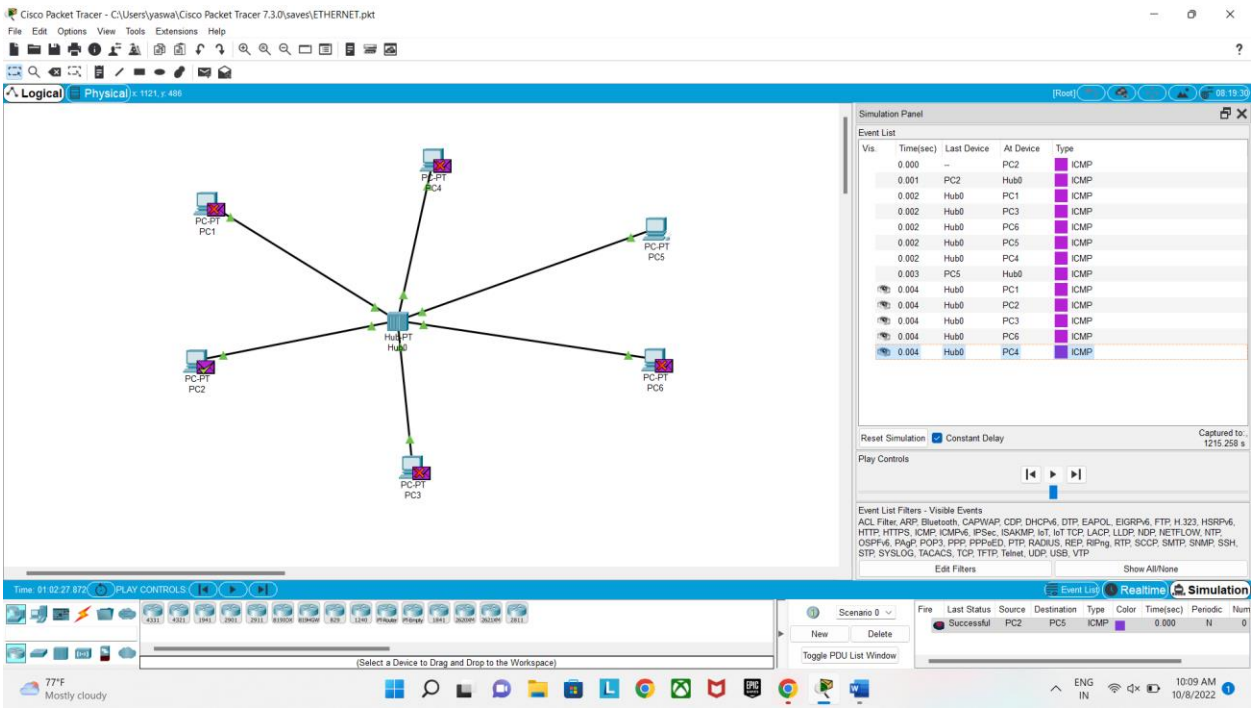
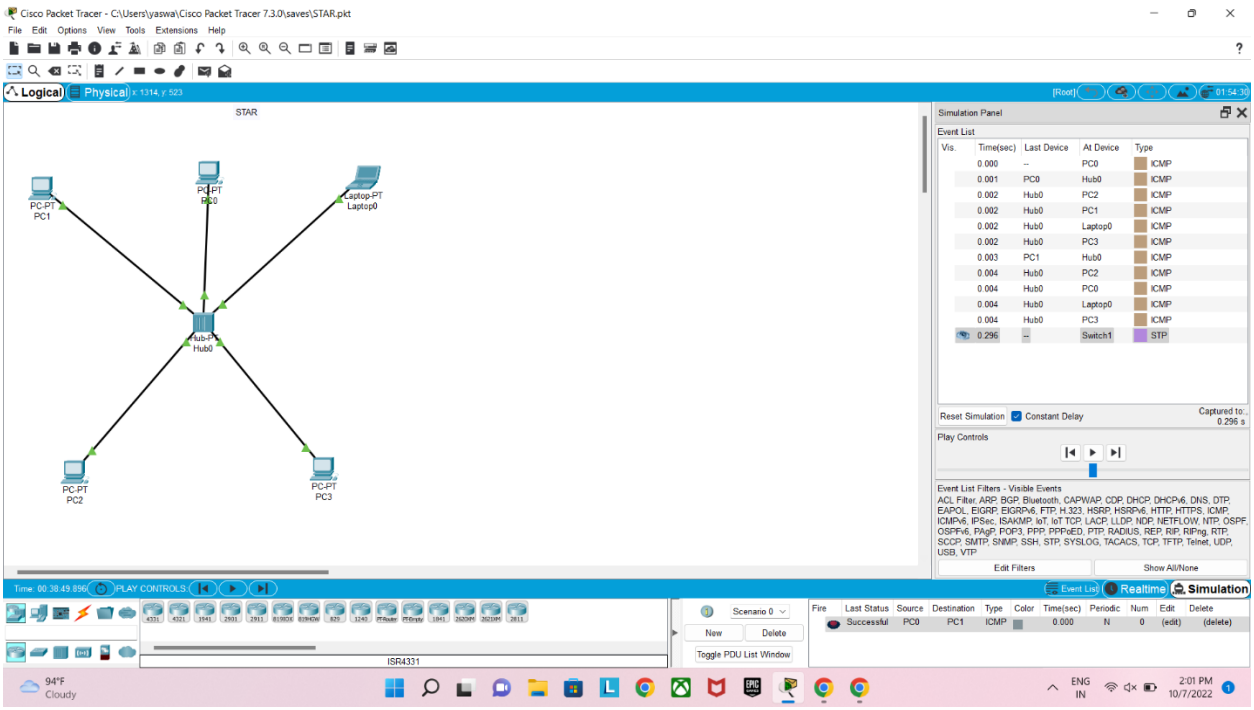
COMPUTER NETWORKS - CSA07

