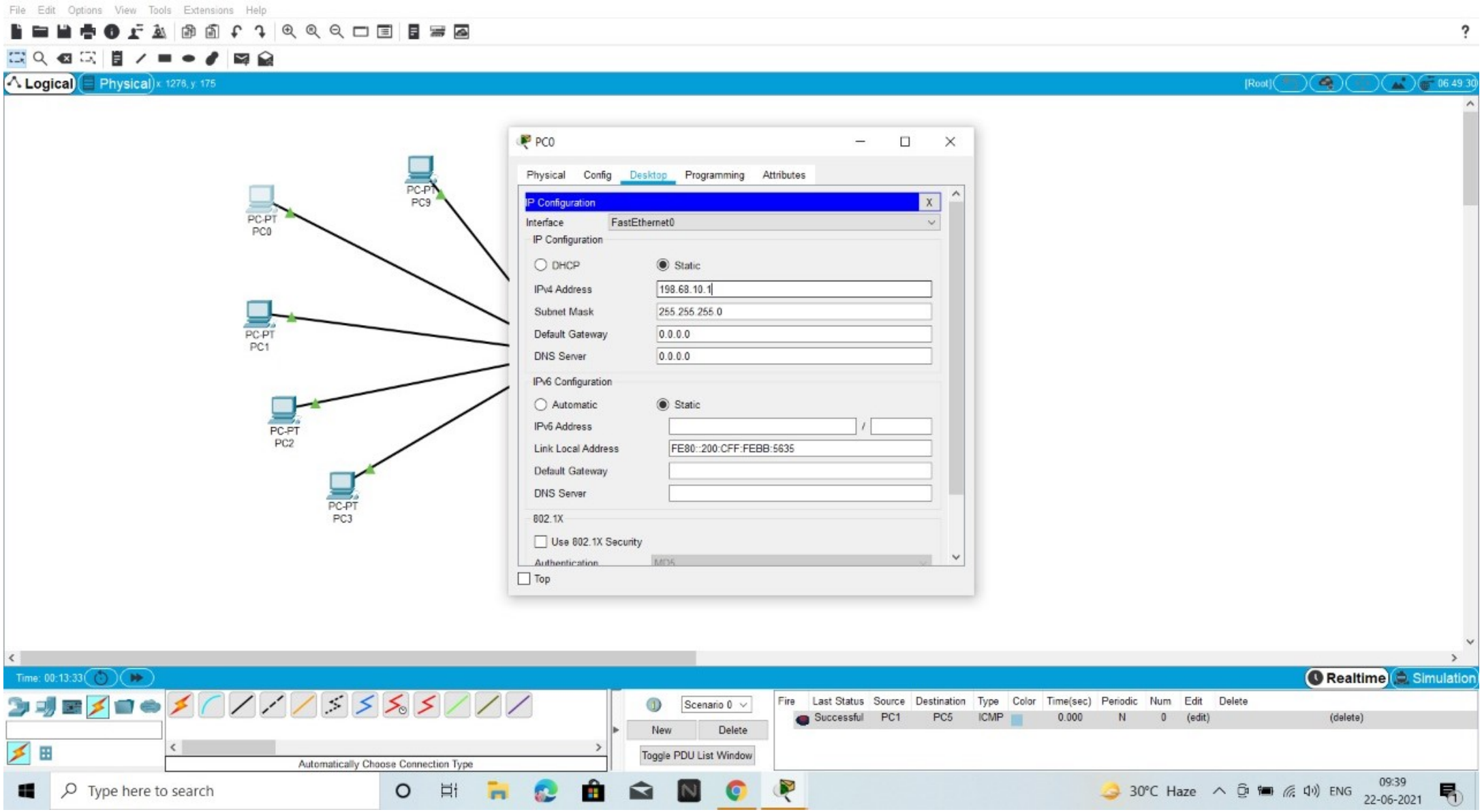
nsl → Problem statement → There is an organization A with multiple departments. Design a network for the HR department and the size of the department is 10 users. Also, show the communication between user number 1 and 5 of the network.

