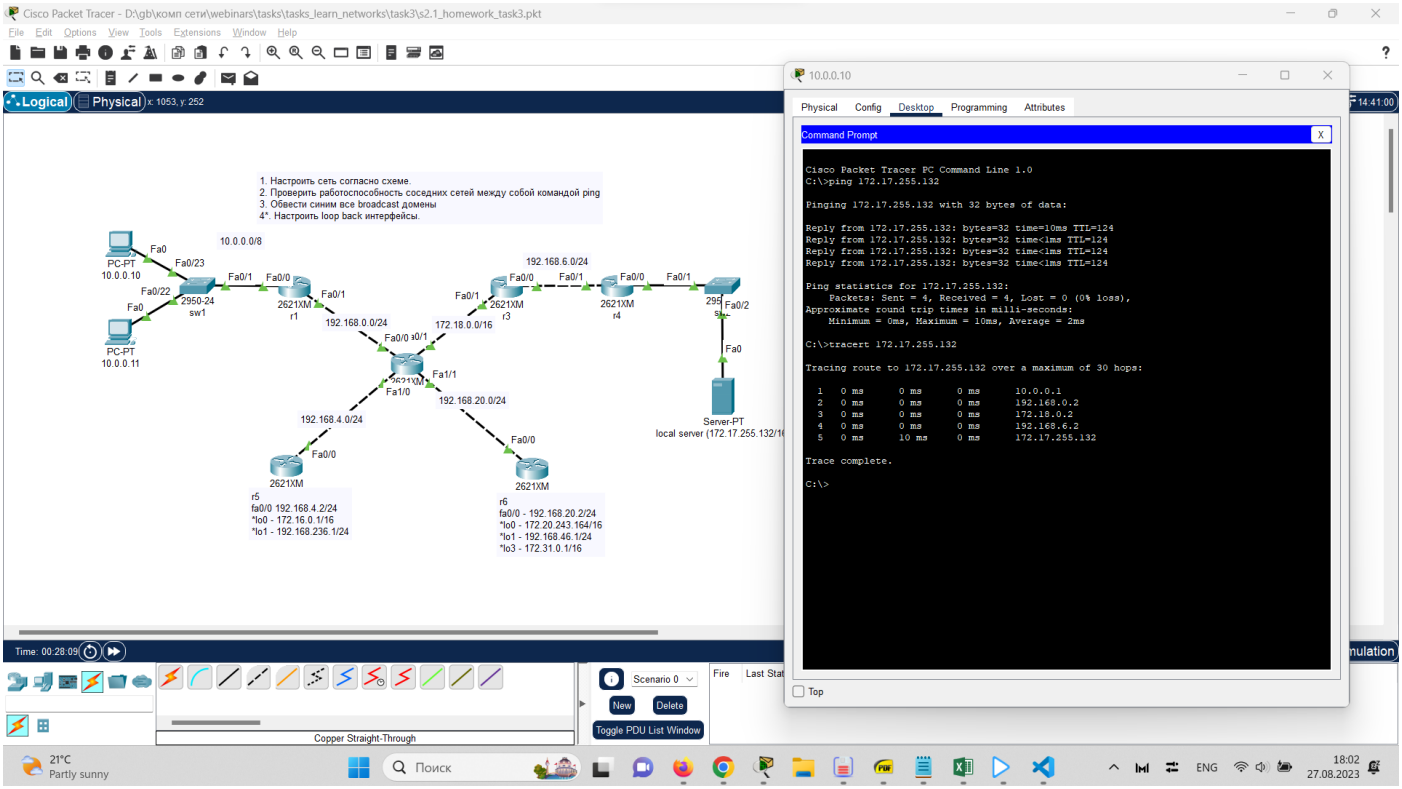
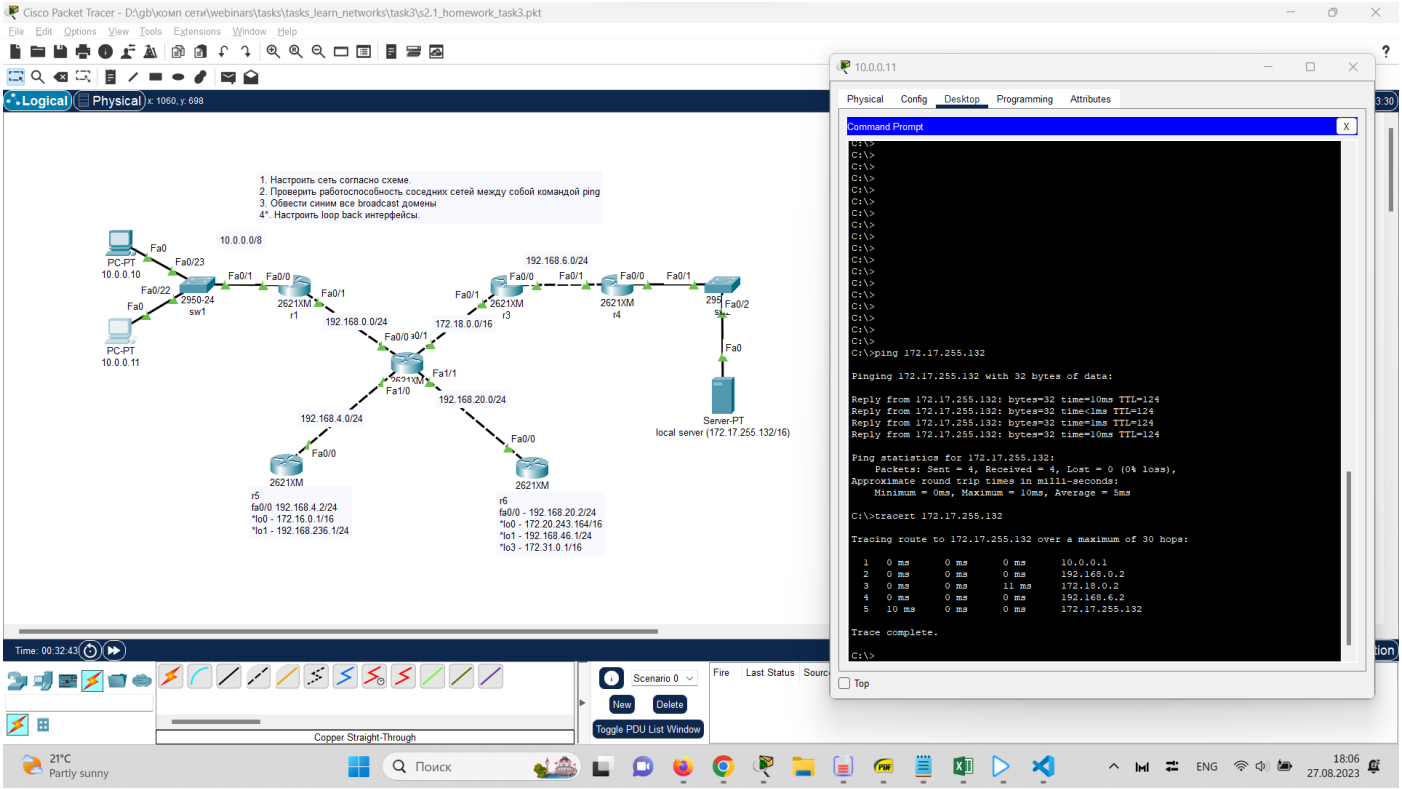
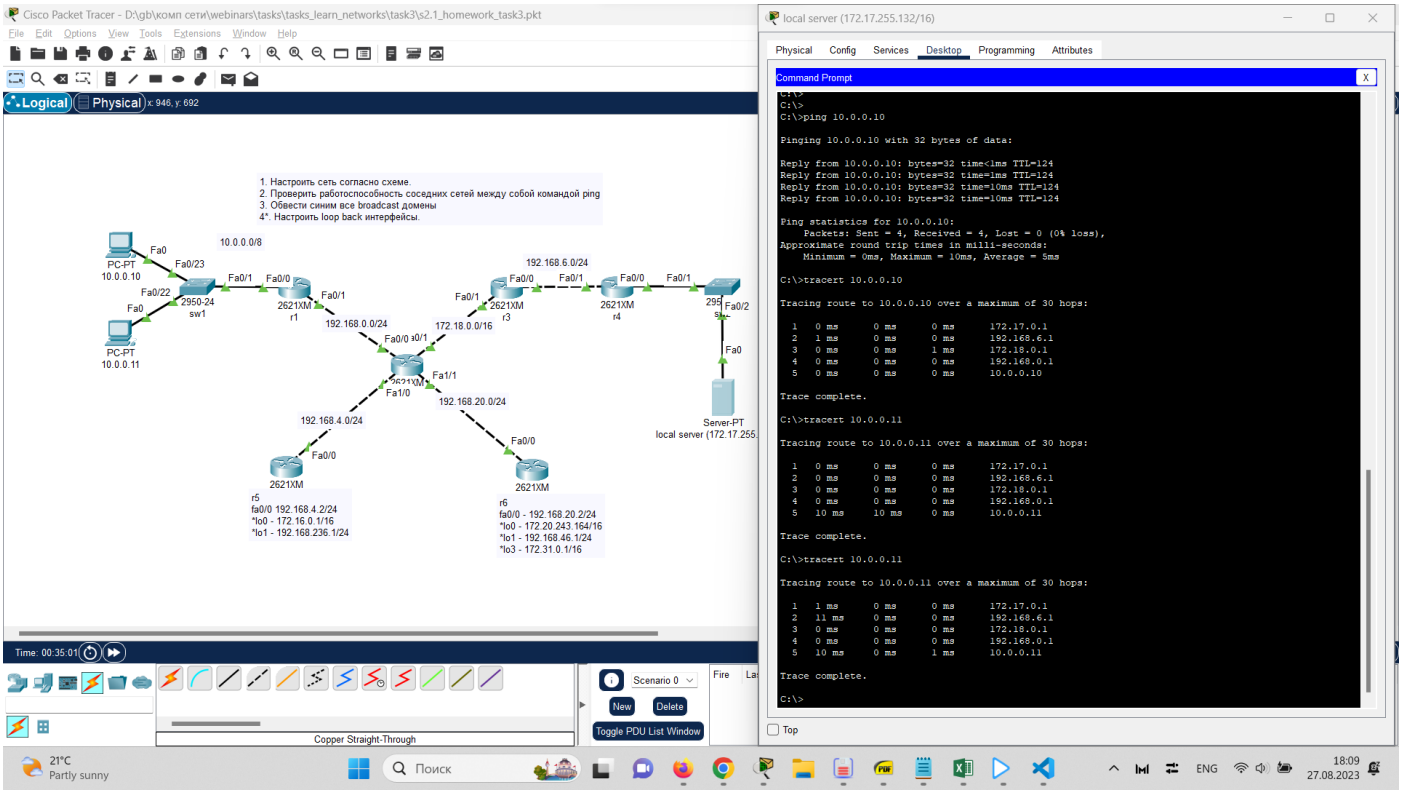
Урок 3. Технология Ethernet. Протокол IP.

