

No.	Time	Source	Destination	Protocol	Length	Info
5840	2018-10-17 16:13:13.307663	10.173.88.157	202.117.112.3	DNS	80	Standard query 0xc111

A www.ietf.org

Frame 5840: 80 bytes on wire (640 bits), 80 bytes captured (640 bits) on interface 0

Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})

Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}

Encapsulation type: Ethernet (1)

Arrival Time: Oct 17, 2018 16:13:13.307663000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1539763993.307663000 seconds

[Time delta from previous captured frame: 0.065361000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 30.678426000 seconds]

Frame Number: 5840

Frame Length: 80 bytes (640 bits)

Capture Length: 80 bytes (640 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]

[Coloring Rule Name: UDP]

[Coloring Rule String: udp]

Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)

Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)

Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)

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

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

Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)

Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)

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

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

Type: PPPoE Session (0x8864)

PPP-over-Ethernet Session

0001 = Version: 1

.... 0001 = Type: 1

Code: Session Data (0x00)

Session ID: 0x629d

Payload Length: 60

Point-to-Point Protocol

Protocol: Internet Protocol version 4 (0x0021)

Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3

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: 58

Identification: 0x3783 (14211)

Flags: 0x0000

0... = Reserved bit: Not set

.0.. = Don't fragment: Not set

..0. = More fragments: Not set

...0 0000 0000 0000 = Fragment offset: 0

Time to live: 64

Protocol: UDP (17)

Header checksum: 0xa56d [validation disabled]

[Header checksum status: Unverified]

Source: 10.173.88.157

Destination: 202.117.112.3

User Datagram Protocol, Src Port: 64179, Dst Port: 53

Source Port: 64179

Destination Port: 53

Length: 38

Checksum: 0x839f [unverified]

[Checksum Status: Unverified]

[Stream index: 1]

Domain Name System (query)

