

lab1\_PC1\_to\_Switch1.pcapng

Файл Правка Вид Запуск Захват Анализ Статистика Телефония Беспроводная связь Инструменты Справка

arp

| No. | Time      | Source           | Destination      | Protocol | Length | Info                                     |
|-----|-----------|------------------|------------------|----------|--------|--|
| 3   | 24.423083 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 4   | 25.423383 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 5   | 26.423839 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 6   | 44.595083 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 7   | 45.595097 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 8   | 46.596003 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 9   | 87.551087 | Private_66:68:01 | Broadcast        | ARP      | 64     | Who has 192.168.0.2? Tell 192.168.0.3    |
| 10  | 87.551201 | Private_66:68:00 | Private_66:68:01 | ARP      | 64     | 192.168.0.2 is at 00:50:79:66:68:00      |

(Широковещательный) Мас-адрес получателя Мас-адрес отправителя

Тип протокола

Frame 9: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface 0:0000 ff ff ff ff ff ff 00 50 79 66 68 01 08 06 00 01 .....P yfh.....  
Ethernet II, Src: Private\_66:68:00 (00:50:79:66:68:00), Dst: Broadcast (ff:ff:ff:ff:ff:ff) 0010 08 00 06 04 00 01 00 50 79 66 68 01 c0 a8 00 03 .....P yfh.....  
Destination: Broadcast (ff:ff:ff:ff:ff:ff) 0020 ff ff ff ff ff ff c0 a8 00 02 00 00 00 00 00 .....Pyfh.....  
Source: Private\_66:68:01 (00:50:79:66:68:01) 0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
Type: ARP (0x0806)  
[Stream index: 3]  
[Padding: 00000000000000000000000000000000] .....наполнение  
Frame check sequence: 0x00000000 [unverified] .....контрольная  
[FCS Status: Unverified] .....сумма  
Address Resolution Protocol (request)  
Hardware type: Ethernet (1) ip-адрес отправителя  
Protocol type: IPv4 (0x0800) ip-адрес получателя  
Hardware size: 6 КОД  
Protocol size: 4 операции(запрос)  
Opcode: request (1)  
Sender MAC address: Private\_66:68:01 (00:50:79:66:68:01)  
Sender IP address: 192.168.0.3  
Target MAC address: Broadcast (ff:ff:ff:ff:ff:ff)  
Target IP address: 192.168.0.2

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arp

| No. | Time      | Source           | Destination      | Protocol | Length | Info                                     |
|-----|-----------|------------------|------------------|----------|--------|--|
| 3   | 24.423083 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 4   | 25.423383 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 5   | 26.423839 | Private_66:68:00 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request) |
| 6   | 44.595083 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 7   | 45.595097 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 8   | 46.596003 | Private_66:68:01 | Broadcast        | ARP      | 64     | Gratuitous ARP for 192.168.0.3 (Request) |
| 9   | 87.551087 | Private_66:68:01 | Broadcast        | ARP      | 64     | Who has 192.168.0.2? Tell 192.168.0.3    |
| 10  | 87.551201 | Private_66:68:00 | Private_66:68:01 | ARP      | 64     | 192.168.0.2 is at 00:50:79:66:68:00      |

Frame 10: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface 0:0000 00 50 79 66 68 01 00 50 79 66 68 00 08 06 00 01 .....Pyfh...P yfh.....  
Ethernet II, Src: Private\_66:68:00 (00:50:79:66:68:00), Dst: Private\_66:68:01 0010 08 00 06 04 00 02 00 50 79 66 68 00 c0 a8 00 02 .....P yfh.....  
Destination: Private\_66:68:01 (00:50:79:66:68:01) 0020 00 50 79 66 68 01 c0 a8 00 00 00 00 00 00 00 .....Pyfh.....  
Source: Private\_66:68:00 (00:50:79:66:68:00) 0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
Type: ARP (0x0806)  
[Stream index: 4]  
[Padding: 00000000000000000000000000000000] .....  
Frame check sequence: 0x00000000 [unverified] .....  
[FCS Status: Unverified] .....  
Address Resolution Protocol (reply)  
Hardware type: Ethernet (1) Тип оборудования  
Protocol type: IPv4 (0x0800) Тип протокола  
Hardware size: 6 длина Мас-адреса  
Protocol size: 4 длина IP-адреса  
Opcode: reply (2) код операции(ответ)  
Sender MAC address: Private\_66:68:00 (00:50:79:66:68:00)  
Sender IP address: 192.168.0.2  
Target MAC address: Private\_66:68:01 (00:50:79:66:68:01)  
Target IP address: 192.168.0.3

Target IP address (arp.dst.proto.ipv4), 4 байта

Пакеты: 20 · Отображено: 8 (40.0%)

