

Отчет по Практической работе 7

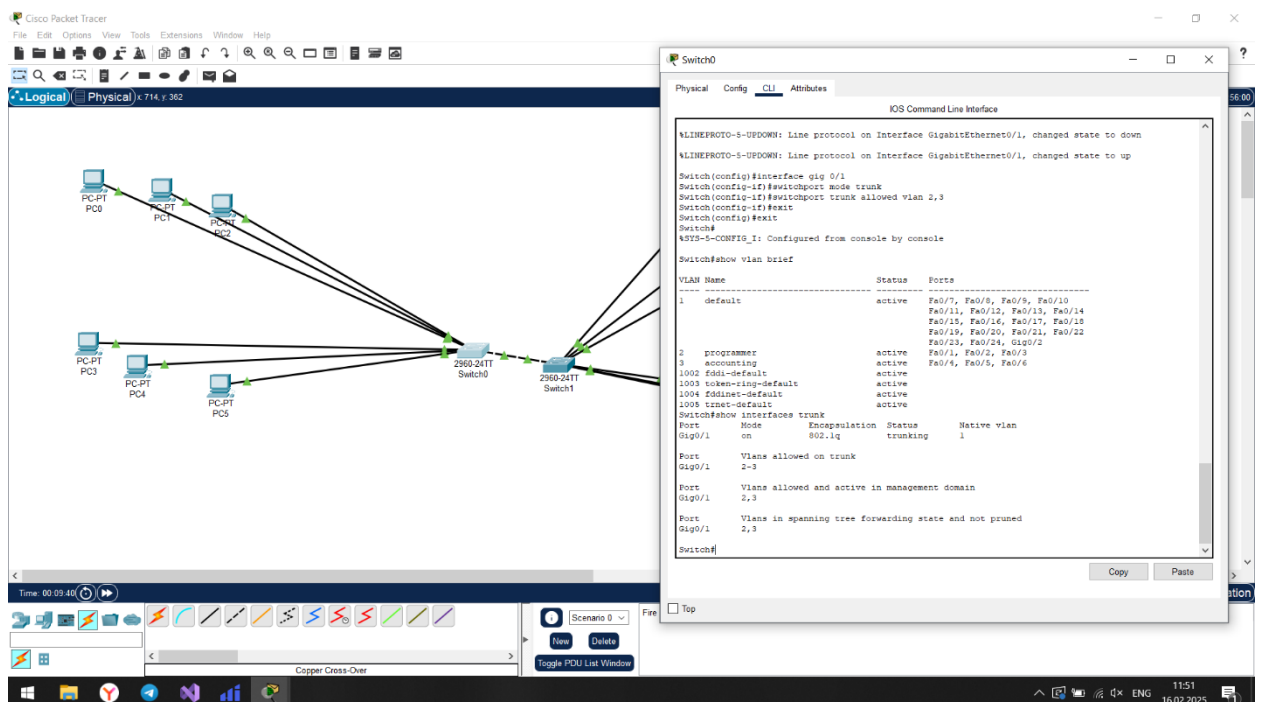
Землянский В. ИС223

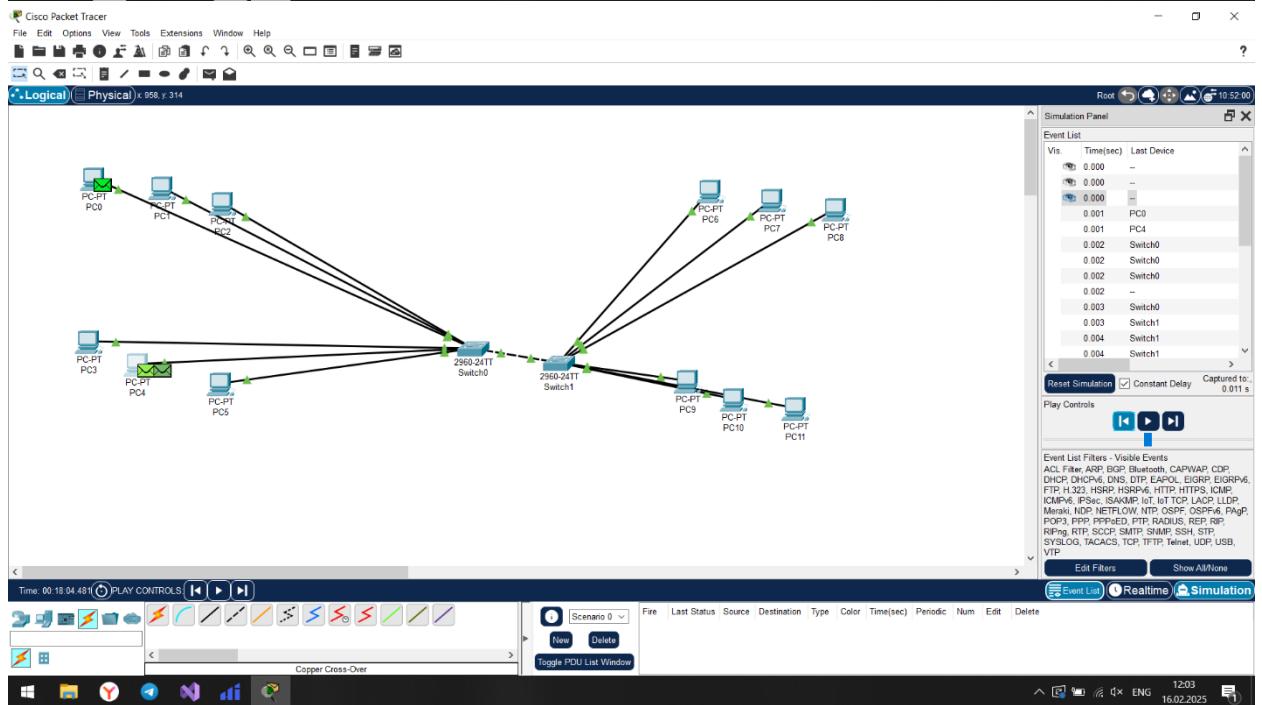