Transaction ID: 0xc111

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

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Additional RRs: 0
Queries
  www.ietf.org: type A, class IN
    Name: www.ietf.org
    [Name Length: 12]
    [Label Count: 3]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
[Response In: 5841]
No.      Time      Source      Destination      Protocol Length Info
 5841 2018-10-17 16:13:13.309304 202.117.112.3 10.173.88.157 DNS 378 Standard query response
0xc111 A www.ietf.org CNAME www.ietf.org.cdn.cloudflare.net A 104.20.0.85 A 104.20.1.85 NS b.gtld-servers.net NS k.gtld-
servers.net NS h.gtld-servers.net NS f.gtld-servers.net NS j.gtld-servers.net NS l.gtld-servers.net NS d.gtld-servers.net NS
i.gtld-servers.net NS g.gtld-servers.net NS e.gtld-servers.net NS m.gtld-servers.net NS a.gtld-servers.net NS c.gtld-
servers.net
Frame 5841: 378 bytes on wire (3024 bits), 378 bytes captured (3024 bits) on interface 0
  Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
  Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
  Encapsulation type: Ethernet (1)
  Arrival Time: Oct 17, 2018 16:13:13.309304000 中国标准时间
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1539763993.309304000 seconds
  [Time delta from previous captured frame: 0.001641000 seconds]
  [Time delta from previous displayed frame: 0.001641000 seconds]
  [Time since reference or first frame: 30.680067000 seconds]
  Frame Number: 5841
  Frame Length: 378 bytes (3024 bits)
  Capture Length: 378 bytes (3024 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
  [Coloring Rule Name: UDP]
  [Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
  Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
    Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
    Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
  0001 .... = Version: 1
  .... 0001 = Type: 1
  Code: Session Data (0x00)
  Session ID: 0x629d
  Payload Length: 358
Point-to-Point Protocol
  Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
  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: 356
  Identification: 0x51af (20911)
  Flags: 0x0000
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
    ...0 0000 0000 0000 = Fragment offset: 0
  Time to live: 60
  Protocol: UDP (17)
  Header checksum: 0x8e17 [validation disabled]
  [Header checksum status: Unverified]
  Source: 202.117.112.3
  Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 64179
  Source Port: 53
  Destination Port: 64179
  Length: 336
  Checksum: 0x9bb2 [unverified]
  [Checksum Status: Unverified]
  [Stream index: 1]
```

Domain Name System (response)

Transaction ID: 0xc111

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: 3

Authority RRs: 13

Additional RRs: 0

Queries

www.ietf.org: type A, class IN
Name: www.ietf.org
[Name Length: 12]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)

Answers

www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net
Name: www.ietf.org
Type: CNAME (Canonical NAME for an alias) (5)
Class: IN (0x0001)
Time to live: 220
Data length: 33
CNAME: www.ietf.org.cdn.cloudflare.net
www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.0.85
Name: www.ietf.org.cdn.cloudflare.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 61
Data length: 4
Address: 104.20.0.85
www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.1.85
Name: www.ietf.org.cdn.cloudflare.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 61
Data length: 4
Address: 104.20.1.85

Authoritative nameservers

net: type NS, class IN, ns b.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 17
Name Server: b.gtld-servers.net
net: type NS, class IN, ns k.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: k.gtld-servers.net
net: type NS, class IN, ns h.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: h.gtld-servers.net
net: type NS, class IN, ns f.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: f.gtld-servers.net
net: type NS, class IN, ns j.gtld-servers.net
Name: net

Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: j.gtld-servers.net
net: type NS, class IN, ns l.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: l.gtld-servers.net
net: type NS, class IN, ns d.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: d.gtld-servers.net
net: type NS, class IN, ns i.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: i.gtld-servers.net
net: type NS, class IN, ns g.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: g.gtld-servers.net
net: type NS, class IN, ns e.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: e.gtld-servers.net
net: type NS, class IN, ns m.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: m.gtld-servers.net
net: type NS, class IN, ns a.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: a.gtld-servers.net
net: type NS, class IN, ns c.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: c.gtld-servers.net

[Request In: 5840]

[Time: 0.001641000 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
5842	2018-10-17 16:13:13.310611	10.173.88.157	202.117.112.3	DNS	99	Standard query 0x8993

A www.ietf.org.cdn.cloudflare.net

Frame 5842: 99 bytes on wire (792 bits), 99 bytes captured (792 bits) on interface 0

Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})

Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}

Encapsulation type: Ethernet (1)

Arrival Time: Oct 17, 2018 16:13:13.310611000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1539763993.310611000 seconds

[Time delta from previous captured frame: 0.001307000 seconds]

[Time delta from previous displayed frame: 0.001307000 seconds]

[Time since reference or first frame: 30.681374000 seconds]

Frame Number: 5842

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Frame Length: 99 bytes (792 bits)
Capture Length: 99 bytes (792 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 79
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 77
Identification: 0x3784 (14212)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa559 [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 50677, Dst Port: 53
Source Port: 50677
Destination Port: 53
Length: 57
Checksum: 0x9d54 [unverified]
[Checksum Status: Unverified]
[Stream index: 2]
Domain Name System (query)
Transaction ID: 0x8993
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
www.ietf.org.cdn.cloudflare.net: type A, class IN
Name: www.ietf.org.cdn.cloudflare.net
[Name Length: 31]
[Label Count: 6]
Type: A (Host Address) (1)
Class: IN (0x0001)
[Response In: 5843]
No.      Time                Source                Destination            Protocol Length Info
5843 2018-10-17 16:13:13.311570 202.117.112.3        10.173.88.157          DNS      352      Standard query response
0x8993 A www.ietf.org.cdn.cloudflare.net A 104.20.1.85 A 104.20.0.85 NS k.gtld-servers.net NS a.gtld-servers.net NS e.gtld-
servers.net NS d.gtld-servers.net NS c.gtld-servers.net NS m.gtld-servers.net NS l.gtld-servers.net NS i.gtld-servers.net NS
b.gtld-servers.net NS g.gtld-servers.net NS f.gtld-servers.net NS h.gtld-servers.net NS j.gtld-servers.net

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Frame 5843: 352 bytes on wire (2816 bits), 352 bytes captured (2816 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:13.311570000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763993.311570000 seconds
[Time delta from previous captured frame: 0.000959000 seconds]
[Time delta from previous displayed frame: 0.000959000 seconds]
[Time since reference or first frame: 30.682333000 seconds]
Frame Number: 5843
Frame Length: 352 bytes (2816 bits)
Capture Length: 352 bytes (2816 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0. = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0. = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 332
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 330
Identification: 0x51b0 (20912)
Flags: 0x0000
0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8e30 [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 50677
Source Port: 53
Destination Port: 50677
Length: 310
Checksum: 0x3c3f [unverified]
[Checksum Status: Unverified]
[Stream index: 2]
Domain Name System (response)
Transaction ID: 0x8993
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)
....00. = Answer authenticated: Answer/authority portion was not authenticated by the server
....000 = Non-authenticated data: Unacceptable
....0000 = Reply code: No error (0)
Questions: 1
Answer RRs: 2

Authority RRs: 13

Additional RRs: 0

Queries

www.ietf.org.cdn.cloudflare.net: type A, class IN
Name: www.ietf.org.cdn.cloudflare.net
[Name Length: 31]
[Label Count: 6]
Type: A (Host Address) (1)
Class: IN (0x0001)

Answers

www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.1.85
Name: www.ietf.org.cdn.cloudflare.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 61
Data length: 4
Address: 104.20.1.85
www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.0.85
Name: www.ietf.org.cdn.cloudflare.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 61
Data length: 4
Address: 104.20.0.85

Authoritative nameservers

net: type NS, class IN, ns k.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 17
Name Server: k.gtld-servers.net

net: type NS, class IN, ns a.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: a.gtld-servers.net

net: type NS, class IN, ns e.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: e.gtld-servers.net

net: type NS, class IN, ns d.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: d.gtld-servers.net

net: type NS, class IN, ns c.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: c.gtld-servers.net

net: type NS, class IN, ns m.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: m.gtld-servers.net

net: type NS, class IN, ns l.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: l.gtld-servers.net

net: type NS, class IN, ns i.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)

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Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: i.gtld-servers.net
net: type NS, class IN, ns b.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: b.gtld-servers.net
net: type NS, class IN, ns g.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: g.gtld-servers.net
net: type NS, class IN, ns f.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: f.gtld-servers.net
net: type NS, class IN, ns h.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: h.gtld-servers.net
net: type NS, class IN, ns j.gtld-servers.net
Name: net
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170590
Data length: 4
Name Server: j.gtld-servers.net
[Request In: 5842]
[Time: 0.000959000 seconds]
No.      Time                Source                Destination          Protocol Length Info
5859 2018-10-17 16:13:14.244070  10.173.88.157        202.117.112.3        DNS                88      Standard query 0x28ed
A datatracker.ietf.org
Frame 5859: 88 bytes on wire (704 bits), 88 bytes captured (704 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.244070000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.244070000 seconds
[Time delta from previous captured frame: 0.507052000 seconds]
[Time delta from previous displayed frame: 0.932500000 seconds]
[Time since reference or first frame: 31.614833000 seconds]
Frame Number: 5859
Frame Length: 88 bytes (704 bits)
Capture Length: 88 bytes (704 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d