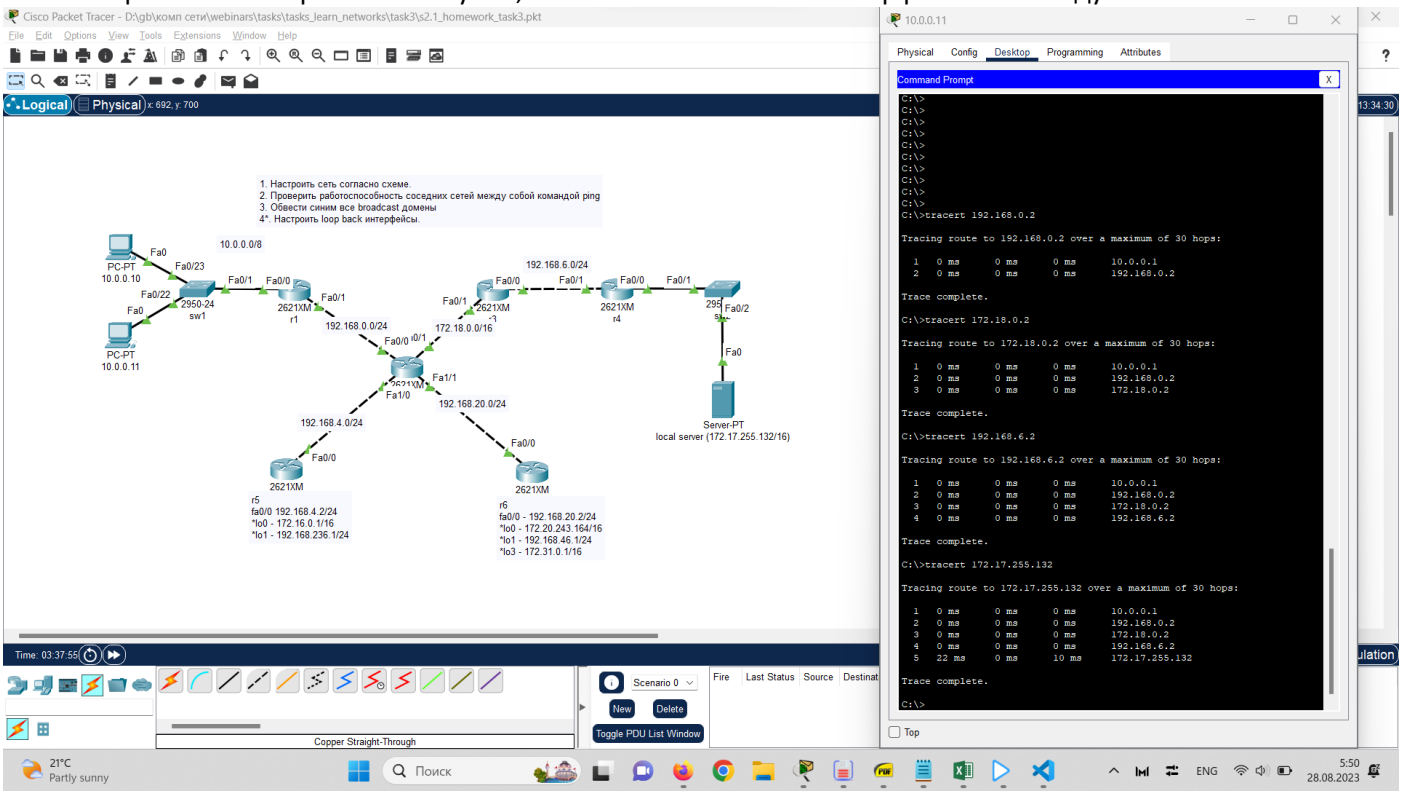
Условие:
1. Усложняем сеть из предыдущего домашнего задания
Используя только статическую маршрутизацию связать сеть компов и сервера
2. Проверить работоспособность сети командой ping с компов до сервера и обратно



