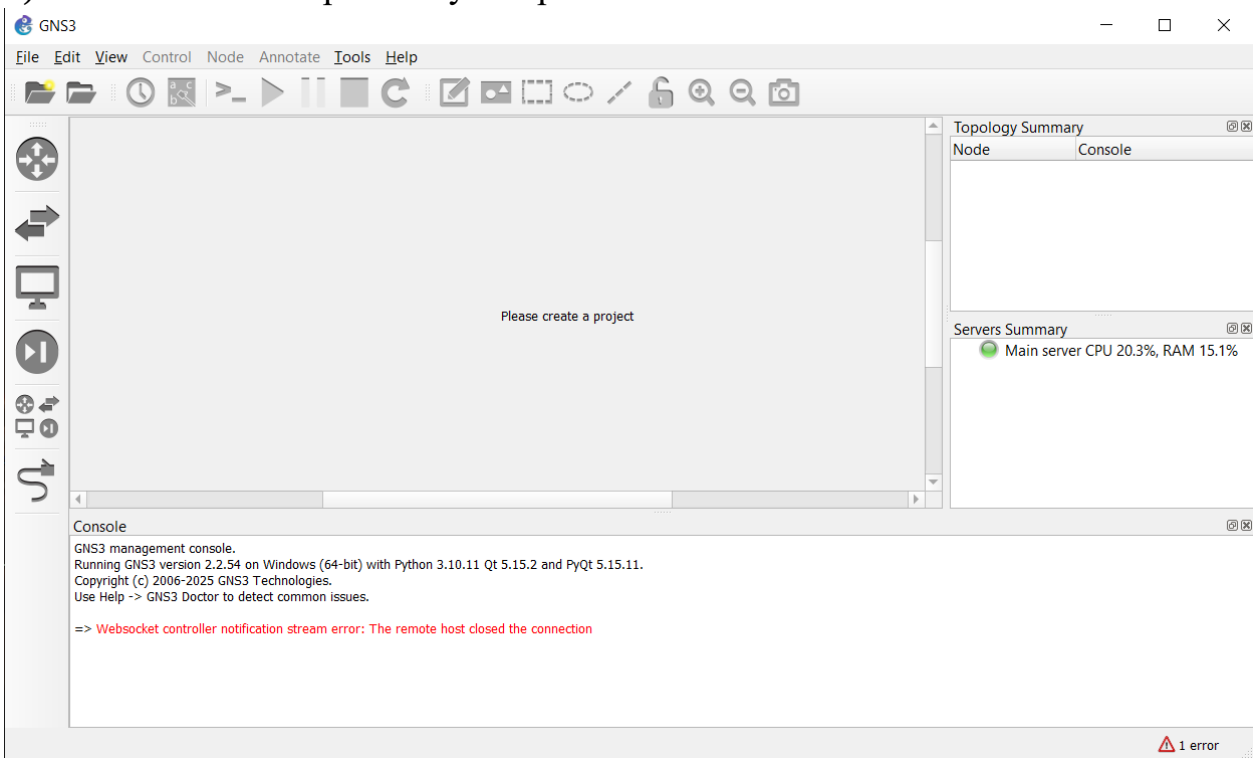
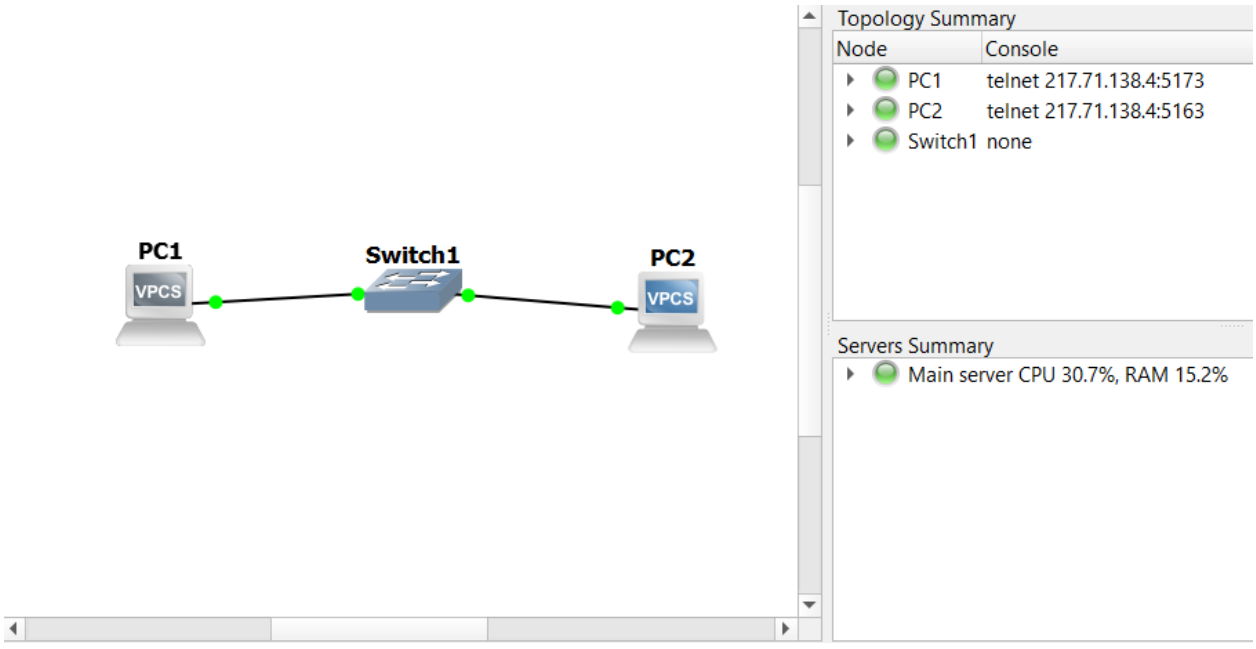
Зотов Дмитрий
Модуль 4
Лабораторная 1
Часть 1

