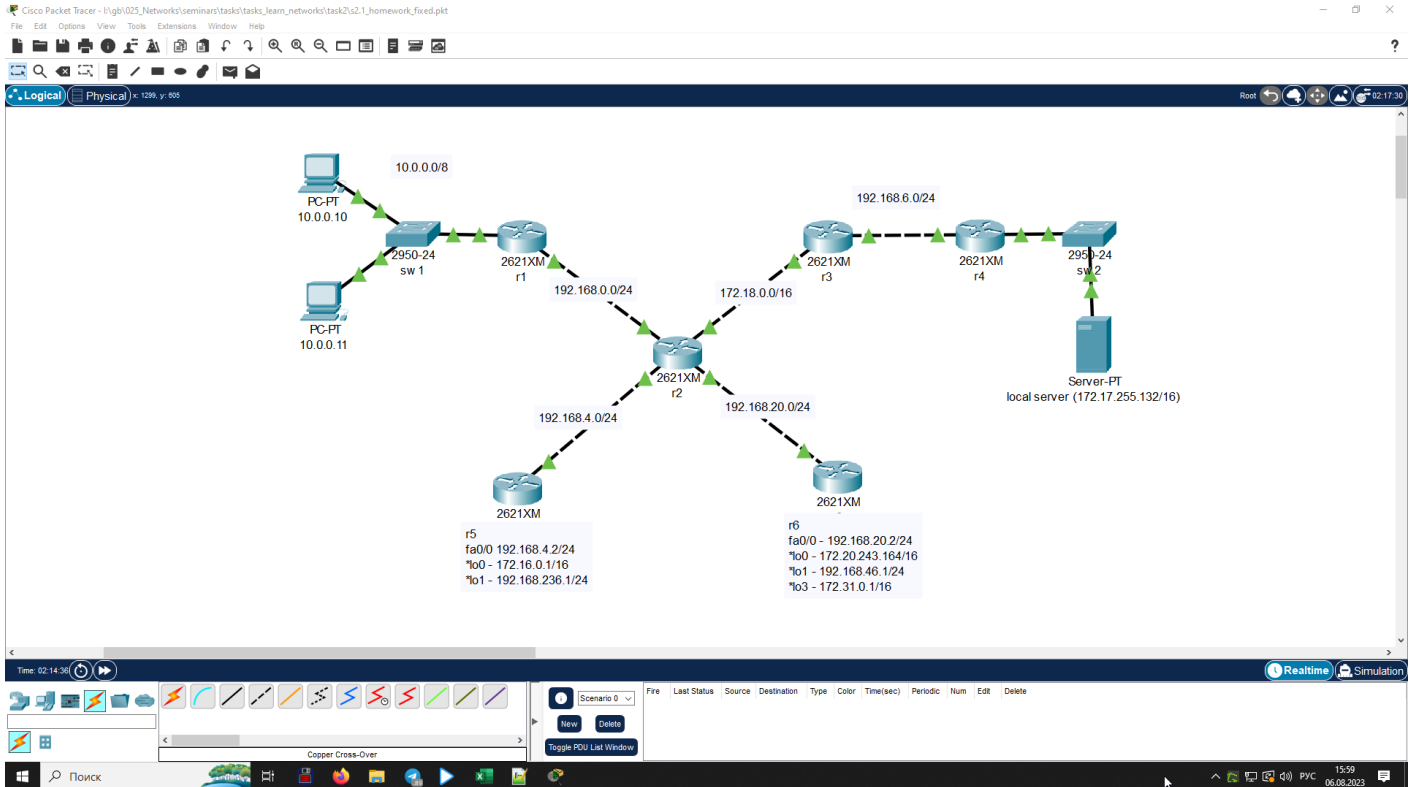


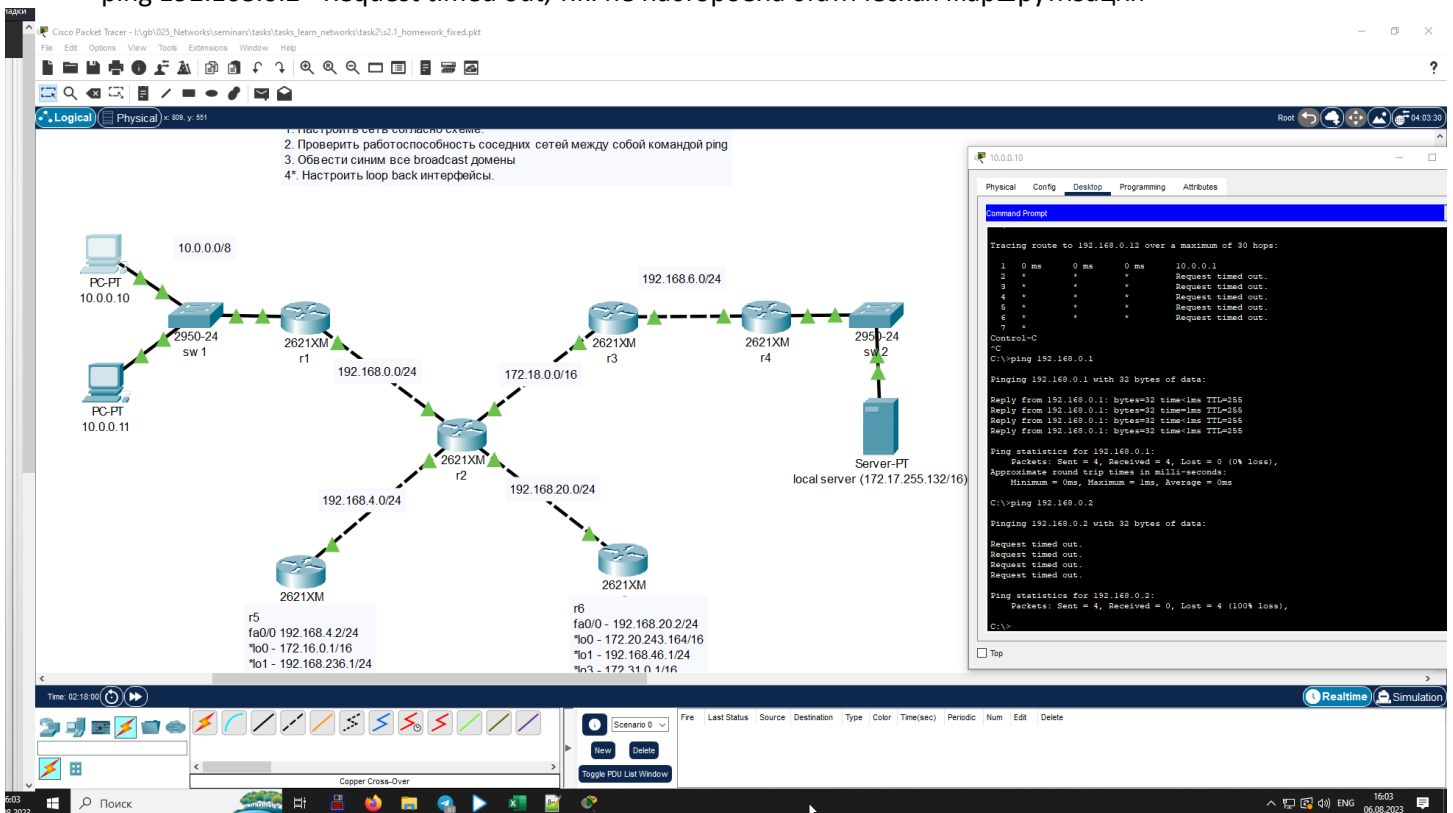
Урок 2. Технология Ethernet. Протокол IP.

1. Настроить сеть согласно схеме в файле s2.1_homework.pkt



2. Проверить работоспособность соседних между собой сетей командой ping.