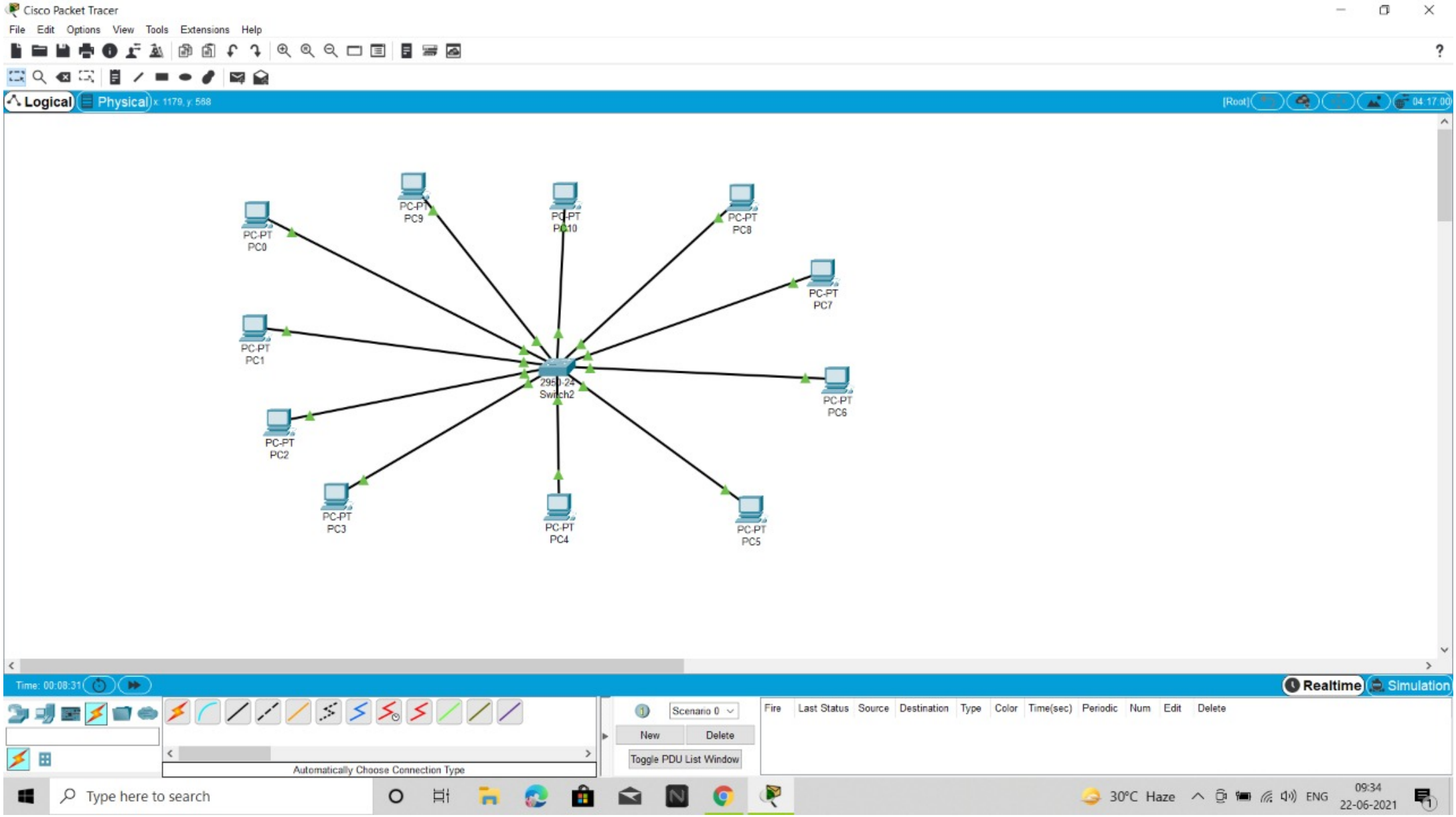
Objective → Design a network of 10 users