Профиль: Default

lab1\_PC1\_to\_ROUTER1.pcapng

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arp || icmp

| No. | Time       | Source            | Destination       | Protocol | Length | Info  |
|-----|------------|-------------------|-------------------|----------|--------|---|
| 1   | 0.000000   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 2   | 1.000067   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 3   | 2.000349   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 4   | 27.927983  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 5   | 28.928825  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 6   | 29.929401  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 8   | 265.678565 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Gratuitous ARP for 192.168.0.1 (Reply)                                |
| 9   | 265.678583 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Gratuitous ARP for 192.168.0.1 (Reply)                                |
| 16  | 303.556013 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3bcc, seq=1/256, ttl=64 (no response found!) |
| 17  | 305.556092 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3dcc, seq=2/512, ttl=64 (no response found!) |
| 18  | 305.574234 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Who has 192.168.0.2? Tell 192.168.0.1                                 |
| 19  | 305.574308 | Private_66:68:00  | c8:01:0a:78:00:10 | ARP      | 60     | 192.168.0.2 is at 00:50:79:66:68:00                                   |
| 20  | 307.556757 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3fcc, seq=3/768, ttl=64 (reply in 21)        |
| 21  | 307.569400 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x3fcc, seq=3/768, ttl=63 (request in 20)        |
| 22  | 308.570610 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x40cc, seq=4/1024, ttl=64 (reply in 23)       |
| 23  | 308.587362 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x40cc, seq=4/1024, ttl=63 (request in 22)       |
| 25  | 309.587691 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x41cc, seq=5/1280, ttl=64 (reply in 26)       |
| 26  | 309.604979 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x41cc, seq=5/1280, ttl=63 (request in 25)       |

Frame 23: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0  
Ethernet II, Src: c8:01:0a:78:00:10 (c8:01:0a:78:00:10), Dst: Private\_66:68:00:00:00:00  
Internet Protocol Version 4, Src: 192.168.1.2, Dst: 192.168.0.2  
Internet Control Message Protocol  
Type: 0 (Echo (ping) reply) тип-ICMP  
Code: 0 код (0 = пинг)  
Checksum: 0xe73b [correct] контрольная сумма  
[Checksum Status: Good]  
Identifier (BE): 16588 (0x40cc) идентификатор  
Identifier (LE): 52288 (0xcc40)  
Sequence Number (BE): 4 (0x0004) номер последовательности  
Sequence Number (LE): 1024 (0x400)  
[Request frame: 22]  
[Response time: 16,752 ms] Время ответа  
Data (56 bytes)

lab1\_PC1\_to\_ROUTER1.pcapng

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arp || icmp

| No. | Time       | Source            | Destination       | Protocol | Length | Info  |
|-----|------------|-------------------|-------------------|----------|--------|---|
| 1   | 0.000000   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 2   | 1.000067   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 3   | 2.000349   | Private_66:68:00  | Broadcast         | ARP      | 64     | Gratuitous ARP for 192.168.0.2 (Request)                              |
| 4   | 27.927983  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 5   | 28.928825  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 6   | 29.929401  | Private_66:68:00  | Broadcast         | ARP      | 64     | Who has 192.168.0.1? Tell 192.168.0.2                                 |
| 8   | 265.678565 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Gratuitous ARP for 192.168.0.1 (Reply)                                |
| 9   | 265.678583 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Gratuitous ARP for 192.168.0.1 (Reply)                                |
| 16  | 303.556013 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3bcc, seq=1/256, ttl=64 (no response found!) |
| 17  | 305.556092 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3dcc, seq=2/512, ttl=64 (no response found!) |
| 18  | 305.574234 | c8:01:0a:78:00:10 | Broadcast         | ARP      | 60     | Who has 192.168.0.2? Tell 192.168.0.1                                 |
| 19  | 305.574308 | Private_66:68:00  | c8:01:0a:78:00:10 | ARP      | 60     | 192.168.0.2 is at 00:50:79:66:68:00                                   |
| 20  | 307.556757 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x3fcc, seq=3/768, ttl=64 (reply in 21)        |
| 21  | 307.569400 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x3fcc, seq=3/768, ttl=63 (request in 20)        |
| 22  | 308.570610 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x40cc, seq=4/1024, ttl=64 (reply in 23)       |
| 23  | 308.587362 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x40cc, seq=4/1024, ttl=63 (request in 22)       |
| 25  | 309.587691 | 192.168.0.2       | 192.168.1.2       | ICMP     | 98     | Echo (ping) request id=0x41cc, seq=5/1280, ttl=64 (reply in 26)       |
| 26  | 309.604979 | 192.168.1.2       | 192.168.0.2       | ICMP     | 98     | Echo (ping) reply id=0x41cc, seq=5/1280, ttl=63 (request in 25)       |

Frame 26: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0  
Ethernet II, Src: c8:01:0a:78:00:10 (c8:01:0a:78:00:10), Dst: Private\_66:68:00:00:00:00  
Internet Protocol Version 4, Src: 192.168.1.2, Dst: 192.168.0.2  
Internet Control Message Protocol  
Type: 0 (Echo (ping) reply) тип-ICMP  
Code: 0 код  
Checksum: 0xe63a [correct] контрольная сумма  
[Checksum Status: Good]  
Identifier (BE): 16844 (0x41cc) идентификатор  
Identifier (LE): 52289 (0xcc41)  
Sequence Number (BE): 5 (0x0005) номер последовательности  
Sequence Number (LE): 1280 (0x0500)  
[Request frame: 25]  
[Response time: 17,288 ms] время ответа  
Data (56 bytes)