```


Payload Length: 68
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 66
Identification: 0x3785 (14213)
Flags: 0x0000
0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa563 [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 58656, Dst Port: 53
Source Port: 58656
Destination Port: 53
Length: 46
Checksum: 0xa2a9 [unverified]
[Checksum Status: Unverified]
[Stream index: 3]
Domain Name System (query)
Transaction ID: 0x28ed
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
 datatracker.ietf.org: type A, class IN
 Name: datatracker.ietf.org
 [Name Length: 20]
 [Label Count: 3]
 Type: A (Host Address) (1)
 Class: IN (0x0001)
[Response In: 5862]
No. Time Source Destination Protocol Length Info
5860 2018-10-17 16:13:14.245564 10.173.88.157 202.117.112.3 DNS 81 Standard query 0xf57a
A iaoc.ietf.org
Frame 5860: 81 bytes on wire (648 bits), 81 bytes captured (648 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.245564000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.245564000 seconds
[Time delta from previous captured frame: 0.001494000 seconds]
[Time delta from previous displayed frame: 0.001494000 seconds]
[Time since reference or first frame: 31.616327000 seconds]
Frame Number: 5860
Frame Length: 81 bytes (648 bits)
Capture Length: 81 bytes (648 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoes:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. = LG bit: Globally unique address (factory default)
.... ...0 = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)

```

Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 61
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 59
Identification: 0x3786 (14214)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa569 [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 58075, Dst Port: 53
Source Port: 58075
Destination Port: 53
Length: 39
Checksum: 0x69d1 [unverified]
[Checksum Status: Unverified]
[Stream index: 4]
Domain Name System (query)
Transaction ID: 0xf57a
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
iaoc.ietf.org: type A, class IN
Name: iaoc.ietf.org
[Name Length: 13]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)
[Response In: 5863]
No. Time Source Destination Protocol Length Info
5861 2018-10-17 16:13:14.245586 10.173.88.157 202.117.112.3 DNS 82 Standard query 0x1ab6
A rfc-editor.org
Frame 5861: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.245586000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.245586000 seconds
[Time delta from previous captured frame: 0.000022000 seconds]
[Time delta from previous displayed frame: 0.000022000 seconds]
[Time since reference or first frame: 31.616349000 seconds]
Frame Number: 5861
Frame Length: 82 bytes (656 bits)
Capture Length: 82 bytes (656 bits)
[Frame is marked: False]
[Frame is ignored: False]

