

Лабораторная работа №13

Компьютерные сети

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Frame 58: 782 bytes on wire (6256 bits), 782 bytes captured (6256 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)

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User Datagram Protocol, Src Port: 67, Dst Port: 68

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- Dynamic Host Configuration Protocol (Offer)

Message type: Boot Reply (2)

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Hardware type: Ethernet (0x01)
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Hardware address length: 6
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Hops: 0

Transaction ID: 0x5b61127c

Seconds elapsed: 0

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Sequence number: 0
Bootp flags: 0x0000 (Unicast)

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Client IP address: 0.0.0.0

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Your (client) IP address: 192.168.0.103

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Next server IP address: 0 0 0 0

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Next server IP address: 0.0.0.0
Relay agent IP address: 0.0.0.0

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Client MAC address: 18:26:49:e1:fd:fc (18:26:49:e1:fd:fc)
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Client MAC address: 18:20:49:e1:f4:fc (18:20:49:e1:f4:fc)
Client hardware address padding: 000000000000000000000000
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Server host name not given.

Boot file name not given

Boot file name not
Magic cookie: DHCP

Option: (53) DHCP Message Type (Offer)

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Option: (53) DHCP Message Type (Offer)
Option: (54) DHCP Server Identifier (192.168.0.1)

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Option: (54) DHCP Server Identifier
Option: (51) IP Address Lease Time

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Length: 4

Length: 4
IP Address Lease Time: (210000) 33 hours 33 minutes 33 seconds

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IP Address Lease Time: (81022s) 22 hours
Option: (1) Subnet Mask: (255.255.255.0)

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- Option: (1) Subnet
- Option: (2) Router

Option: (3) Router

Option: (6) Domain Name :

Option: (15) Domain

Option: (0) Paddi

1. UDP
2. d8:32:14:a2:d3:d8
3. 0x5b61127c. Transaction ID генерируется клиентом, чтобы сервер его не перепутал с другими клиентами
4. src: 0.0.0.0, dst: 255.255.255.255
5. 192.168.0.1
6. 22 часа 30 минут 22 секунды. Так как число свободных IP-адресов ограничено, их занимают только активные на текущий момент клиенты. Это достигается при помощи срока аренды