- ping 192.168.0.2 - Request timed out, т.к. не настроена статическая маршрутизация



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.

```

r5
fa0/0 192.168.4.2/24
%lo - 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
  
```

local server (172.17.255.132/16)

```

C:\>ping 192.168.6.2 with 32 bytes of data:
Pinging 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.6.2:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.6.1
Pinging 192.168.6.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.6.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.6.2
Pinging 192.168.6.2 with 32 bytes of data:
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255
Reply from 192.168.6.2: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.6.2:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
  
```

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.

```

r5
fa0/0 192.168.4.2/24
%lo - 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
  
```

local server (172.17.255.132/16)

```

Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#ping 192.168.6.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echoes to 192.168.6.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
Router#ping 192.168.6.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echoes to 192.168.6.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
Router#
  
```

3. вывод любой таблицы ARP

Cisco Packet Tracer - \hgh\025_Network\seminars\task\task_learn_network\task2\2.1_homework_loopback.pkt

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.

Physical Config CLI Attributes

IOS Command Line Interface

```

range interface range command
Router(config)#interface lo
Router(config)#interface Loopback 7
C - 0-2147483647 Loopback interface number
Router(config)#interface Loopback 0

Router(config-if)#
VLINEP-S-CHANGED: Interface Loopback0, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface Loopback0, changed state to up
Router(config-if)#ip address 1.1.1.1 255.255.255.0
Router(config-if)#
Router(config)#
Router#
ASD-S-CONFIG-1: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGMP, 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, is - 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

1.0.0.0/24 is subnetted, 1 subnets
C 1.1.1.0 is directly connected, Loopback0
C 10.0.0.0/8 is directly connected, FastEthernet0/0
S 172.17.0.0/16 [1/0] via 192.168.0.1
C 192.168.0.0/24 is directly connected, FastEthernet0/1

Router#show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 10.0.0.1 - 00E0.B0BD.E001 ARPA FastEthernet0/0
Internet 10.0.0.10 194 0001.C76B.08C4 ARPA FastEthernet0/0
Internet 10.0.0.11 130 00D0.9796.2A1D ARPA FastEthernet0/0
Internet 192.168.0.1 177 0002.17C1.E001 ARPA FastEthernet0/1
Internet 192.168.0.2 - 00E0.B0BD.E002 ARPA FastEthernet0/1
Router#
  
```

4. Обвести синим все broadcast домены

Cisco Packet Tracer - \hgh\025_Network\seminars\task\task_learn_network\task2\2.1_homework_fired.pkt

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.

Physical Config CLI Attributes

IOS Command Line Interface

```

range interface range command
Router(config)#interface lo
Router(config)#interface Loopback 7
C - 0-2147483647 Loopback interface number
Router(config)#interface Loopback 0

Router(config-if)#
VLINEP-S-CHANGED: Interface Loopback0, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface Loopback0, changed state to up
Router(config-if)#ip address 1.1.1.1 255.255.255.0
Router(config-if)#
Router(config)#
Router#
ASD-S-CONFIG-1: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGMP, 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, is - 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

1.0.0.0/24 is subnetted, 1 subnets
C 1.1.1.0 is directly connected, Loopback0
C 10.0.0.0/8 is directly connected, FastEthernet0/0
S 172.17.0.0/16 [1/0] via 192.168.0.1
C 192.168.0.0/24 is directly connected, FastEthernet0/1

Router#show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 10.0.0.1 - 00E0.B0BD.E001 ARPA FastEthernet0/0
Internet 10.0.0.10 194 0001.C76B.08C4 ARPA FastEthernet0/0
Internet 10.0.0.11 130 00D0.9796.2A1D ARPA FastEthernet0/0
Internet 192.168.0.1 177 0002.17C1.E001 ARPA FastEthernet0/1
Internet 192.168.0.2 - 00E0.B0BD.E002 ARPA FastEthernet0/1
Router#
  
```

5. Настроить loopback интерфейсы

