

No.	Time	Source	Destination	Protocol	Length	Info
18	84.123114154	127.0.0.1	127.0.0.1	TCP	74	38406 → 9999 [SYN] Seq=0 Win=65495 Len=0

MSS=65495 SACK_PERM=1 TSval=2247315096 TSecr=0 WS=128

Frame 18: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626777186 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626777186 seconds

[Time delta from previous captured frame: 1.682682006 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 84.123114154 seconds]

Frame Number: 18

Frame Length: 74 bytes (592 bits)

Capture Length: 74 bytes (592 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP SYN/FIN]

[Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 60

Identification: 0xad9e (44446)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x8f1b [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 38406, Dst Port: 9999, Seq: 0, Len: 0

Source Port: 38406

Destination Port: 9999

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 0 (relative sequence number)

Sequence number (raw): 3403505307

[Next sequence number: 1 (relative sequence number)]

Acknowledgment number: 0

Acknowledgment number (raw): 0

1010 = Header Length: 40 bytes (10)

Flags: 0x002 (SYN)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... 0... = ECN-Echo: Not set

.... 0... = Urgent: Not set

.... 0... = Acknowledgment: Not set

.... 0... = Push: Not set

.... 0... = Reset: Not set

.... 1... = Syn: Set

[Expert Info (Chat/Sequence): Connection establish request (SYN): server port 9999]

[Connection establish request (SYN): server port 9999]

[Severity level: Chat]

[Group: Sequence]

.... 0... = Fin: Not set

[TCP Flags:S.]

Window size value: 65495

[Calculated window size: 65495]

Checksum: 0xfe30 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (20 bytes), Maximum segment size, SACK permitted, Timestamps, No-Operation (NOP), Window scale

TCP Option - Maximum segment size: 65495 bytes

Kind: Maximum Segment Size (2)

