```
No.       Time           Source               Destination           Protocol Length Info
    103 38.471536      192.168.1.49         192.168.1.1           DNS      84     Standard query 0x0001 PTR 1.1.168.192.in-addr.arpa
Frame 103: 84 bytes on wire (672 bits), 84 bytes captured (672 bits) on interface \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2},
id 0
    Interface id: 0 (\Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2})
        Interface name: \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2}
        Interface description: Wi-Fi
    Encapsulation type: Ethernet (1)
    Arrival Time: May  2, 2021 18:39:31.241539000 Финляндия (лето)
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1619969971.241539000 seconds
    [Time delta from previous captured frame: 0.183247000 seconds]
    [Time delta from previous displayed frame: 0.000000000 seconds]
    [Time since reference or first frame: 38.471536000 seconds]
    Frame Number: 103
    Frame Length: 84 bytes (672 bits)
    Capture Length: 84 bytes (672 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e), Dst: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
    Destination: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        Address: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        Address: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.49, Dst: 192.168.1.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 70
    Identification: 0xcb94 (52116)
    Flags: 0x00
        0... .... = Reserved bit: Not set
        .0.. .... = Don't fragment: Not set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 128
    Protocol: UDP (17)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.1.49
    Destination Address: 192.168.1.1
User Datagram Protocol, Src Port: 52516, Dst Port: 53
    Source Port: 52516
    Destination Port: 53
    Length: 50
    Checksum: 0x83c6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 2]
    [Timestamps]
        [Time since first frame: 0.000000000 seconds]
        [Time since previous frame: 0.000000000 seconds]
    UDP payload (42 bytes)
Domain Name System (query)
    Transaction ID: 0x0001
    Flags: 0x0100 Standard query
        0... .... .... .... = Response: Message is a query
        .000 0... .... .... = Opcode: Standard query (0)
        .... ..0. .... .... = Truncated: Message is not truncated
        .... ...1 .... .... = Recursion desired: Do query recursively
        .... .... .0.. .... = Z: reserved (0)
        .... .... ...0 .... = Non-authenticated data: Unacceptable
    Questions: 1
    Answer RRs: 0
    Authority RRs: 0
    Additional RRs: 0
    Queries
        1.1.168.192.in-addr.arpa: type PTR, class IN
            Name: 1.1.168.192.in-addr.arpa
            [Name Length: 24]
            [Label Count: 6]
            Type: PTR (domain name PoinTeR) (12)
            Class: IN (0x0001)
    [Response In: 104]
No.       Time           Source               Destination           Protocol Length Info
    104 38.473673      192.168.1.1          192.168.1.49          DNS      113    Standard query response 0x0001 PTR 1.1.168.192.in-
addr.arpa PTR router.asus.com
```

Frame 104: 113 bytes on wire (904 bits), 113 bytes captured (904 bits) on interface \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2}, id 0
    Interface id: 0 (\Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2})
        Interface name: \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2}
        Interface description: Wi-Fi
    Encapsulation type: Ethernet (1)
    Arrival Time: May 2, 2021 18:39:31.243676000 Финляндия (лето)
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1619969971.243676000 seconds
    [Time delta from previous captured frame: 0.002137000 seconds]
    [Time delta from previous displayed frame: 0.002137000 seconds]
    [Time since reference or first frame: 38.473673000 seconds]
    Frame Number: 104
    Frame Length: 113 bytes (904 bits)
    Capture Length: 113 bytes (904 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80), Dst: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
    Destination: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        Address: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        ....0 .... = IG bit: Individual address (unicast)
    Source: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        Address: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        ....0 .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.49
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 99
    Identification: 0x0000 (0)
    Flags: 0x40, Don't fragment
        0... .... = Reserved bit: Not set
        .1.. .... = Don't fragment: Set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 64
