Отчёт по практической работе 30

Землянский В. ИС223

Цель работы:

Настроить агрегирование каналов между коммутаторами в статическом режиме и с использованием протокола lacp для увеличения пропускной способности и отказоустойчивости сети.

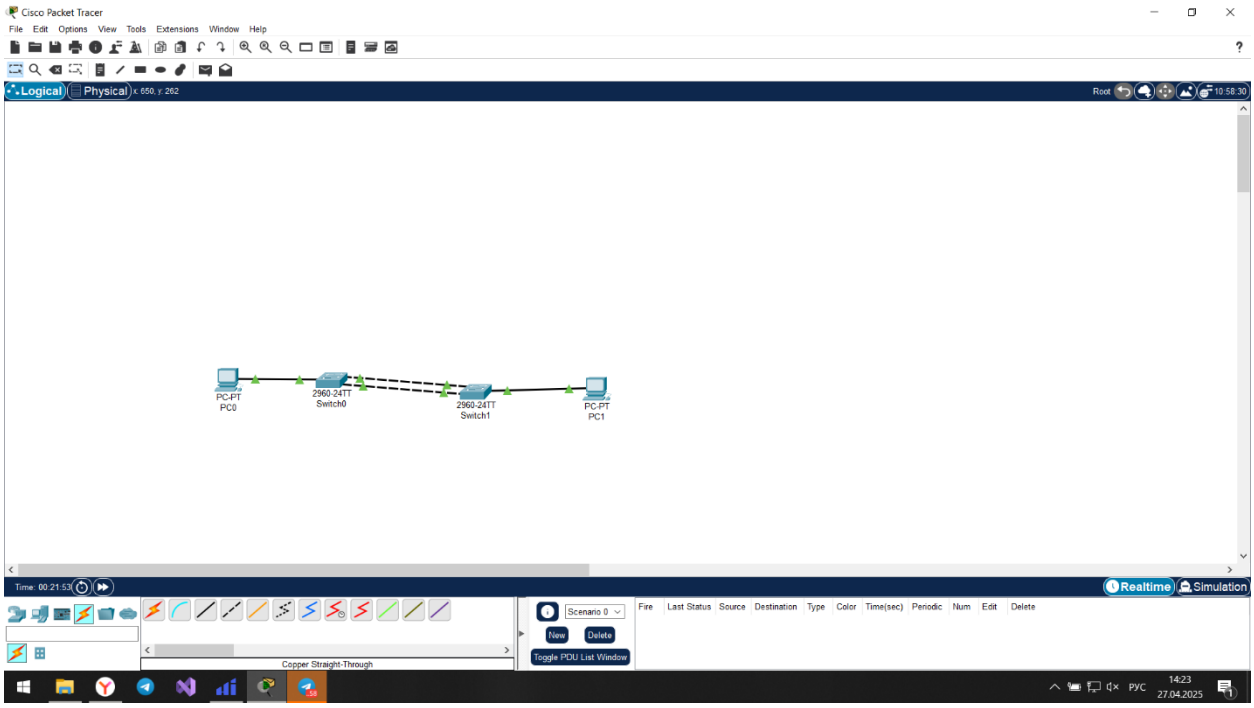
Ход выполнения работы:

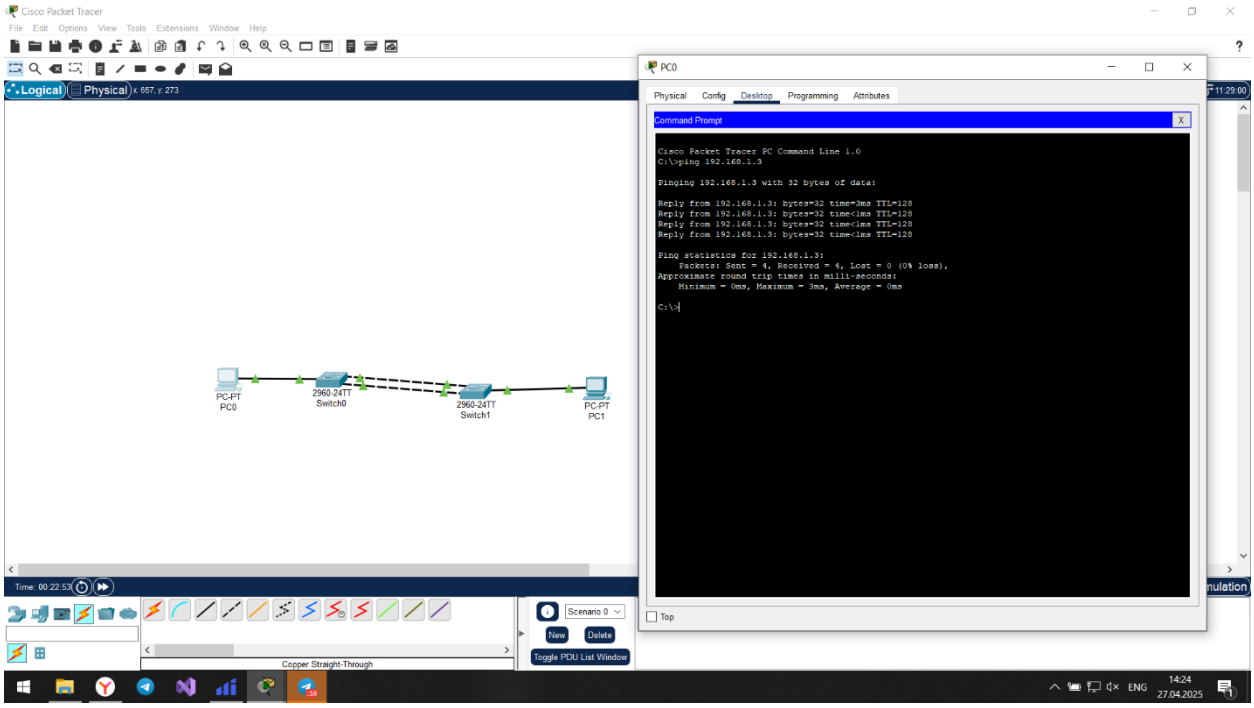
- Построил сеть с двумя коммутаторами для первой части работы.
- Назначил ip адреса:
    - pc0: 192.168.1.2
    - pc1: 192.168.1.3
- На обоих коммутаторах настроил статическое агрегирование каналов:
    - Выполнил команду channel-group 1 mode on на портах fa0/1 и fa0/2.
- Проверил пинг между pc0 и pc1 пакеты успешно доставляются.
- Отключил один из портов (fa0/1) на switch0.
- Проверил пинг снова связь осталась работал второй линк.
- Вторая часть работы: динамическое агрегирование (lacp).
- Построил сеть с тремя обычными switch (switch0 switch1 switch2) и одним switch 3560.
- Подключил каждый обычный switch двумя линками к switch3560:
- Подключил три пк к одному из обычных коммутаторов на порт fa0/3.
- Назначил айпи на них
- На switch3560 настроил lacp:
    - Включил channel-protocol lacp.
    - Выполнил команды channel-group X mode active для всех пар портов.
- На обычных Switch настроил lacp в пасс режиме:
    - channel-protocol lacp
    - channel-group X mode passive
- Проверил создание etherchannel:
    - Пинг между пк проходит успешно.