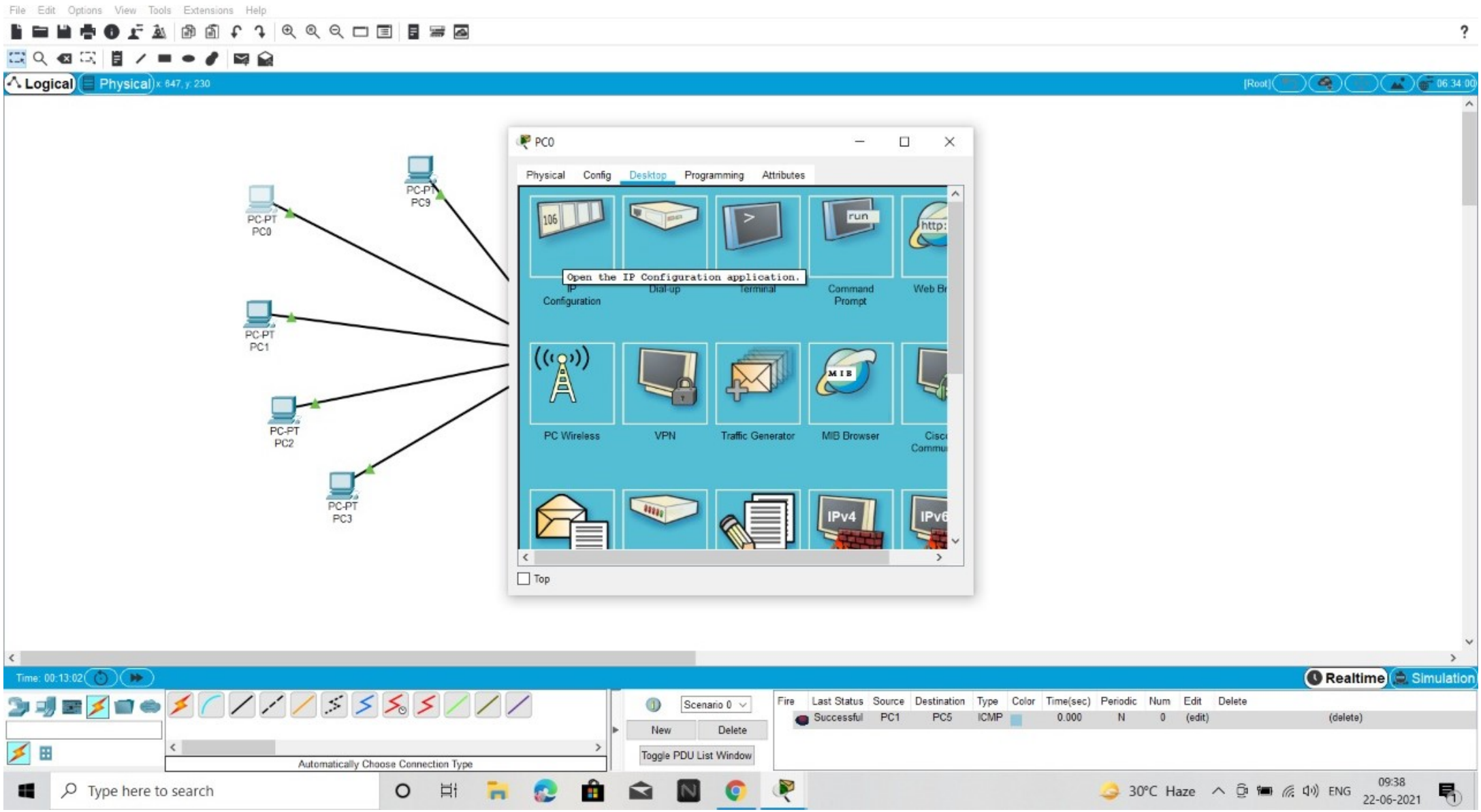
Description → Use packet tracer.