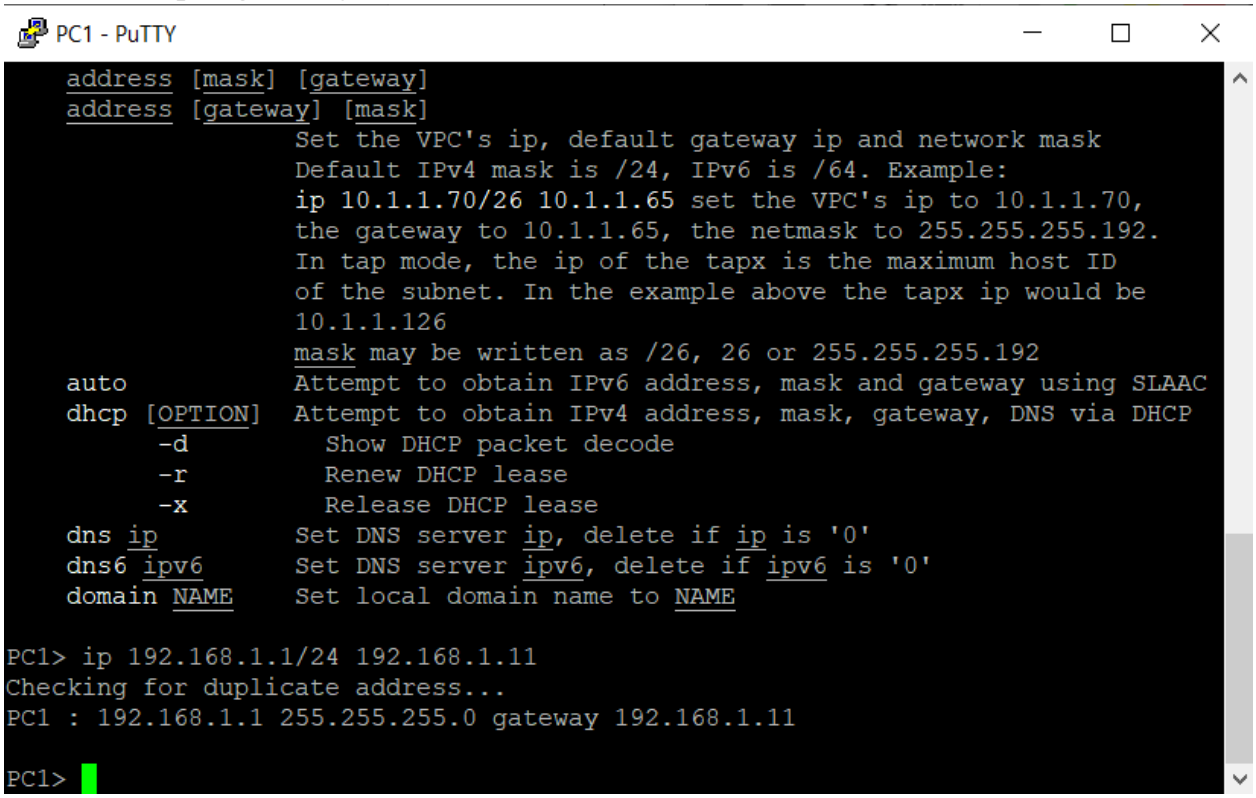
1) Установил и настроил эмулятор GNS3



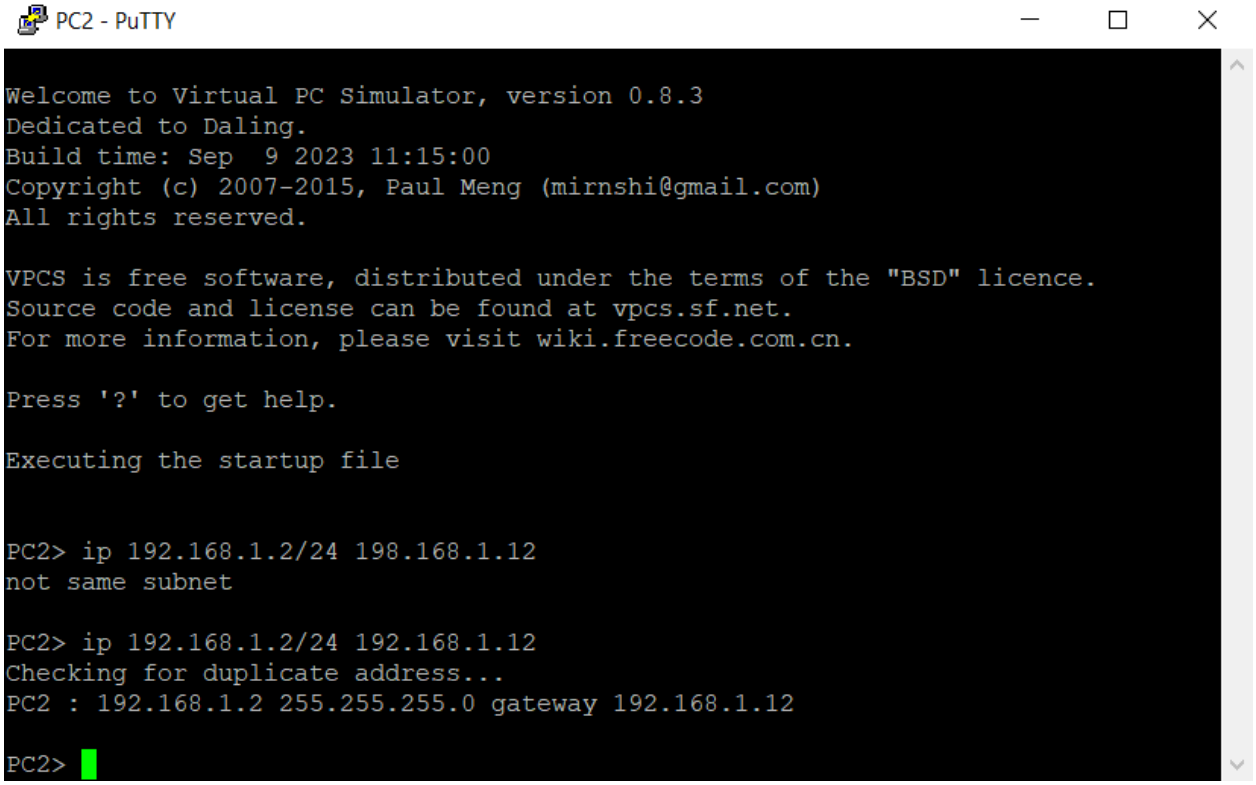
2)Создал сеть из двух PC и одного Switch