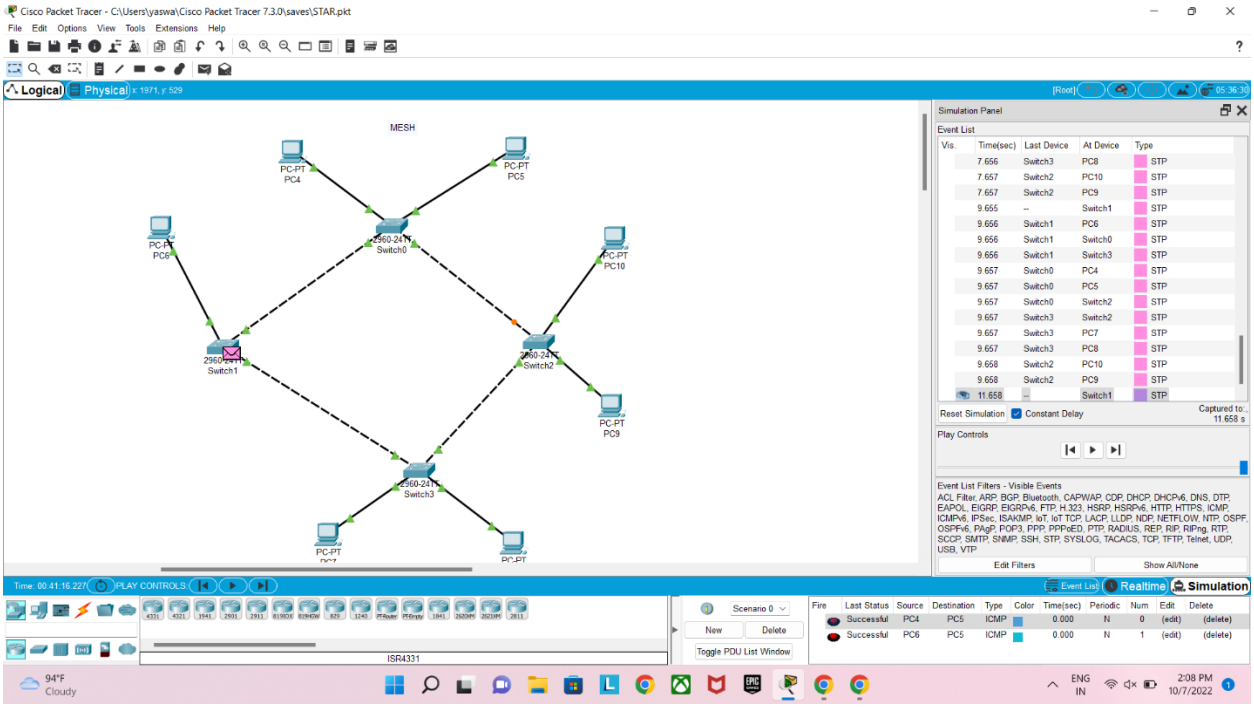
List of Experiments

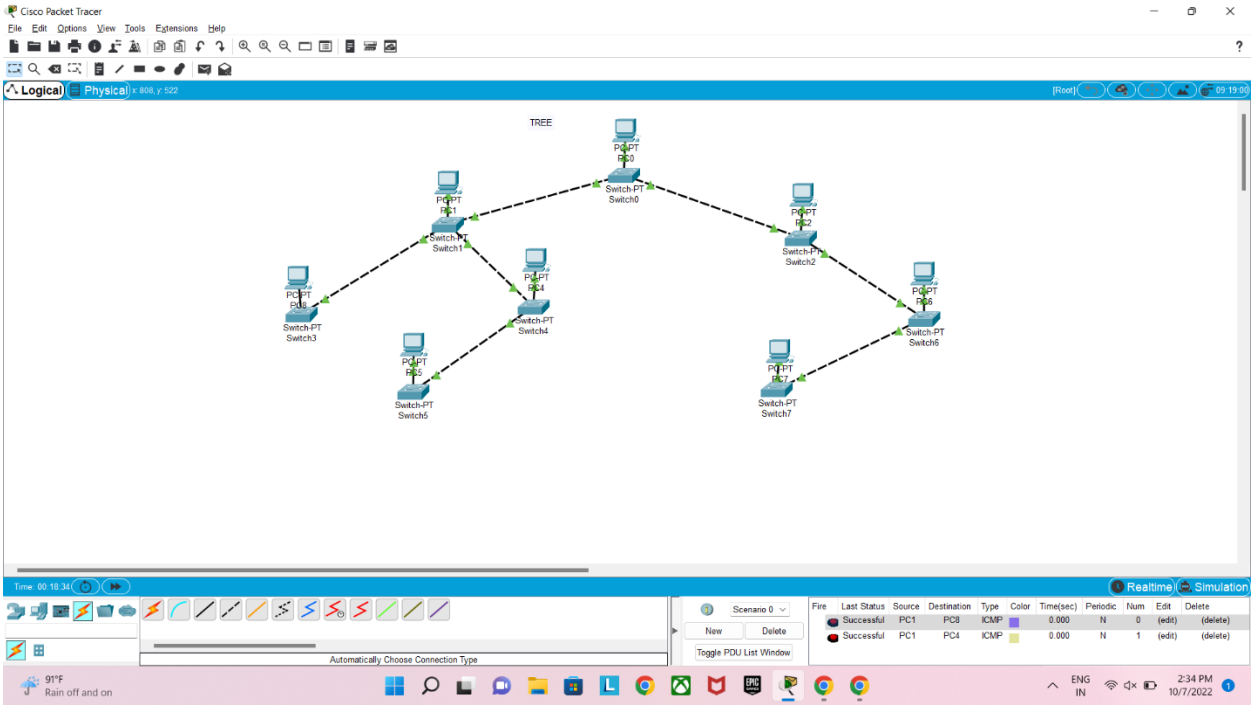
1. Configuration of Network Devices using Packet Tracer (Hub, Switch, Ethernet, Broadcast)



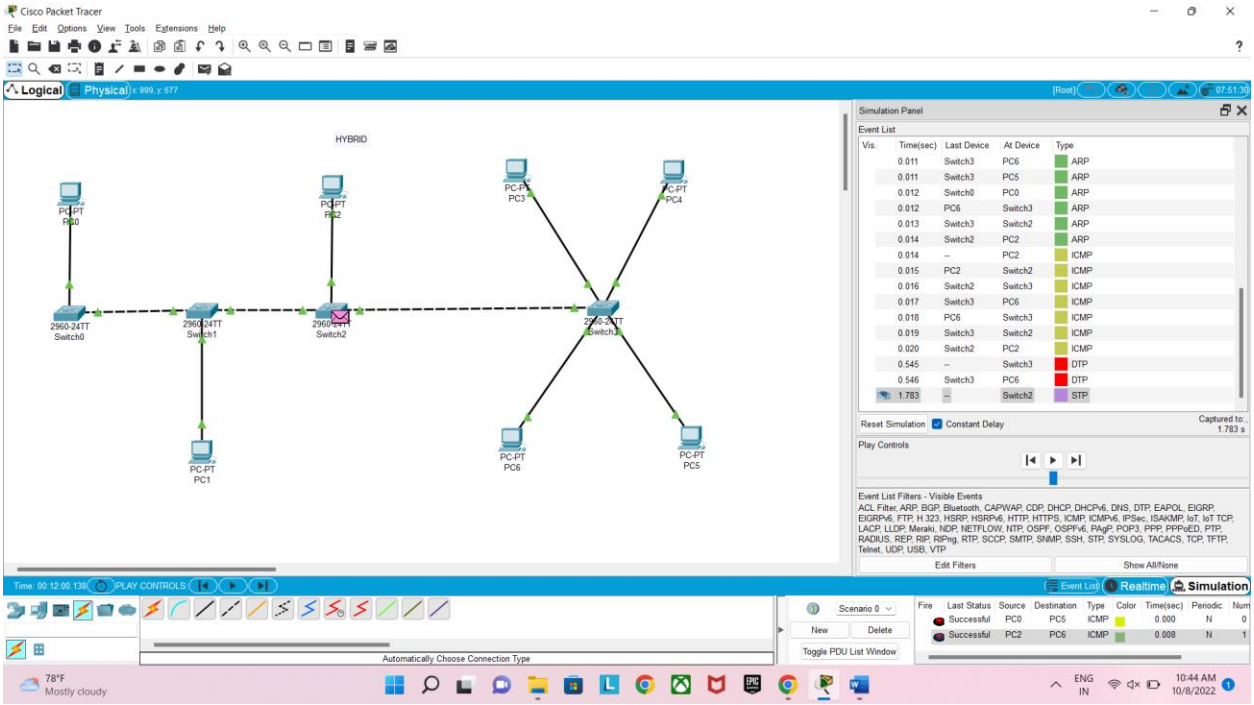
2. Configuration of Topologies using Packet Tracer (Star, Mesh, Tree,) Configuration of Topologies using Packet Tracer (Star, Mesh, Tree,)