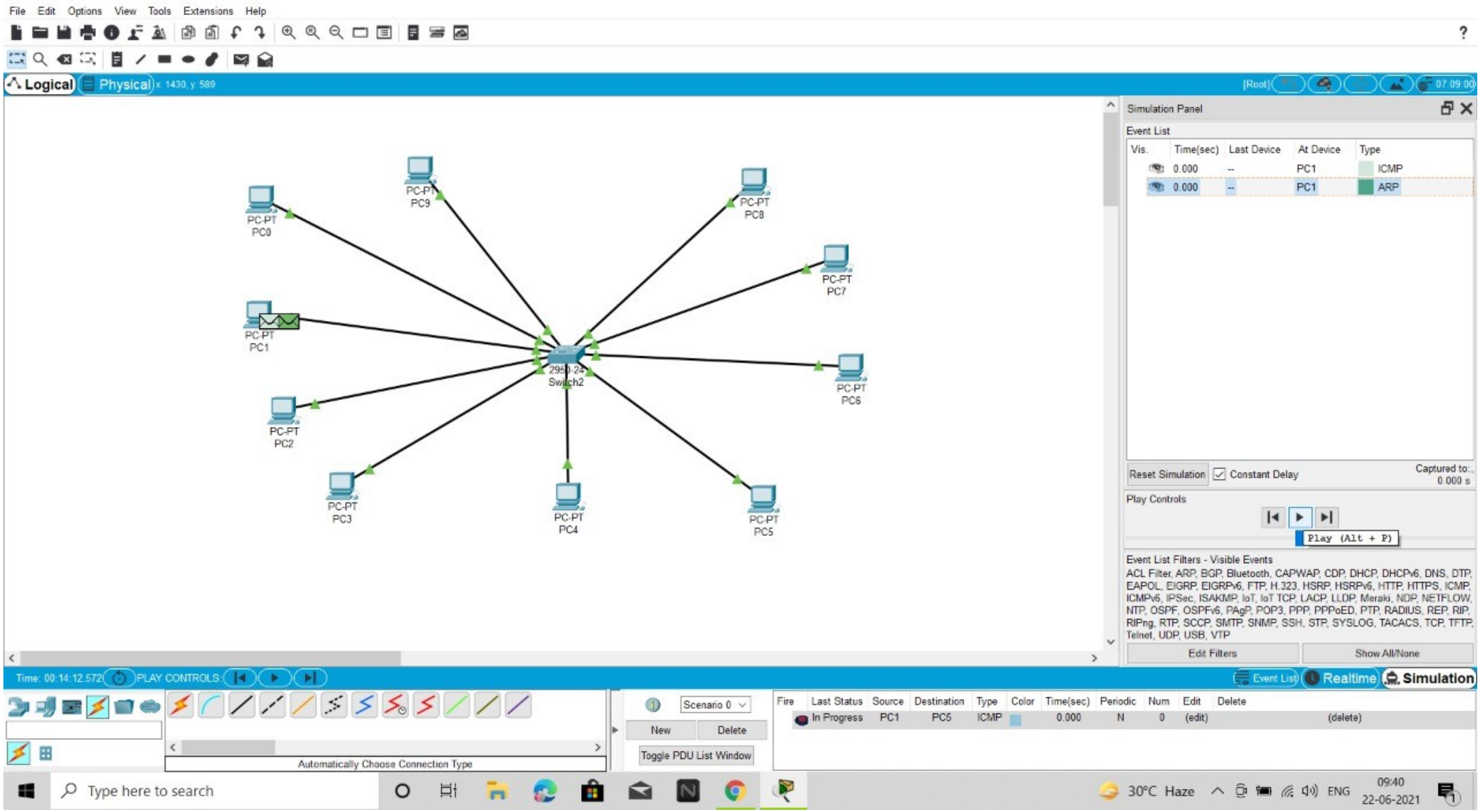
Steps → Shown in the screenshot & below.

