

## 1. Поверх UDP

No.	Time	Source	Destination	Protocol	Length	Info
316	2022-05-21 10:48:10,129836	192.168.1.86	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb9998f6e
462	2022-05-21 10:48:19,504363	0.0.0.0	255.255.255.255	DHCP	344	DHCP Discover - Transaction ID 0x5288e9b0
473	2022-05-21 10:48:19,908159	192.168.1.1	192.168.1.86	DHCP	342	DHCP Offer - Transaction ID 0x5288e9b0
474	2022-05-21 10:48:19,908894	0.0.0.0	255.255.255.255	DHCP	370	DHCP Request - Transaction ID 0x5288e9b0
485	2022-05-21 10:48:20,180331	192.168.1.1	192.168.1.86	DHCP	342	DHCP ACK - Transaction ID 0x5288e9b0

  

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> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 330
  Identification: 0x3f5a (16218)
  Flags: 0x00
    ...0 0000 0000 0000 = Fragment Offset: 0
  Time to Live: 128
  Protocol: UDP (17)
  Header Checksum: 0xfa49 [validation disabled]
    [Header checksum status: Unverified]
  Source Address: 0.0.0.0
  Destination Address: 255.255.255.255
> User Datagram Protocol, Src Port: 68, Dst Port: 67
  Dynamic Host Configuration Protocol (Discover)
    Message type: Boot Request (1)
    Hardware type: Ethernet (0x01)
    Hardware address length: 6
    Hops: 0
0010 01 4a 3f 5a 00 00 00 11 fa 49 00 00 00 00 ff ff 3f 5a 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0020 ff ff 00 44 00 43 01 36 c1 ba 01 01 06 00 52 88 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0030 e9 b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

## 2. 64:5d:86:86:5b:64

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> frame 1220: 358 bytes on wire (2864 bits), 358 bytes captured (2864 bits) on interface \Device\NPF{...}
  Ethernet II, Src: IntelCor_86:5b:64 (64:5d:86:86:5b:64), Dst: Keenetic_6e:ea:d4 (50:ff:20:6e:ea:d4)
    > Destination: Keenetic_6e:ea:d4 (50:ff:20:6e:ea:d4)
    > Source: IntelCor_86:5b:64 (64:5d:86:86:5b:64)
    Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.1.86, Dst: 192.168.1.1
    User Datagram Protocol, Src Port: 68, Dst Port: 67

```

3. 0x5288e9b0 - клиент генерирует id, чтобы сервер не перепутал его с другими клиентами

4. Source Address: 0.0.0.0, Destination Address: 255.255.255.255

[Header checksum status: Unverified]

Source Address: 0.0.0.0

Destination Address: 255.255.255.255

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

5. 192.168.1.86

6. 7 часов. Конечный срока аренды нужен, чтобы ip-адреса (количество которых ограничено) занимали только активные в данный момент клиенты.

✓ Option: (51) IP Address Lease Time

Length: 4

IP Address Lease Time: (25200s) 7 hours

✓ Option: (58) Renewal Time Value