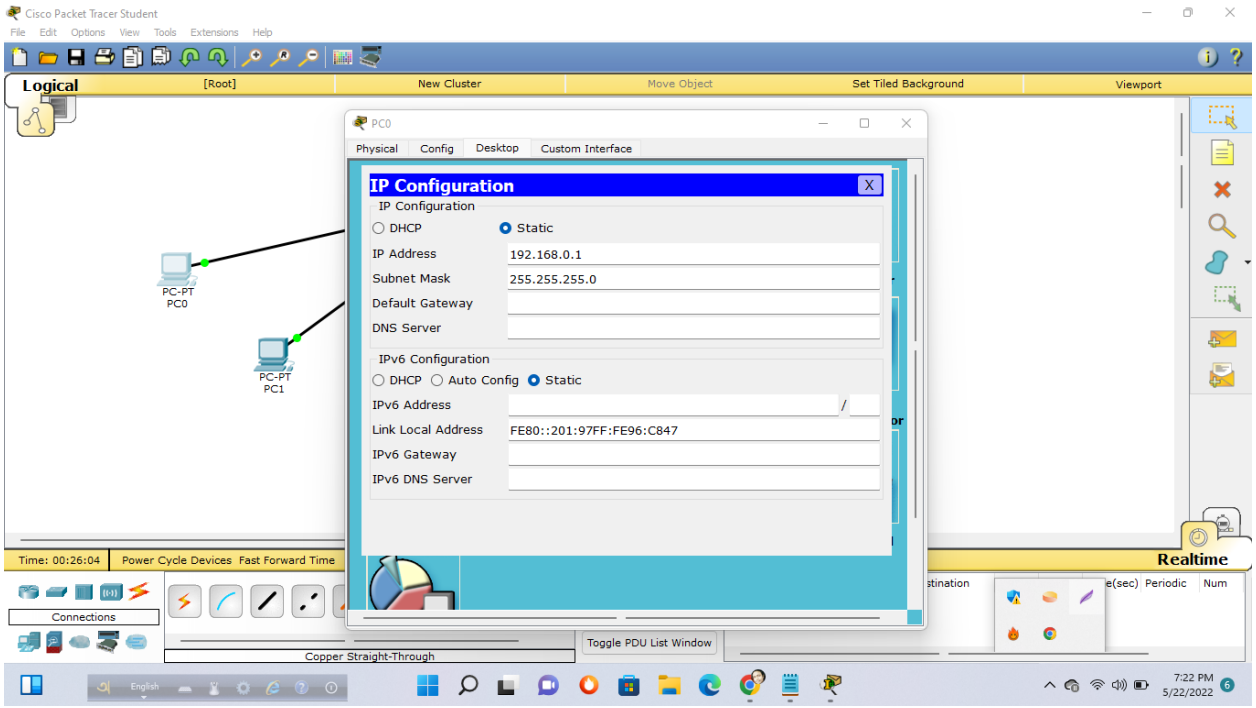
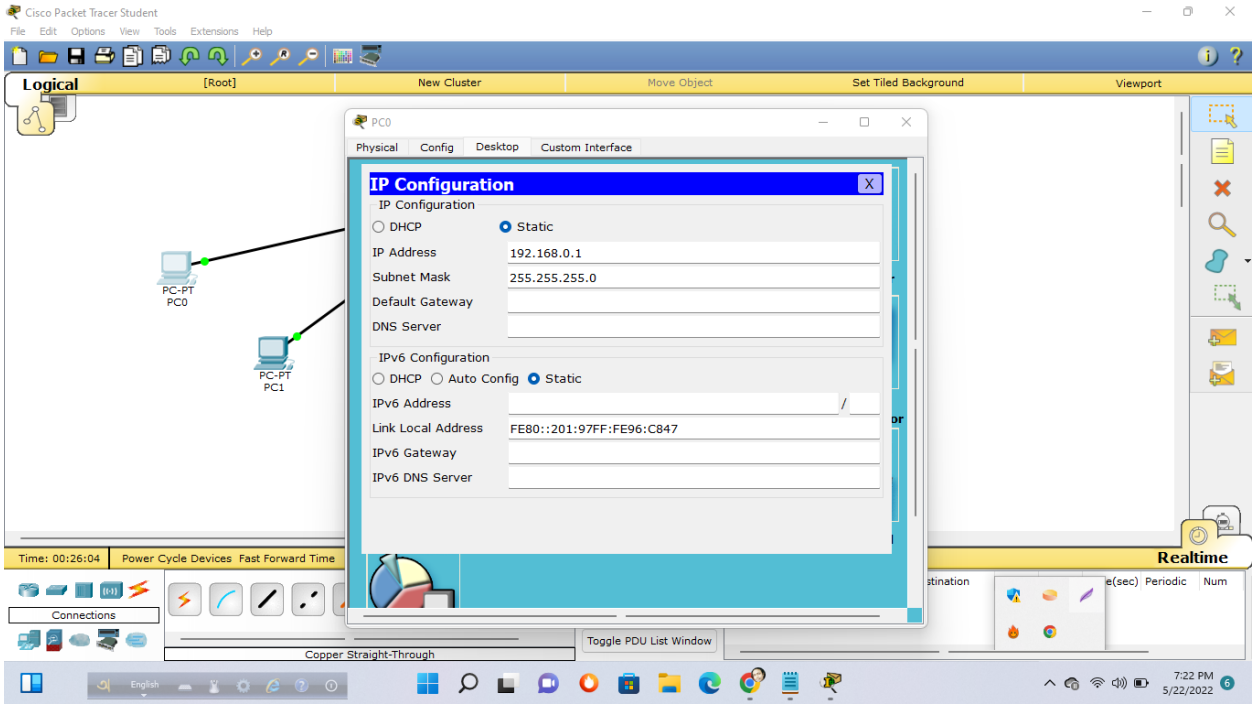
NAME: MD. RASIDUL HAQUE
ID: CSE1901016136(18B)
SUBJECT: Computer Networks