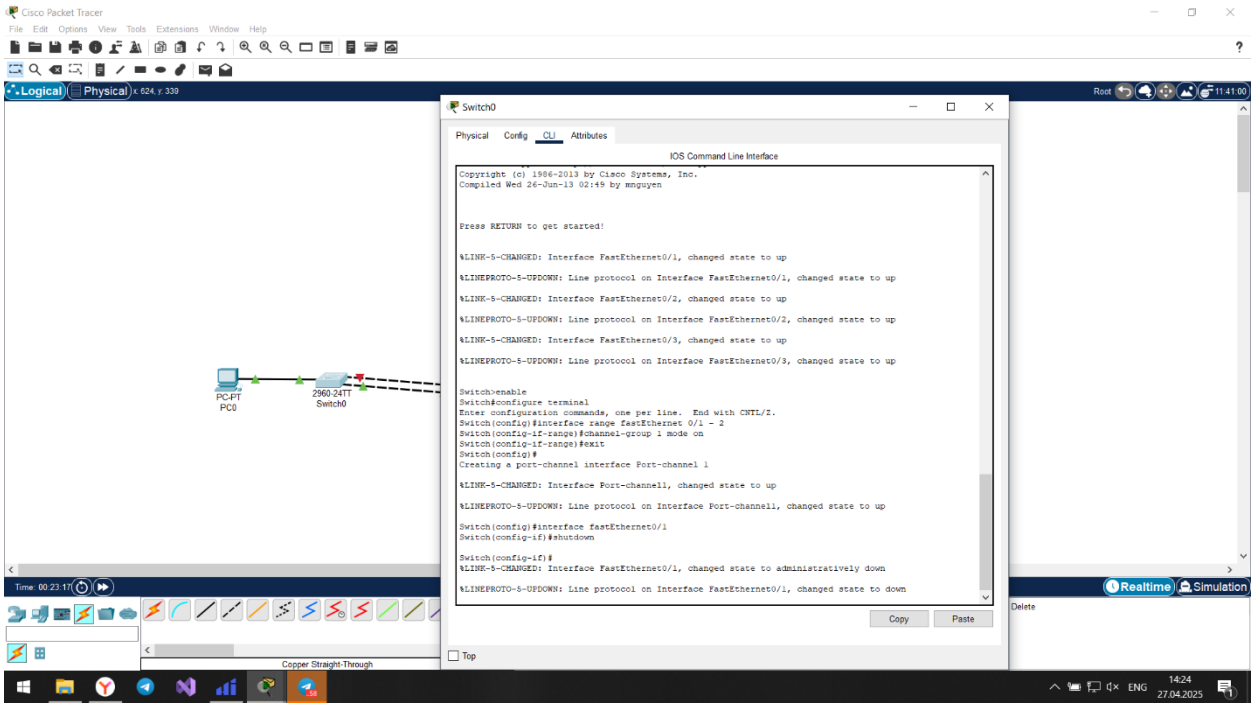
- Отключил парочку из физических линков.

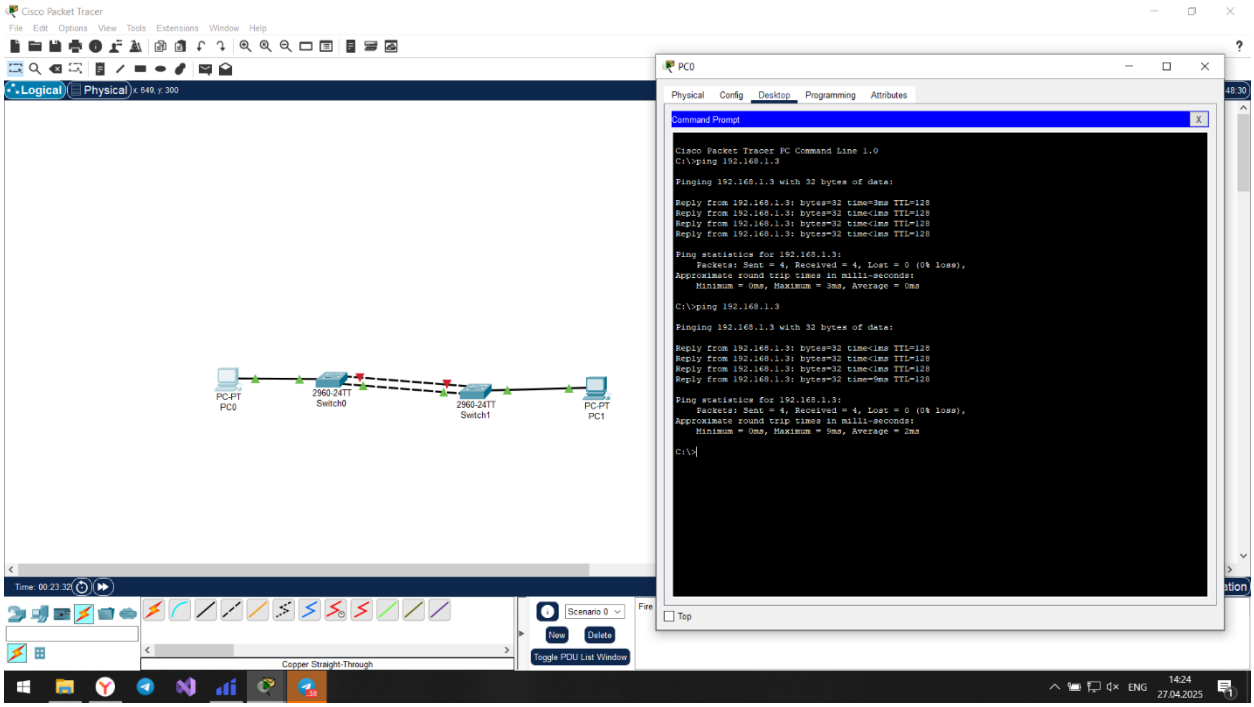
Связь осталась благодаря резервированию. Победас!