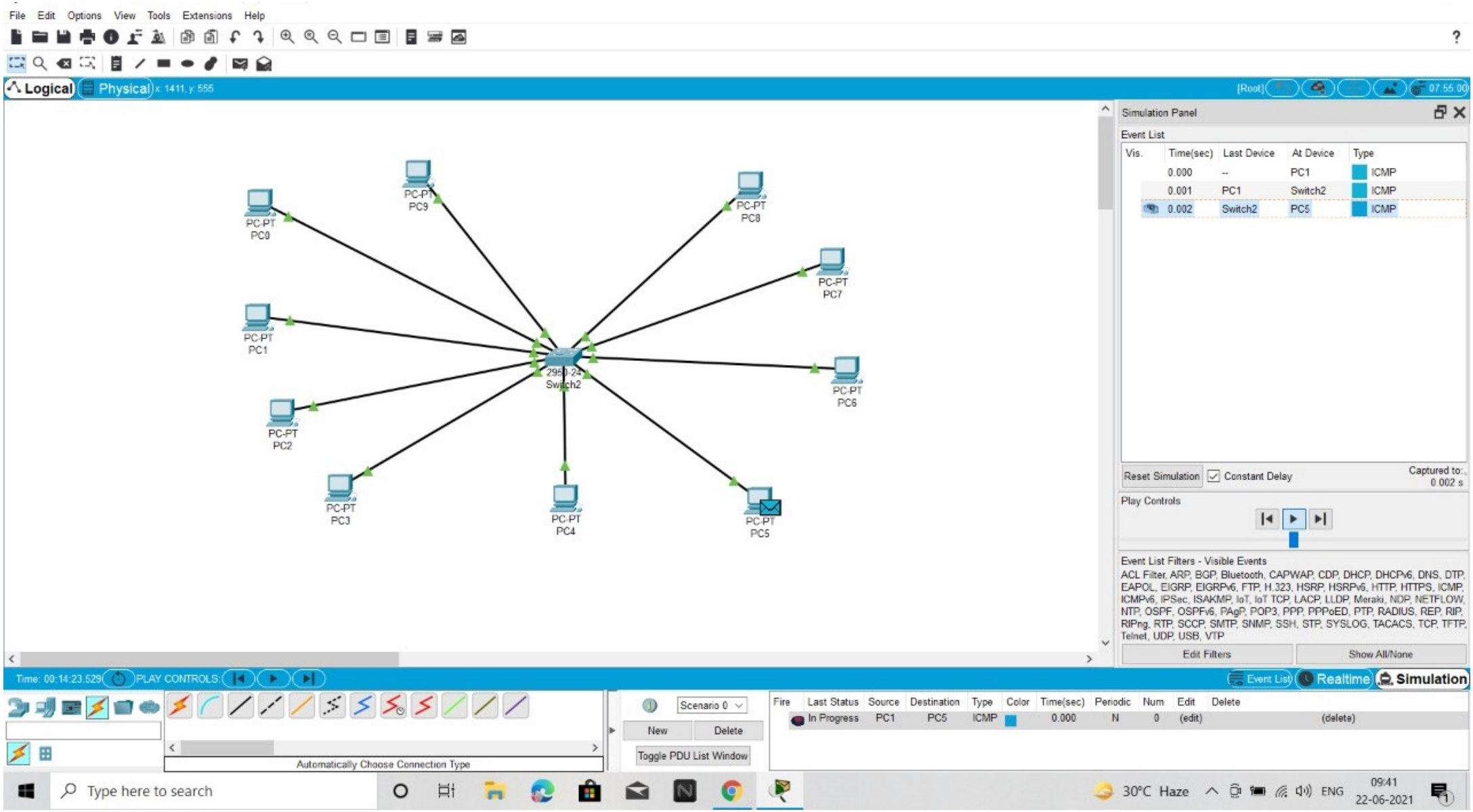
1) Take the 10 pc, one switch and web server.