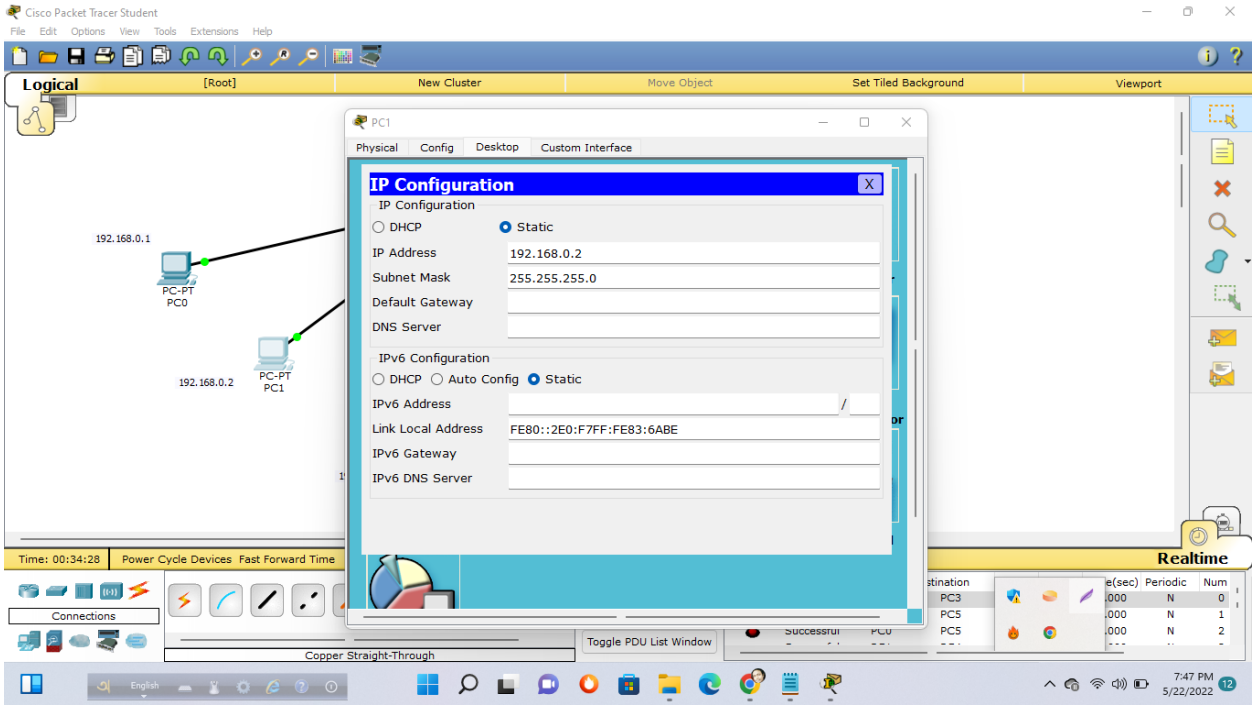
1 . Application of basic commands of computer networks and prepare a peer to peer network and apply the basic commands.

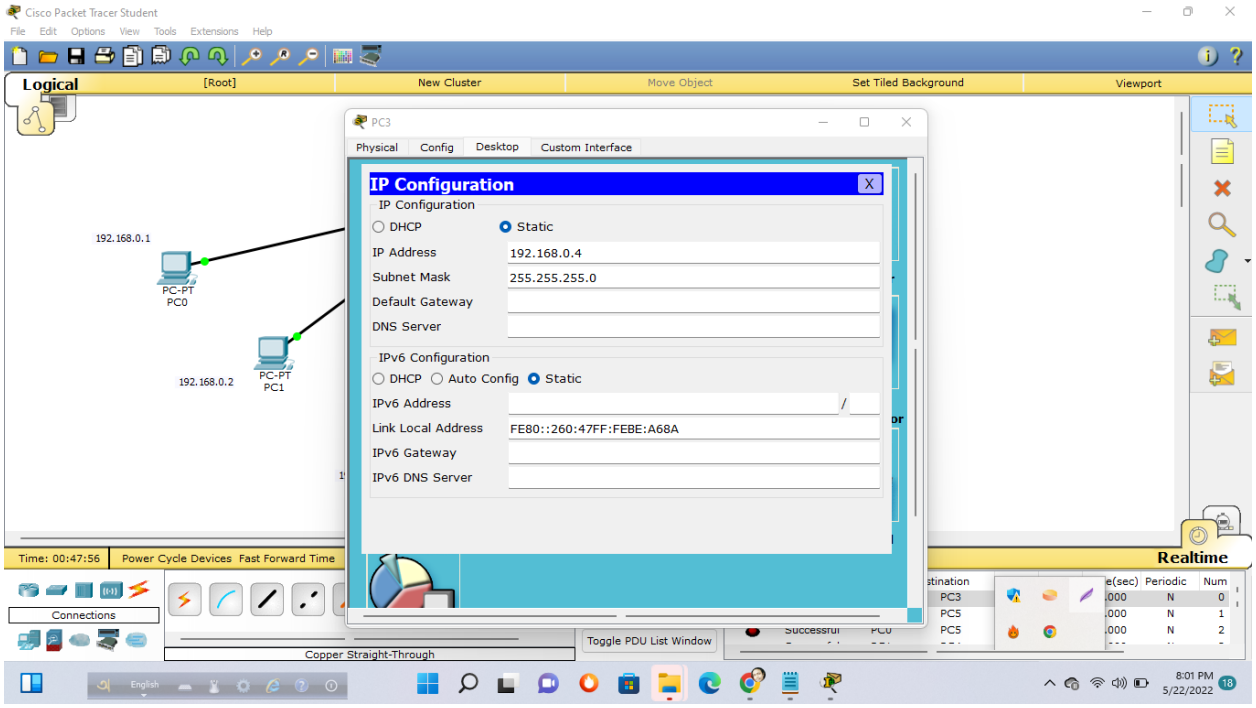
Ipconfig :