Length: 4

MSS Value: 65495

TCP Option - SACK permitted

Kind: SACK Permitted (4)

```
    Length: 2
TCP Option - Timestamps: TSval 2247315096, TSecr 0
    Kind: Time Stamp Option (8)
    Length: 10
    Timestamp value: 2247315096
    Timestamp echo reply: 0
TCP Option - No-Operation (NOP)
    Kind: No-Operation (1)
TCP Option - Window scale: 7 (multiply by 128)
    Kind: Window Scale (3)
    Length: 3
    Shift count: 7
    [Multiplier: 128]
[Timestamps]
[Time since first frame in this TCP stream: 0.000000000 seconds]
[Time since previous frame in this TCP stream: 0.000000000 seconds]
```

```
No.      Time                Source                Destination            Protocol Length Info
  19 84.123125396 127.0.0.1            127.0.0.1             TCP      74      9999 → 38406 [SYN, ACK] Seq=0 Ack=1
Win=65483 Len=0 MSS=65495 SACK_PERM=1 TSval=2247315096 TSecr=2247315096 WS=128
Frame 19: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface lo, id 0
  Interface id: 0 (lo)
    Interface name: lo
    Encapsulation type: Ethernet (1)
    Arrival Time: Feb 28, 2023 09:18:18.626788428 EET
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677568698.626788428 seconds
    [Time delta from previous captured frame: 0.000011242 seconds]
    [Time delta from previous displayed frame: 0.000011242 seconds]
    [Time since reference or first frame: 84.123125396 seconds]
    Frame Number: 19
    Frame Length: 74 bytes (592 bits)
    Capture Length: 74 bytes (592 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP SYN/FIN]
    [Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]
  Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
    Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)
      Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
        ....0. .... = LG bit: Globally unique address (factory default)
        ....0. .... = IG bit: Individual address (unicast)
      Source: 00:00:00_00:00:00 (00:00:00:00:00:00)
        Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
          ....0. .... = LG bit: Globally unique address (factory default)
          ....0. .... = IG bit: Individual address (unicast)
      Type: IPv4 (0x0800)
    Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
      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: 60
      Identification: 0x0000 (0)
      Flags: 0x4000, 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: TCP (6)
      Header checksum: 0x3cba [validation disabled]
      [Header checksum status: Unverified]
      Source: 127.0.0.1
      Destination: 127.0.0.1
    Transmission Control Protocol, Src Port: 9999, Dst Port: 38406, Seq: 0, Ack: 1, Len: 0
      Source Port: 9999
      Destination Port: 38406
      [Stream index: 0]
      [TCP Segment Len: 0]
      Sequence number: 0 (relative sequence number)
      Sequence number (raw): 445796993
      [Next sequence number: 1 (relative sequence number)]
      Acknowledgment number: 1 (relative ack number)
      Acknowledgment number (raw): 3403505308
      1010 .... = Header Length: 40 bytes (10)
      Flags: 0x012 (SYN, ACK)
        000. .... = Reserved: Not set
        ...0 .... = Nonce: Not set
        ....0... = Congestion Window Reduced (CWR): Not set
        ....0... = ECN-Echo: Not set
        ....0... = Urgent: Not set
        ....1... = Acknowledgment: Set
        ....0... = Push: Not set
        ....0... = Reset: Not set
        ....1... = Syn: Set
        [Expert Info (Chat/Sequence): Connection establish acknowledge (SYN+ACK): server port 9999]
          [Connection establish acknowledge (SYN+ACK): server port 9999]
          [Severity level: Chat]
          [Group: Sequence]
        ....0... = Fin: Not set
        [TCP Flags: .....A..S.]
      Window size value: 65483
      [Calculated window size: 65483]
      Checksum: 0xfe30 [unverified]
      [Checksum Status: Unverified]
      Urgent pointer: 0
      Options: (20 bytes), Maximum segment size, SACK permitted, Timestamps, No-Operation (NOP), Window scale
        TCP Option - Maximum segment size: 65495 bytes
          Kind: Maximum Segment Size (2)
          Length: 4
          MSS Value: 65495
        TCP Option - SACK permitted
          Kind: SACK Permitted (4)
```

```
    Length: 2
TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096
    Kind: Time Stamp Option (8)
    Length: 10
    Timestamp value: 2247315096
    Timestamp echo reply: 2247315096
TCP Option - No-Operation (NOP)
    Kind: No-Operation (1)
TCP Option - Window scale: 7 (multiply by 128)
    Kind: Window Scale (3)
    Length: 3
    Shift count: 7
    [Multiplier: 128]
[SEQ/ACK analysis]
    [This is an ACK to the segment in frame: 18]
    [The RTT to ACK the segment was: 0.000011242 seconds]
    [iRTT: 0.000019847 seconds]
[Timestamps]
    [Time since first frame in this TCP stream: 0.000011242 seconds]
    [Time since previous frame in this TCP stream: 0.000011242 seconds]
```

No.	Time	Source	Destination	Protocol	Length	Info
20	84.123134001	127.0.0.1	127.0.0.1	TCP	66	38406 → 9999 [ACK] Seq=1 Ack=1 Win=65536

Len=0 TSval=2247315096 TSecr=2247315096

Frame 20: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626797033 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626797033 seconds

[Time delta from previous captured frame: 0.000008605 seconds]

[Time delta from previous displayed frame: 0.000008605 seconds]

[Time since reference or first frame: 84.123134001 seconds]

Frame Number: 20

Frame Length: 66 bytes (528 bits)

Capture Length: 66 bytes (528 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP]

[Coloring Rule String: tcp]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 52

Identification: 0xad9f (44447)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x8f22 [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 38406, Dst Port: 9999, Seq: 1, Ack: 1, Len: 0

Source Port: 38406

Destination Port: 9999

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 3403505308

[Next sequence number: 1 (relative sequence number)]

Acknowledgment number: 1 (relative ack number)