2) Config the setting of server
3) It assign the IP dynamically to the nodes
4) Using command format use ping command to communicate between number 1 and 5 user.

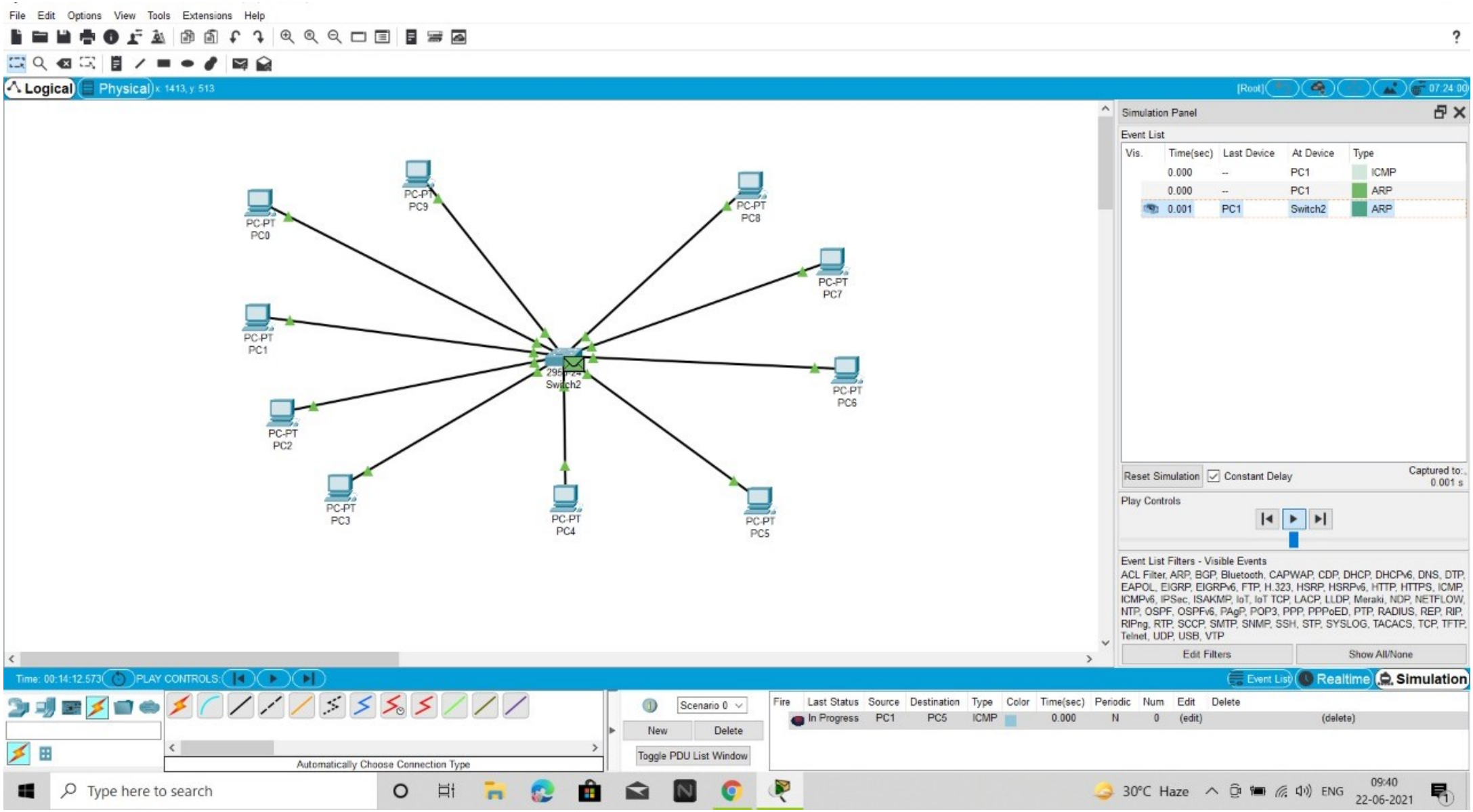

File Edit Options View Tools Extensions Help
Logical
Physical
x: 1276, y: 175
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC9
PC0
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
198.68.10.1
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::200:CFF:FEBB:5635
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Top
Time: 00:13:33
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
Successful
PC1
PC5
ICMP
0.000
N
0
(edit)
(delete)
Automatically Choose Connection Type