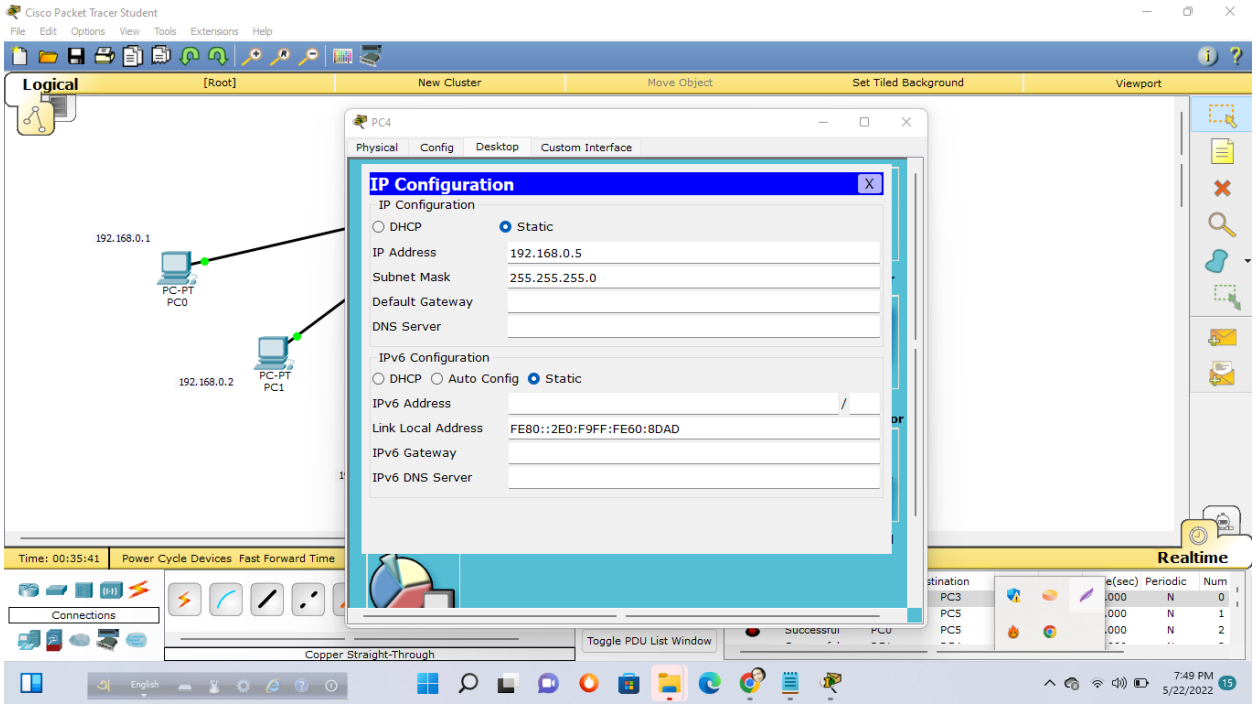


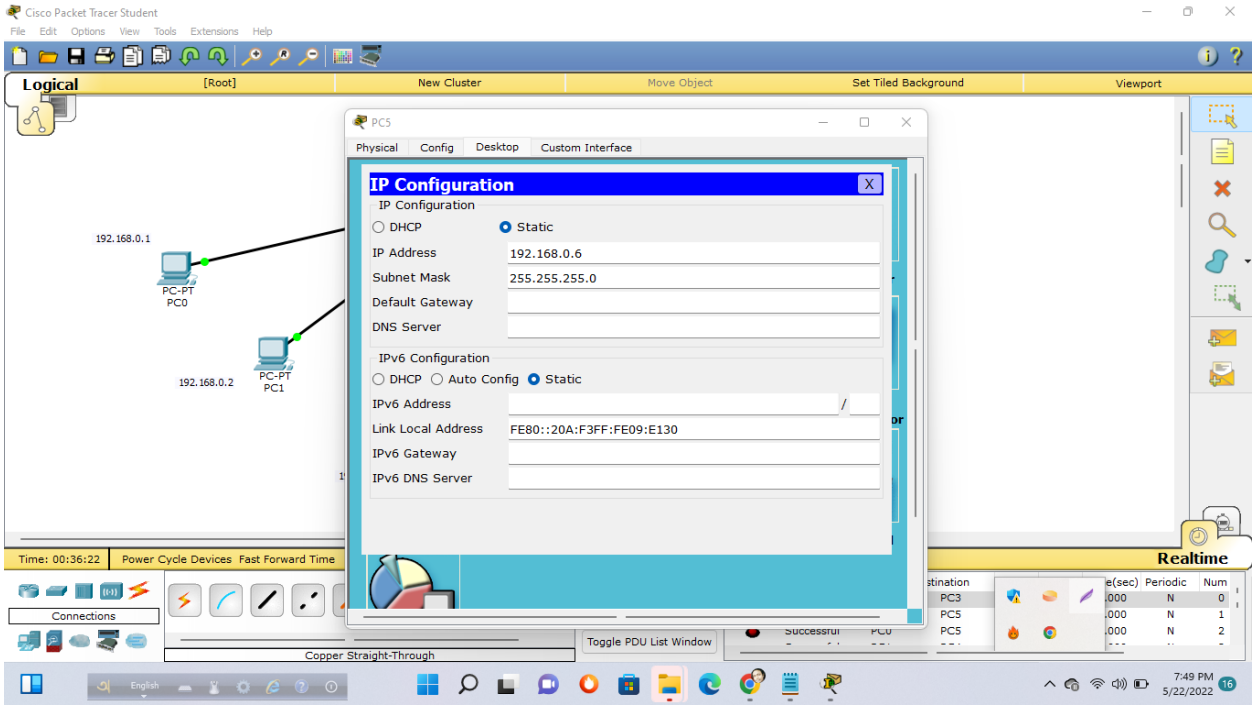
Ipconfig /all :


Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC0
Physical Config Desktop Custom Interface
IP Configuration
IP Configuration
DHCP
Static
IP Address 192.168.0.1
Subnet Mask 255.255.255.0
Default Gateway
DNS Server
IPv6 Configuration
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::201:97FF:FE96:C847
IPv6 Gateway
IPv6 DNS Server
PC-PT PC0
PC-PT PC1
Time: 00:26:04
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Straight-Through
Toggle PDU List Window
7:22 PM
5/22/2022