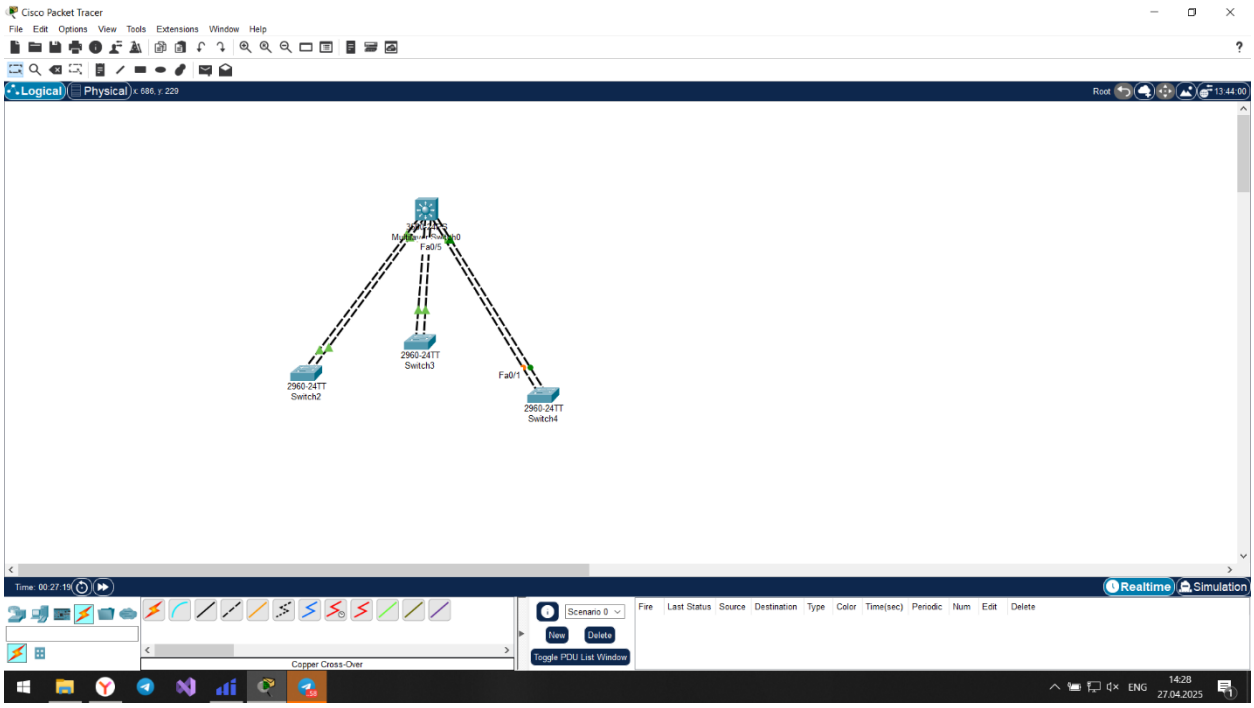
Скрины:

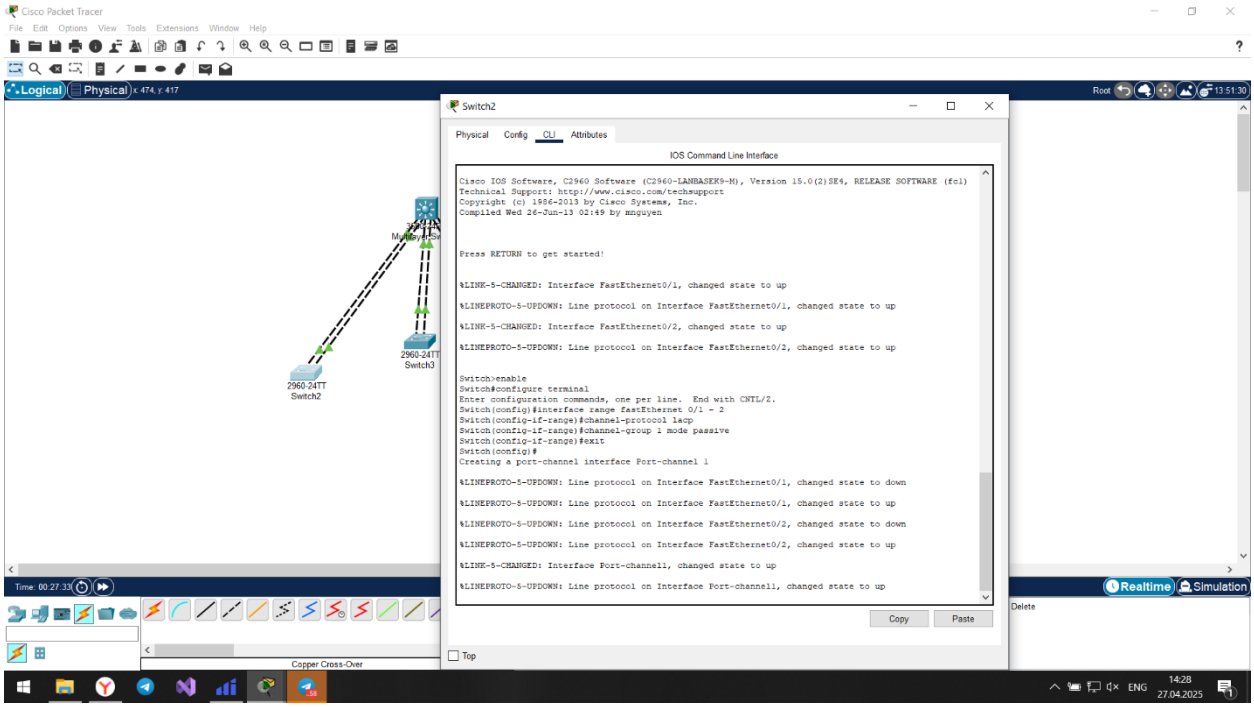





Cisco Packet Tracer
Switch0
Physical Config CLI Attributes
IOS Command Line Interface
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1 - 2
Switch(config-if-range)#channel-group 1 mode on
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 1
%LINK-5-CHANGED: Interface Port-channel1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to up
Switch(config)#interface fastEthernet0/1
Switch(config-if)#shutdown
Switch(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administratively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
Copy
Paste
Top
PC-PT PC0
2960-24TT Switch0
Logical
Physical
Realtime
Simulation
Copper Straight-Through


Cisco Packet Tracer
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time=3ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 0ms
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=9ms TTL=128
Ping statistics for 192.168.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 9ms, Average = 2ms
C:\>
Top
PC-PT PC0
2960-24TT Switch0
2960-24TT Switch1
PC-PT PC1
Logical
Physical
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Root
Fa0/5
2960-24TT
Switch3
2960-24TT
Switch2
Fa0/1
2960-24TT
Switch4
Realtime Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Copper Cross-Over
ENG
14:28
27.04.2025