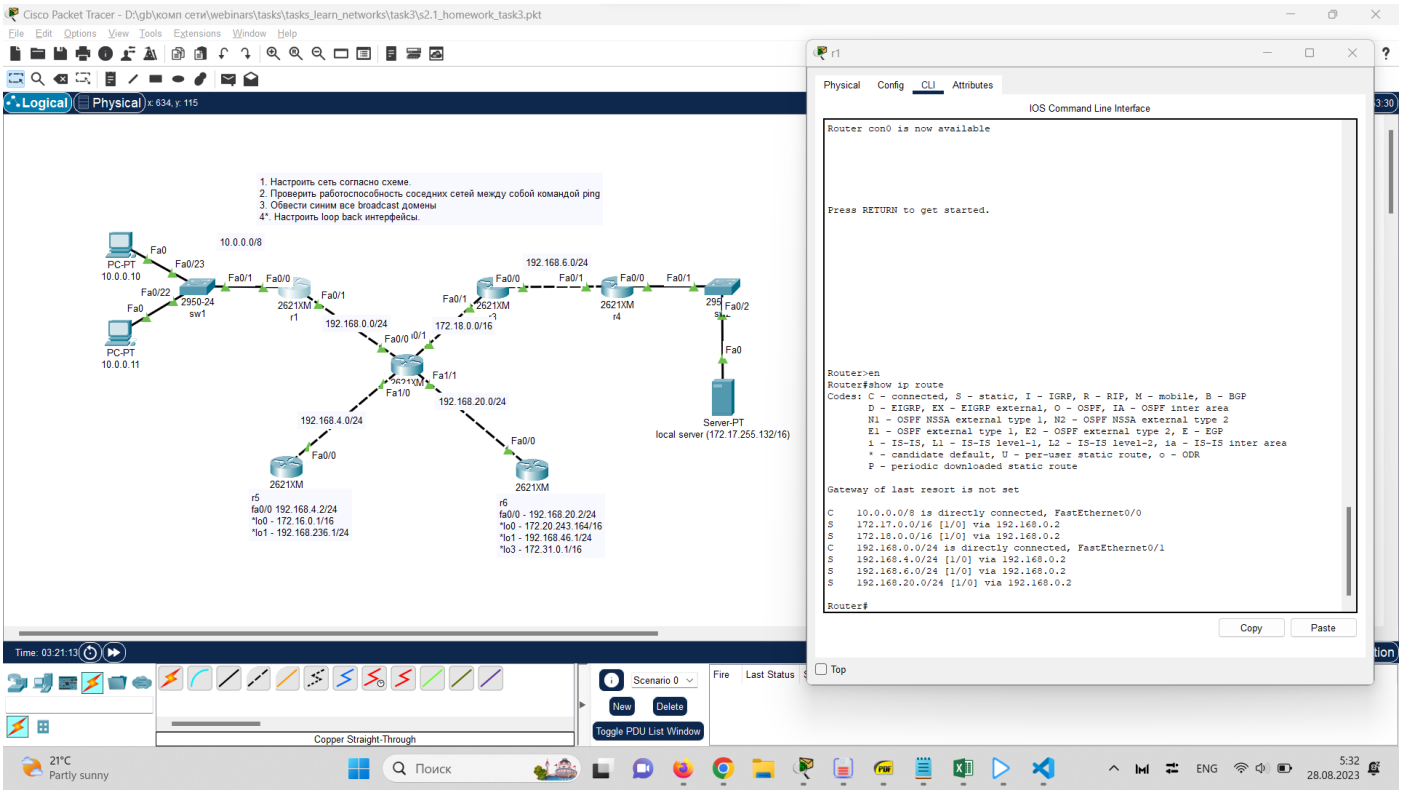


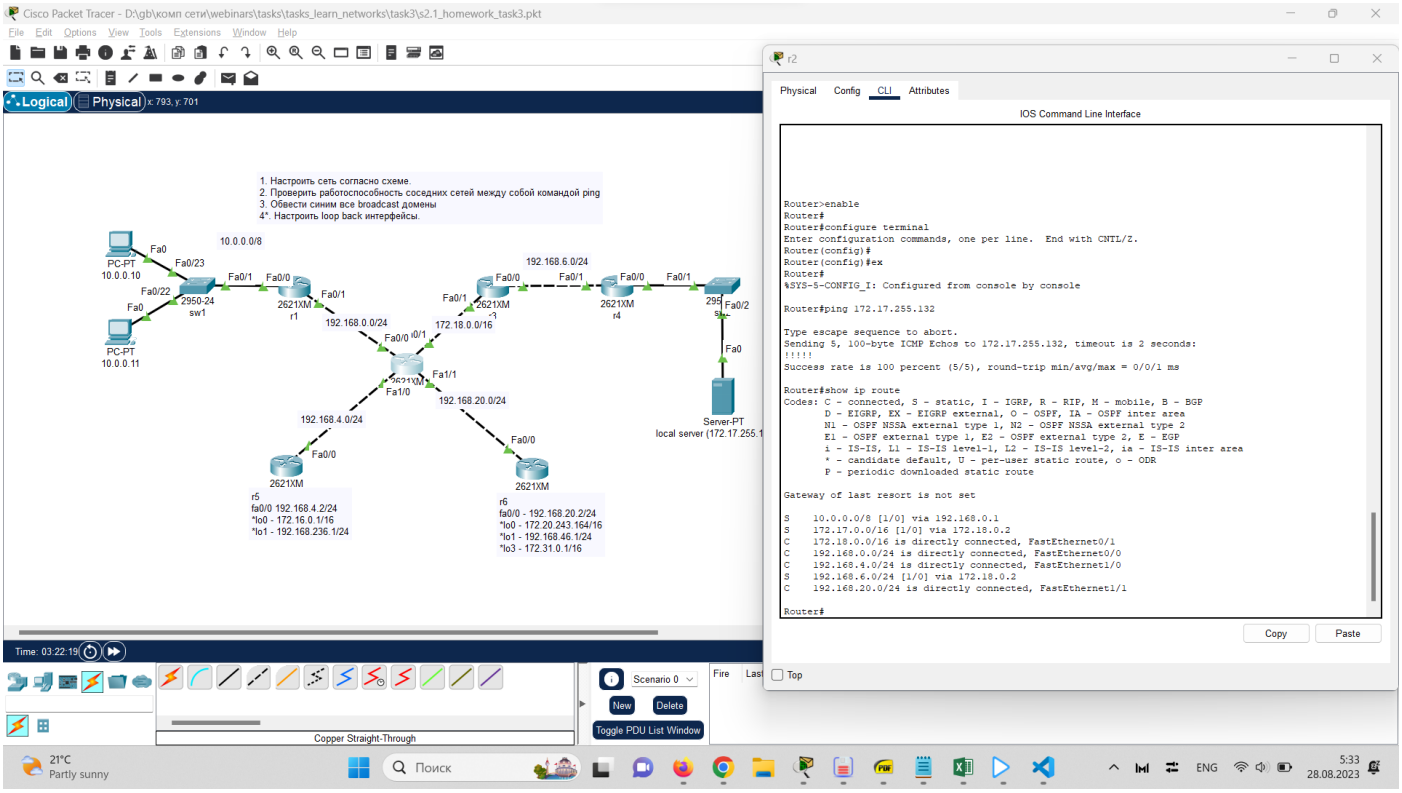


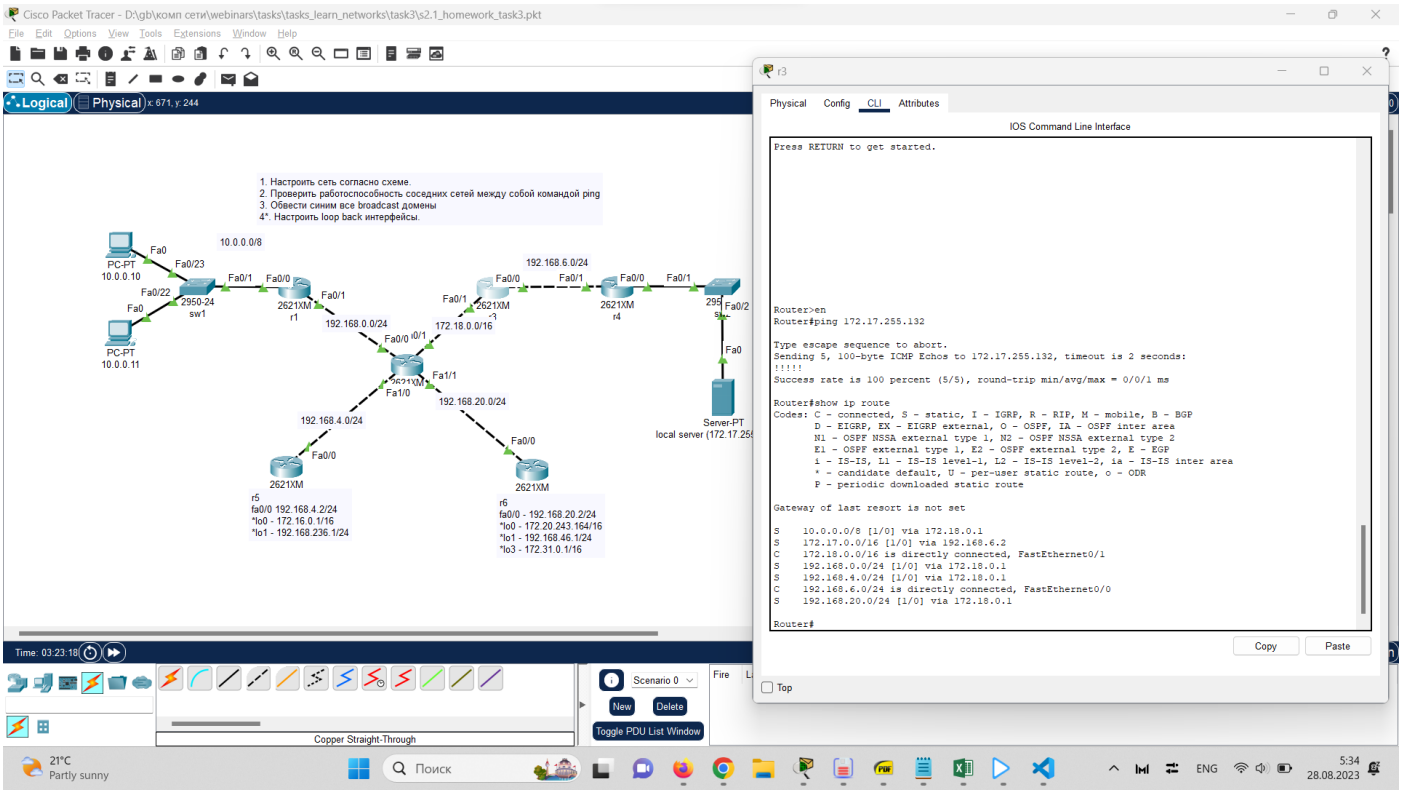
2.1. * Попробовать настроить статику так, чтобы пинговались все интерфейсы отовсюду.

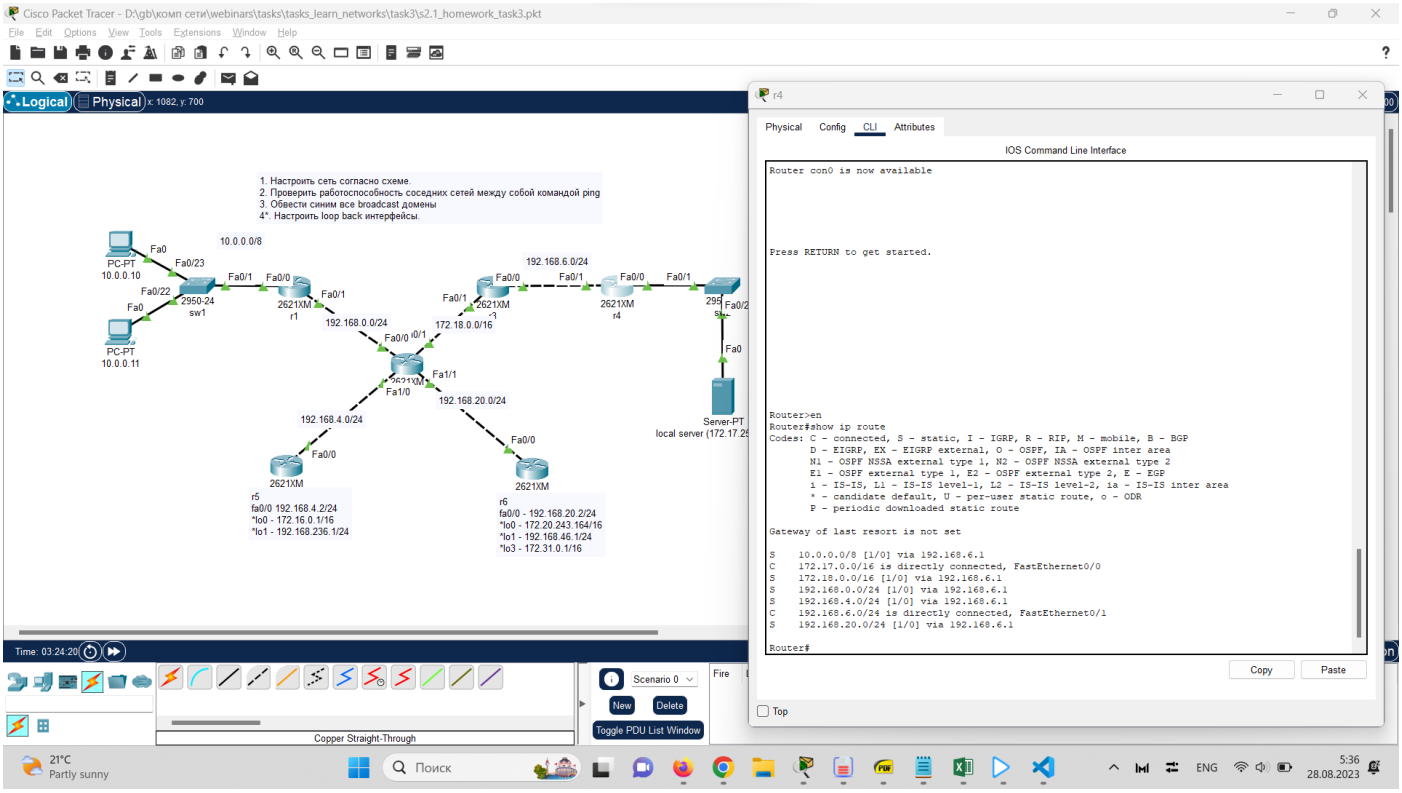


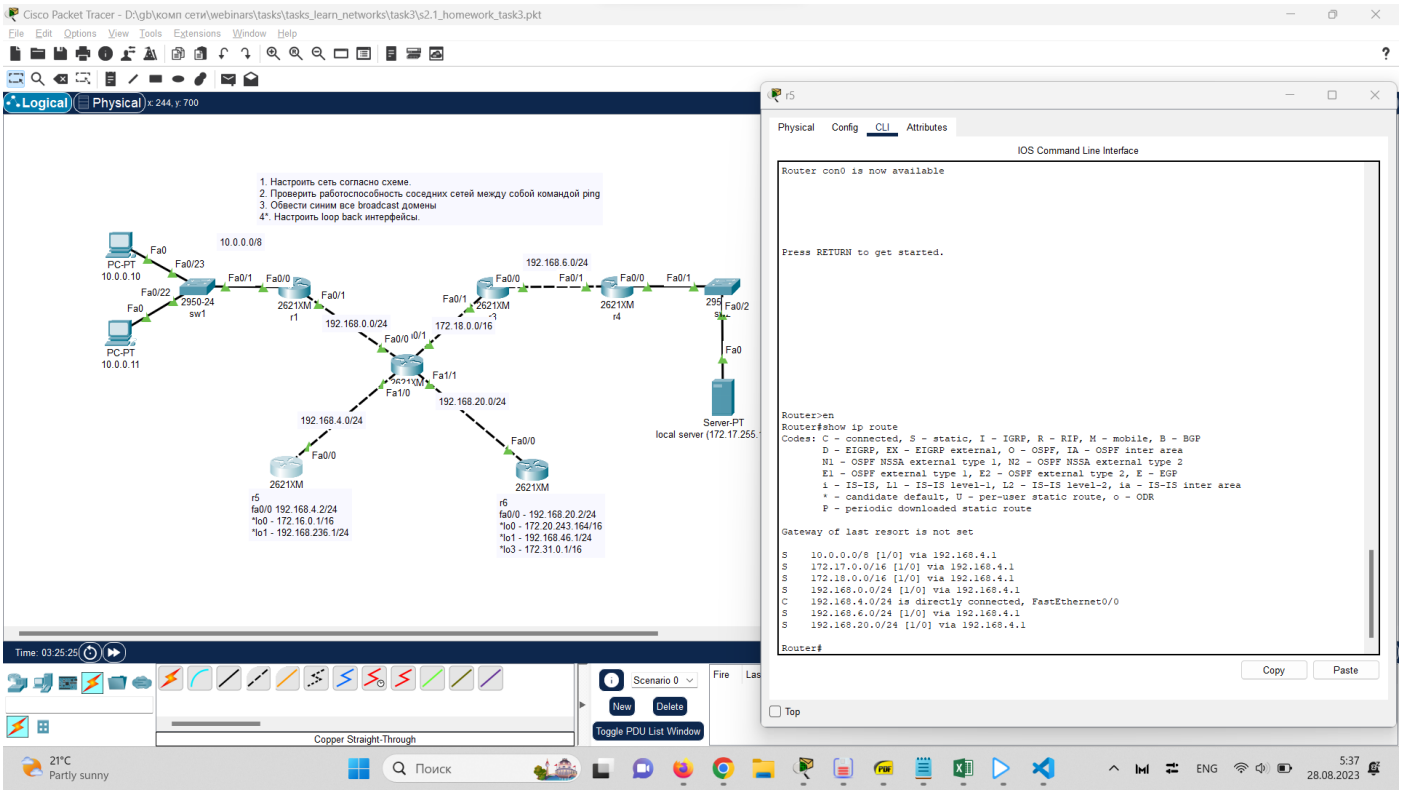
3. Изучить получившиеся таблицы маршрутизации