```

```
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 62
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 60
Identification: 0x3787 (14215)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa567 [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 59427, Dst Port: 53
Source Port: 59427
Destination Port: 53
Length: 40
Checksum: 0x9e3f [unverified]
[Checksum Status: Unverified]
[Stream index: 5]
Domain Name System (query)
Transaction ID: 0x1ab6
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
rfc-editor.org: type A, class IN
Name: rfc-editor.org
[Name Length: 14]
[Label Count: 2]
Type: A (Host Address) (1)
Class: IN (0x0001)
[Response In: 5865]
No.      Time                               Source                               Destination                               Protocol Length Info
5862 2018-10-17 16:13:14.247581         202.117.112.3                        10.173.88.157                            DNS        256      Standard query response
0x28ed A datatracker.ietf.org CNAME ietf.org A 127.0.0.1 NS a0.org.afiliast-nst.info NS b0.org.afiliast-nst.org NS
a2.org.afiliast-nst.info NS c0.org.afiliast-nst.info NS d0.org.afiliast-nst.org NS b2.org.afiliast-nst.org
Frame 5862: 256 bytes on wire (2048 bits), 256 bytes captured (2048 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.247581000 中国标准时间
```

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[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.247581000 seconds
[Time delta from previous captured frame: 0.001995000 seconds]
[Time delta from previous displayed frame: 0.001995000 seconds]
[Time since reference or first frame: 31.618344000 seconds]
Frame Number: 5862
Frame Length: 256 bytes (2048 bits)
Capture Length: 256 bytes (2048 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 236
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 234
Identification: 0x51b1 (20913)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8e8f [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 58656
Source Port: 53
Destination Port: 58656
Length: 214
Checksum: 0x3a22 [unverified]
[Checksum Status: Unverified]
[Stream index: 3]
Domain Name System (response)
Transaction ID: 0x28ed
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: 2
Authority RRs: 6
Additional RRs: 0
Queries
datatracker.ietf.org: type A, class IN
Name: datatracker.ietf.org
```

[Name Length: 20]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)

Answers

datatracker.ietf.org: type CNAME, class IN, cname ietf.org
Name: datatracker.ietf.org
Type: CNAME (Canonical NAME for an alias) (5)
Class: IN (0x0001)
Time to live: 1228
Data length: 2
CNAME: ietf.org
ietf.org: type A, class IN, addr 127.0.0.1
Name: ietf.org
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 0
Data length: 4
Address: 127.0.0.1

Authoritative nameservers

org: type NS, class IN, ns a0.org.afiliast-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 25
Name Server: a0.org.afiliast-nst.info
org: type NS, class IN, ns b0.org.afiliast-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 21
Name Server: b0.org.afiliast-nst.org
org: type NS, class IN, ns a2.org.afiliast-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: a2.org.afiliast-nst.info
org: type NS, class IN, ns c0.org.afiliast-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: c0.org.afiliast-nst.info
org: type NS, class IN, ns d0.org.afiliast-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: d0.org.afiliast-nst.org
org: type NS, class IN, ns b2.org.afiliast-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: b2.org.afiliast-nst.org

[Request In: 5859]

[Time: 0.003511000 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
5863	2018-10-17 16:13:14.247582	202.117.112.3	10.173.88.157	DNS	249	Standard query response
0xf57a A iaoc.ietf.org CNAME ietf.org A 127.0.0.1 NS a2.org.afiliast-nst.info NS b2.org.afiliast-nst.org NS d0.org.afiliast-nst.org NS b0.org.afiliast-nst.org NS a0.org.afiliast-nst.info NS c0.org.afiliast-nst.info						
Frame 5863: 249 bytes on wire (1992 bits), 249 bytes captured (1992 bits) on interface 0						
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})						
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}						
Encapsulation type: Ethernet (1)						
Arrival Time: Oct 17, 2018 16:13:14.247582000 中国标准时间						
[Time shift for this packet: 0.000000000 seconds]						
Epoch Time: 1539763994.247582000 seconds						
[Time delta from previous captured frame: 0.000001000 seconds]						
[Time delta from previous displayed frame: 0.000001000 seconds]						