Cisco Packet Tracer
Logical Physical
Root
Switch2
Physical Config CLI Attributes
IOS Command Line Interface
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
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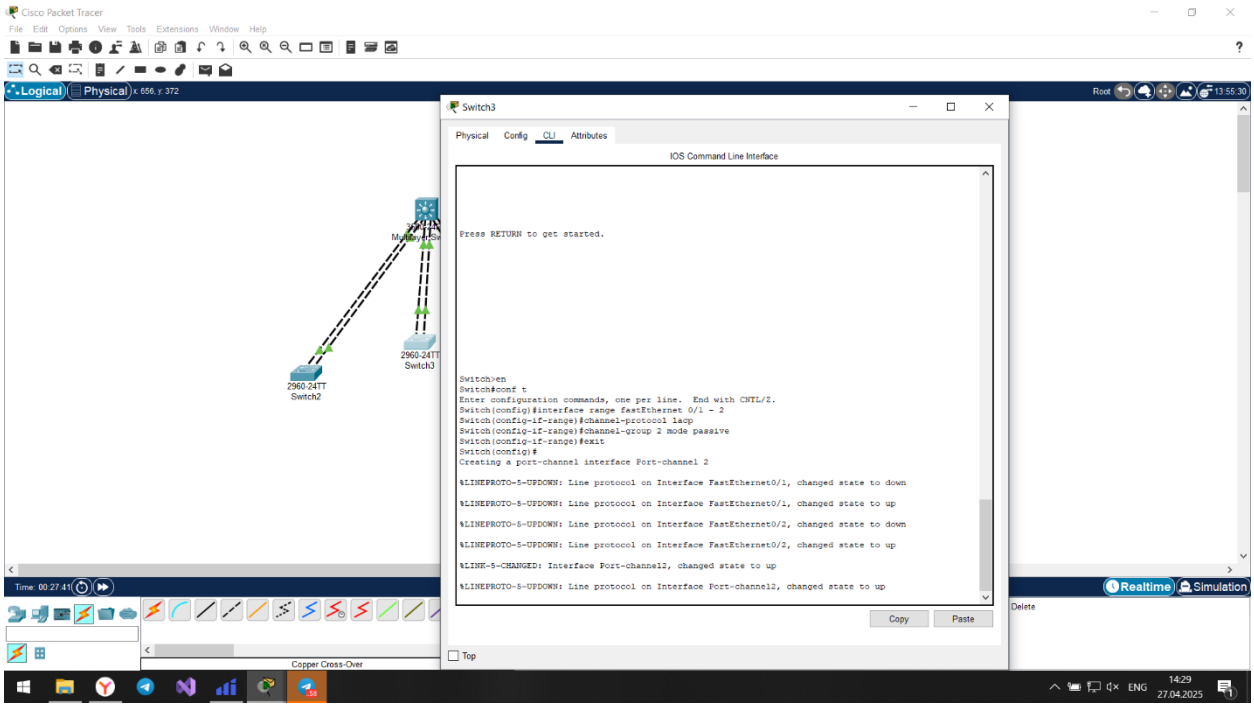
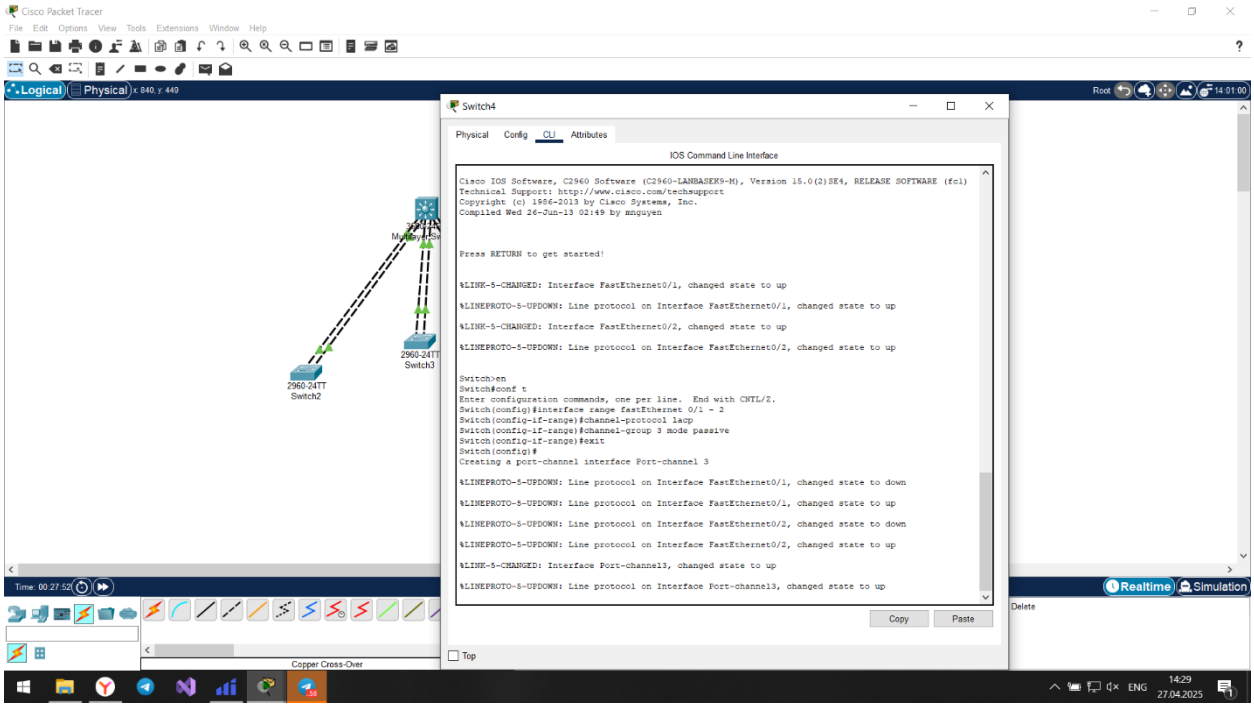
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1 - 2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 1 mode passive
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 1
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Port-channel1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to up
Copy
Paste
Top
2960-24TT
Switch3
2960-24TT
Switch2
Realtime Simulation
Delete
Copper Cross-Over
ENG
14:28
27.04.2025


Cisco Packet Tracer
Switch3
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1 - 2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 2 mode passive
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 2
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Port-channel2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel2, changed state to up
Copy
Paste
Top
2960-24TT
Switch2
2960-24TT
Switch3
Logical
Physical
Root
Realtime
Simulation
Delete
Copper Cross-Over
ENG
14:29
27.04.2025