    Protocol: UDP (17)
    Header Checksum: 0xb707 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.1.1
    Destination Address: 192.168.1.49
User Datagram Protocol, Src Port: 53, Dst Port: 52516
    Source Port: 53
    Destination Port: 52516
    Length: 79
    Checksum: 0x3742 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 2]
    [Timestamps]
        [Time since first frame: 0.002137000 seconds]
        [Time since previous frame: 0.002137000 seconds]
    UDP payload (71 bytes)
Domain Name System (response)
    Transaction ID: 0x0001
    Flags: 0x8580 Standard query response, No error
        1... .... = Response: Message is a response
        .000 0... .... = Opcode: Standard query (0)
        .... .1.. .... = Authoritative: Server is an authority for domain
        .... ..0. .... = Truncated: Message is not truncated
        ....1 .... = Recursion desired: Do query recursively
        .... 1... .... = Recursion available: Server can do recursive queries
        .... .0.. .... = Z: reserved (0)
        ....0. .... = Answer authenticated: Answer/authority portion was not authenticated by the server
        ....0 .... = Non-authenticated data: Unacceptable
        .... 0000 = Reply code: No error (0)
    Questions: 1
    Answer RRs: 1
    Authority RRs: 0
    Additional RRs: 0
    Queries
        1.1.168.192.in-addr.arpa: type PTR, class IN
            Name: 1.1.168.192.in-addr.arpa
            [Name Length: 24]
            [Label Count: 6]
            Type: PTR (domain name PoinTeR) (12)
            Class: IN (0x0001)
    Answers
        1.1.168.192.in-addr.arpa: type PTR, class IN, router.asus.com
            Name: 1.1.168.192.in-addr.arpa

```
            Type: PTR (domain name PoinTeR) (12)
            Class: IN (0x0001)
            Time to live: 0 (0 seconds)
            Data length: 17
            Domain Name: router.asus.com
        [Request In: 103]
        [Time: 0.002137000 seconds]
No.     Time           Source                Destination           Protocol Length Info
    105 38.476310      192.168.1.49          192.168.1.1           DNS      67      Standard query 0x0002 NS mit.edu
Frame 105: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2},
id 0
    Interface id: 0 (\Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2})
        Interface name: \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2}
        Interface description: Wi-Fi
    Encapsulation type: Ethernet (1)
    Arrival Time: May  2, 2021 18:39:31.246313000 Финляндия (лето)
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1619969971.246313000 seconds
    [Time delta from previous captured frame: 0.002637000 seconds]
    [Time delta from previous displayed frame: 0.002637000 seconds]
    [Time since reference or first frame: 38.476310000 seconds]
    Frame Number: 105
    Frame Length: 67 bytes (536 bits)
    Capture Length: 67 bytes (536 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e), Dst: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
    Destination: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        Address: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        Address: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.49, Dst: 192.168.1.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 53
    Identification: 0xcb95 (52117)
    Flags: 0x00
        0... .... = Reserved bit: Not set
        .0.. .... = Don't fragment: Not set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 128
    Protocol: UDP (17)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.1.49
    Destination Address: 192.168.1.1
User Datagram Protocol, Src Port: 52517, Dst Port: 53
    Source Port: 52517
    Destination Port: 53
    Length: 33
    Checksum: 0x83b5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 3]
    [Timestamps]
        [Time since first frame: 0.000000000 seconds]
        [Time since previous frame: 0.000000000 seconds]
    UDP payload (25 bytes)
Domain Name System (query)
    Transaction ID: 0x0002
    Flags: 0x0100 Standard query
        0... .... .... .... = Response: Message is a query
        .000 0... .... .... = Opcode: Standard query (0)
        .... ..0. .... .... = Truncated: Message is not truncated
        .... ...1 .... .... = Recursion desired: Do query recursively
        .... .... .0.. .... = Z: reserved (0)
        .... .... ...0 .... = Non-authenticated data: Unacceptable
    Questions: 1
    Answer RRs: 0
    Authority RRs: 0
    Additional RRs: 0
    Queries
        mit.edu: type NS, class IN
            Name: mit.edu
            [Name Length: 7]
            [Label Count: 2]
```

```
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
    [Response In: 106]