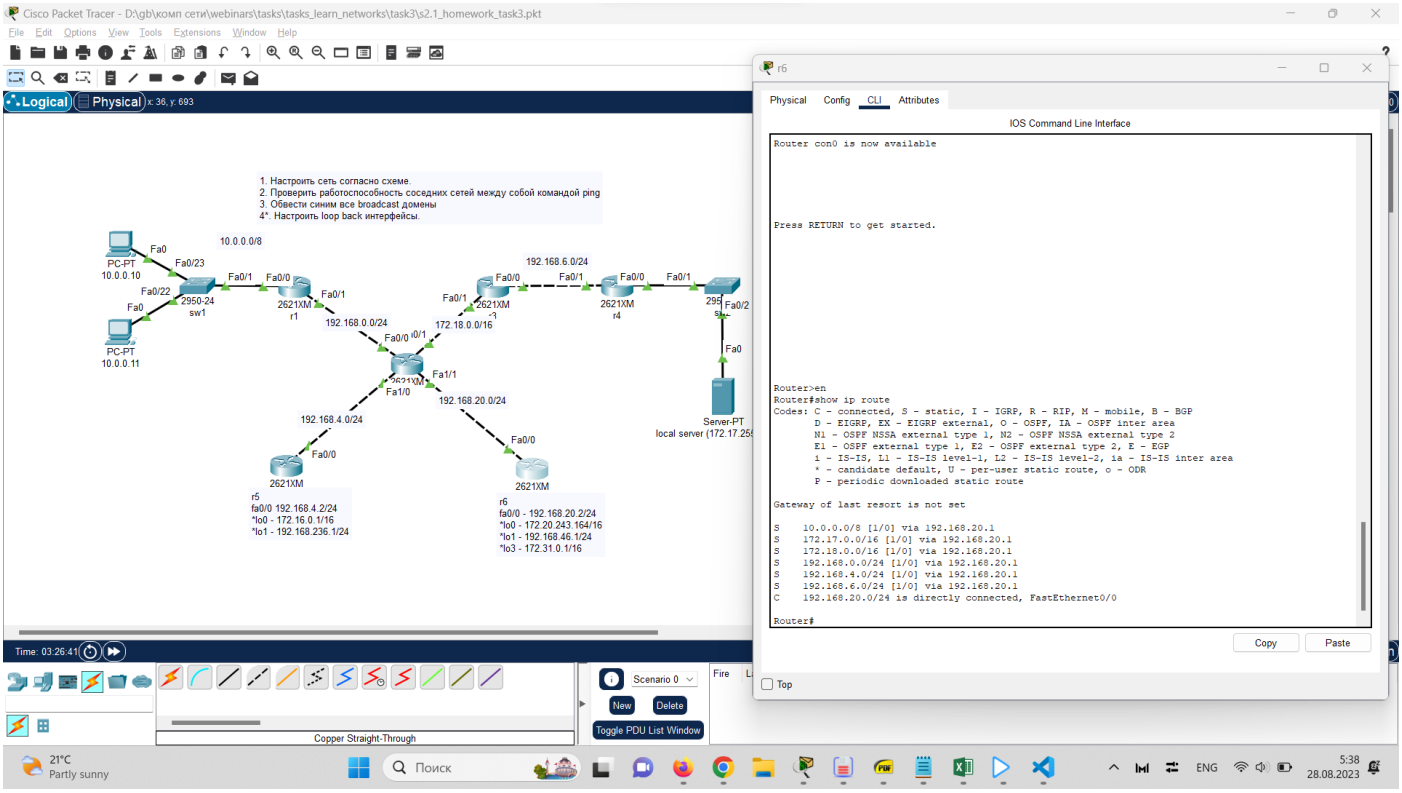

Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
r1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router con0 is now available
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
C 10.0.0.0/8 is directly connected, FastEthernet0/0
S 172.17.0.0/16 [1/0] via 192.168.0.2
S 172.18.0.0/16 [1/0] via 192.168.0.2
C 192.168.0.0/24 is directly connected, FastEthernet0/1
S 192.168.4.0/24 [1/0] via 192.168.0.2
S 192.168.6.0/24 [1/0] via 192.168.0.2
S 192.168.20.0/24 [1/0] via 192.168.0.2
Router#
Copy
Paste
Top
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.4.0/24
192.168.20.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r4
Server-PT local server (172.17.255.132/16)
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Logical
Physical
Time: 03:21:13
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
21°C
Partly sunny
Поиск
ENG
5:32
28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
r2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#ping 172.17.255.132
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.255.132, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1 ms
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.0.1
S 172.17.0.0/16 [1/0] via 172.18.0.2
C 172.18.0.0/16 is directly connected, FastEthernet0/1
C 192.168.0.0/24 is directly connected, FastEthernet0/0
C 192.168.4.0/24 is directly connected, FastEthernet1/0
S 192.168.6.0/24 [1/0] via 172.18.0.2
C 192.168.20.0/24 is directly connected, FastEthernet1/1
Router#
Copy
Paste
Top
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.4.0/24
192.168.20.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r4
Server-PT
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Logical
Physical
Time: 03:22:19
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
21°C
Partly sunny
Поиск
ENG
5:33
28.08.2023

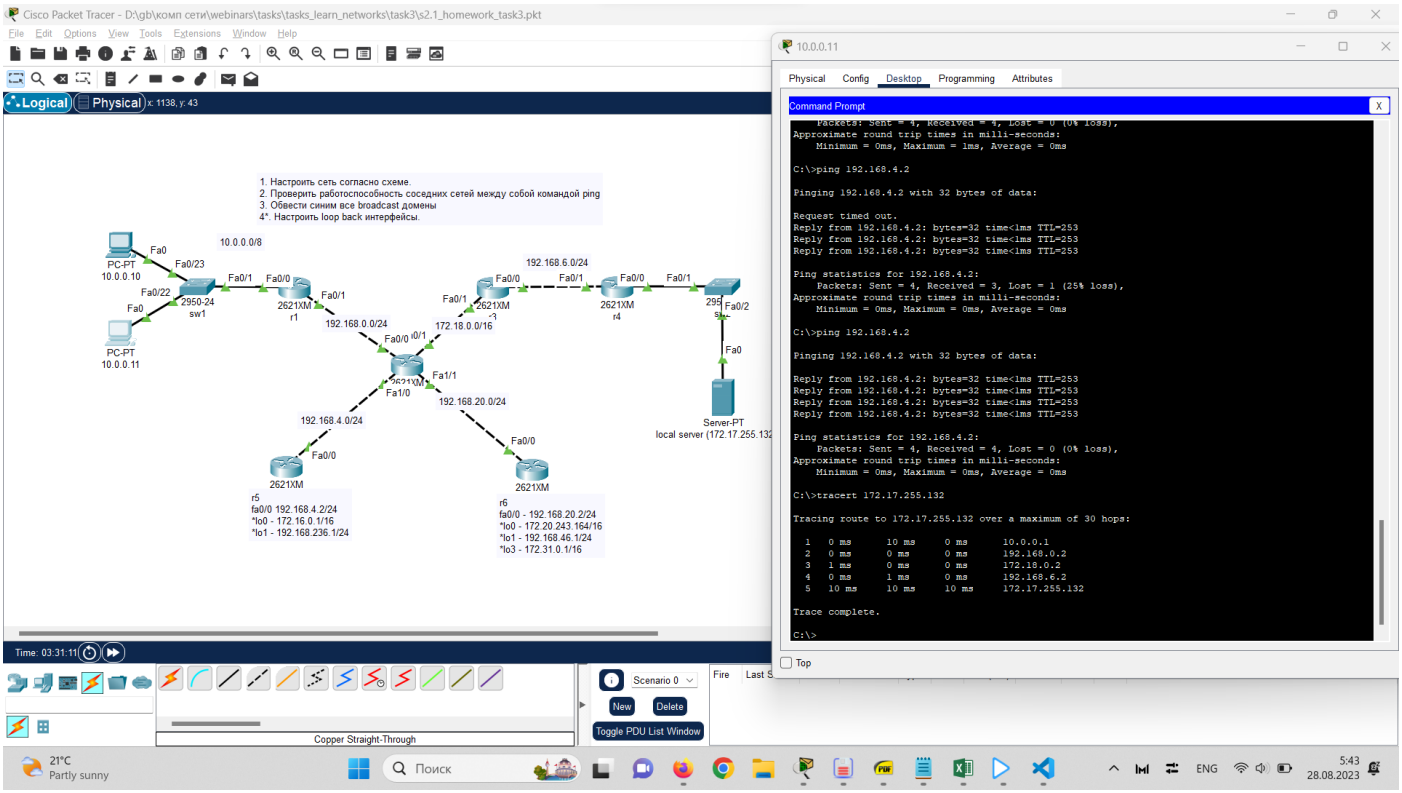

Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 671, y: 244
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r4
192.168.0.0/24
172.18.0.0/16
192.168.6.0/24
192.168.4.0/24
192.168.20.0/24
Server-PT local server (172.17.25
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Time: 03:23:18
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
r3
Physical Config CLI Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#ping 172.17.255.132
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.17.255.132, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1 ms
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 172.18.0.1
S 172.17.0.0/16 [1/0] via 192.168.6.2
C 172.18.0.0/16 is directly connected, FastEthernet0/1
S 192.168.0.0/24 [1/0] via 172.18.0.1
S 192.168.4.0/24 [1/0] via 172.18.0.1
C 192.168.6.0/24 is directly connected, FastEthernet0/0
S 192.168.20.0/24 [1/0] via 172.18.0.1
Router#
Copy
Paste
Top
21°C Partly sunny
Поиск
ENG
5:34
28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 1082, y: 700
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r4
192.168.0.0/24
172.18.0.0/16
192.168.6.0/24
192.168.4.0/24
192.168.20.0/24
Server-PT local server (172.17.25
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Time: 03:24:20
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
r4
Physical Config CLI Attributes
IOS Command Line Interface
Router con0 is now available
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.6.1
C 172.17.0.0/16 is directly connected, FastEthernet0/0
S 172.18.0.0/16 [1/0] via 192.168.6.1
S 192.168.0.0/24 [1/0] via 192.168.6.1
S 192.168.4.0/24 [1/0] via 192.168.6.1
C 192.168.6.0/24 is directly connected, FastEthernet0/1
S 192.168.20.0/24 [1/0] via 192.168.6.1
Router#
Copy
Paste
Top
21°C Partly sunny
Поиск
ENG
5:36
28.08.2023