Назначил ip и gateway для PC1:



Назначил ip и gateway для PC2:



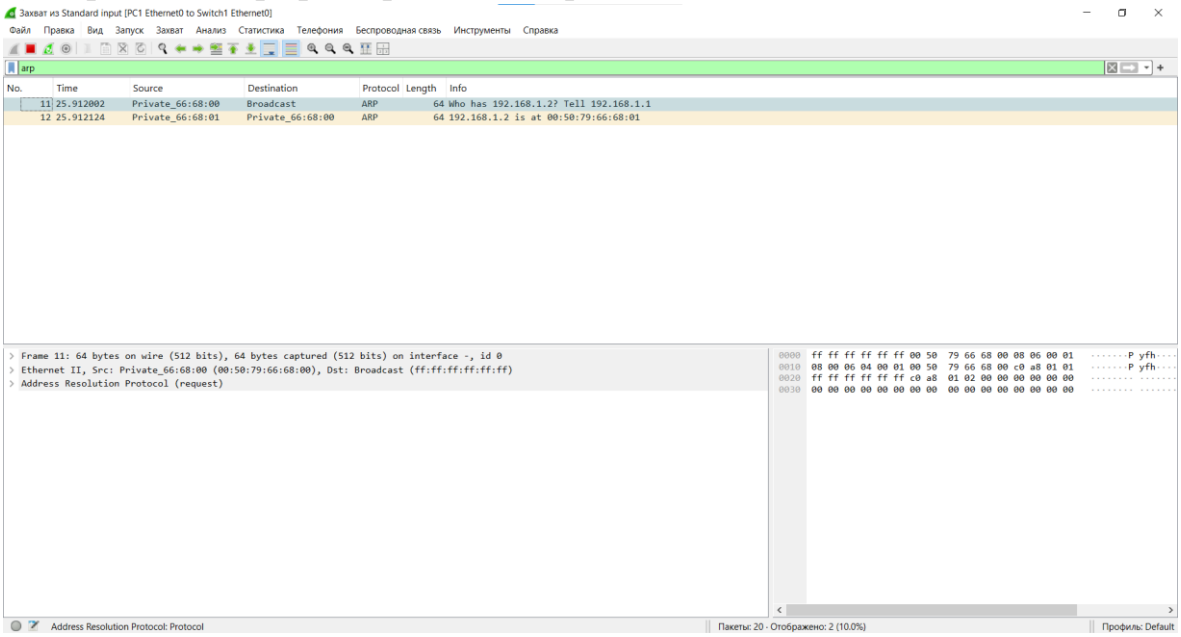
3) Выполнить команду ping с одного из компьютеров, используя ip адрес второго компьютера