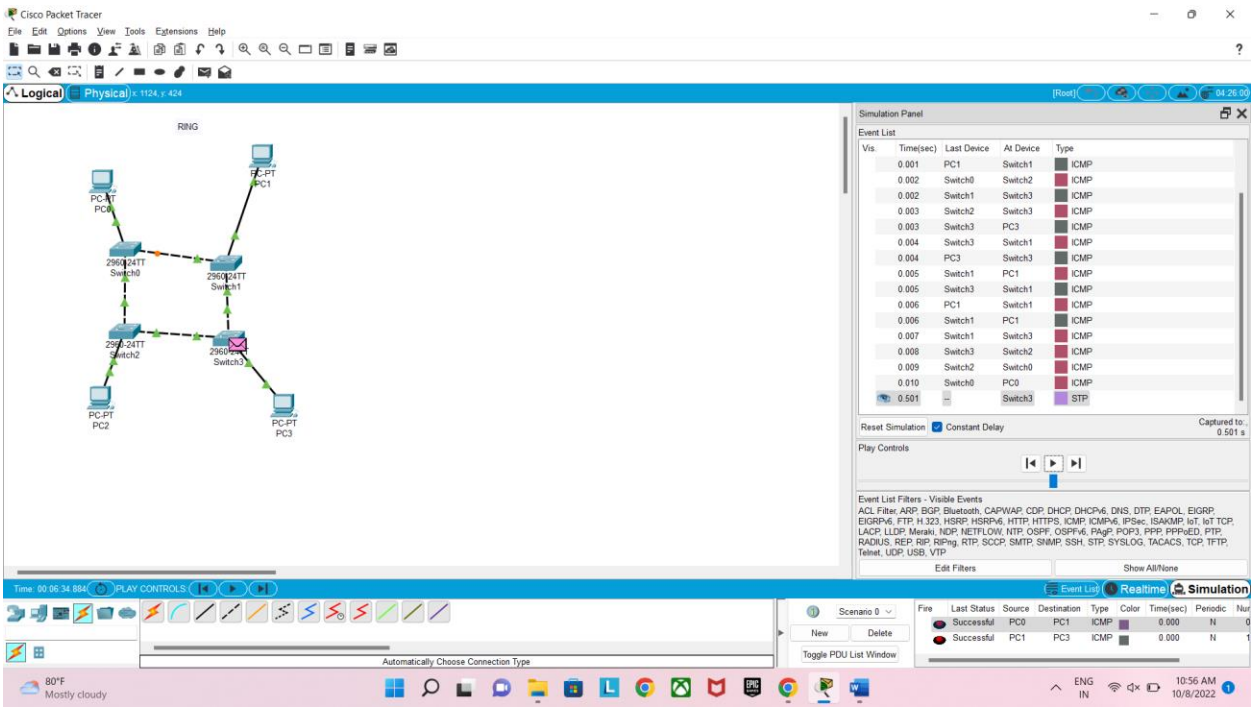


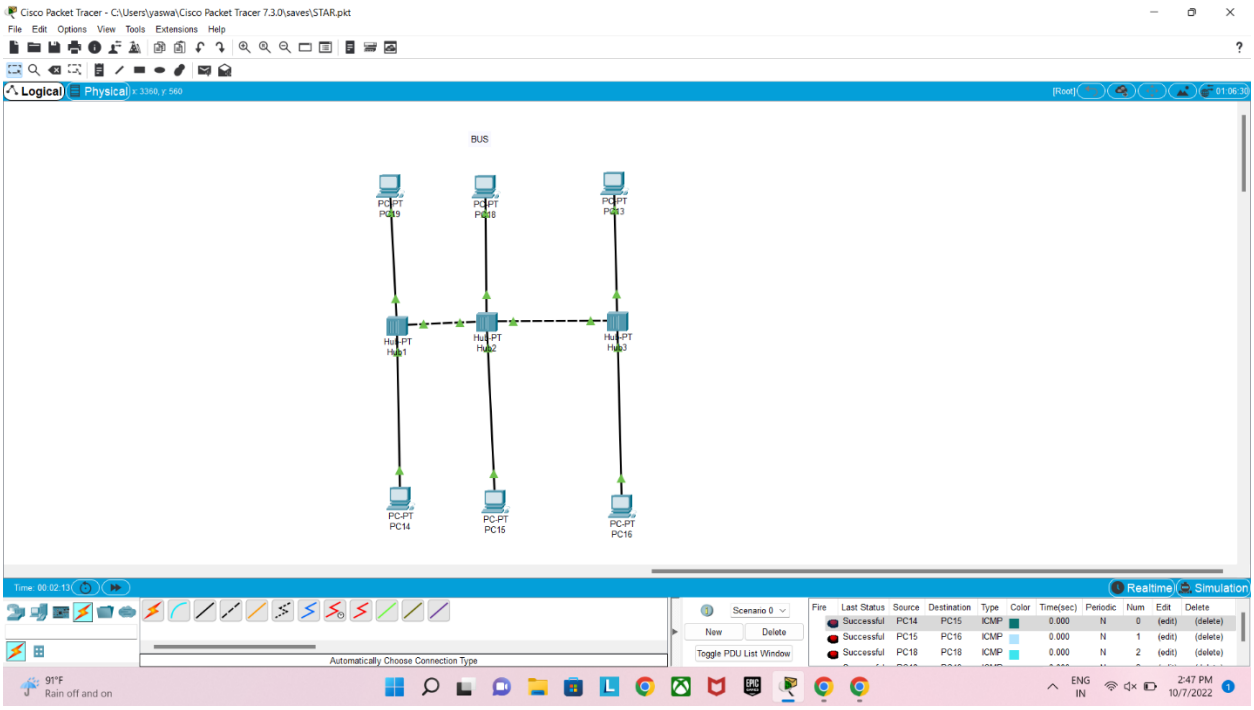

Cisco Packet Tracer - C:\Users\yaswa\Cisco Packet Tracer 7.3.0\saves\STAR.pkt
File Edit Options View Tools Extensions Help
Logical Physical
MESH
PC-PT PC4
PC-PT PC5
2960-24TT Switch0
PC-PT PC6
PC-PT PC10
2960-24TT Switch1
2960-24TT Switch2
PC-PT PC9
2960-24TT Switch3
PC-PT
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
7.656 Switch3 PC8 STP
7.657 Switch2 PC10 STP
7.657 Switch2 PC9 STP
9.655 -- Switch1 STP
9.656 Switch1 PC6 STP
9.656 Switch1 Switch0 STP
9.656 Switch1 Switch3 STP
9.657 Switch0 PC4 STP
9.657 Switch0 PC5 STP
9.657 Switch0 Switch2 STP
9.657 Switch3 Switch2 STP
9.657 Switch3 PC7 STP
9.657 Switch3 PC8 STP
9.658 Switch2 PC10 STP
9.658 Switch2 PC9 STP
11.658 -- Switch1 STP
Reset Simulation
Constant Delay
Captured to: 11.658 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, 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: 00:41:16.227
PLAY CONTROLS
Event List
Realtime
Simulation
ISR4331
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC4 PC5 ICMP 0.000 N 0 (edit) (delete)
Successful PC6 PC5 ICMP 0.000 N 1 (edit) (delete)
94°F Cloudy
ENG IN
2:08 PM 10/7/2022


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical Physical
TREE
PC-PT PC0
Switch-PT Switch0
PC-PT PC1
Switch-PT Switch1
PC-PT PC2
Switch-PT Switch2
PC-PT PC3
Switch-PT Switch3
PC-PT PC4
Switch-PT Switch4
PC-PT PC5
Switch-PT Switch5
PC-PT PC6
Switch-PT Switch6
PC-PT PC7
Switch-PT Switch7
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
Successful PC1 PC3 ICMP 0.000 N 0 (edit) (delete)
Successful PC1 PC4 ICMP 0.000 N 1 (edit) (delete)
91°F Rain off and on
ENG IN
2:34 PM 10/7/2022

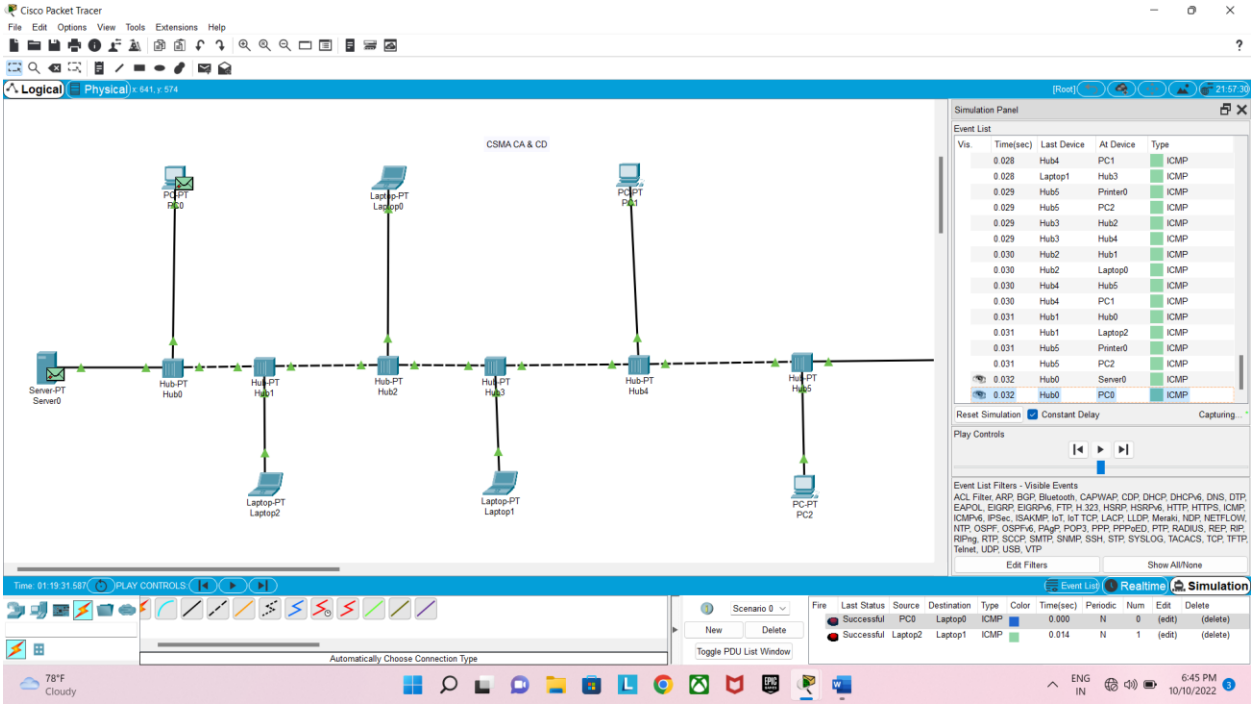
3. Configuration of Topologies using Packet Tracer (Bus, Ring, Hybrid)


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical Physical
HYBRID
PC-PT PC0
PC-PT PC2
PC-PT PC3
PC-PT PC4
2960-24TT Switch0
2960-24TT Switch1
2960-24TT Switch2
2960-24TT Switch3
PC-PT PC1
PC-PT PC6
PC-PT PC5
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.011 Switch3 PC6 ARP
0.011 Switch3 PC5 ARP
0.012 Switch0 PC0 ARP
0.012 PC6 Switch3 ARP
0.013 Switch3 Switch2 ARP
0.014 Switch2 PC2 ARP
0.014 -- PC2 ICMP
0.015 PC2 Switch2 ICMP
0.016 Switch2 Switch3 ICMP
0.017 Switch3 PC6 ICMP
0.018 PC6 Switch3 ICMP
0.019 Switch3 Switch2 ICMP
0.020 Switch2 PC2 ICMP
0.545 -- Switch3 DTP
0.546 Switch3 PC6 DTP
1.783 -- Switch2 STP
Reset Simulation
Constant Delay
Captured to: 1.783 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: 00:12:00.138
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
Successful PC0 PC5 ICMP 0.000 N 0
Successful PC2 PC6 ICMP 0.008 N 1
78°F Mostly cloudy
ENG IN
10:44 AM 10/8/2022