Cisco Packet Tracer
Switch4
Physical
Config
CLI
Attributes
IOS Command Line Interface
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
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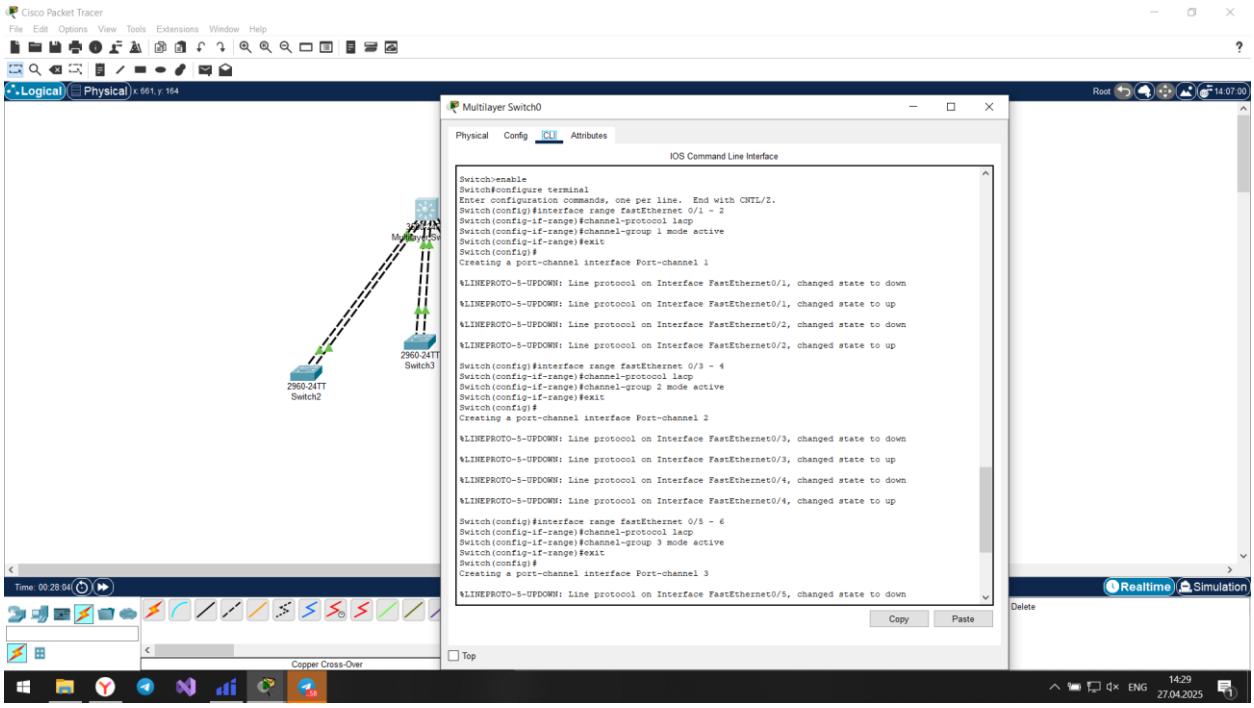
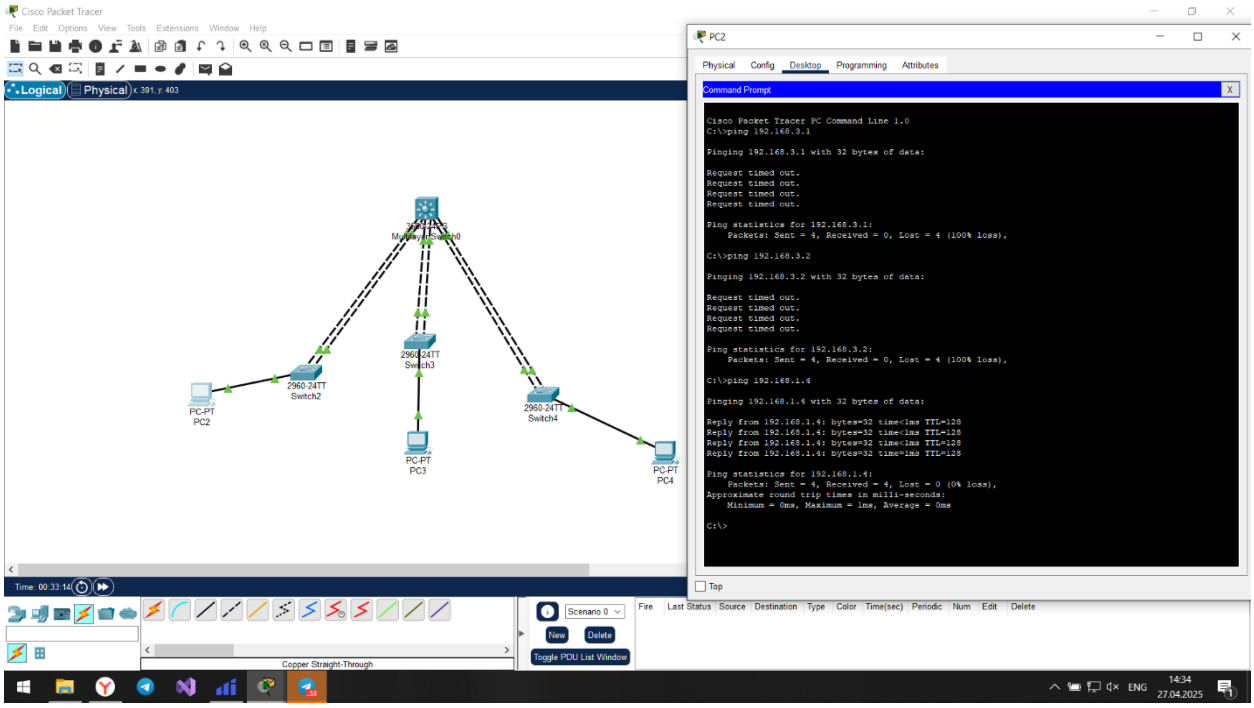
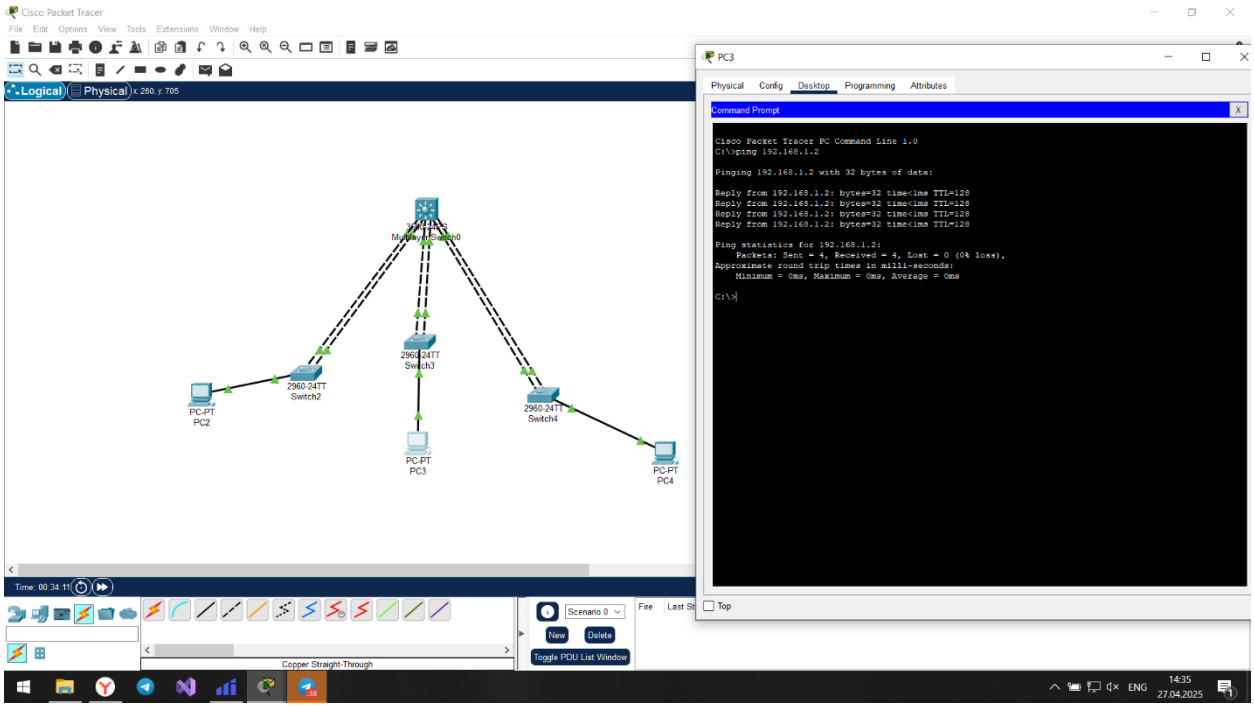
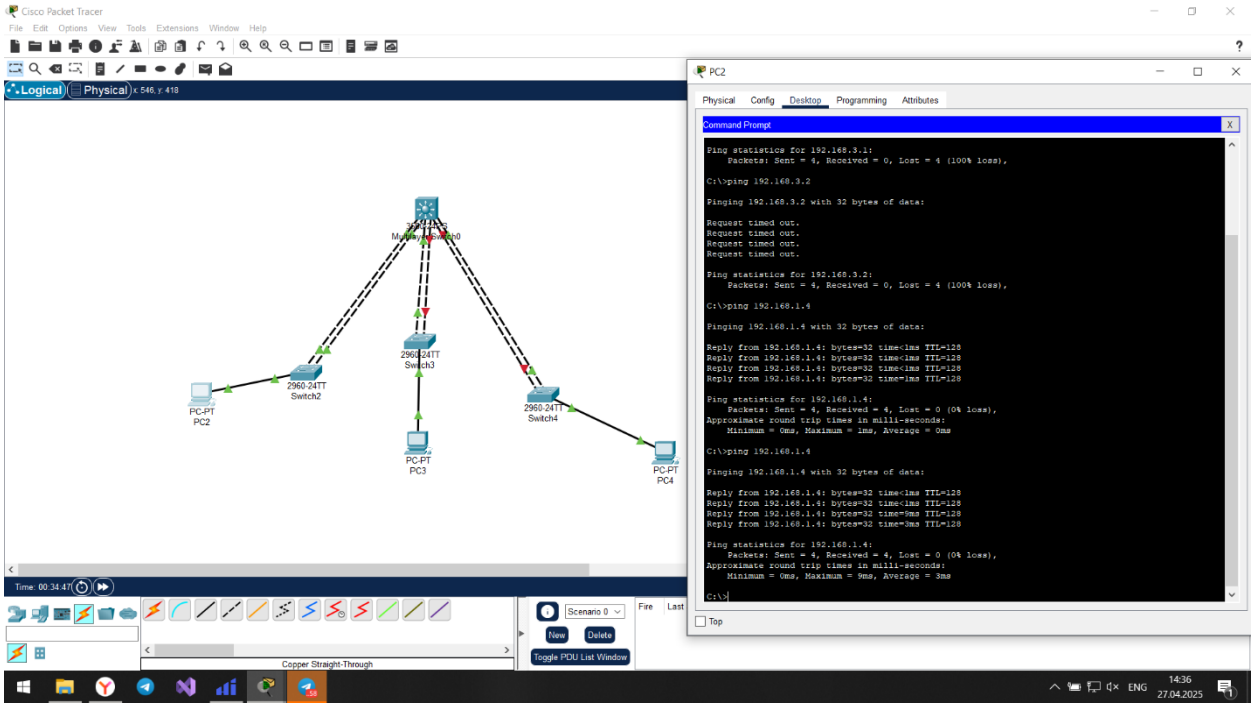
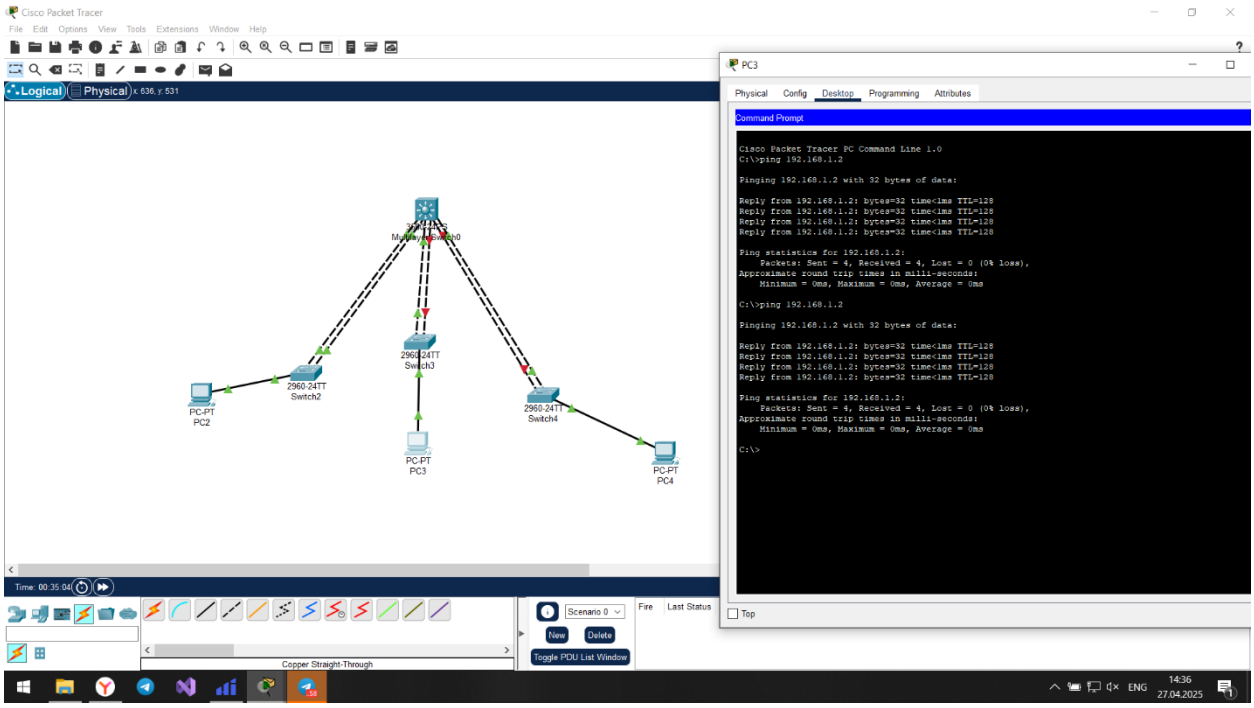
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1 - 2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 3 mode passive
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 3
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Port-channel3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel3, changed state to up
Copy
Paste
Top
2960-24TT
Switch2
2960-24TT
Switch3
Logical
Physical
Root
Realtime
Simulation
Delete
Copper Cross-Over
ENG
14:29
27.04.2025