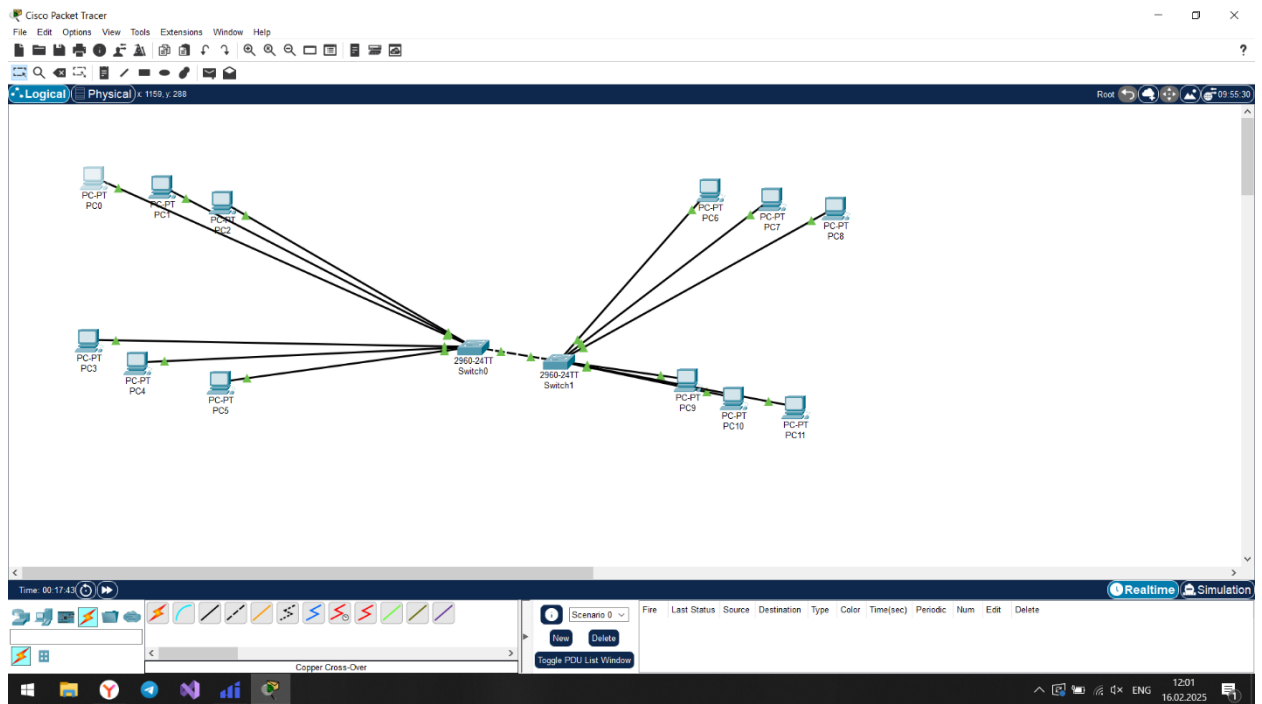
Цель работы: Настроить магистральные (trunk) порты для соединения vlan между двумя этажами.

