

Лабораторная работа №14

Компьютерные сети

Wireshark

Мая 28 22:36

*wlp0s20f3

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
69	12.123889513	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	66	IPv4
70	12.124607065	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	105	IPv4
71	12.125155003	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	101	IPv4
72	12.133803321	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	66	IPv4
73	12.133803428	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	66	IPv4
74	12.583374475	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	77	IPv4
75	12.587883235	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	93	IPv4
76	12.588160202	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
77	12.588285507	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
78	12.836804862	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
79	12.838130019	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	74	IPv4
80	12.838176483	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	66	IPv4
81	12.838130283	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	74	IPv4
82	12.838214856	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	66	IPv4
83	12.838472291	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	535	IPv4
84	13.006686957	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	66	IPv4
85	13.006687325	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	4927	IPv4

Frame 83: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface wlp0s20f3, id 0

Ethernet II, Src: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc), Dst: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8)

Destination: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8)

Source: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc)

Address: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc)

.... .. = LG bit: Globally unique address (factory default)

.... ..0 = IG bit: Individual address (unicast)

Type: IPv4 (0x0800)

Data (521 bytes)

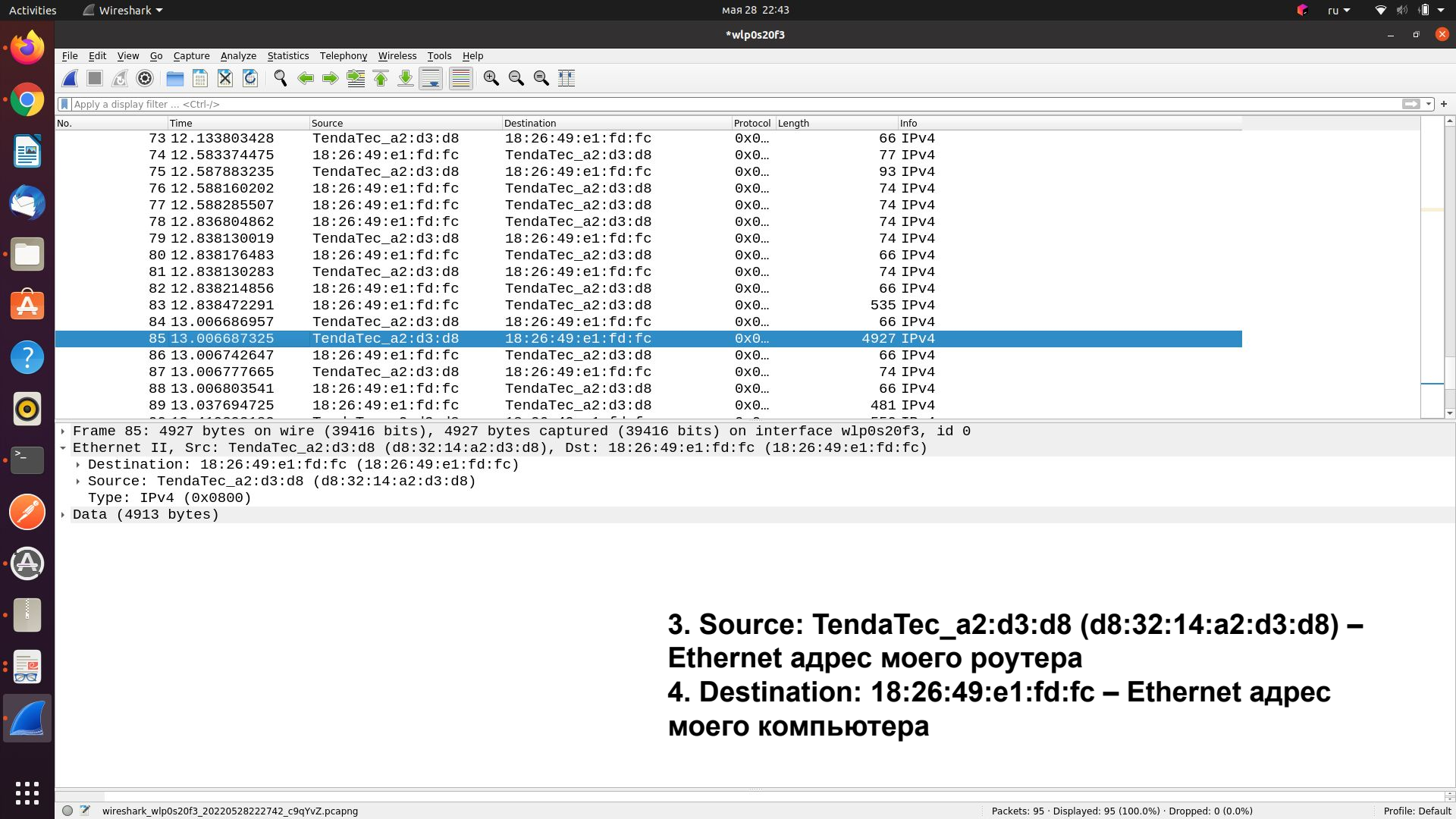
1. 18:26:49:e1:fd:fc – Ethernet адрес моего компьютера