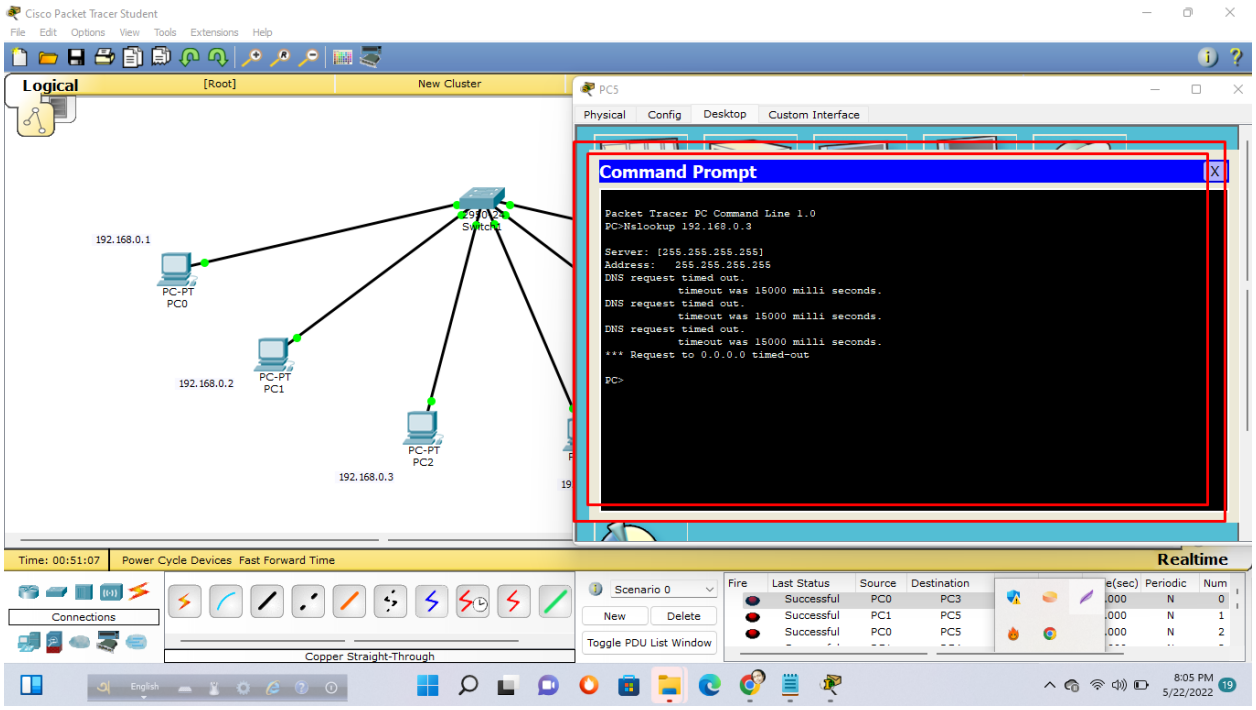

Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC1
Physical Config Desktop Custom Interface
IP Configuration
IP Configuration
DHCP
Static
IP Address 192.168.0.2
Subnet Mask 255.255.255.0
Default Gateway
DNS Server
IPv6 Configuration
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::2E0:F7FF:FE83:6ABE
IPv6 Gateway
IPv6 DNS Server
192.168.0.1
192.168.0.2
PC-PT PC0
PC-PT PC1
Time: 00:34:28
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Straight-Through
Toggle PDU List Window
7:47 PM
5/22/2022


Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
192.168.0.1
PC-PT
PC0
192.168.0.2
PC-PT
PC1
PC3
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
IP Address
192.168.0.4
Subnet Mask
255.255.255.0
Default Gateway
DNS Server
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::260:47FF:FEBE:A68A
IPv6 Gateway
IPv6 DNS Server
Time: 00:47:56
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Toggle PDU List Window
PC3
PC5
PC5
8:01 PM
5/22/2022

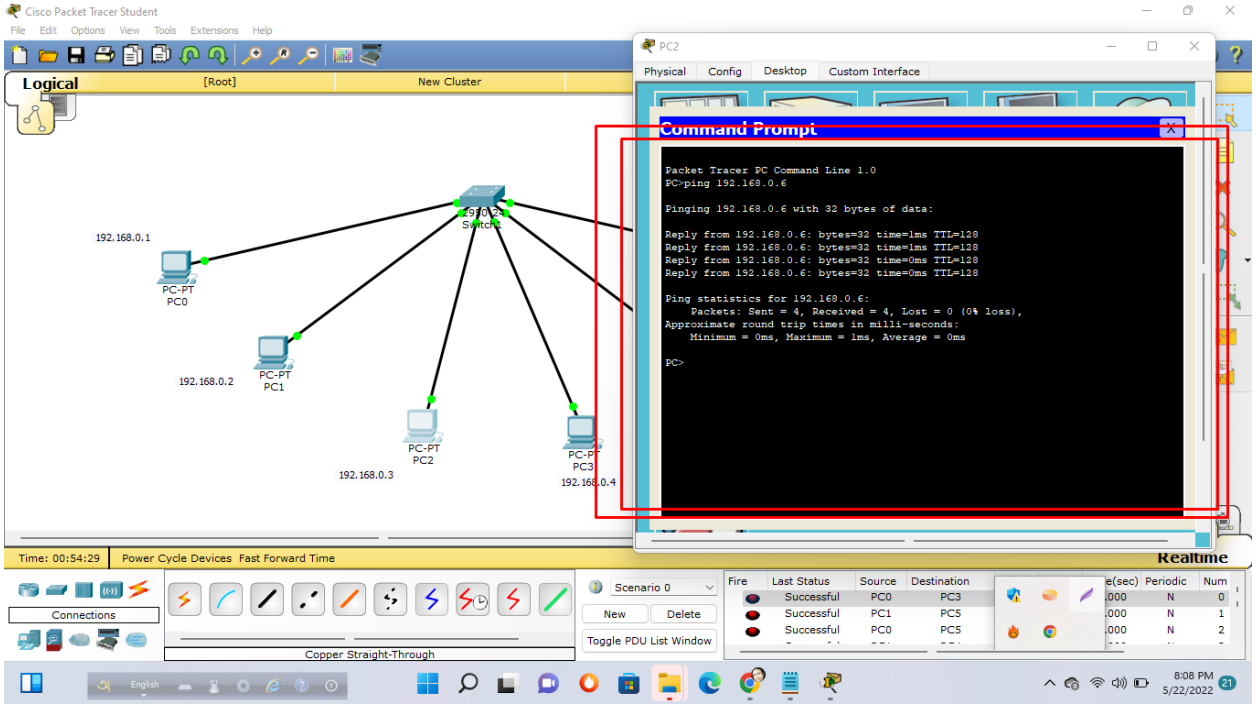

Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC4
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
IP Address
192.168.0.5
Subnet Mask
255.255.255.0
Default Gateway
DNS Server
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2E0:F9FF:FE60:8DAD
IPv6 Gateway
IPv6 DNS Server
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
Time: 00:35:41
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Toggle PDU List Window
7:49 PM
5/22/2022