```

[Time since reference or first frame: 31.618345000 seconds]
Frame Number: 5863
Frame Length: 249 bytes (1992 bits)
Capture Length: 249 bytes (1992 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 229
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 227
Identification: 0x51b2 (20914)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8e95 [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 58075
Source Port: 53
Destination Port: 58075
Length: 207
Checksum: 0x7035 [unverified]
[Checksum Status: Unverified]
[Stream index: 4]
Domain Name System (response)
Transaction ID: 0xf57a
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: 2
Authority RRs: 6
Additional RRs: 0
Queries
iaoc.ietf.org: type A, class IN
Name: iaoc.ietf.org
[Name Length: 13]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)

```

Answers

```
iaoc.ietf.org: type CNAME, class IN, cname ietf.org
  Name: iaoc.ietf.org
  Type: CNAME (Canonical NAME for an alias) (5)
  Class: IN (0x0001)
  Time to live: 1229
  Data length: 2
  CNAME: ietf.org
ietf.org: type A, class IN, addr 127.0.0.1
  Name: ietf.org
  Type: A (Host Address) (1)
  Class: IN (0x0001)
  Time to live: 0
  Data length: 4
  Address: 127.0.0.1
```

Authoritative nameservers

```
org: type NS, class IN, ns a2.org.afiliias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 25
  Name Server: a2.org.afiliias-nst.info
org: type NS, class IN, ns b2.org.afiliias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 21
  Name Server: b2.org.afiliias-nst.org
org: type NS, class IN, ns d0.org.afiliias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: d0.org.afiliias-nst.org
org: type NS, class IN, ns b0.org.afiliias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: b0.org.afiliias-nst.org
org: type NS, class IN, ns a0.org.afiliias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: a0.org.afiliias-nst.info
org: type NS, class IN, ns c0.org.afiliias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: c0.org.afiliias-nst.info
```

[Request In: 5860]

[Time: 0.002018000 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
5864	2018-10-17 16:13:14.250727	10.173.88.157	202.117.112.3	DNS	76	Standard query 0xb5f8

A ietf.org

Frame 5864: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface 0

Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})

Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}

Encapsulation type: Ethernet (1)

Arrival Time: Oct 17, 2018 16:13:14.250727000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1539763994.250727000 seconds

[Time delta from previous captured frame: 0.003145000 seconds]

[Time delta from previous displayed frame: 0.003145000 seconds]

[Time since reference or first frame: 31.621490000 seconds]

Frame Number: 5864

Frame Length: 76 bytes (608 bits)

Capture Length: 76 bytes (608 bits)

[Frame is marked: False]

```

[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 56
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 54
Identification: 0x3788 (14216)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa56c [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 65423, Dst Port: 53
Source Port: 65423
Destination Port: 53
Length: 34
Checksum: 0x04d3 [unverified]
[Checksum Status: Unverified]
[Stream index: 6]
Domain Name System (query)
Transaction ID: 0xb5f8
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
    ietf.org: type A, class IN
        Name: ietf.org
        [Name Length: 8]
        [Label Count: 2]
        Type: A (Host Address) (1)
        Class: IN (0x0001)
[Response In: 5866]
No.      Time      Source      Destination      Protocol Length Info
5865 2018-10-17 16:13:14.253146 202.117.112.3 10.173.88.157 DNS 236 Standard query response
0x1ab6 A rfc-editor.org A 4.31.198.49 NS a0.org.afili-as-nst.info NS c0.org.afili-as-nst.info NS b2.org.afili-as-nst.org NS
d0.org.afili-as-nst.org NS b0.org.afili-as-nst.org NS a2.org.afili-as-nst.info
Frame 5865: 236 bytes on wire (1888 bits), 236 bytes captured (1888 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)

```