2. Это адрес моего компьютера

wireshark_wlp0s20f3_20220528222742_c9qYvZ.pcapng

Packets: 95 · Displayed: 95 (100.0%) · Dropped: 0 (0.0%)

Profile: Default



3. Source: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8) – Ethernet адрес моего роутера

4. Destination: 18:26:49:e1:fd:fc – Ethernet адрес моего компьютера

Wireshark

May 28 22:58

*wlp0s20f3

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Current filter: http

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	18:26:49:e1:fd:fc	Broadcast	ARP	42	Who has 192.168.0.1? Tell 192.168.0.103
2	0.179457574	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	92	IPv4
3	0.383608222	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	84	IPv4
4	0.588261288	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	66	IPv4
5	0.692022040	TendaTec_a2:d3:d8	Broadcast	ARP	42	Who has 192.168.0.102? Tell 192.168.0.1
6	0.692037037	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	1071	IPv4
7	0.692050217	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
8	0.692052905	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
9	0.692055069	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
10	0.692057638	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
11	0.692059530	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
12	0.692061719	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
13	0.692064018	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
14	0.692067087	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	78	IPv4
15	0.692069880	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
16	0.692072192	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	96	IPv4
17	0.692075424	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	75	IPv4

Frame 1: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface wlp0s20f3, id 0

Ethernet II, Src: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc), Dst: Broadcast (ff:ff:ff:ff:ff:ff)

Destination: Broadcast (ff:ff:ff:ff:ff:ff)

Source: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc)

Type: ARP (0x0806)

Address Resolution Protocol (request)

Hardware type: Ethernet (1)

Protocol type: IPv4 (0x0800)

Hardware size: 6

Protocol size: 4

Opcode: request (1)

Sender MAC address: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc)

Sender IP address: 192.168.0.103

Target MAC address: 00:00:00_00:00:00 (00:00:00:00:00:00)