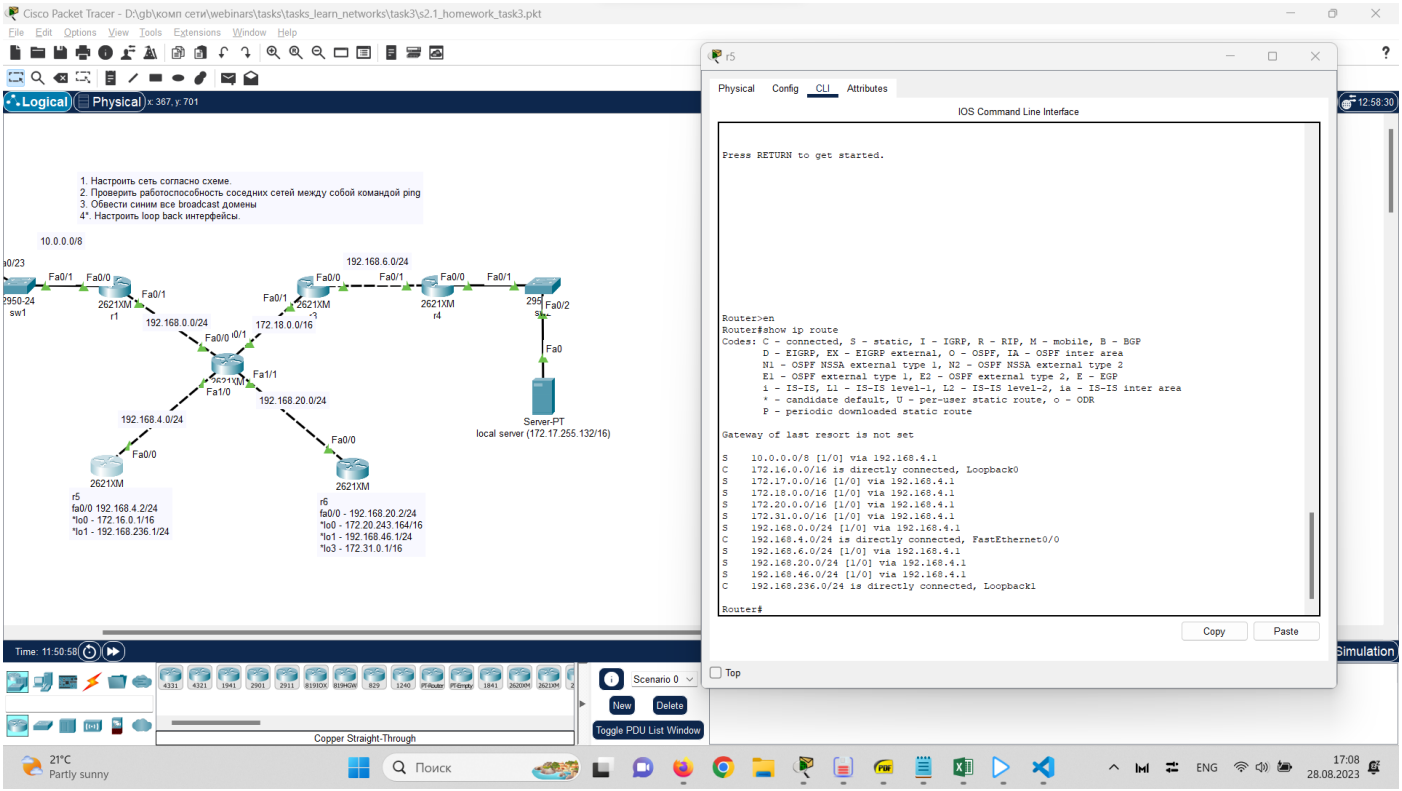


4. Попрактиковаться в использовании команды tracert

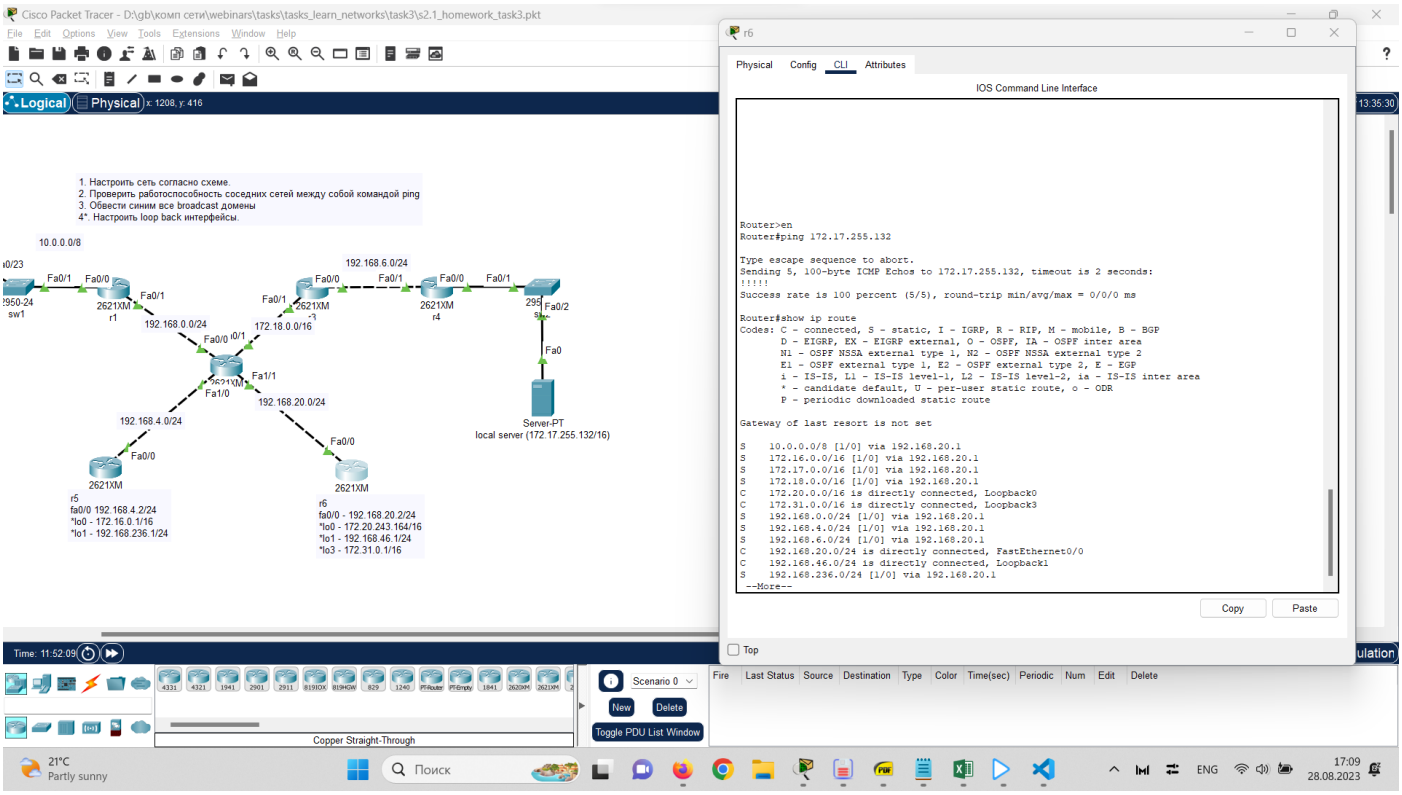


6.* Настроить loop back интерфейсы, статику до них и они тоже должны пинговаться

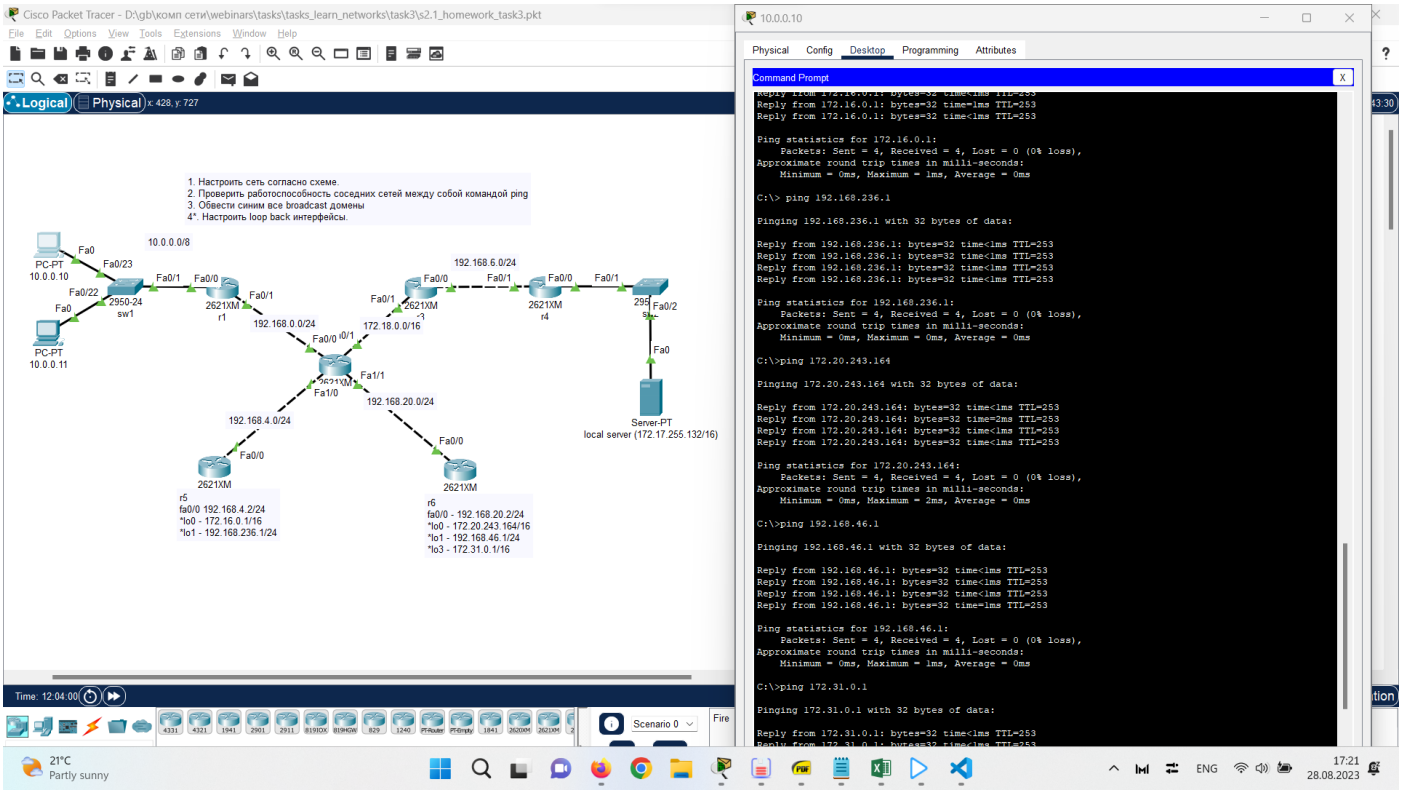
- lo0 - 172.16.0.1/16
- lo1 - 192.168.236.1/24