```
Arrival Time: Oct 17, 2018 16:13:14.253146000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.253146000 seconds
[Time delta from previous captured frame: 0.002419000 seconds]
[Time delta from previous displayed frame: 0.002419000 seconds]
[Time since reference or first frame: 31.623909000 seconds]
Frame Number: 5865
Frame Length: 236 bytes (1888 bits)
Capture Length: 236 bytes (1888 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 216
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 214
Identification: 0x51b3 (20915)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8ea1 [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 59427
Source Port: 53
Destination Port: 59427
Length: 194
Checksum: 0xc0bc [unverified]
[Checksum Status: Unverified]
[Stream index: 5]
Domain Name System (response)
Transaction ID: 0x1ab6
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: 1
Authority RRs: 6
Additional RRs: 0
Queries
rfc-editor.org: type A, class IN
```

Name: rfc-editor.org
[Name Length: 14]
[Label Count: 2]
Type: A (Host Address) (1)
Class: IN (0x0001)

Answers

rfc-editor.org: type A, class IN, addr 4.31.198.49
Name: rfc-editor.org
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 1233
Data length: 4
Address: 4.31.198.49

Authoritative nameservers

org: type NS, class IN, ns a0.org.afiliias-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 25
Name Server: a0.org.afiliias-nst.info

org: type NS, class IN, ns c0.org.afiliias-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: c0.org.afiliias-nst.info

org: type NS, class IN, ns b2.org.afiliias-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 21
Name Server: b2.org.afiliias-nst.org

org: type NS, class IN, ns d0.org.afiliias-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: d0.org.afiliias-nst.org

org: type NS, class IN, ns b0.org.afiliias-nst.org
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: b0.org.afiliias-nst.org

org: type NS, class IN, ns a2.org.afiliias-nst.info
Name: org
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Time to live: 170599
Data length: 5
Name Server: a2.org.afiliias-nst.info

[Request In: 5861]

[Time: 0.007560000 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
5866	2018-10-17 16:13:14.253147	202.117.112.3	10.173.88.157	DNS	230	Standard query response
0xb5f8 A ietf.org A 127.0.0.1 NS c0.org.afiliias-nst.info NS a0.org.afiliias-nst.info NS b2.org.afiliias-nst.org NS						
b0.org.afiliias-nst.org NS d0.org.afiliias-nst.org NS a2.org.afiliias-nst.info						

Frame 5866: 230 bytes on wire (1840 bits), 230 bytes captured (1840 bits) on interface 0

Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})

Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}

Encapsulation type: Ethernet (1)

Arrival Time: Oct 17, 2018 16:13:14.253147000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1539763994.253147000 seconds

[Time delta from previous captured frame: 0.000001000 seconds]

[Time delta from previous displayed frame: 0.000001000 seconds]

[Time since reference or first frame: 31.623910000 seconds]

Frame Number: 5866

Frame Length: 230 bytes (1840 bits)

Capture Length: 230 bytes (1840 bits)

[Frame is marked: False]

[Frame is ignored: False]

```

[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 210
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 208
Identification: 0x51b4 (20916)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8ea6 [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 65423
Source Port: 53
Destination Port: 65423
Length: 188
Checksum: 0x9990 [unverified]
[Checksum Status: Unverified]
[Stream index: 6]
Domain Name System (response)
Transaction ID: 0xb5f8
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: 1
Authority RRs: 6
Additional RRs: 0
Queries
    ietf.org: type A, class IN
        Name: ietf.org
        [Name Length: 8]
        [Label Count: 2]
        Type: A (Host Address) (1)
        Class: IN (0x0001)
Answers
    ietf.org: type A, class IN, addr 127.0.0.1
        Name: ietf.org
        Type: A (Host Address) (1)
        Class: IN (0x0001)
        Time to live: 0

```