Type here to search
30°C Haze
ENG
09:39
22-06-2021

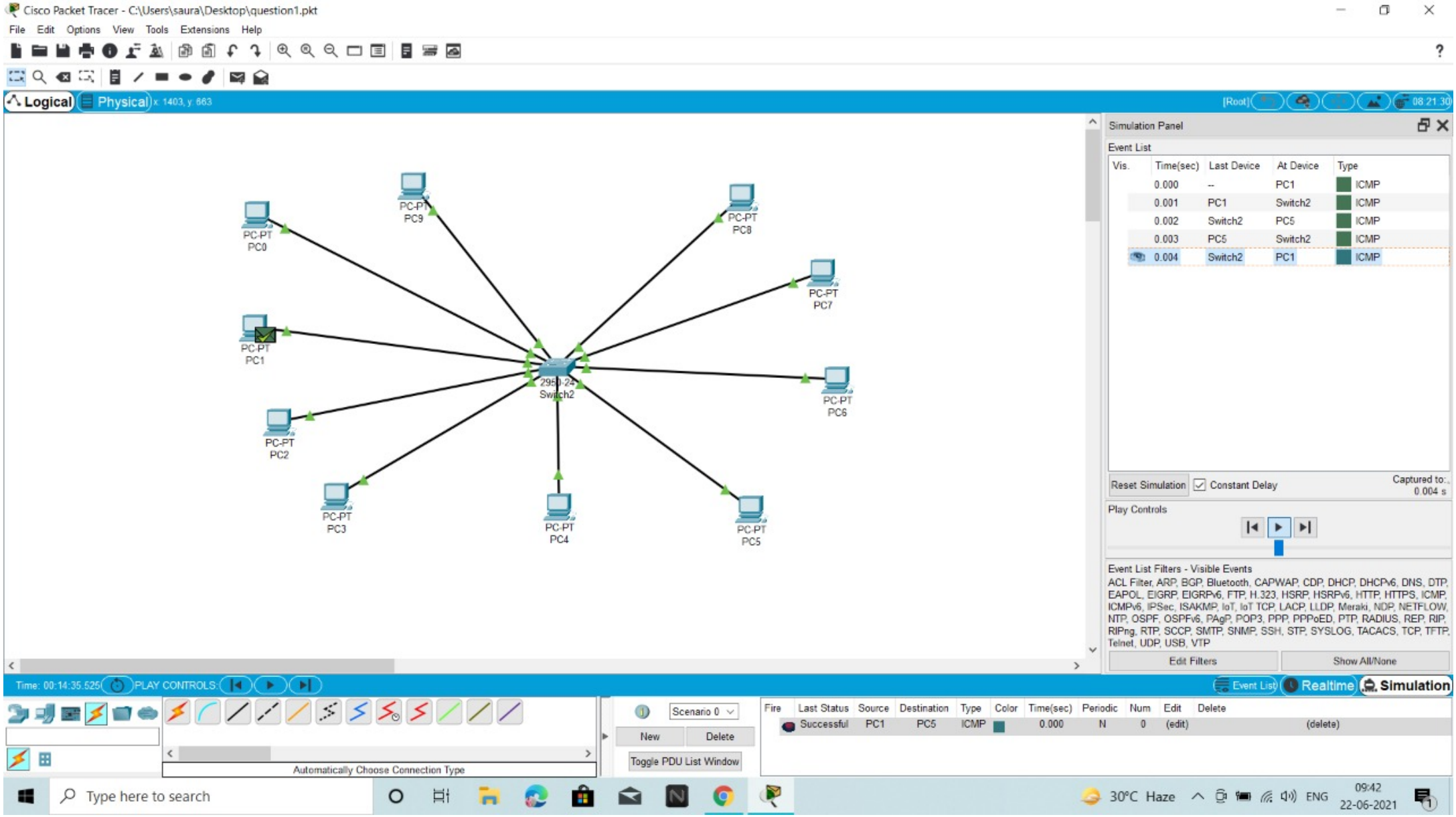

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical Physical x: 1179, y: 588
[Root]
PC-PT PC0
PC-PT PC9
PC-PT PC10
PC-PT PC8
PC-PT PC7
PC-PT PC1
2950-24 Switch2
PC-PT PC6
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Time: 00:08:31
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
Automatically Choose Connection Type
Type here to search
30°C Haze
ENG
09:34
22-06-2021


File Edit Options View Tools Extensions Help
Logical
Physical
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC9
PC0
Physical
Config
Desktop
Programming
Attributes
Open the IP Configuration application.