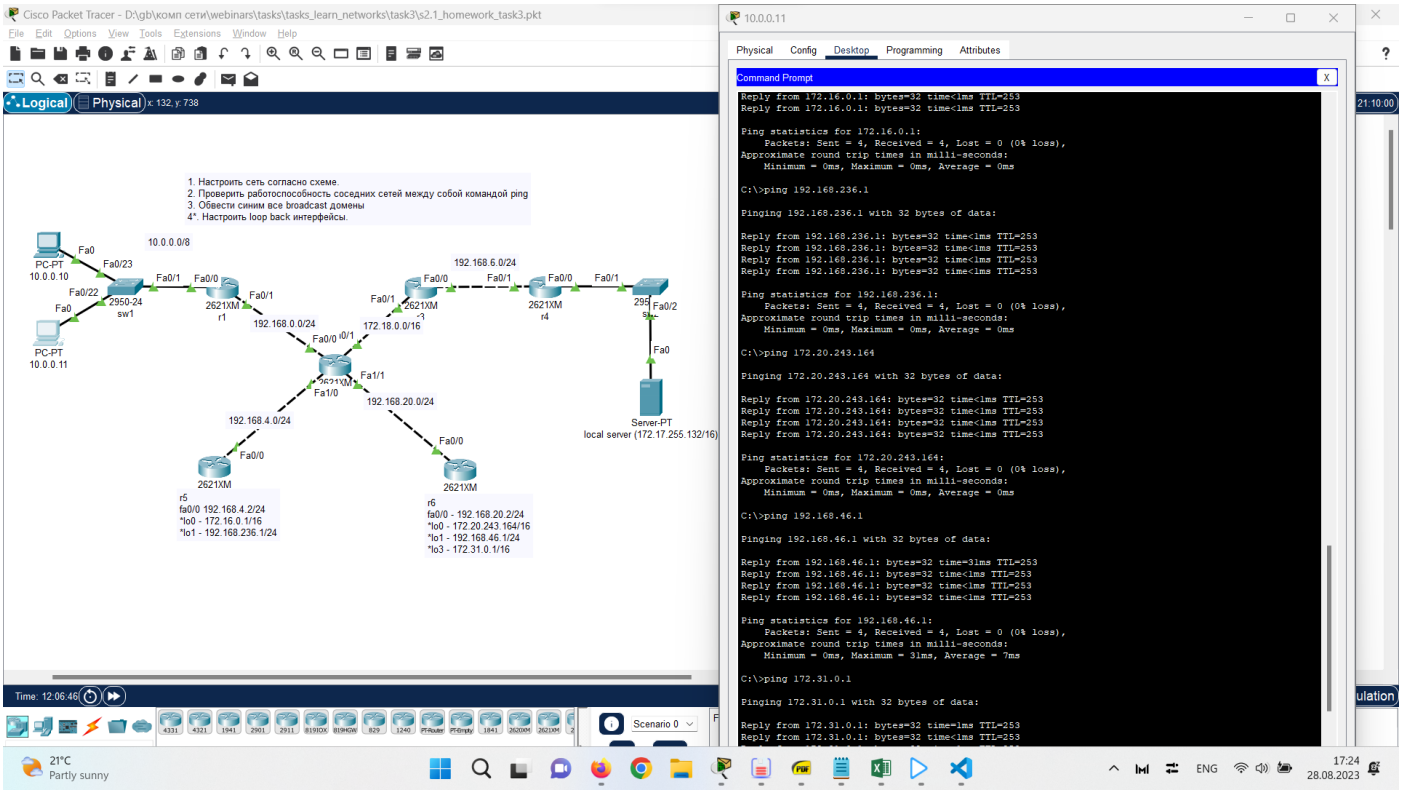


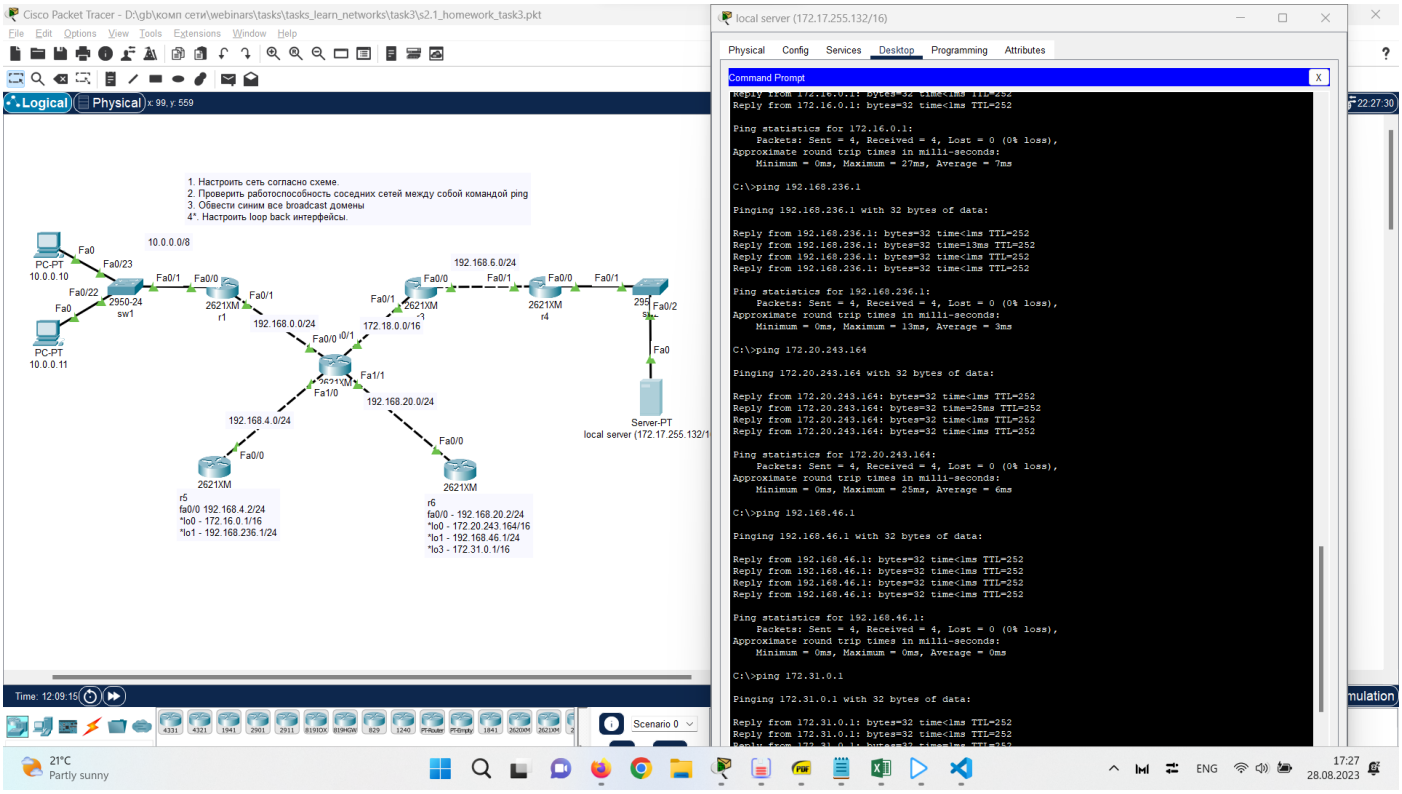
- lo0 - 172.20.243.164/16
- lo1 - 192.168.46.1/24
- lo3 - 172.31.0.1/16