```

    Data length: 4
    Address: 127.0.0.1
Authoritative nameservers
  org: type NS, class IN, ns c0.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 25
    Name Server: c0.org.afiliias-nst.info
  org: type NS, class IN, ns a0.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: a0.org.afiliias-nst.info
  org: type NS, class IN, ns b2.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 21
    Name Server: b2.org.afiliias-nst.org
  org: type NS, class IN, ns b0.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: b0.org.afiliias-nst.org
  org: type NS, class IN, ns d0.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: d0.org.afiliias-nst.org
  org: type NS, class IN, ns a2.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: a2.org.afiliias-nst.info
[Request In: 5864]
[Time: 0.002420000 seconds]
No.      Time                Source                Destination          Protocol Length Info
 5867 2018-10-17 16:13:14.258774 10.173.88.157        202.117.112.3        DNS             84      Standard query 0x6b0e
A trustee.ietf.org
Frame 5867: 84 bytes on wire (672 bits), 84 bytes captured (672 bits) on interface 0
  Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
    Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
  Encapsulation type: Ethernet (1)
  Arrival Time: Oct 17, 2018 16:13:14.258774000 中国标准时间
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1539763994.258774000 seconds
  [Time delta from previous captured frame: 0.005627000 seconds]
  [Time delta from previous displayed frame: 0.005627000 seconds]
  [Time since reference or first frame: 31.629537000 seconds]
  Frame Number: 5867
  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:pppoe:ppp:ip:udp:dns]
  [Coloring Rule Name: UDP]
  [Coloring Rule String: udp]
Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
  Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
    Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
  Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
    Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)

```

Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 64
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 62
Identification: 0x3789 (14217)
Flags: 0x0000
0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa563 [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 56551, Dst Port: 53
Source Port: 56551
Destination Port: 53
Length: 42
Checksum: 0x1f92 [unverified]
[Checksum Status: Unverified]
[Stream index: 7]
Domain Name System (query)
Transaction ID: 0x6b0e
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
trustee.ietf.org: type A, class IN
Name: trustee.ietf.org
[Name Length: 16]
[Label Count: 3]
Type: A (Host Address) (1)
Class: IN (0x0001)
[Response In: 5869]
No. Time Source Destination Protocol Length Info
5868 2018-10-17 16:13:14.263024 10.173.88.157 202.117.112.3 DNS 76 Standard query 0x319e
A ietf.org
Frame 5868: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.263024000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.263024000 seconds
[Time delta from previous captured frame: 0.004250000 seconds]
[Time delta from previous displayed frame: 0.004250000 seconds]
[Time since reference or first frame: 31.633787000 seconds]
Frame Number: 5868
Frame Length: 76 bytes (608 bits)
Capture Length: 76 bytes (608 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:pppoe:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]

Ethernet II, Src: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0), Dst: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Destination: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0 = IG bit: Individual address (unicast)
Source: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0 = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 56
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 10.173.88.157, Dst: 202.117.112.3
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: 54
Identification: 0x378a (14218)
Flags: 0x0000
0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0xa56a [validation disabled]
[Header checksum status: Unverified]
Source: 10.173.88.157
Destination: 202.117.112.3
User Datagram Protocol, Src Port: 56904, Dst Port: 53
Source Port: 56904
Destination Port: 53
Length: 34
Checksum: 0xaa74 [unverified]
[Checksum Status: Unverified]
[Stream index: 8]
Domain Name System (query)
Transaction ID: 0x319e
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
ietf.org: type A, class IN
Name: ietf.org
[Name Length: 8]
[Label Count: 2]
Type: A (Host Address) (1)
Class: IN (0x0001)
[Response In: 5870]
No. Time Source Destination Protocol Length Info
5869 2018-10-17 16:13:14.266894 202.117.112.3 10.173.88.157 DNS 252 Standard query response
0x6b0e A trustee.ietf.org CNAME ietf.org A 127.0.0.1 NS a2.org.afiliias-nst.info NS b0.org.afiliias-nst.org NS a0.org.afiliias-nst.info NS c0.org.afiliias-nst.info NS b2.org.afiliias-nst.org NS d0.org.afiliias-nst.org
Frame 5869: 252 bytes on wire (2016 bits), 252 bytes captured (2016 bits) on interface 0
Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})
Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}
Encapsulation type: Ethernet (1)
Arrival Time: Oct 17, 2018 16:13:14.266894000 中国标准时间
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1539763994.266894000 seconds
[Time delta from previous captured frame: 0.003870000 seconds]

```

[Time delta from previous displayed frame: 0.003870000 seconds]
[Time since reference or first frame: 31.637657000 seconds]
Frame Number: 5869
Frame Length: 252 bytes (2016 bits)
Capture Length: 252 bytes (2016 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ppp:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 232
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 230
Identification: 0x51b5 (20917)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8e8f [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 56551
Source Port: 53
Destination Port: 56551
Length: 210
Checksum: 0xc72c [unverified]
[Checksum Status: Unverified]
[Stream index: 7]
Domain Name System (response)
Transaction ID: 0x6b0e
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: 2
Authority RRs: 6
Additional RRs: 0
Queries
trustee.ietf.org: type A, class IN
Name: trustee.ietf.org
[Name Length: 16]
[Label Count: 3]
Type: A (Host Address) (1)

```

```
Class: IN (0x0001)
Answers
trustee.ietf.org: type CNAME, class IN, cname ietf.org
  Name: trustee.ietf.org
  Type: CNAME (Canonical NAME for an alias) (5)
  Class: IN (0x0001)
  Time to live: 1230
  Data length: 2
  CNAME: ietf.org
ietf.org: type A, class IN, addr 127.0.0.1
  Name: ietf.org
  Type: A (Host Address) (1)
  Class: IN (0x0001)
  Time to live: 0
  Data length: 4
  Address: 127.0.0.1
```