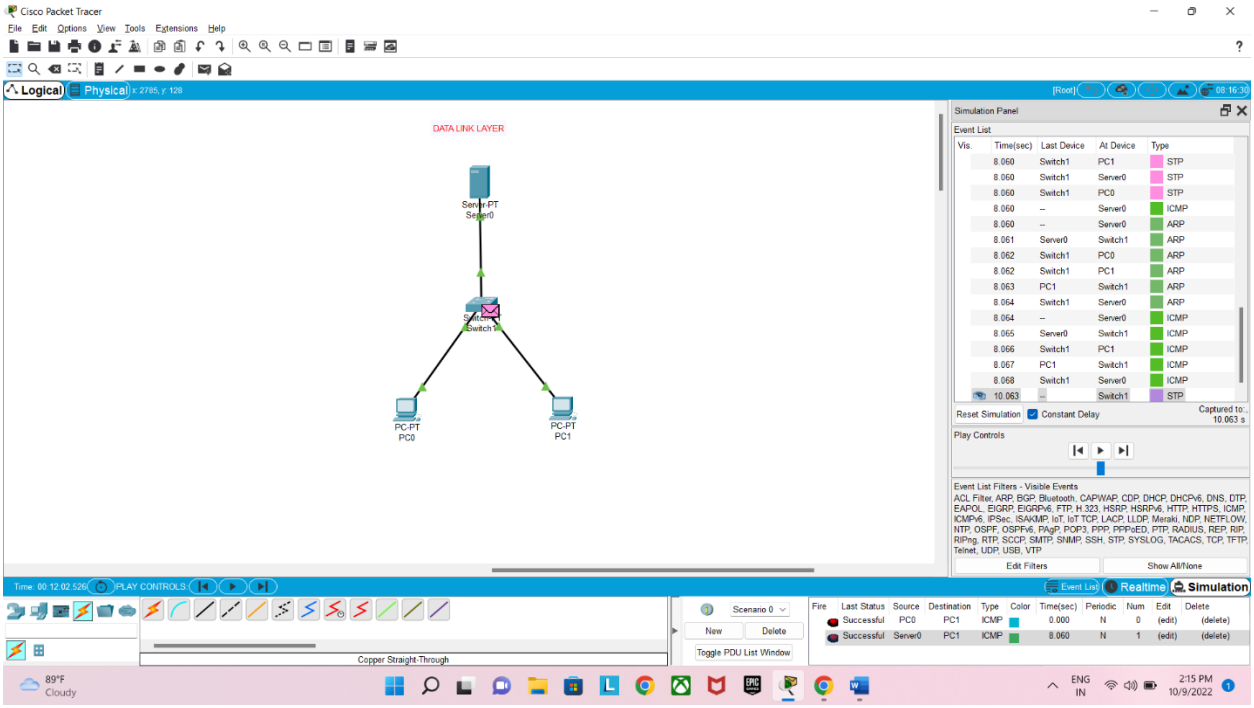

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical Physical
RING
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
2960-24TT Switch0
2960-24TT Switch1
2960-24TT Switch2
2960-24TT Switch3
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
0.001 PC1 Switch1 ICMP
0.002 Switch0 Switch2 ICMP
0.002 Switch1 Switch3 ICMP
0.003 Switch2 Switch3 ICMP
0.003 Switch3 PC3 ICMP
0.004 Switch3 Switch1 ICMP
0.004 PC3 Switch3 ICMP
0.005 Switch1 PC1 ICMP
0.005 Switch3 Switch1 ICMP
0.006 PC1 Switch1 ICMP
0.006 Switch1 PC1 ICMP
0.007 Switch1 Switch3 ICMP
0.008 Switch3 Switch2 ICMP
0.009 Switch2 Switch0 ICMP
0.010 Switch0 PC0 ICMP
0.501 -- Switch3 STP
Reset Simulation
Constant Delay
Captured to: 0.501 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
Realtime
Simulation
Automatically Choose Connection Type
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic
Successful PC0 PC1 ICMP 0.000 N
Successful PC1 PC3 ICMP 0.000 N
80°F Mostly cloudy
ENG IN
10:56 AM 10/8/2022


Cisco Packet Tracer - C:\Users\yaswa\Cisco Packet Tracer 7.3.0\saves\STAR.pkt
File Edit Options View Tools Extensions Help
Logical Physical
BUS
PC-PT PC13
Hub-PT Hub1
Hub-PT Hub2
Hub-PT Hub3
PC-PT PC14
PC-PT PC15
PC-PT PC16
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
Successful PC14 PC15 ICMP 0.000 N 0 (edit) (delete)
Successful PC15 PC16 ICMP 0.000 N 1 (edit) (delete)
Successful PC18 PC18 ICMP 0.000 N 2 (edit) (delete)
91°F Rain off and on
ENG IN
2:47 PM 10/7/2022

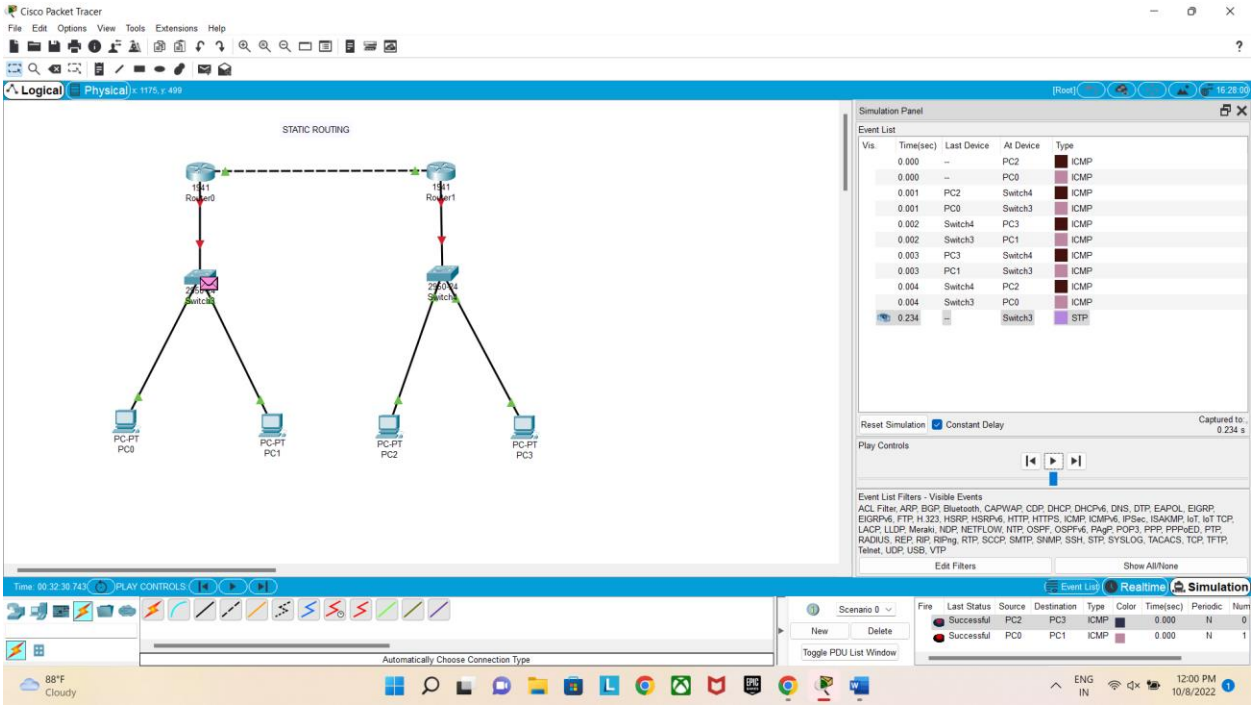
4. Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD& CSMA/CA



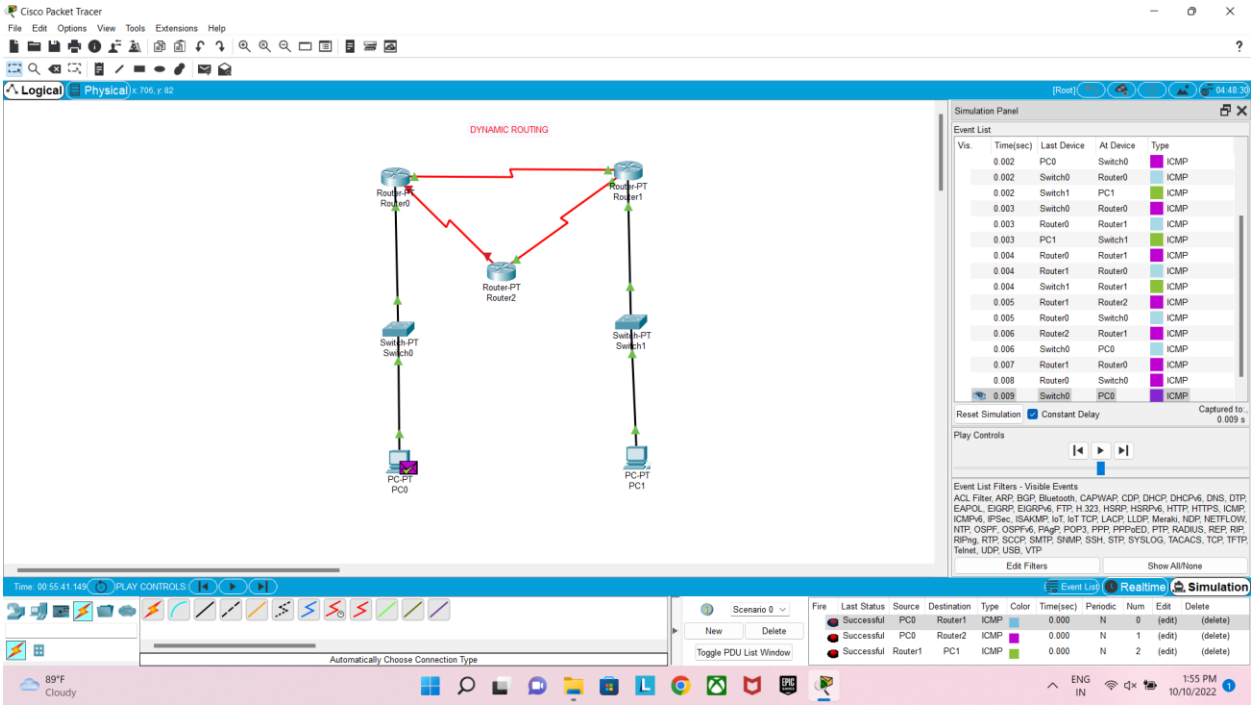
5. Data Link Layer Traffic Simulation using Packet Tracer Analysis of ARP