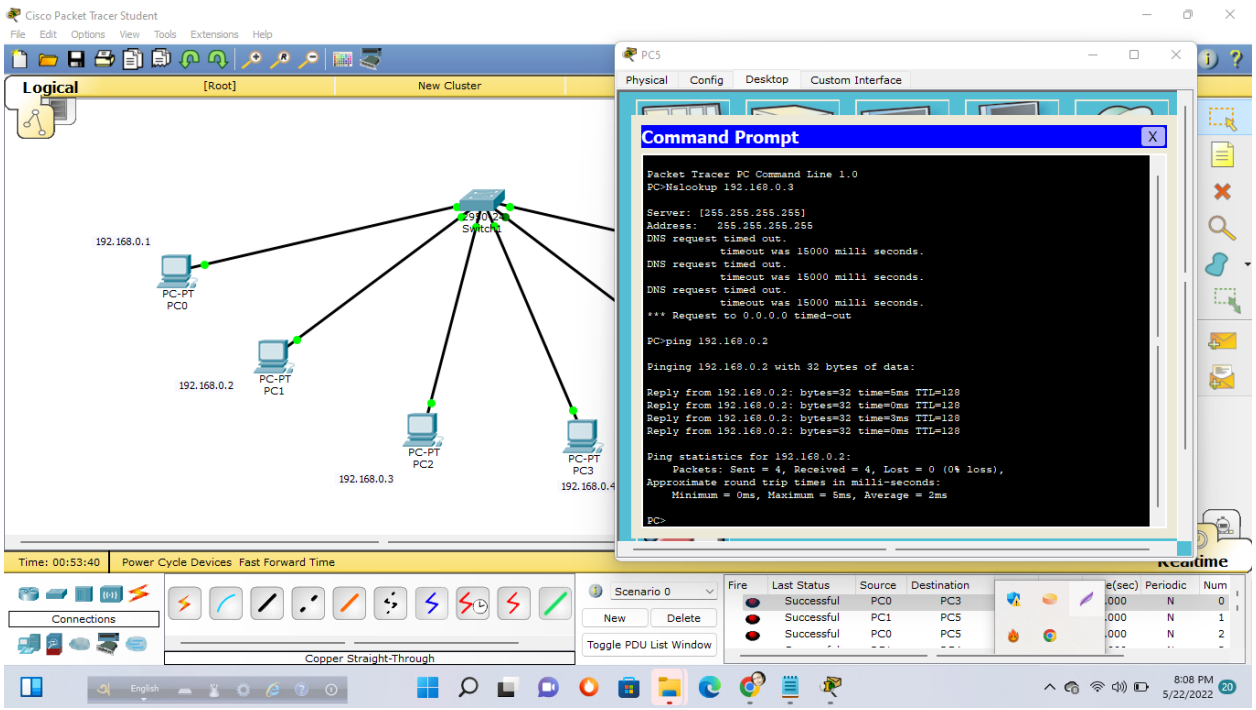

Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC5
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
IP Address
192.168.0.6
Subnet Mask
255.255.255.0
Default Gateway
DNS Server
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::20A:F3FF:FE09:E130
IPv6 Gateway
IPv6 DNS Server
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
Time: 00:36:22
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Toggle PDU List Window
7:49 PM
5/22/2022

Nslookup :

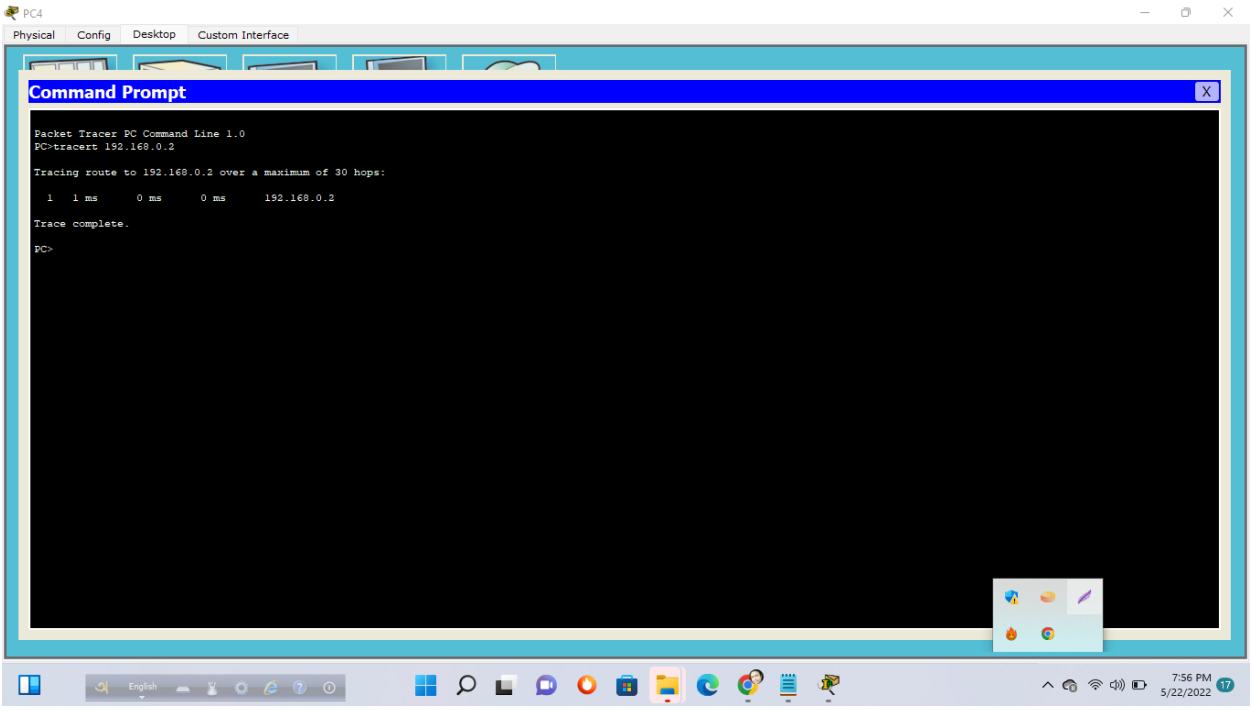

Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
PC-PT PC2
192.168.0.3
PC5
Physical
Config
Desktop
Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>Nslookup 192.168.0.3
Server: [255.255.255.255]
Address: 255.255.255.255
DNS request timed out.
timeout was 15000 milli seconds.
DNS request timed out.
timeout was 15000 milli seconds.
DNS request timed out.
timeout was 15000 milli seconds.
*** Request to 0.0.0.0 timed-out
PC>
Time: 00:51:07
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Successful PC0 PC3
Successful PC1 PC5
Successful PC0 PC5
Periodic
Num
8:05 PM
5/22/2022