```
Authoritative nameservers
org: type NS, class IN, ns a2.org.afilias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 25
  Name Server: a2.org.afilias-nst.info
org: type NS, class IN, ns b0.org.afilias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 21
  Name Server: b0.org.afilias-nst.org
org: type NS, class IN, ns a0.org.afilias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: a0.org.afilias-nst.info
org: type NS, class IN, ns c0.org.afilias-nst.info
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: c0.org.afilias-nst.info
org: type NS, class IN, ns b2.org.afilias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: b2.org.afilias-nst.org
org: type NS, class IN, ns d0.org.afilias-nst.org
  Name: org
  Type: NS (authoritative Name Server) (2)
  Class: IN (0x0001)
  Time to live: 170599
  Data length: 5
  Name Server: d0.org.afilias-nst.org
```

[Request In: 5867]

[Time: 0.008120000 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
5870	2018-10-17 16:13:14.266895	202.117.112.3	10.173.88.157	DNS	230	Standard query response
0x319e A	ietf.org A	127.0.0.1 NS	c0.org.afilias-nst.info NS	a2.org.afilias-nst.info NS	a0.org.afilias-nst.info NS	d0.org.afilias-nst.org NS
		b2.org.afilias-nst.org NS	b0.org.afilias-nst.org			

Frame 5870: 230 bytes on wire (1840 bits), 230 bytes captured (1840 bits) on interface 0

Interface id: 0 (\Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6})

Interface name: \Device\NPF_{5D52E7A2-EE68-4250-BF9F-5249138CADE6}

Encapsulation type: Ethernet (1)

Arrival Time: Oct 17, 2018 16:13:14.266895000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1539763994.266895000 seconds

[Time delta from previous captured frame: 0.000001000 seconds]

[Time delta from previous displayed frame: 0.000001000 seconds]

[Time since reference or first frame: 31.637658000 seconds]

Frame Number: 5870

Frame Length: 230 bytes (1840 bits)


```

Capture Length: 230 bytes (1840 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ppp:ppp:ip:udp:dns]
[Coloring Rule Name: UDP]
[Coloring Rule String: udp]
Ethernet II, Src: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf), Dst: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Destination: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
Address: AsustekC_e2:8a:f0 (34:97:f6:e2:8a:f0)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Source: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
Address: HuaweiTe_3e:8f:cf (94:db:da:3e:8f:cf)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: PPPoE Session (0x8864)
PPP-over-Ethernet Session
0001 .... = Version: 1
.... 0001 = Type: 1
Code: Session Data (0x00)
Session ID: 0x629d
Payload Length: 210
Point-to-Point Protocol
Protocol: Internet Protocol version 4 (0x0021)
Internet Protocol Version 4, Src: 202.117.112.3, Dst: 10.173.88.157
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: 208
Identification: 0x51b6 (20918)
Flags: 0x0000
0... .... = Reserved bit: Not set
.0.. .... = Don't fragment: Not set
..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment offset: 0
Time to live: 60
Protocol: UDP (17)
Header checksum: 0x8ea4 [validation disabled]
[Header checksum status: Unverified]
Source: 202.117.112.3
Destination: 10.173.88.157
User Datagram Protocol, Src Port: 53, Dst Port: 56904
Source Port: 53
Destination Port: 56904
Length: 188
Checksum: 0xfd51 [unverified]
[Checksum Status: Unverified]
[Stream index: 8]
Domain Name System (response)
Transaction ID: 0x319e
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: 1
Authority RRs: 6
Additional RRs: 0
Queries
    ietf.org: type A, class IN
        Name: ietf.org
        [Name Length: 8]
        [Label Count: 2]
        Type: A (Host Address) (1)
        Class: IN (0x0001)
Answers
    ietf.org: type A, class IN, addr 127.0.0.1
        Name: ietf.org

```

```
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 0
Data length: 4
Address: 127.0.0.1
Authoritative nameservers
org: type NS, class IN, ns c0.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 25
    Name Server: c0.org.afiliias-nst.info
org: type NS, class IN, ns a2.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: a2.org.afiliias-nst.info
org: type NS, class IN, ns a0.org.afiliias-nst.info
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: a0.org.afiliias-nst.info
org: type NS, class IN, ns d0.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 21
    Name Server: d0.org.afiliias-nst.org
org: type NS, class IN, ns b2.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: b2.org.afiliias-nst.org
org: type NS, class IN, ns b0.org.afiliias-nst.org
    Name: org
    Type: NS (authoritative Name Server) (2)
    Class: IN (0x0001)
    Time to live: 170599
    Data length: 5
    Name Server: b0.org.afiliias-nst.org
[Request In: 5868]
[Time: 0.003871000 seconds]
```