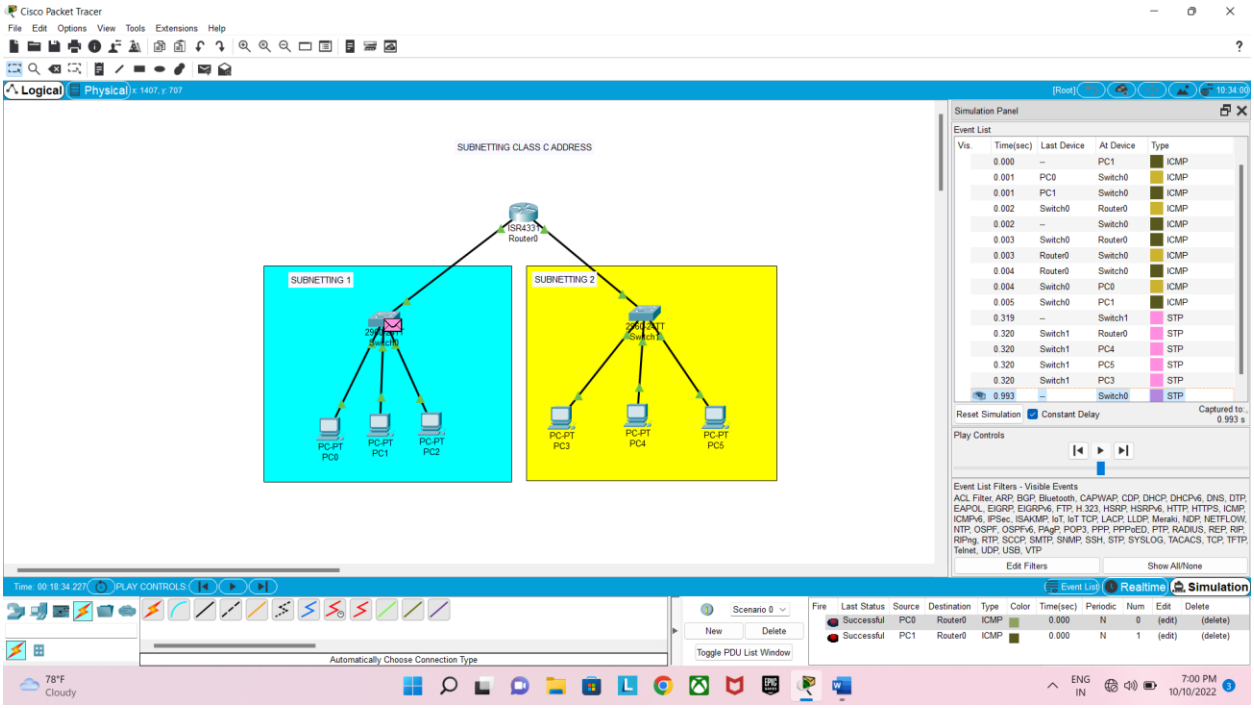
6. Static Routing using Packet Tracer



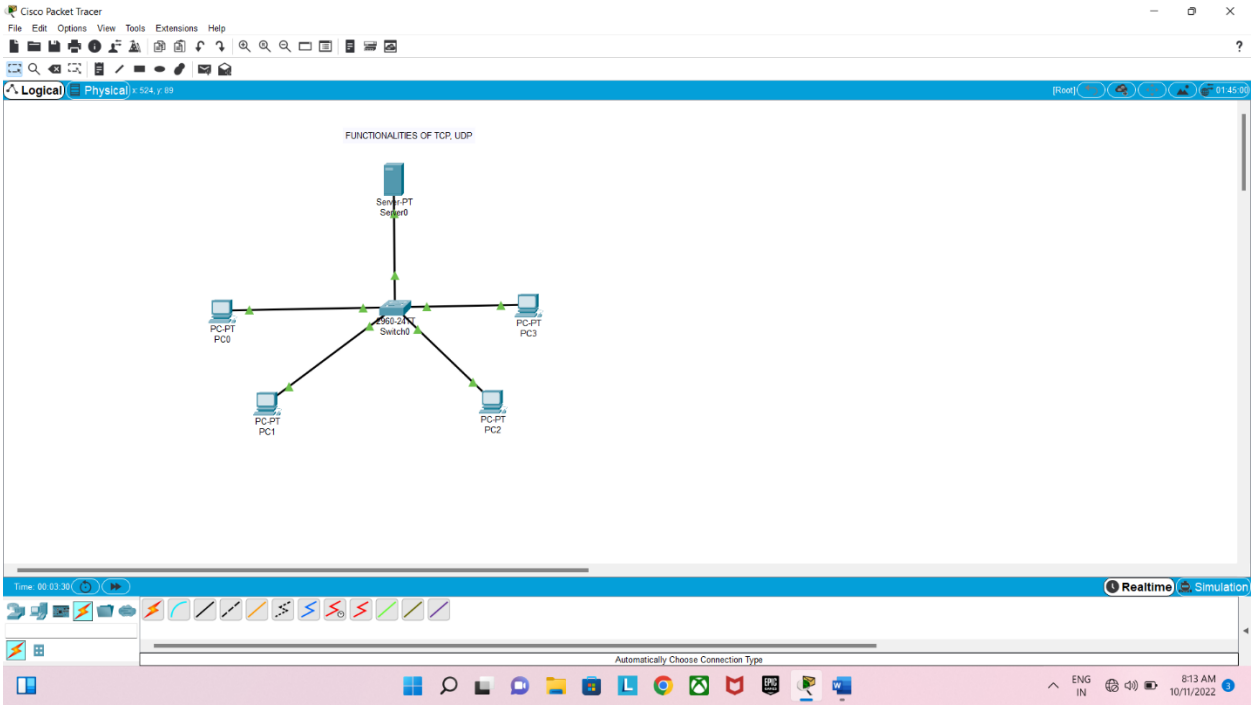
7. Dynamic Routing using Packet Tracer (OSPF)