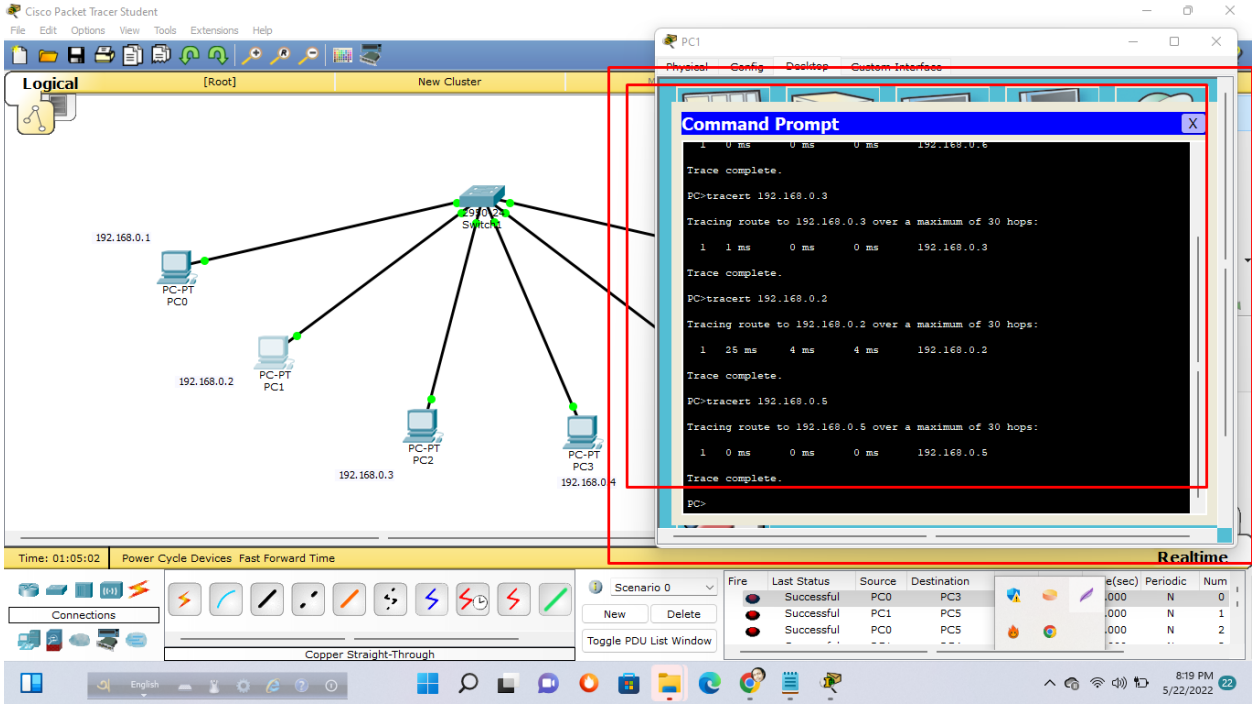
Ping :


Cisco Packet Tracer Student
Logical
[Root]
New Cluster
PC2
Physical
Config
Desktop
Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 192.168.0.6
Pinging 192.168.0.6 with 32 bytes of data:
Reply from 192.168.0.6: bytes=32 time=1ms TTL=128
Reply from 192.168.0.6: bytes=32 time=1ms TTL=128
Reply from 192.168.0.6: bytes=32 time=0ms TTL=128
Reply from 192.168.0.6: bytes=32 time=0ms TTL=128
Ping statistics for 192.168.0.6:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
PC>
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
PC-PT PC2
192.168.0.3
PC-PT PC3
192.168.0.4
Time: 00:54:29
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Successful PC0 PC3
Successful PC1 PC5
Successful PC0 PC5
8:08 PM
5/22/2022