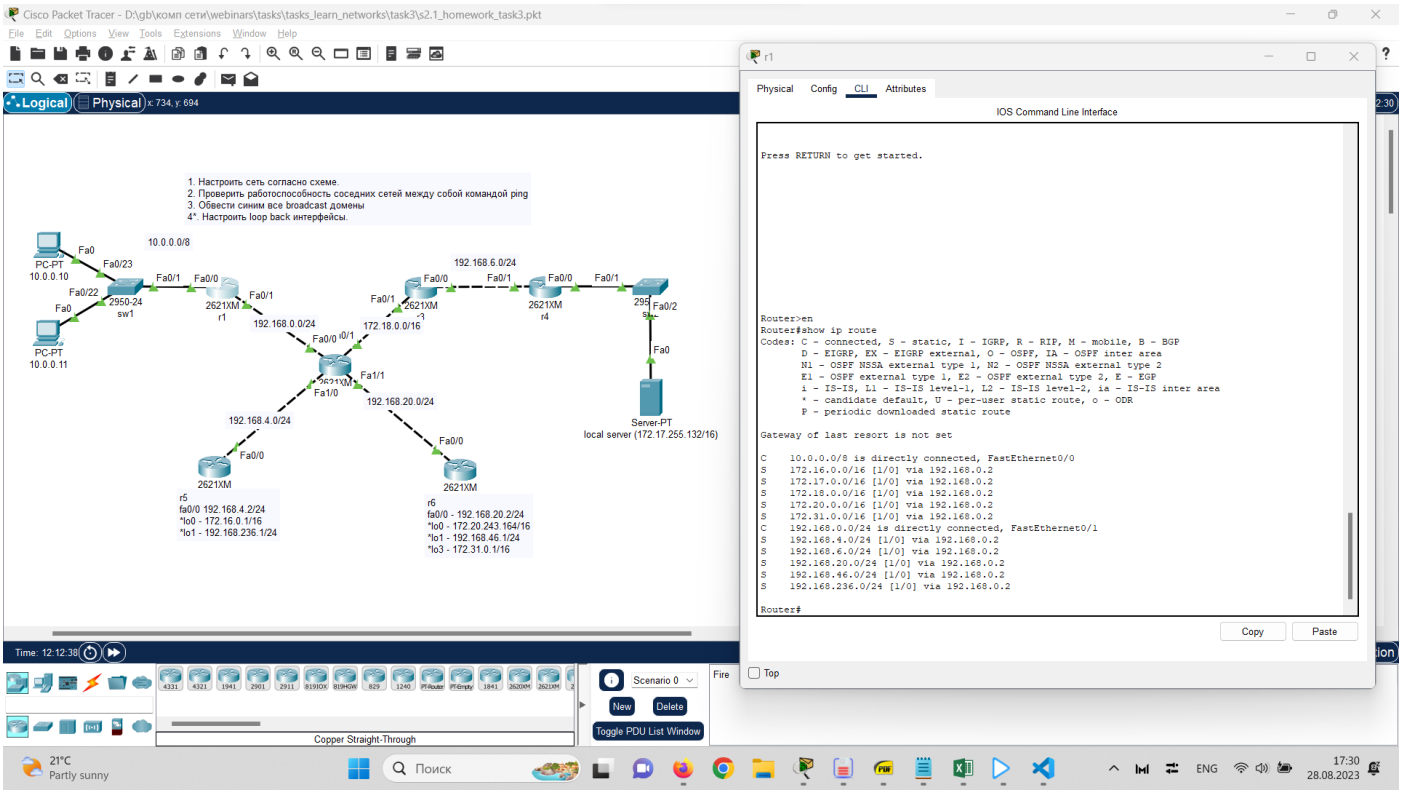
- ping loop back интерфейсов

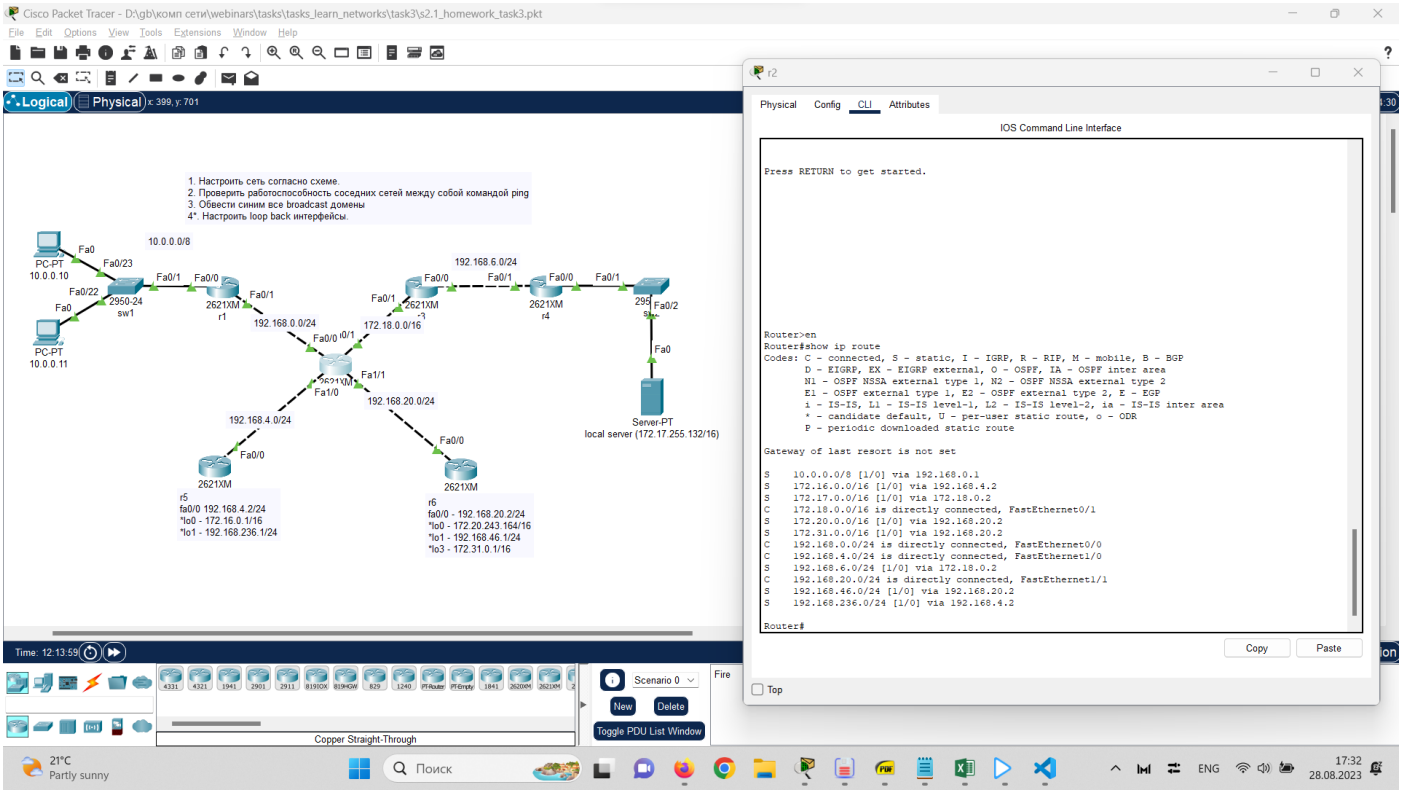


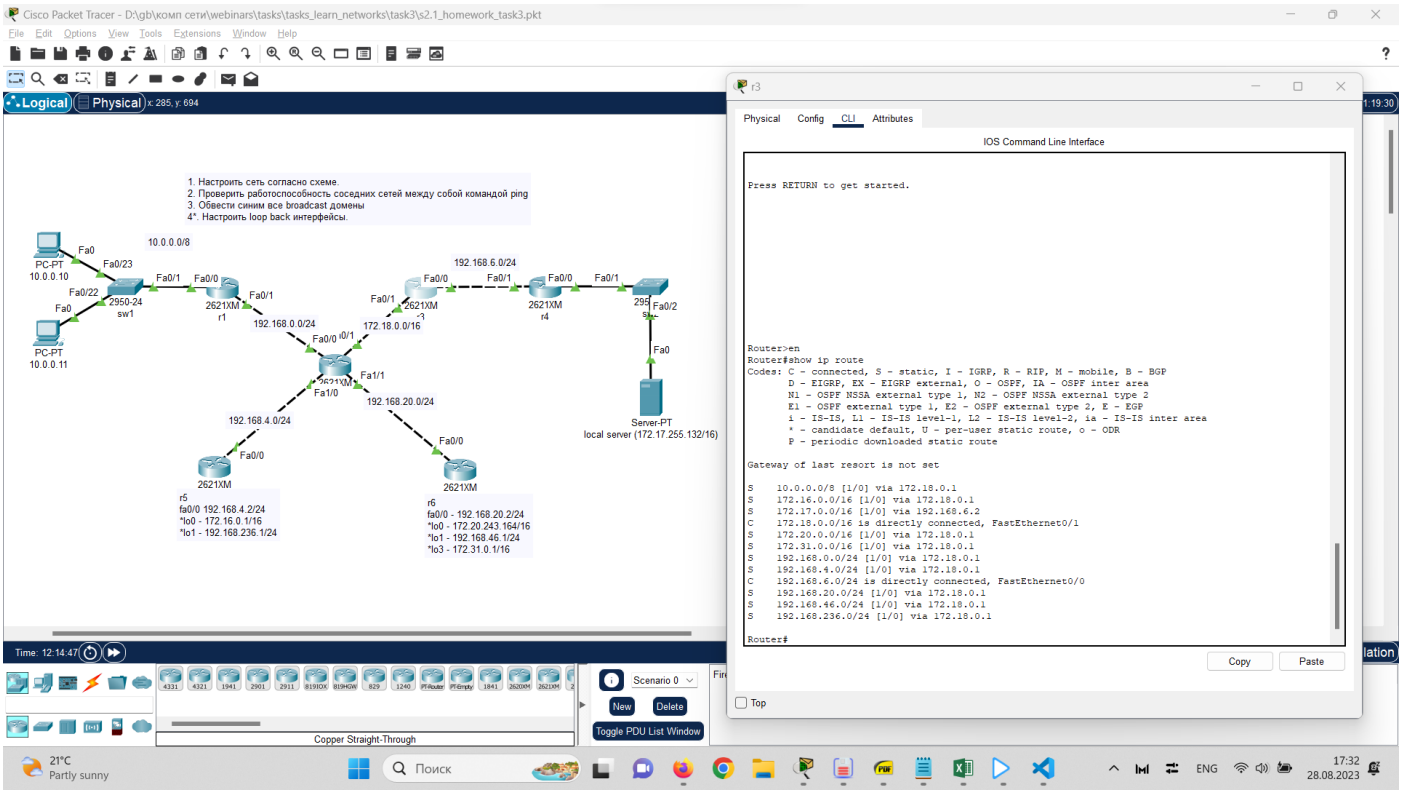


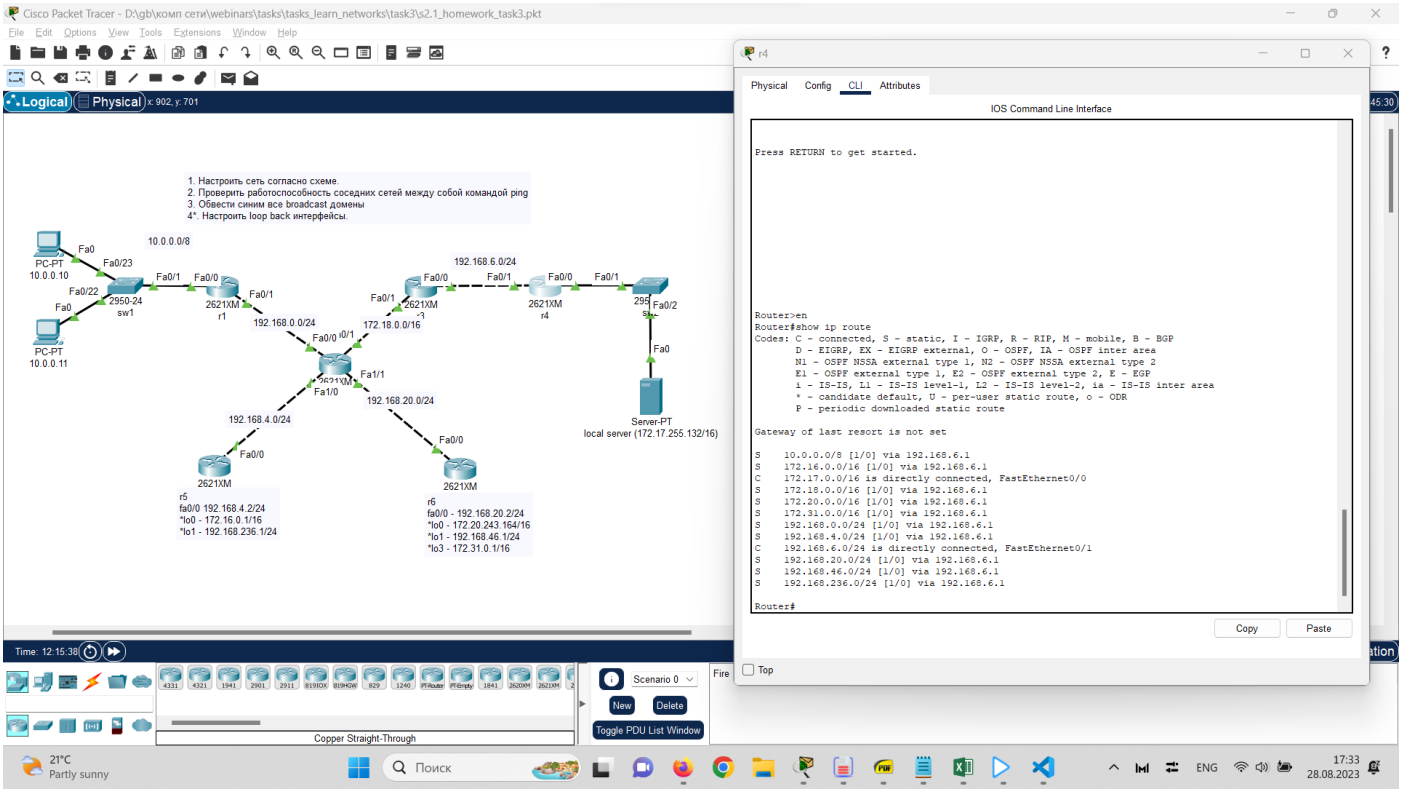


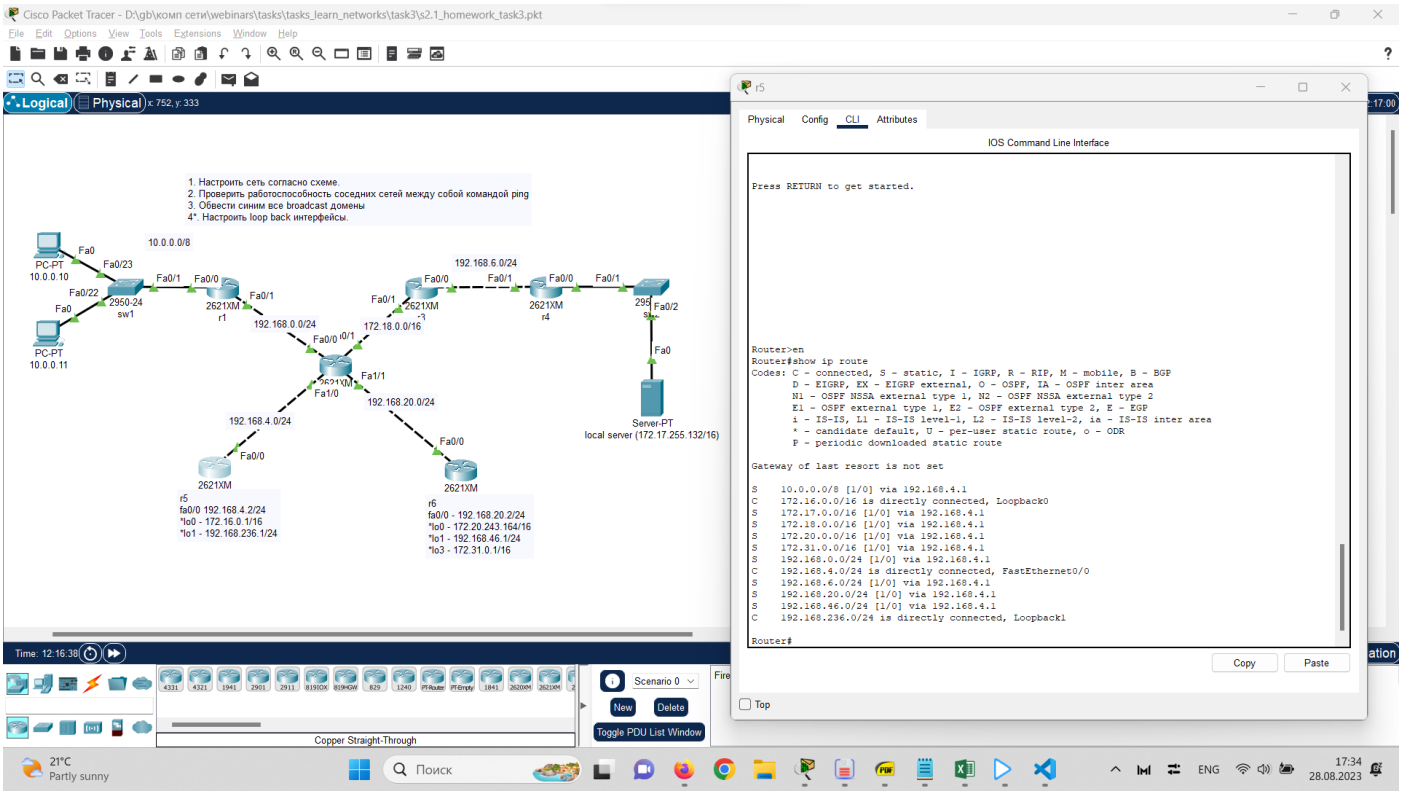
- получившиеся таблицы маршрутизации

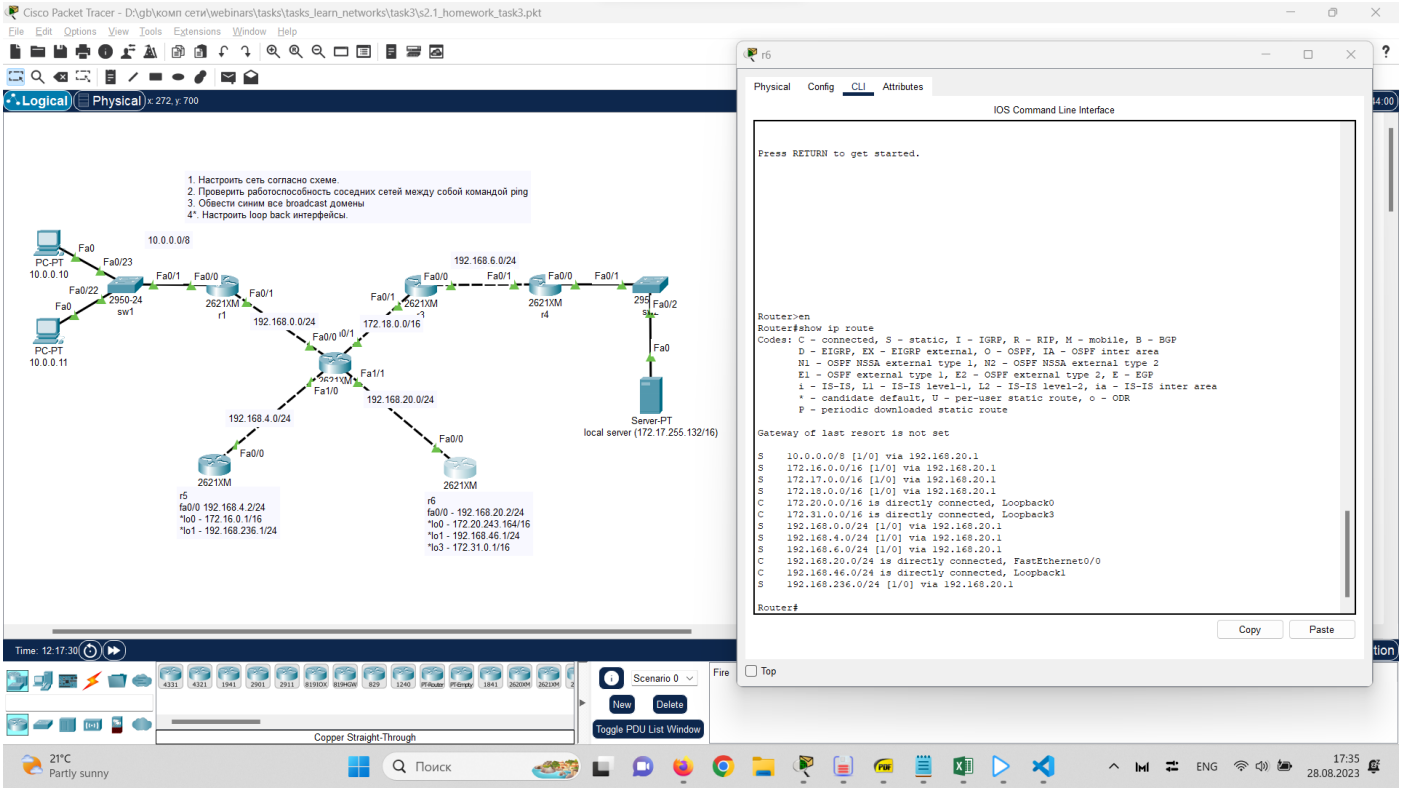

Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 734, y: 694
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
Server-PT local server (172.17.255.132/16)
192.168.0.0/24
172.18.0.0/16
192.168.6.0/24
192.168.4.0/24
192.168.20.0/24
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
r1
Physical Config CLI Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
C 10.0.0.0/8 is directly connected, FastEthernet0/0
S 172.16.0.0/16 [1/0] via 192.168.0.2
S 172.17.0.0/16 [1/0] via 192.168.0.2
S 172.18.0.0/16 [1/0] via 192.168.0.2
S 172.20.0.0/16 [1/0] via 192.168.0.2
S 172.31.0.0/16 [1/0] via 192.168.0.2
C 192.168.0.0/24 is directly connected, FastEthernet0/1
S 192.168.4.0/24 [1/0] via 192.168.0.2
S 192.168.6.0/24 [1/0] via 192.168.0.2
S 192.168.20.0/24 [1/0] via 192.168.0.2
S 192.168.46.0/24 [1/0] via 192.168.0.2
S 192.168.236.0/24 [1/0] via 192.168.0.2
Router#
Copy
Paste
Top
Time: 12:12:38
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Copper Straight-Through
21°C Partly sunny
Поиск
ENG
17:30 28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 399, y: 701
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
Server-PT local server (172.17.255.132/16)
192.168.0.0/24
172.18.0.0/16
192.168.6.0/24
192.168.4.0/24
192.168.20.0/24
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
r2
Physical Config CLI Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.0.1
S 172.16.0.0/16 [1/0] via 192.168.4.2
S 172.17.0.0/16 [1/0] via 172.18.0.2
C 172.18.0.0/16 is directly connected, FastEthernet0/1
S 172.20.0.0/16 [1/0] via 192.168.20.2
S 172.31.0.0/16 [1/0] via 192.168.20.2
C 192.168.0.0/24 is directly connected, FastEthernet0/0
C 192.168.4.0/24 is directly connected, FastEthernet1/0
S 192.168.6.0/24 [1/0] via 172.18.0.2
C 192.168.20.0/24 is directly connected, FastEthernet1/1
S 192.168.46.0/24 [1/0] via 192.168.20.2
S 192.168.236.0/24 [1/0] via 192.168.4.2
Router#
Copy
Paste
Top
Time: 12:13:59
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Copper Straight-Through
21°C Partly sunny
Поиск
ENG
17:32 28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
Logical
Physical
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.4.0/24
192.168.20.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
2621XM r5
2621XM r6
Server-PT local server (172.17.255.132/16)
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
r3
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 172.18.0.1
S 172.16.0.0/16 [1/0] via 172.18.0.1
S 172.17.0.0/16 [1/0] via 192.168.6.2
C 172.18.0.0/16 is directly connected, FastEthernet0/1
S 172.20.0.0/16 [1/0] via 172.18.0.1
S 172.31.0.0/16 [1/0] via 172.18.0.1
S 192.168.0.0/24 [1/0] via 172.18.0.1
S 192.168.4.0/24 [1/0] via 172.18.0.1
C 192.168.6.0/24 is directly connected, FastEthernet0/0
S 192.168.20.0/24 [1/0] via 172.18.0.1
S 192.168.46.0/24 [1/0] via 172.18.0.1
S 192.168.236.0/24 [1/0] via 172.18.0.1
Router#
Copy
Paste
Top
Time: 12:14:47
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
21°C
Partly sunny
Поиск
ENG
17:32