Target IP address: 192.168.0.1

1. Source: 18:26:49:e1:fd:fc – Ethernet адрес моего компьютера. Destination ff:ff:ff:ff:ff Broadcast

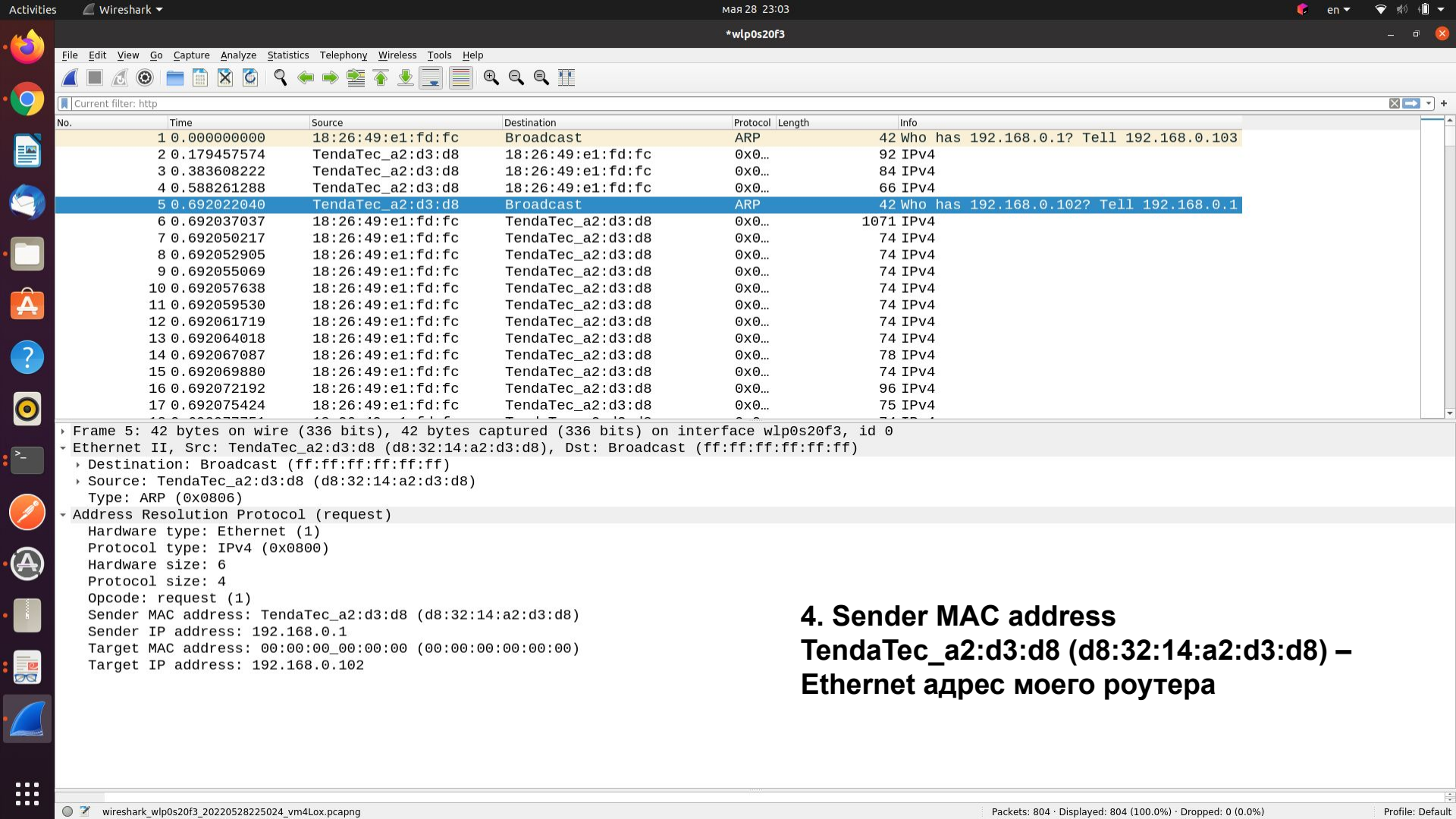
2. Да, содержит

3. Target MAC address 00:00:00:00:00:00 (хотим узнать MAC address для IP 192.168.0.1)

wireshark_wlp0s20f3_20220528225024_vm4Lox.pcapng

Packets: 804 · Displayed: 804 (100.0%) · Dropped: 0 (0.0%)

Profile: Default



No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	18:26:49:e1:fd:fc	Broadcast	ARP	42	Who has 192.168.0.1? Tell 192.168.0.103
2	0.179457574	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	92	IPv4
3	0.383608222	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	84	IPv4
4	0.588261288	TendaTec_a2:d3:d8	18:26:49:e1:fd:fc	0x0...	66	IPv4
5	0.692022040	TendaTec_a2:d3:d8	Broadcast	ARP	42	Who has 192.168.0.102? Tell 192.168.0.1
6	0.692037037	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	1071	IPv4
7	0.692050217	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
8	0.692052905	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
9	0.692055069	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
10	0.692057638	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
11	0.692059530	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
12	0.692061719	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
13	0.692064018	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
14	0.692067087	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	78	IPv4
15	0.692069880	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	74	IPv4
16	0.692072192	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	96	IPv4
17	0.692075424	18:26:49:e1:fd:fc	TendaTec_a2:d3:d8	0x0...	75	IPv4

Frame 5: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface wlp0s20f3, id 0
Ethernet II, Src: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Source: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8)
Type: ARP (0x0806)
Address Resolution Protocol (request)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
Sender MAC address: TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8)
Sender IP address: 192.168.0.1
Target MAC address: 00:00:00_00:00:00:00 (00:00:00:00:00:00)
Target IP address: 192.168.0.102

4. Sender MAC address
TendaTec_a2:d3:d8 (d8:32:14:a2:d3:d8) –
Ethernet адрес моего роутера