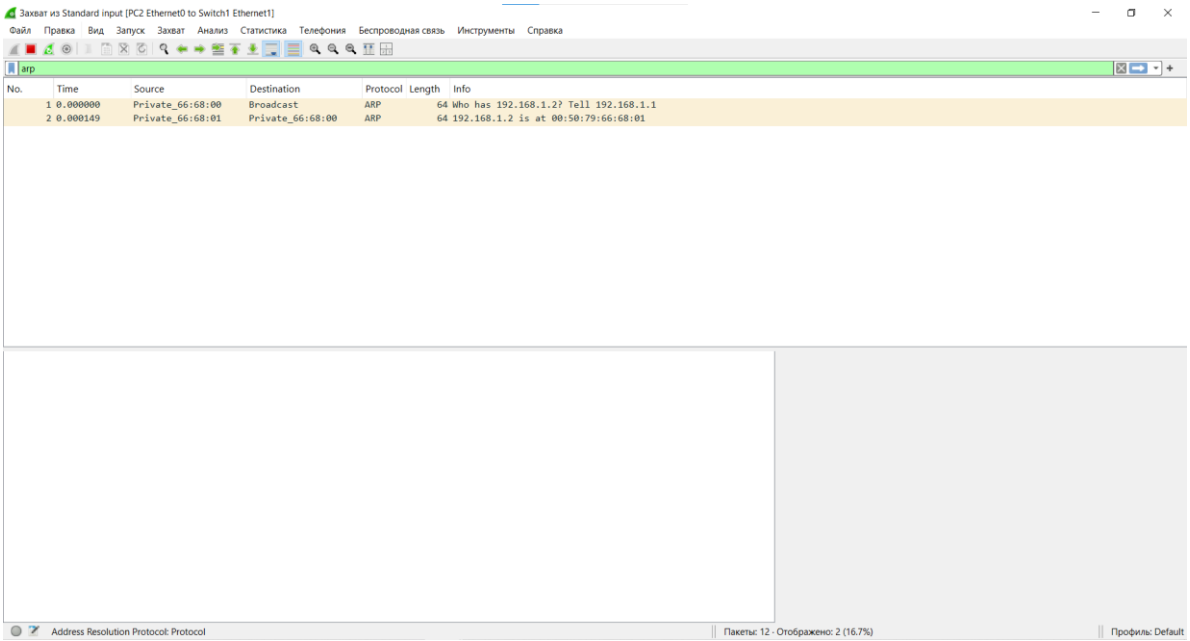
```
PC1> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=0.172 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.224 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.226 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.226 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.282 ms

PC1>
```

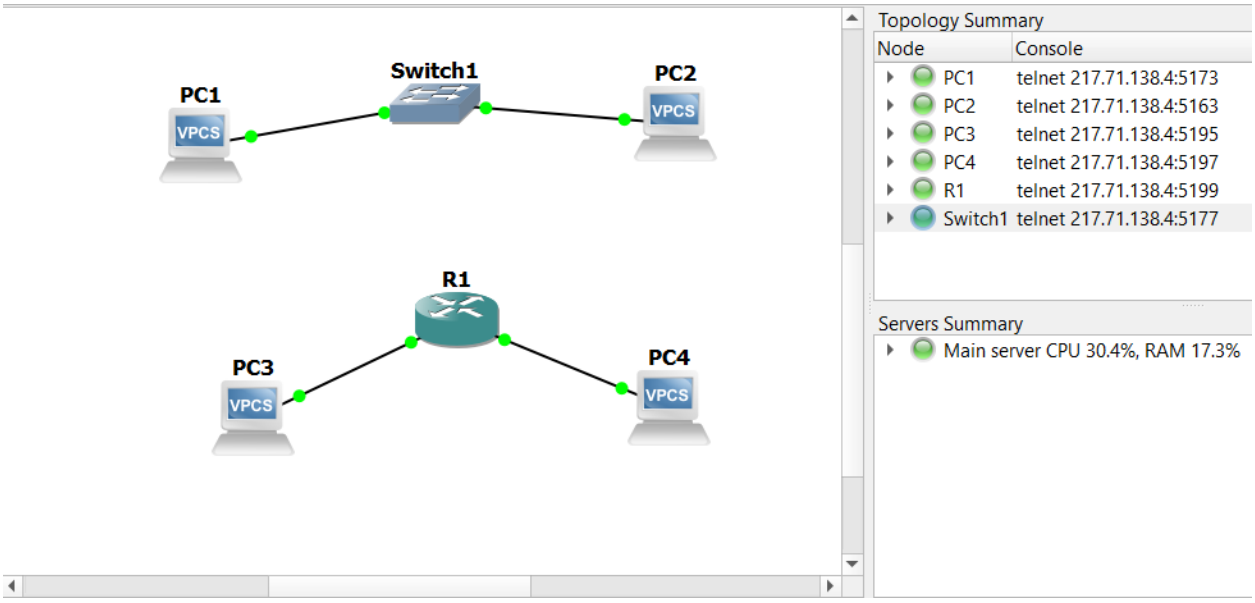
4) Перехватил трафик протокола arp на всех линках.