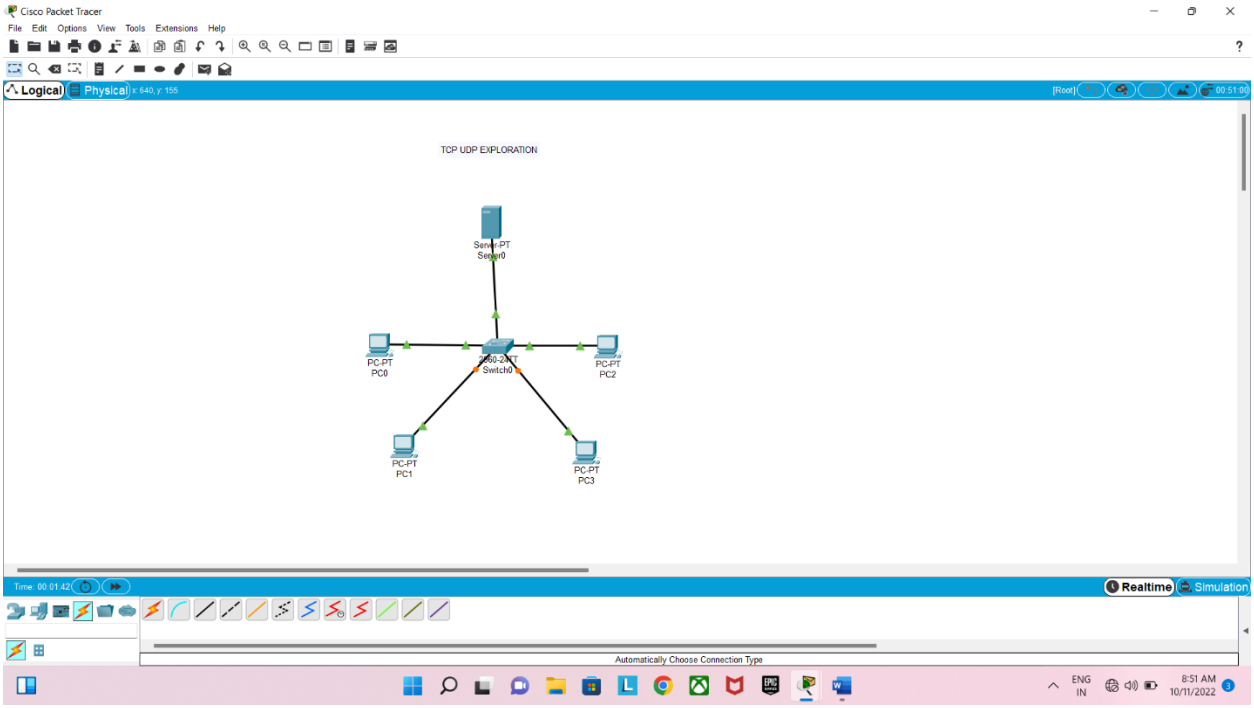
8. Subnetting – Class C Addressing



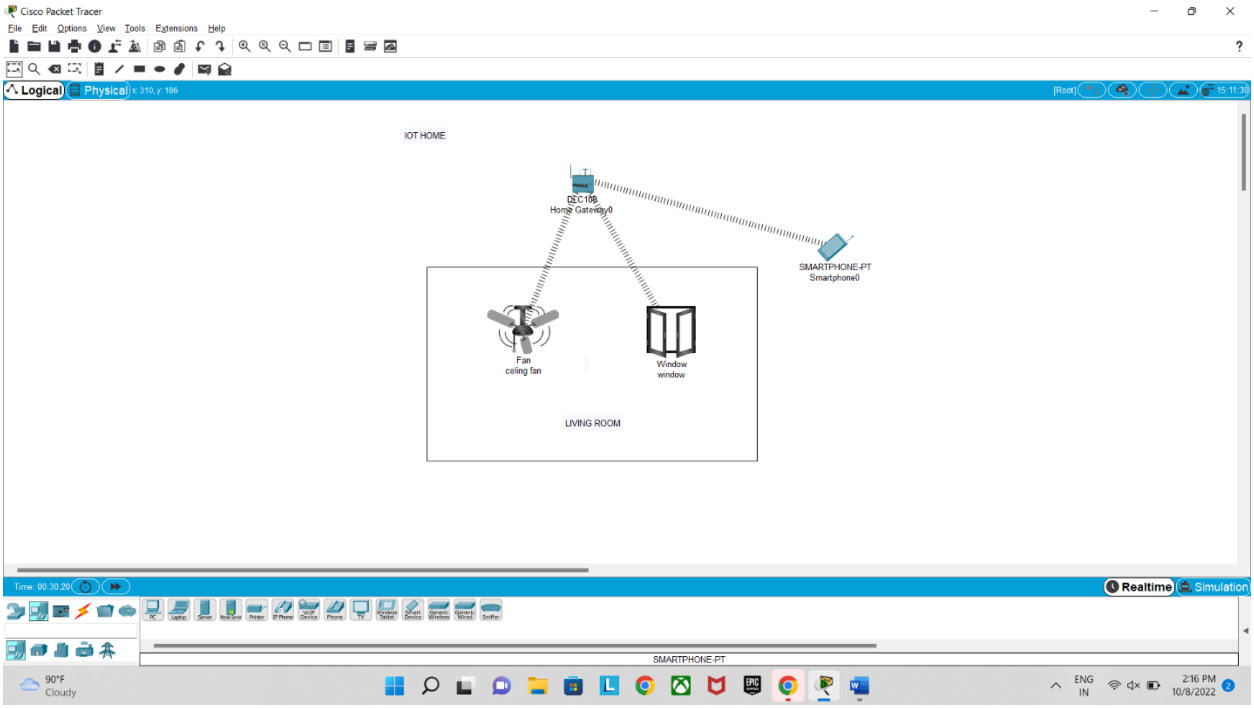
9. Functionalities of TCP, UDP



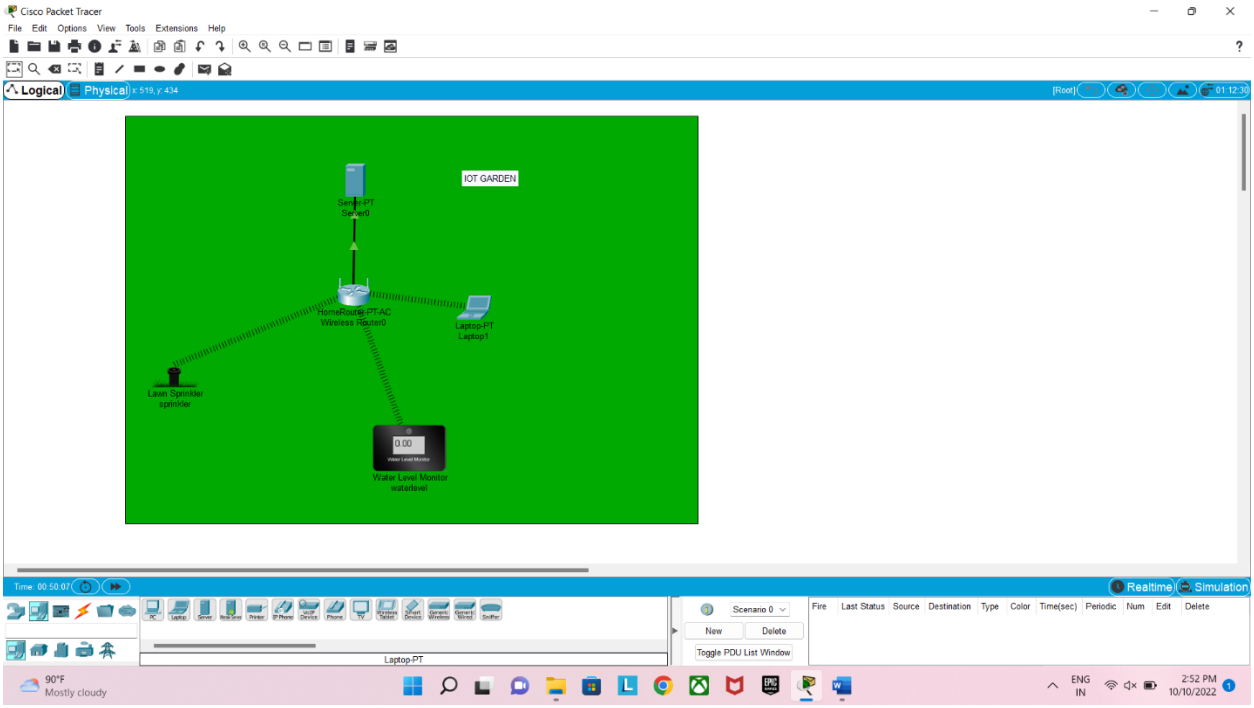
10. TCP, UDP Exploration Solution



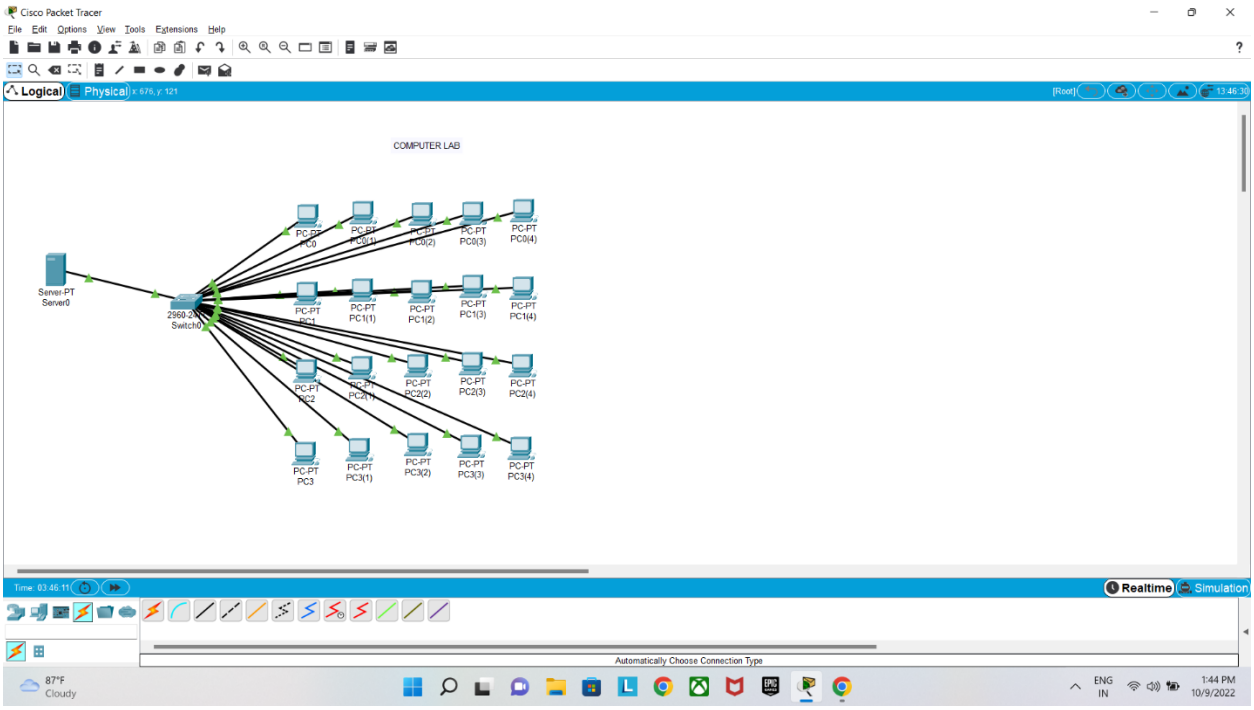
11. IOT Based Smart Home Using Cisco Packet Tracer