No.    Time           Source                Destination           Protocol Length Info
    106 38.511631      192.168.1.1           192.168.1.49          DNS      234    Standard query response 0x0002 NS mit.edu NS
eur5.akam.net NS asia2.akam.net NS use2.akam.net NS ns1-173.akam.net NS asia1.akam.net NS ns1-37.akam.net NS use5.akam.net NS
usw2.akam.net
Frame 106: 234 bytes on wire (1872 bits), 234 bytes captured (1872 bits) on interface \Device\NPF_{E8F1393B-10D6-4491-
A631-26A44CA59FE2}, id 0
    Interface id: 0 (\Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2})
        Interface name: \Device\NPF_{E8F1393B-10D6-4491-A631-26A44CA59FE2}
        Interface description: Wi-Fi
    Encapsulation type: Ethernet (1)
    Arrival Time: May  2, 2021 18:39:31.281634000 Финляндия (лето)
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1619969971.281634000 seconds
    [Time delta from previous captured frame: 0.035321000 seconds]
    [Time delta from previous displayed frame: 0.035321000 seconds]
    [Time since reference or first frame: 38.511631000 seconds]
    Frame Number: 106
    Frame Length: 234 bytes (1872 bits)
    Capture Length: 234 bytes (1872 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80), Dst: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
    Destination: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        Address: IntelCor_88:6b:3e (c8:b2:9b:88:6b:3e)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        Address: ASUSTekC_e5:39:80 (18:31:bf:e5:39:80)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.49
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 220
    Identification: 0x0000 (0)
    Flags: 0x40, Don't fragment
        0... .... = Reserved bit: Not set
        .1.. .... = Don't fragment: Set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 64
    Protocol: UDP (17)
    Header Checksum: 0xb68e [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.1.1
    Destination Address: 192.168.1.49
User Datagram Protocol, Src Port: 53, Dst Port: 52517
    Source Port: 53
    Destination Port: 52517
    Length: 200
    Checksum: 0xa76e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 3]
    [Timestamps]
        [Time since first frame: 0.035321000 seconds]
        [Time since previous frame: 0.035321000 seconds]
    UDP payload (192 bytes)
Domain Name System (response)
    Transaction ID: 0x0002
    Flags: 0x8180 Standard query response, No error
        1... .... .... .... = Response: Message is a response
        .000 0... .... .... = Opcode: Standard query (0)
        .... .0.. .... .... = Authoritative: Server is not an authority for domain
        .... ..0. .... .... = Truncated: Message is not truncated
        .... ...1 .... .... = Recursion desired: Do query recursively
        .... .... 1... .... = Recursion available: Server can do recursive queries
        .... .... .0.. .... = Z: reserved (0)
        .... .... ..0. .... = Answer authenticated: Answer/authority portion was not authenticated by the server
        .... .... ...0 .... = Non-authenticated data: Unacceptable
        .... .... .... 0000 = Reply code: No error (0)
    Questions: 1
    Answer RRs: 8
    Authority RRs: 0
    Additional RRs: 0
    Queries
        mit.edu: type NS, class IN
            Name: mit.edu
```

```
            [Name Length: 7]
            [Label Count: 2]
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
    Answers
        mit.edu: type NS, class IN, ns eur5.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 15
            Name Server: eur5.akam.net
        mit.edu: type NS, class IN, ns asia2.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 8
            Name Server: asia2.akam.net
        mit.edu: type NS, class IN, ns use2.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 7
            Name Server: use2.akam.net
        mit.edu: type NS, class IN, ns ns1-173.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 10
            Name Server: ns1-173.akam.net
        mit.edu: type NS, class IN, ns asia1.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 8
            Name Server: asia1.akam.net
        mit.edu: type NS, class IN, ns ns1-37.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 9
            Name Server: ns1-37.akam.net
        mit.edu: type NS, class IN, ns use5.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 7
            Name Server: use5.akam.net
        mit.edu: type NS, class IN, ns usw2.akam.net
            Name: mit.edu
            Type: NS (authoritative Name Server) (2)
            Class: IN (0x0001)
            Time to live: 3600 (1 hour)
            Data length: 7
            Name Server: usw2.akam.net
    [Request In: 105]
    [Time: 0.035321000 seconds]
```