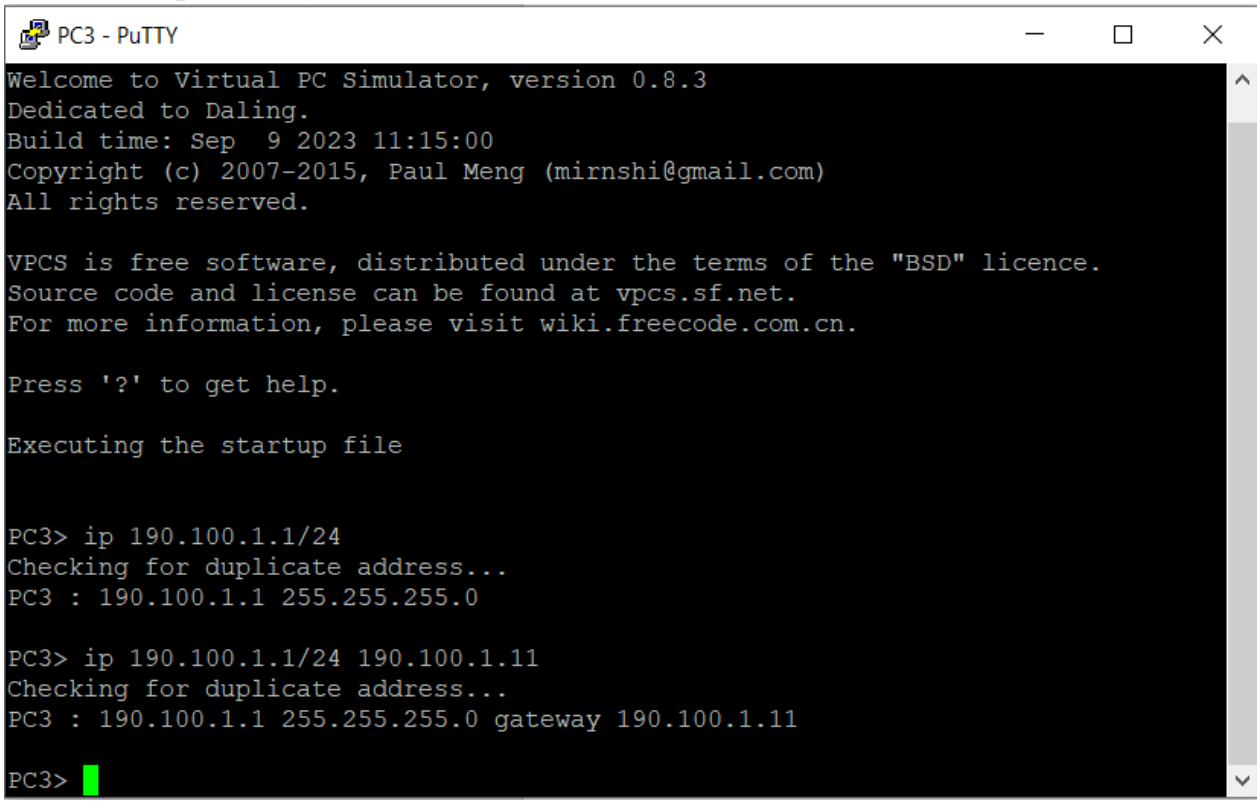


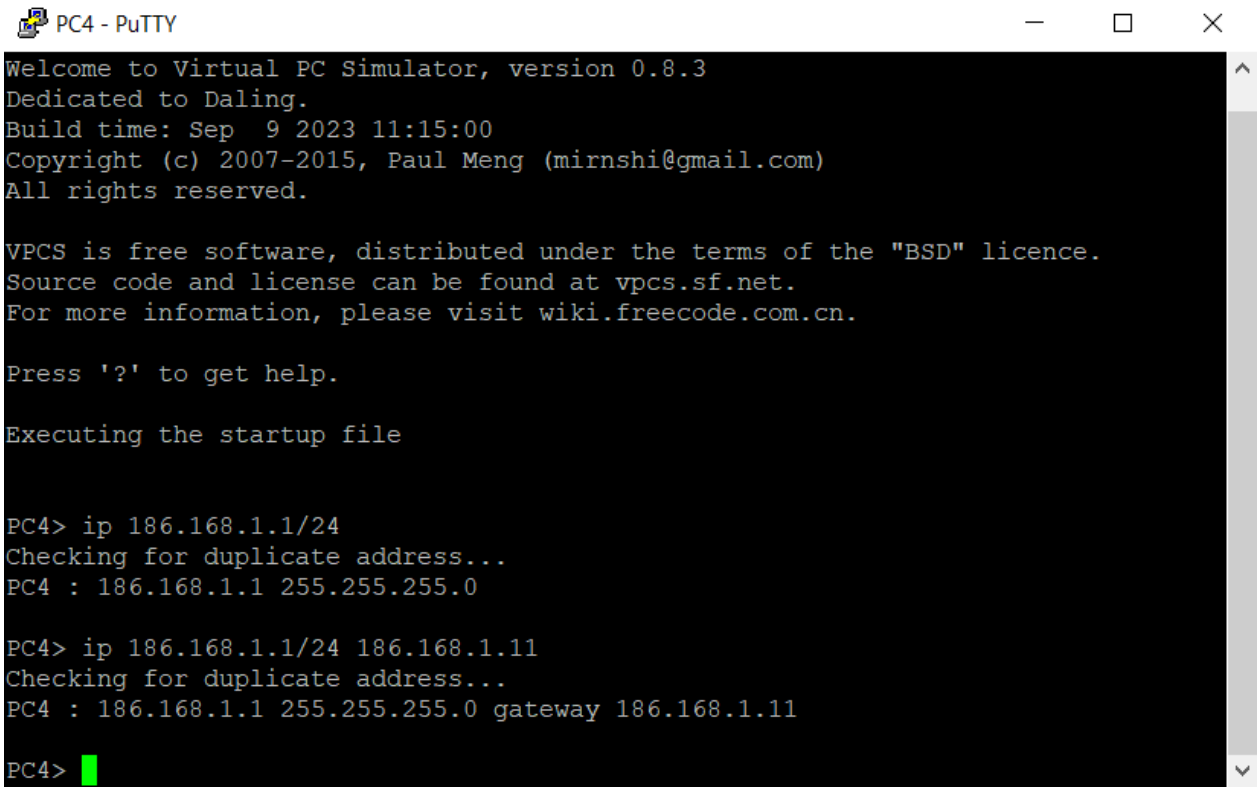
Часть 2