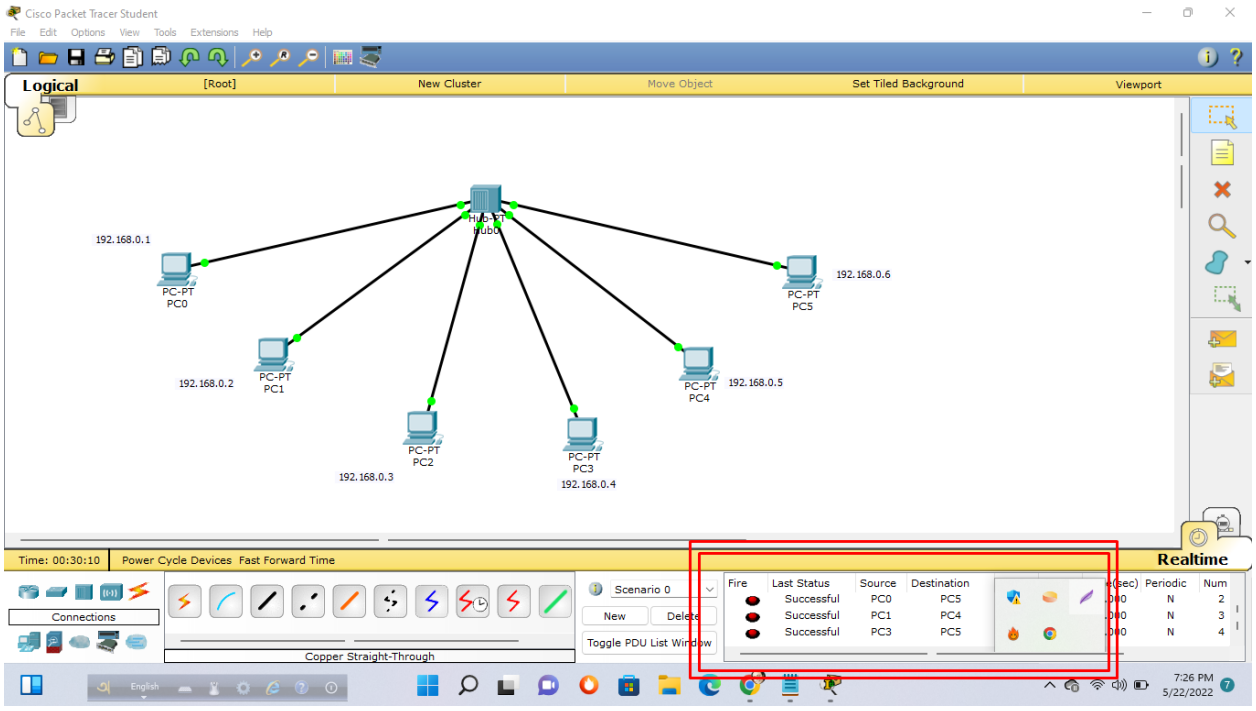

Cisco Packet Tracer Student
Logical
[Root]
New Cluster
PC5
Physical
Config
Desktop
Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>Nslookup 192.168.0.3
Server: [255.255.255.255]
Address: 255.255.255.255
DNS request timed out.
timeout was 15000 milli seconds.
DNS request timed out.
timeout was 15000 milli seconds.
DNS request timed out.
timeout was 15000 milli seconds.
*** Request to 0.0.0.0 timed-out
PC>ping 192.168.0.2
Pinging 192.168.0.2 with 32 bytes of data:
Reply from 192.168.0.2: bytes=32 time=5ms TTL=128
Reply from 192.168.0.2: bytes=32 time=0ms TTL=128
Reply from 192.168.0.2: bytes=32 time=3ms TTL=128
Reply from 192.168.0.2: bytes=32 time=0ms TTL=128
Ping statistics for 192.168.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 2ms
PC>
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
PC-PT PC2
192.168.0.3
PC-PT PC3
192.168.0.4
Time: 00:53:40
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Successful PC0 PC3
Successful PC1 PC5
Successful PC0 PC5
8:08 PM
5/22/2022

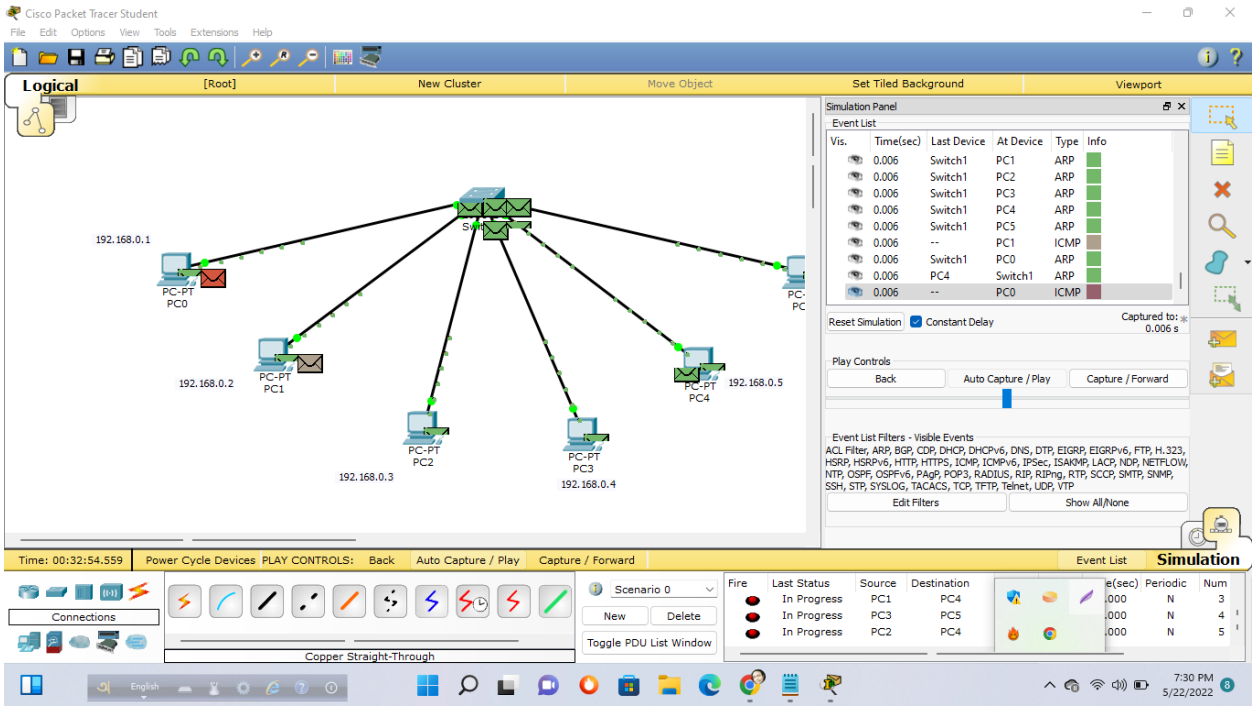
Tracert :

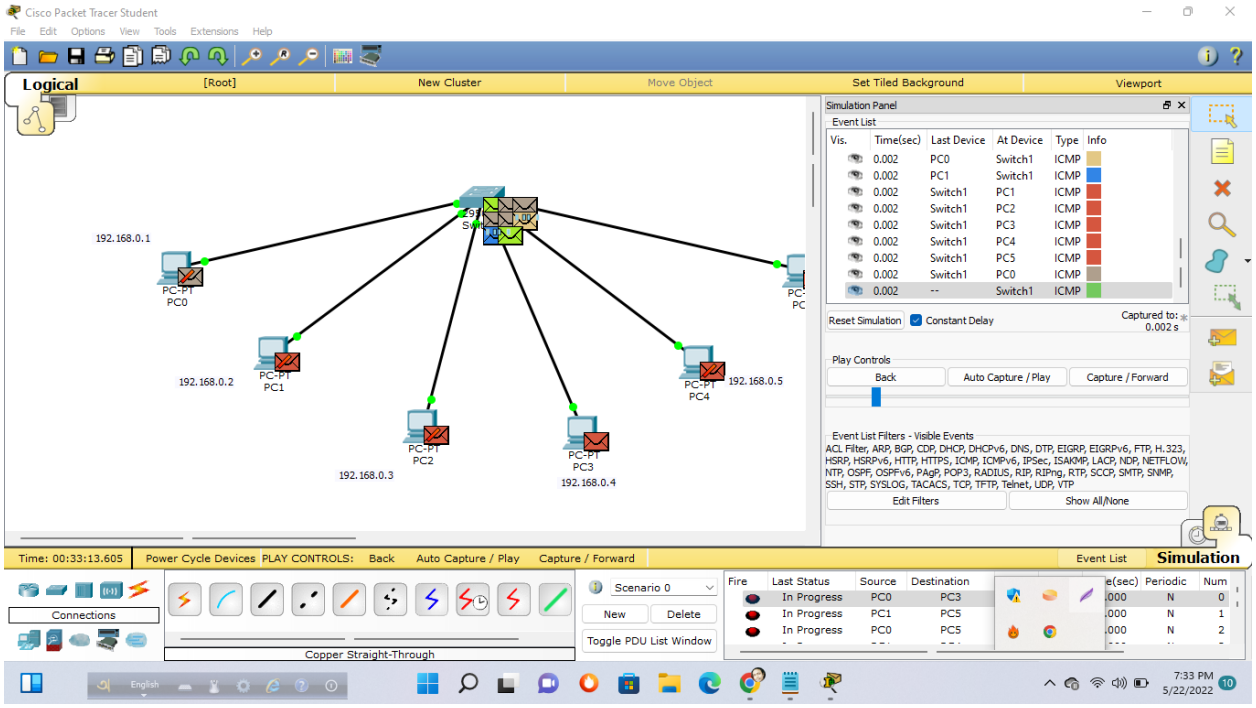

PC4
Physical
Config
Desktop
Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>tracert 192.168.0.2
Tracing route to 192.168.0.2 over a maximum of 30 hops:
1 1 ms 0 ms 0 ms 192.168.0.2
Trace complete.
PC>