IP Configuration
Dial-up
Terminal
Command Prompt
PC Wireless
VPN
Traffic Generator
MIB Browser
IPv4
Top
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
Successful
PC1
PC5
ICMP
0.000
N
0
(edit)
(delete)
Automatically Choose Connection Type
Type here to search
30°C Haze
ENG
09:38
22-06-2021


File Edit Options View Tools Extensions Help
Logical
Physical
PC-PT PC0
PC-PT PC9
PC-PT PC8
PC-PT PC7
PC-PT PC1
PC-PT PC6
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Switch2
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.000 -- PC1 ICMP
0.000 -- PC1 ARP
Reset Simulation
Constant Delay
Play Controls
Play (Alt + P)
Event List Filters - Visible Events
Edit Filters
Show All/None
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)
Automatically Choose Connection Type
Type here to search
30°C Haze
ENG
09:40
22-06-2021


File Edit Options View Tools Extensions Help
Logical
Physical
PC-PT PC0
PC-PT PC9
PC-PT PC8
PC-PT PC7
PC-PT PC1
2950-24 Switch2
PC-PT PC6
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.000 -- PC1 ICMP
0.001 PC1 Switch2 ICMP
0.002 Switch2 PC5 ICMP
Reset Simulation
Constant Delay
Captured to: 0.002 s
Play Controls
Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:14:23.529
PLAY CONTROLS:
Event List
Realtime
Simulation
Automatically Choose Connection Type
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)
Type here to search
30°C Haze
ENG
09:41
22-06-2021


File Edit Options View Tools Extensions Help
Logical Physical x: 1413, y: 513
PC-PT PC0
PC-PT PC9
PC-PT PC8
PC-PT PC7
PC-PT PC1
PC-PT PC6
Switch2
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.000 -- PC1 ICMP
0.000 -- PC1 ARP
0.001 PC1 Switch2 ARP
Reset Simulation
Constant Delay
Captured to: 0.001 s
Play Controls
Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:14:12.573
PLAY CONTROLS:
Event List
Realtime
Simulation
Automatically Choose Connection Type
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)
Type here to search
30°C Haze
ENG
09:40
22-06-2021


Cisco Packet Tracer - C:\Users\saura\Desktop\question1.pkt
File Edit Options View Tools Extensions Help
Logical Physical x: 1403, y: 663
PC-PT PC0
PC-PT PC9
PC-PT PC8
PC-PT PC7
PC-PT PC1
2950-24 Switch2
PC-PT PC6
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.000 -- PC1 ICMP
0.001 PC1 Switch2 ICMP
0.002 Switch2 PC5 ICMP
0.003 PC5 Switch2 ICMP
0.004 Switch2 PC1 ICMP
Reset Simulation
Constant Delay
Captured to: 0.004 s
Play Controls
Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:14:35.525 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 PC1 PC5 ICMP 0.000 N 0 (edit) (delete)
Automatically Choose Connection Type
Type here to search
30°C Haze
ENG
09:42
22-06-2021