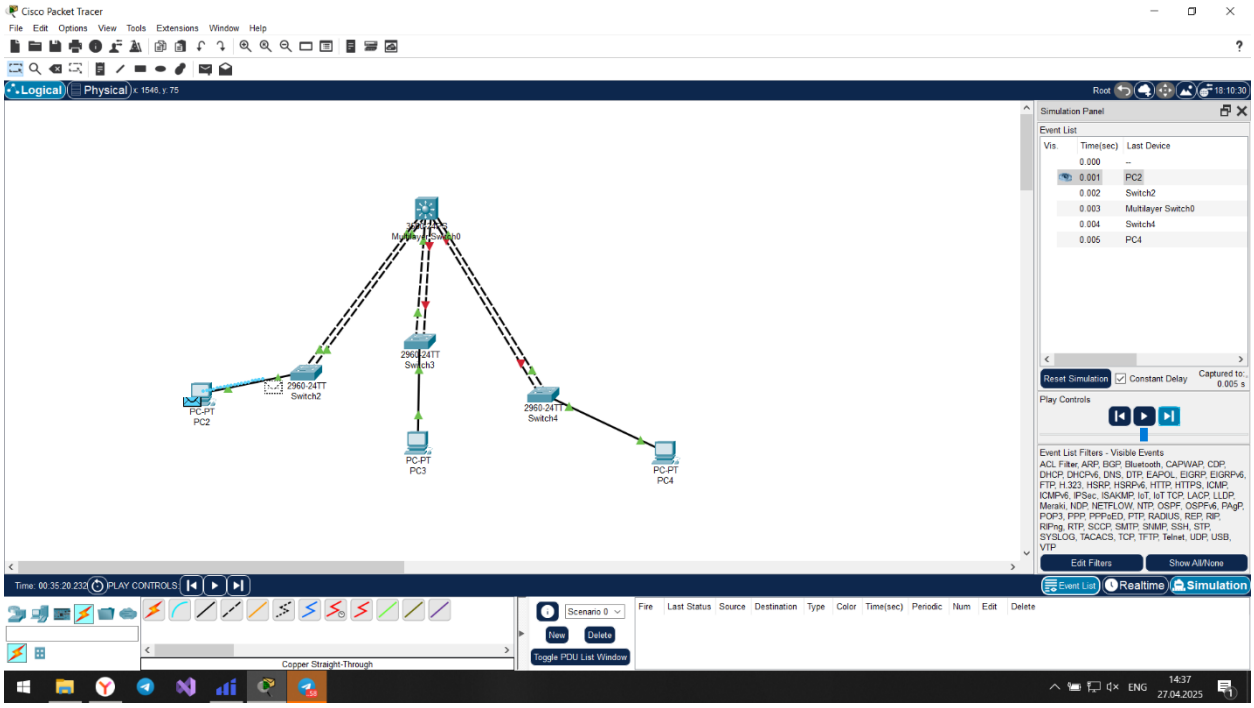

Cisco Packet Tracer
Multilayer Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1 - 2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 1 mode active
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 1
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch(config)#interface range fastEthernet 0/3 - 4
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 2 mode active
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 2
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
Switch(config)#interface range fastEthernet 0/5 - 6
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 3 mode active
Switch(config-if-range)#exit
Switch(config)#
Creating a port-channel interface Port-channel 3
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to down
Copy
Paste
Top
2960-24TT
Switch2
2960-24TT
Switch3
Logical
Physical
Realtime
Simulation
Copper Cross-Over

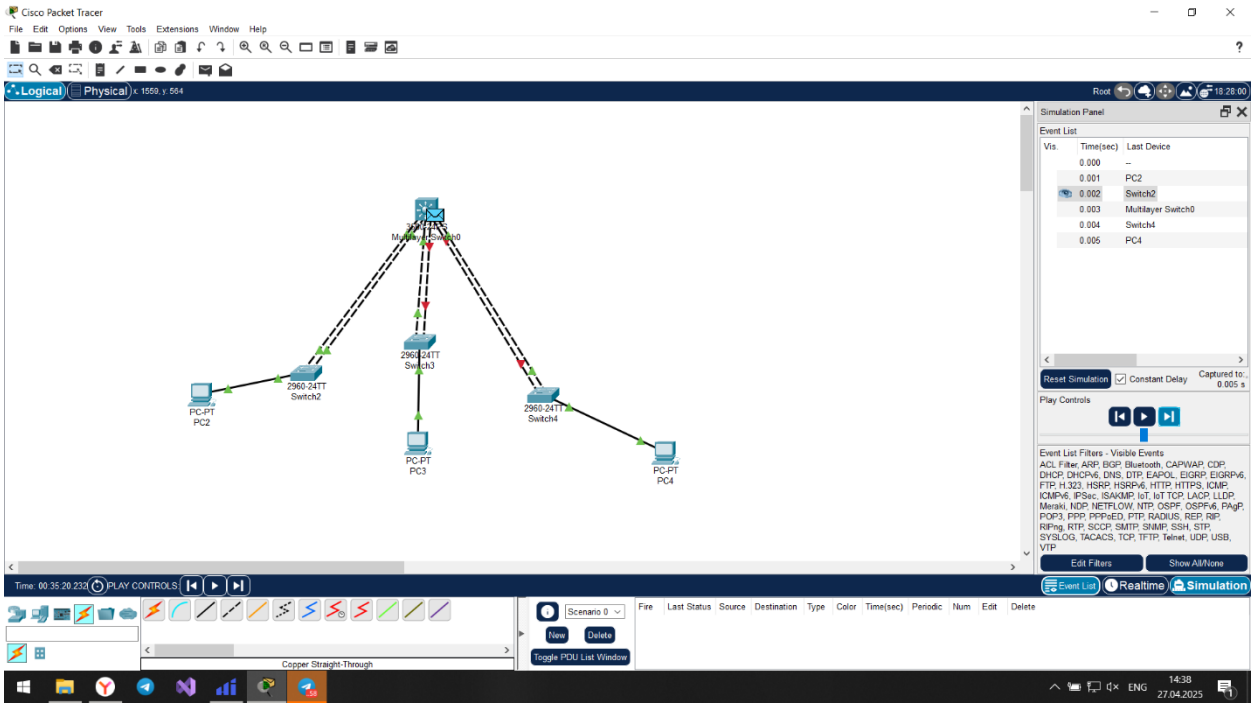

Cisco Packet Tracer
PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.3.1
Pinging 192.168.3.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.3.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.3.2
Pinging 192.168.3.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.3.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.1.4
Pinging 192.168.1.4 with 32 bytes of data:
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.1.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top
2960-24TT
Switch2
2960-24TT
Switch3
2960-24TT
Switch4
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
Logical
Physical
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
Copper Straight-Through