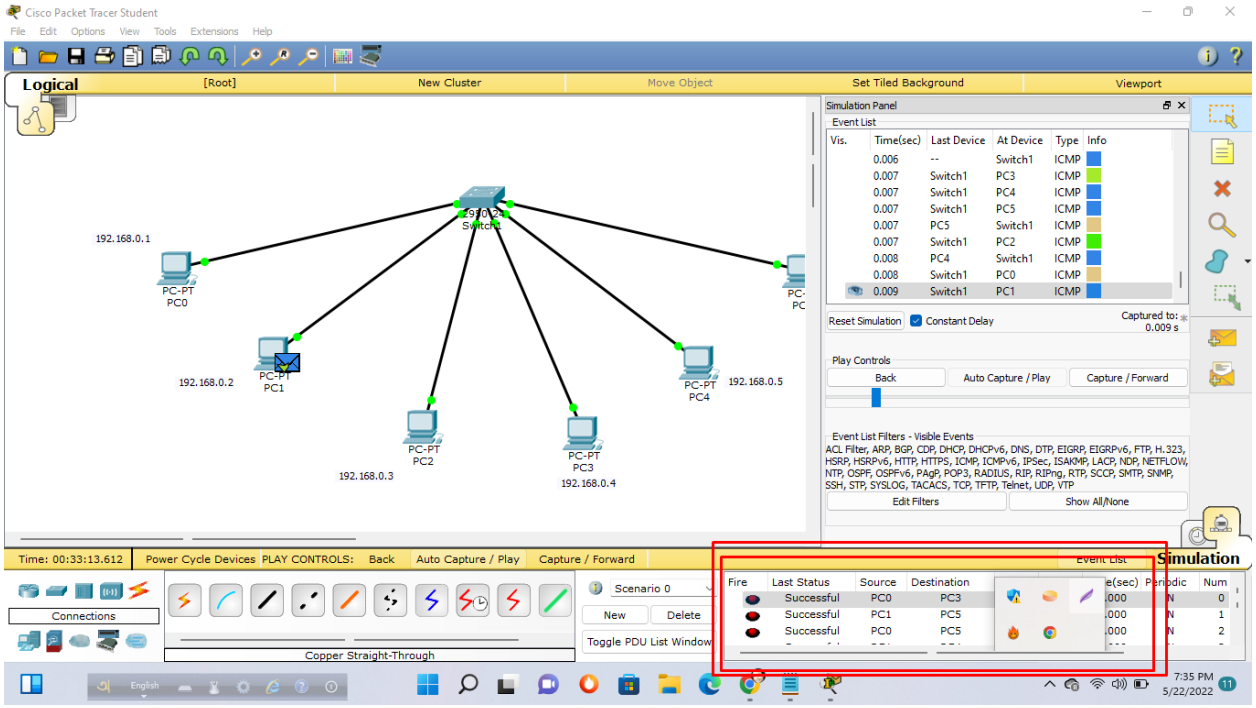

Cisco Packet Tracer Student
Logical
[Root]
New Cluster
PC1
Command Prompt
Trace complete.
PC>tracert 192.168.0.3
Tracing route to 192.168.0.3 over a maximum of 30 hops:
1 1 ms 0 ms 0 ms 192.168.0.3
Trace complete.
PC>tracert 192.168.0.2
Tracing route to 192.168.0.2 over a maximum of 30 hops:
1 25 ms 4 ms 4 ms 192.168.0.2
Trace complete.
PC>tracert 192.168.0.5
Tracing route to 192.168.0.5 over a maximum of 30 hops:
1 0 ms 0 ms 0 ms 192.168.0.5
Trace complete.
PC>
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
PC-PT PC2
192.168.0.3
PC-PT PC3
192.168.0.4
Time: 01:05:02
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Successful PC0 PC3
Successful PC1 PC5
Successful PC0 PC5

Prepare a peer to peer network :






Cisco Packet Tracer Student
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type Info
0.002 PC0 Switch1 ICMP
0.002 PC1 Switch1 ICMP
0.002 Switch1 PC1 ICMP
0.002 Switch1 PC2 ICMP
0.002 Switch1 PC3 ICMP
0.002 Switch1 PC4 ICMP
0.002 Switch1 PC5 ICMP
0.002 Switch1 PC0 ICMP
0.002 -- Switch1 ICMP
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, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All/None
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
192.168.0.3
PC-PT PC2
192.168.0.4
PC-PT PC3
192.168.0.5
PC-PT PC4
Time: 00:33:13.605
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination
In Progress PC0 PC3
In Progress PC1 PC5
In Progress PC0 PC5
7:33 PM
5/22/2022


Cisco Packet Tracer Student
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type Info
0.006 -- Switch1 ICMP
0.007 Switch1 PC3 ICMP
0.007 Switch1 PC4 ICMP
0.007 Switch1 PC5 ICMP
0.007 PC5 Switch1 ICMP
0.007 Switch1 PC2 ICMP
0.008 PC4 Switch1 ICMP
0.008 Switch1 PC0 ICMP
0.009 Switch1 PC1 ICMP
Reset Simulation
Constant Delay
Captured to: 0.009 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, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All/None
192.168.0.1
PC-PT PC0
192.168.0.2
PC-PT PC1
192.168.0.3
PC-PT PC2
192.168.0.4
PC-PT PC3
192.168.0.5
PC-PT PC4
Time: 00:33:13.612
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination
Successful PC0 PC3
Successful PC1 PC5
Successful PC0 PC5
7:35 PM
5/22/2022