1. Ход выполнения работы

- Создал сеть из двух коммутаторов и подключил к ним компьютеры отделов.
- Настроил vlan 2 (программисты) и vlan 3 (бухгалтерия) на обоих коммутаторах.
- Назначил адреса компьютерам внутри vlan.
- Соединил коммутаторы перекрёстным кабелем.
- Настроил порты gigabit ethernet 0/1 в режим trunk, разрешив передачу VLAN 2 и 3.
- Проверил работу сети с помощью show vlan brief и show interfaces trunk(Показал на скринах).
- Провел тестирование связи с помощью ping между компьютерами в одной vlan на разных этажах.

Скрины:





Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1335 y 203

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	-
	0.000	-
	0.000	-
	0.001	PC0
	0.001	PC4
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.003	Switch0
	0.003	Switch1
	0.004	Switch1
	0.004	Switch1

Reset Simulation Constant Delay Captured to: 0.011 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, IRT, IRT, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Time: 00:18:04.481 PLAY CONTROLS

Copper Cross-Over

12:03 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1636 y 473

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	-
	0.000	-
	0.000	-
	0.001	PC0
	0.001	PC4
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.003	Switch0
	0.003	Switch1
	0.004	Switch1
	0.004	Switch1

Reset Simulation Constant Delay Captured to: 0.011 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, IRT, IRT, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Time: 00:18:04.481 PLAY CONTROLS

Copper Cross-Over

12:03 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1061 y 399

Simulation Panel

Event List

Vis	Time(sec)	Last Device
	0.000	-
	0.000	-
	0.000	-
	0.001	PC0
	0.001	PC4
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.002	-
	0.003	Switch0
	0.003	Switch1
	0.004	Switch1
	0.004	Switch1

Reset Simulation Constant Delay Captured to: 0.011 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, Icmp, Icmpv6, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Copper Cross-Over

Time: 00:18:04.481 PLAY CONTROLS

12:04 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1056 y 451

Simulation Panel

Event List

Vis	Time(sec)	Last Device
	0.001	PC0
	0.001	PC4
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.002	-
	0.003	Switch0
	0.003	Switch1
	0.004	Switch1
	0.004	Switch1
	0.004	Switch1
	0.004	PC5
	0.005	PC10

Reset Simulation Constant Delay Captured to: 0.011 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, Icmp, Icmpv6, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Copper Cross-Over

Time: 00:18:04.481 PLAY CONTROLS

12:04 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1545 y 450

Simulation Panel

Event List

Vis	Time(sec)	Last Device
0.002	0.002	Switch0
0.002	0.002	Switch0
0.002	0.002	Switch0
0.002	0.002	Switch0
0.003	0.003	Switch0
0.003	0.003	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.005	0.005	PC10
0.006	0.006	Switch1
0.006	0.006	Switch1

Reset Simulation Constant Delay Captured to: 0.011 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, Icmp, Icmpv6, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, SIP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Time: 00:18:04.481 PLAY CONTROLS

Copper Cross-Over

12:04 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1555 y 451

Simulation Panel

Event List

Vis	Time(sec)	Last Device
0.002	0.002	Switch0
0.002	0.002	Switch0
0.003	0.003	Switch0
0.003	0.003	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.004	0.004	Switch1
0.005	0.005	PC10
0.005	0.005	Switch1
0.006	0.006	Switch1
0.006	0.006	Switch0
0.007	0.007	Switch0

Reset Simulation Constant Delay Captured to: 0.011 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, Icmp, Icmpv6, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, SIP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Time: 00:18:04.481 PLAY CONTROLS

Copper Cross-Over

12:04 16.02.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1002 y 557

Simulation Panel

Event List

Vis	Time(sec)	Last Device
	0.003	Switch0
	0.003	Switch1
	0.004	Switch1
	0.004	Switch1
	0.004	Switch1
	0.004	PC8
	0.005	PC10
	0.005	Switch1
	0.006	Switch1
	0.006	Switch0
	0.007	
	0.008	PC4

Reset Simulation Constant Delay Captured to: 0.011 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, iST, iST TCP, LACP, LLDP, Meraki, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, RDP, RIPv2, RIPv3, RIPv6, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

New Delete

Toggle PDU List Window

Time: 00:18:04.481

PLAY CONTROLS

Copper Cross-Over

12:04 16.02.2025