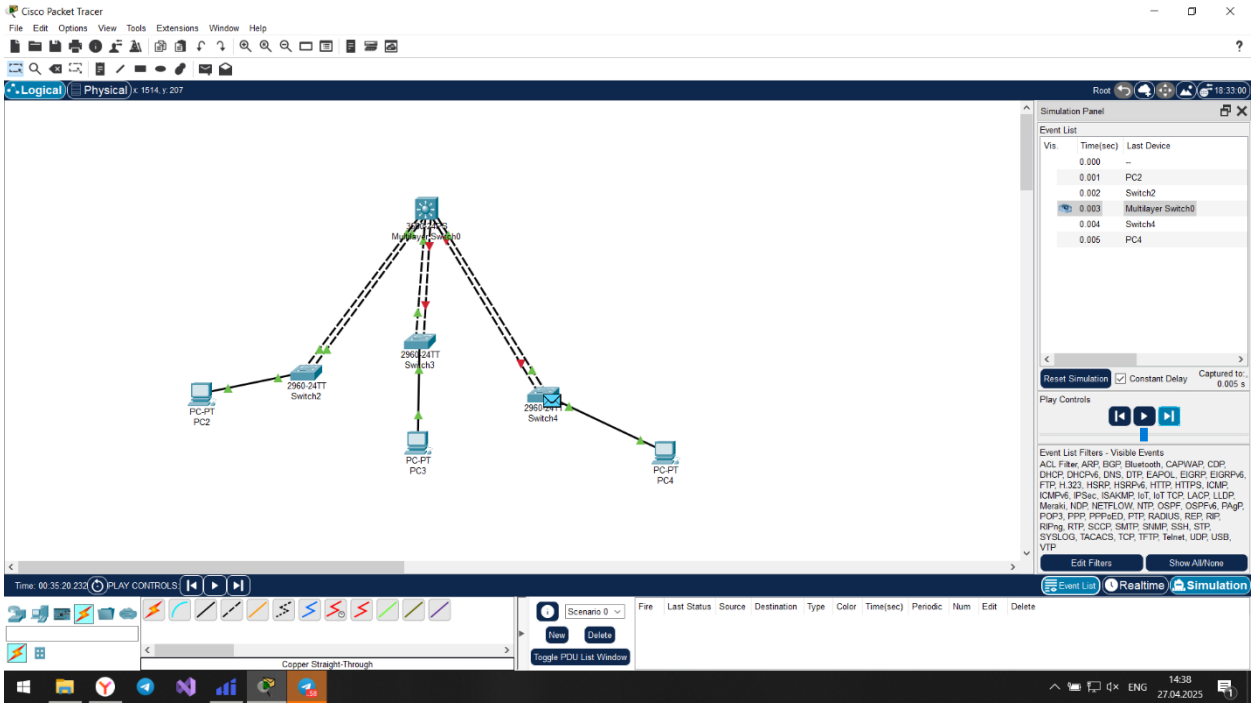

Cisco Packet Tracer
PC3
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Logical Physical
2960-24TT Switch2
2960-24TT Switch3
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Top
ENG
14:35
27.04.2025

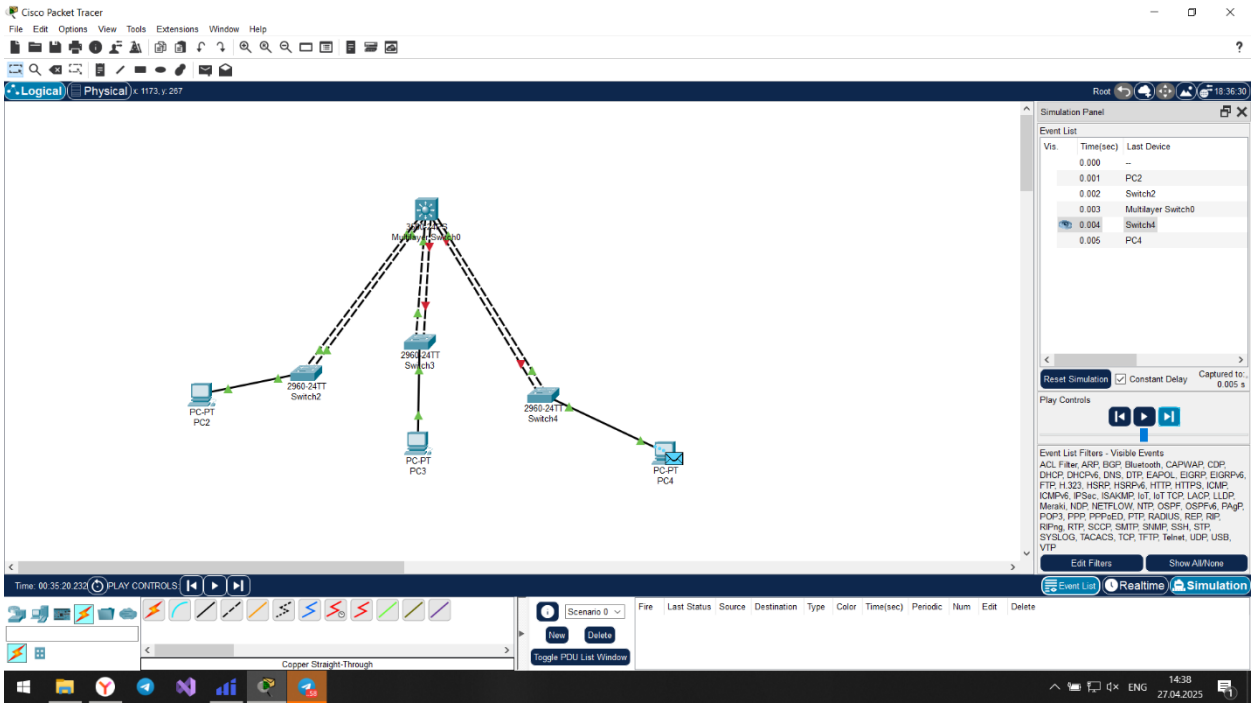

Cisco Packet Tracer
PC2
Physical Config Desktop Programming Attributes
Command Prompt
Ping statistics for 192.168.3.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.3.2
Pinging 192.168.3.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.3.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.1.4
Pinging 192.168.1.4 with 32 bytes of data:
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.1.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 192.168.1.4
Pinging 192.168.1.4 with 32 bytes of data:
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=9ms TTL=128
Reply from 192.168.1.4: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 9ms, Average = 3ms
C:\>
Logical Physical
2960-24TT Switch2
2960-24TT Switch3
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Top
ENG
14:36
27.04.2025


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical x: 636, y: 531
2960-24TT Switch3
2960-24TT Switch2
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
Time: 00:35:04
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top
ENG
14:36
27.04.2025


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical x: 1546, y: 75
Root
18:10:30
2960-24TT Switch3
2960-24TT Switch2
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
Simulation Panel
Event List
Vis. Time(sec) Last Device
0.000 --
0.001 PC2
0.002 Switch2
0.003 Multilayer Switch0
0.004 Switch4
0.005 PC4
Reset Simulation
Constant Delay
Captured to: 0.005 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: 00:35:20.232
PLAY CONTROLS
Event List
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
ENG
14:37
27.04.2025


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Root
Simulation Panel
Event List
Vis. Time(sec) Last Device
0.000 --
0.001 PC2
0.002 Switch2
0.003 Multilayer Switch0
0.004 Switch4
0.005 PC4
Reset Simulation
Constant Delay
Captured to: 0.005 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: 00:35:20.232
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
Copper Straight-Through
2960-24TT Switch2
2960-24TT Switch3
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
ENG
14:38
27.04.2025


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Root
Simulation Panel
Event List
Vis. Time(sec) Last Device
0.000 --
0.001 PC2
0.002 Switch2
0.003 Multilayer Switch0
0.004 Switch4
0.005 PC4
Reset Simulation
Constant Delay
Captured to: 0.005 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: 00:35:20.232
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
Copper Straight-Through
2960-24TT Switch2
2960-24TT Switch3
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
ENG
14:38
27.04.2025


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Simulation Panel
Event List
Vis. Time(sec) Last Device
0.000 --
0.001 PC2
0.002 Switch2
0.003 Multilayer Switch0
0.004 Switch4
0.005 PC4
Reset Simulation
Constant Delay
Play Controls
Event List Filters - Visible Events
Edit Filters
Show All/None
Realtime
Simulation
2960-24TT Switch2
2960-24TT Switch3
2960-24TT Switch4
PC-PT PC2
PC-PT PC3
PC-PT PC4
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
ENG
14:38
27.04.2025