28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
Logical
Physical
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.4.0/24
192.168.20.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
2621XM r5
2621XM r6
Server-PT local server (172.17.255.132/16)
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
r4
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.6.1
S 172.16.0.0/16 [1/0] via 192.168.6.1
C 172.17.0.0/16 is directly connected, FastEthernet0/0
S 172.18.0.0/16 [1/0] via 192.168.6.1
S 172.20.0.0/16 [1/0] via 192.168.6.1
S 172.31.0.0/16 [1/0] via 192.168.6.1
S 192.168.0.0/24 [1/0] via 192.168.6.1
S 192.168.4.0/24 [1/0] via 192.168.6.1
C 192.168.6.0/24 is directly connected, FastEthernet0/1
S 192.168.20.0/24 [1/0] via 192.168.6.1
S 192.168.46.0/24 [1/0] via 192.168.6.1
S 192.168.236.0/24 [1/0] via 192.168.6.1
Router#
Copy
Paste
Top
Time: 12:15:38
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
21°C
Partly sunny
Поиск
ENG
17:33
28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
Logical
Physical
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.20.0/24
192.168.4.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
Server-PT local server (172.17.255.132/16)
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Time: 12:16:38
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
r5
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.4.1
C 172.16.0.0/16 is directly connected, Loopback0
S 172.17.0.0/16 [1/0] via 192.168.4.1
S 172.18.0.0/16 [1/0] via 192.168.4.1
S 172.20.0.0/16 [1/0] via 192.168.4.1
S 172.31.0.0/16 [1/0] via 192.168.4.1
S 192.168.0.0/24 [1/0] via 192.168.4.1
C 192.168.4.0/24 is directly connected, FastEthernet0/0
S 192.168.6.0/24 [1/0] via 192.168.4.1
S 192.168.20.0/24 [1/0] via 192.168.4.1
S 192.168.46.0/24 [1/0] via 192.168.4.1
C 192.168.236.0/24 is directly connected, Loopback1
Router#
Copy
Paste
Top
21°C
Partly sunny
Поиск
ENG
17:34
28.08.2023


Cisco Packet Tracer - D:\gb\комп сети\webinars\tasks\tasks_learn_networks\task3\s2.1_homework_task3.pkt
Logical
Physical
1. Настроить сеть согласно схеме.
2. Проверить работоспособность соседних сетей между собой командой ping
3. Обвести синим все broadcast домены
4*. Настроить loop back интерфейсы.
10.0.0.0/8
192.168.6.0/24
192.168.0.0/24
172.18.0.0/16
192.168.20.0/24
192.168.4.0/24
PC-PT 10.0.0.10
PC-PT 10.0.0.11
2950-24 sw1
2621XM r1
2621XM r3
2621XM r4
Server-PT local server (172.17.255.132/16)
r5
fa0/0 192.168.4.2/24
*lo0 - 172.16.0.1/16
*lo1 - 192.168.236.1/24
r6
fa0/0 - 192.168.20.2/24
*lo0 - 172.20.243.164/16
*lo1 - 192.168.46.1/24
*lo3 - 172.31.0.1/16
Time: 12:17:30
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
r6
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started.
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 192.168.20.1
S 172.16.0.0/16 [1/0] via 192.168.20.1
S 172.17.0.0/16 [1/0] via 192.168.20.1
S 172.18.0.0/16 [1/0] via 192.168.20.1
C 172.20.0.0/16 is directly connected, Loopback0
C 172.31.0.0/16 is directly connected, Loopback3
S 192.168.0.0/24 [1/0] via 192.168.20.1
S 192.168.4.0/24 [1/0] via 192.168.20.1
S 192.168.6.0/24 [1/0] via 192.168.20.1
C 192.168.20.0/24 is directly connected, FastEthernet0/0
C 192.168.46.0/24 is directly connected, Loopback1
S 192.168.236.0/24 [1/0] via 192.168.20.1
Router#
Copy
Paste
Top
21°C
Partly sunny
Поиск
ENG
17:35
28.08.2023