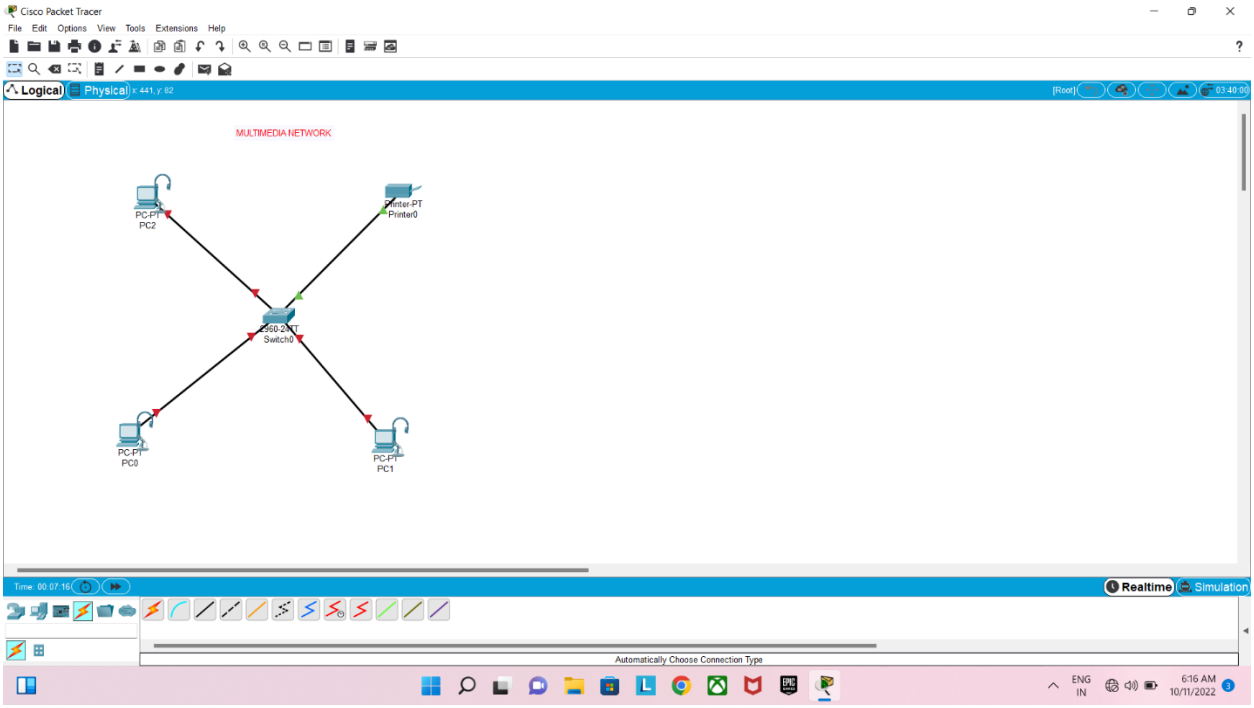
12. Smart Garden in Cisco Packet Tracer



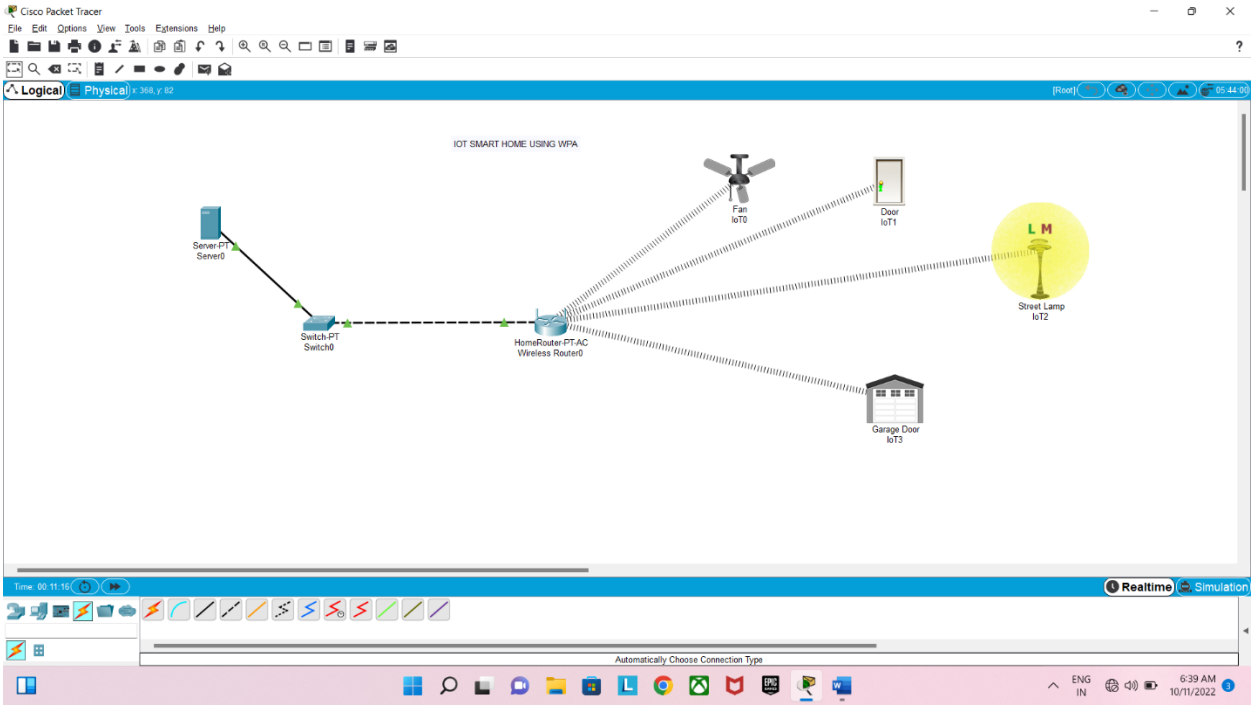
13. Make Computer Lab in Cisco Packet Tracer