5) Создал сеть из Router и двух PC

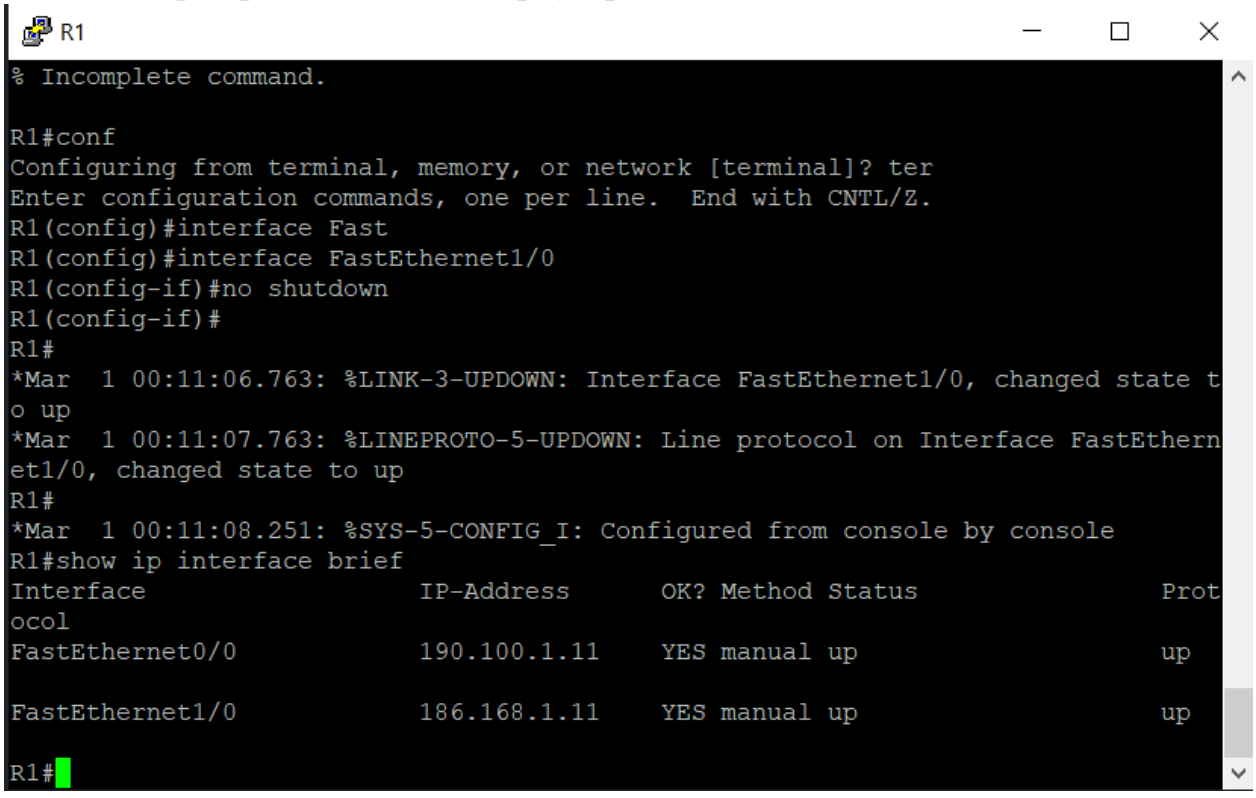


Назначил ip для двух PC:

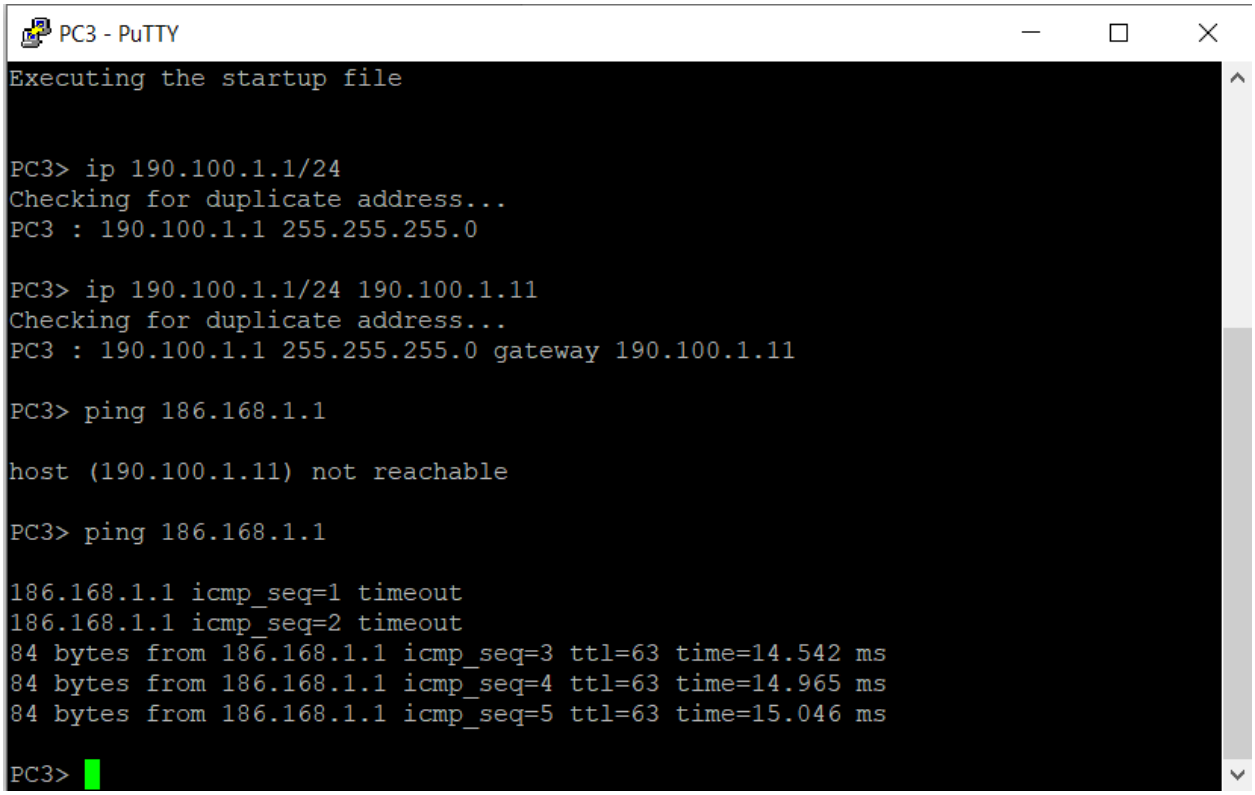




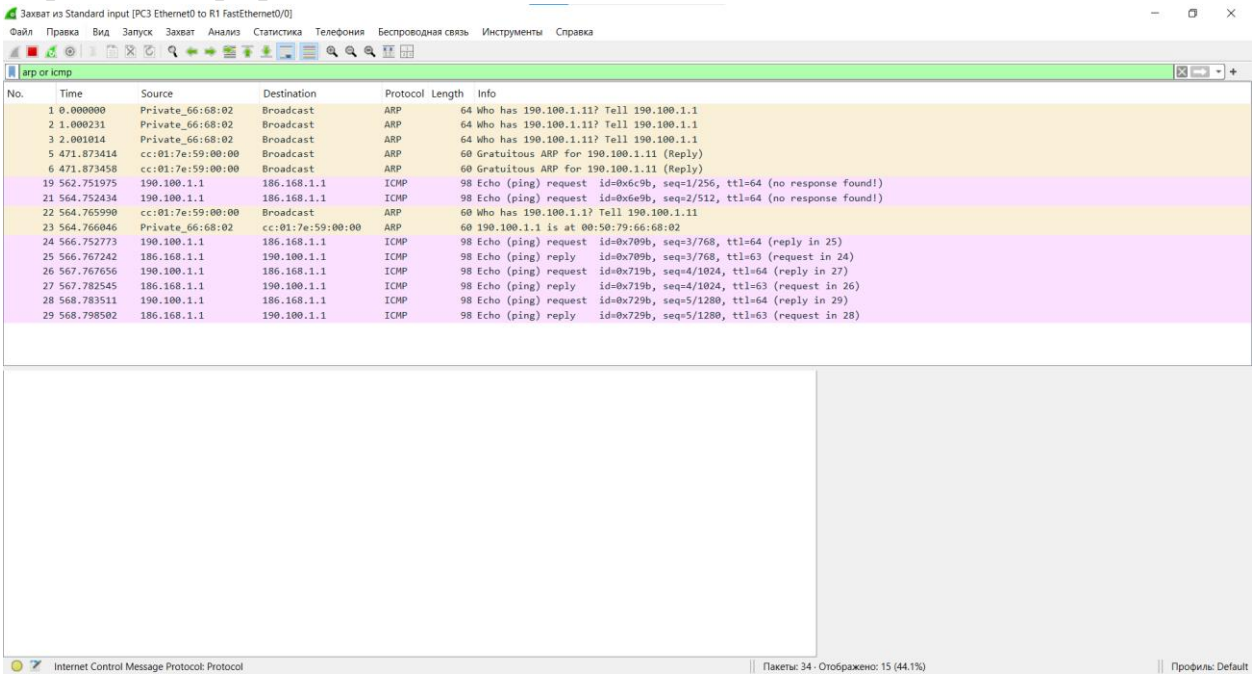
Назначил ip адреса шлюзов для роутера и поднял их:

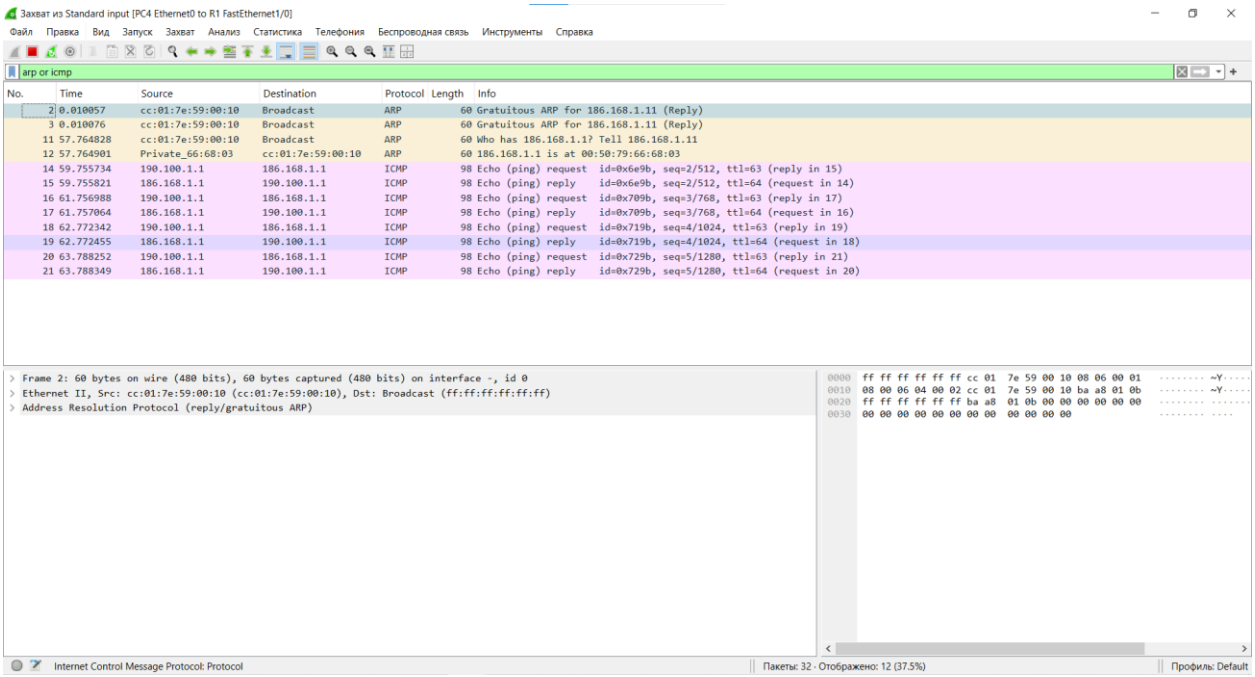


Выполнил команду ping:



Перехватил трафик:




Захват из Standard input [PC4 Ethernet0 to R1 FastEthernet1/0]
Файл Правка Вид Запуск Захват Анализ Статистика Телефония Беспроводная связь Инструменты Справка
arp or icmp
No. Time Source Destination Protocol Length Info
2 0.010057 cc:01:7e:59:00:10 Broadcast ARP 60 Gratuitous ARP for 186.168.1.11 (Reply)
3 0.010076 cc:01:7e:59:00:10 Broadcast ARP 60 Gratuitous ARP for 186.168.1.11 (Reply)
11 57.764828 cc:01:7e:59:00:10 Broadcast ARP 60 Who has 186.168.1.1? Tell 186.168.1.11
12 57.764901 Private_66:68:03 cc:01:7e:59:00:10 ARP 60 186.168.1.1 is at 00:50:79:66:68:03
14 59.755734 190.100.1.1 186.168.1.1 ICMP 98 Echo (ping) request id=0x6e9b, seq=2/512, ttl=63 (reply in 15)
15 59.755821 186.168.1.1 190.100.1.1 ICMP 98 Echo (ping) reply id=0x6e9b, seq=2/512, ttl=64 (request in 14)
16 61.756988 190.100.1.1 186.168.1.1 ICMP 98 Echo (ping) request id=0x709b, seq=3/768, ttl=63 (reply in 17)
17 61.757064 186.168.1.1 190.100.1.1 ICMP 98 Echo (ping) reply id=0x709b, seq=3/768, ttl=64 (request in 16)
18 62.772342 190.100.1.1 186.168.1.1 ICMP 98 Echo (ping) request id=0x719b, seq=4/1024, ttl=63 (reply in 19)
19 62.772455 186.168.1.1 190.100.1.1 ICMP 98 Echo (ping) reply id=0x719b, seq=4/1024, ttl=64 (request in 18)
20 63.788252 190.100.1.1 186.168.1.1 ICMP 98 Echo (ping) request id=0x729b, seq=5/1280, ttl=63 (reply in 21)
21 63.788349 186.168.1.1 190.100.1.1 ICMP 98 Echo (ping) reply id=0x729b, seq=5/1280, ttl=64 (request in 20)
Frame 2: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface -, id 0
Ethernet II, Src: cc:01:7e:59:00:10 (cc:01:7e:59:00:10), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (reply/gratuitous ARP)
0000 ff ff ff ff ff ff cc 01 7e 59 00 10 08 06 00 01
0010 08 00 06 04 00 02 cc 01 7e 59 00 10 ba a8 01 0b
0020 ff ff ff ff ff ff ba a8 01 0b 00 00 00 00 00 00
0030 00 00 00 00 00 00 00 00 00 00 00 00
Internet Control Message Protocol: Protocol
Пакеты: 32 · Отображено: 12 (37.5%)
Профиль: Default