14. Simulate a Multimedia Network

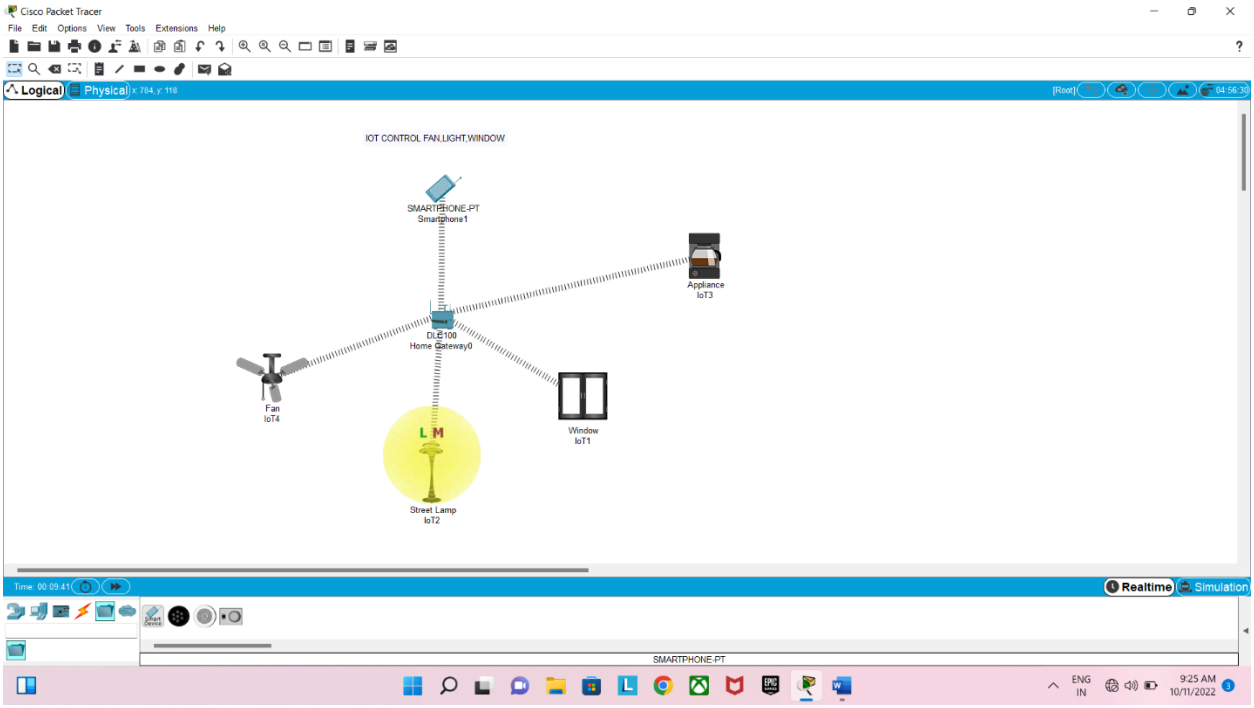


15. IOT Based Smart Home using WPA Security & Radius Server

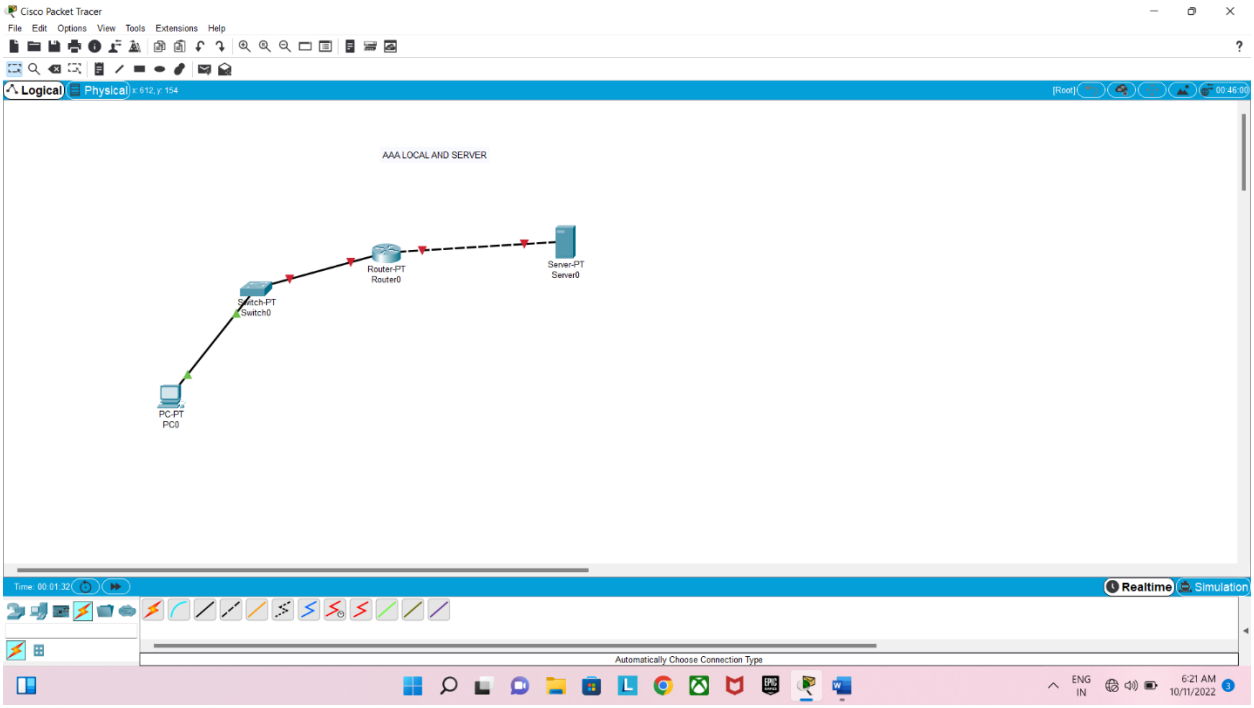


16. WLAN Using Cisco Packet Tracer

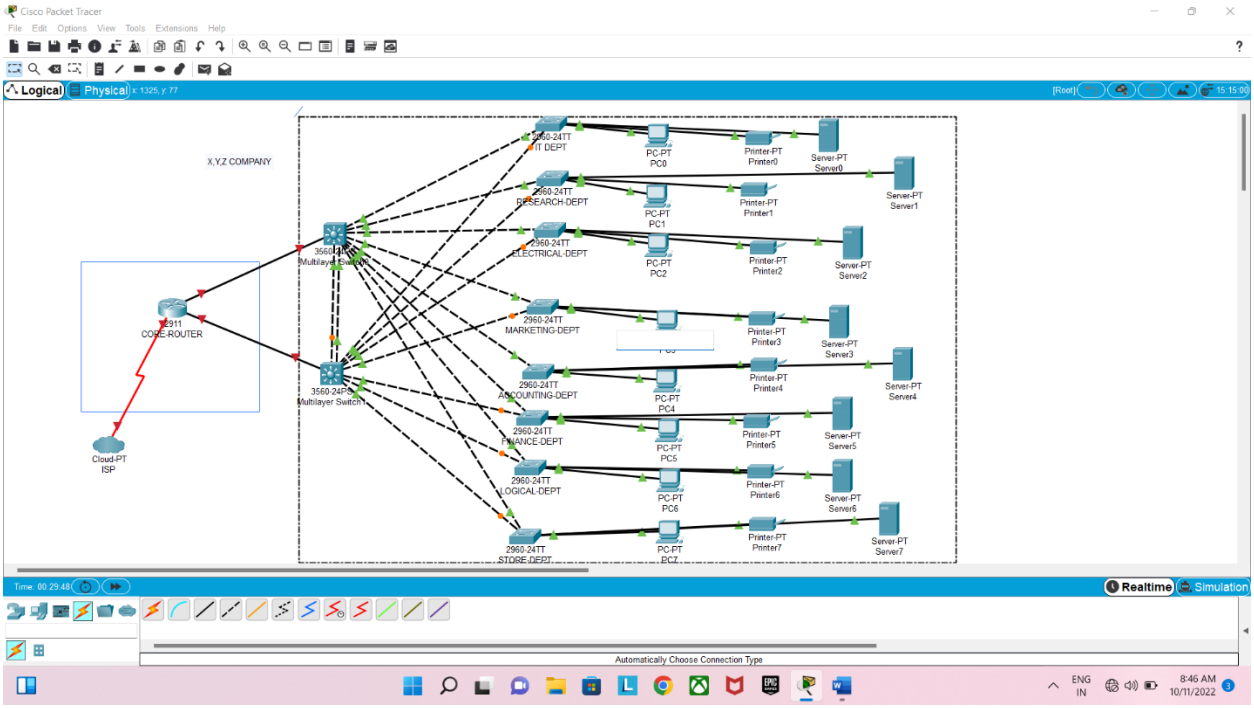
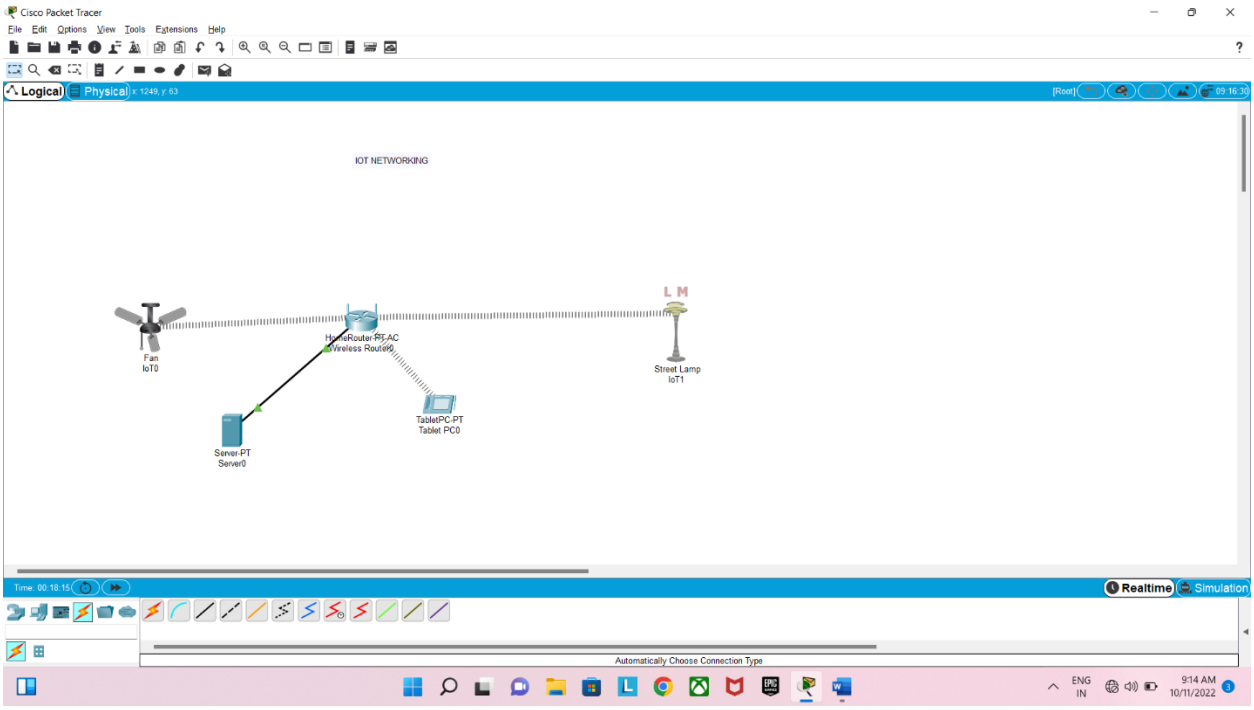
17. Control of Fan, Light, Window & Application of Using Cisco Packet Tracer



18. AAA Local & Server Based Authentication Configuration in Cisco Packet Tracer



19. Simulating X,Y,Z Company Network Design



20. IOT Devices in Networking Using Cisco Packet Tracer