Acknowledgment number (raw): 445796994

1000 = Header Length: 32 bytes (8)

Flags: 0x010 (ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... .0.. = ECN-Echo: Not set

.... ..0. = Urgent: Not set

.... ...1 = Acknowledgment: Set

.... 0... = Push: Not set

....0.. = Reset: Not set

....0. = Syn: Not set

....0 = Fin: Not set

[TCP Flags:A....]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe28 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)

Length: 10

Timestamp value: 2247315096

Timestamp echo reply: 2247315096

[SEQ/ACK analysis]

[This is an ACK to the segment in frame: 19]

[The RTT to ACK the segment was: 0.000008605 seconds]

[iRTT: 0.000019847 seconds]

[Timestamps]

[Time since first frame in this TCP stream: 0.000019847 seconds]

[Time since previous frame in this TCP stream: 0.000008605 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
21	84.123152324	127.0.0.1	127.0.0.1	TCP	89	38406 → 9999 [PSH, ACK] Seq=1 Ack=1

Win=65536 Len=23 TSval=2247315096 TSecr=2247315096

Frame 21: 89 bytes on wire (712 bits), 89 bytes captured (712 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626815356 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626815356 seconds

[Time delta from previous captured frame: 0.000018323 seconds]

[Time delta from previous displayed frame: 0.000018323 seconds]

[Time since reference or first frame: 84.123152324 seconds]

Frame Number: 21

Frame Length: 89 bytes (712 bits)

Capture Length: 89 bytes (712 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp:data]

[Coloring Rule Name: TCP]

[Coloring Rule String: tcp]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 75

Identification: 0xada0 (44448)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x8f0a [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 38406, Dst Port: 9999, Seq: 1, Ack: 1, Len: 23

Source Port: 38406

Destination Port: 9999

[Stream index: 0]

[TCP Segment Len: 23]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 3403505308

[Next sequence number: 24 (relative sequence number)]

Acknowledgment number: 1 (relative ack number)

Acknowledgment number (raw): 445796994

1000 = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... .0.. = ECN-Echo: Not set

.... ..0. = Urgent: Not set

.... ...1 = Acknowledgment: Set

....1... = Push: Set

....0.. = Reset: Not set

....0. = Syn: Not set

....0 = Fin: Not set

[TCP Flags:AP...]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe3f [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)

Length: 10

Timestamp value: 2247315096

Timestamp echo reply: 2247315096

```
[SEQ/ACK analysis]
  [iRTT: 0.000019847 seconds]
  [Bytes in flight: 23]
  [Bytes sent since last PSH flag: 23]
[Timestamps]
  [Time since first frame in this TCP stream: 0.000038170 seconds]
  [Time since previous frame in this TCP stream: 0.000018323 seconds]
TCP payload (23 bytes)
Data (23 bytes)
0000  41 74 68 69 73 20 69 73 20 61 20 73 69 6d 70 6c  Athis is a simpl
0010  65 20 74 65 73 74 0a                               e test.
      Data: 417468697320697320612073696d706c6520746573740a
      [Length: 23]
```


No.	Time	Source	Destination	Protocol	Length	Info
22	84.123154848	127.0.0.1	127.0.0.1	TCP	66	9999 → 38406 [ACK] Seq=1 Ack=24 Win=65536

Len=0 TSval=2247315096 TSecr=2247315096

Frame 22: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626817880 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626817880 seconds

[Time delta from previous captured frame: 0.000002524 seconds]

[Time delta from previous displayed frame: 0.000002524 seconds]

[Time since reference or first frame: 84.123154848 seconds]

Frame Number: 22

Frame Length: 66 bytes (528 bits)

Capture Length: 66 bytes (528 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP]

[Coloring Rule String: tcp]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 52

Identification: 0x3a4e (14926)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x0274 [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 9999, Dst Port: 38406, Seq: 1, Ack: 24, Len: 0

Source Port: 9999

Destination Port: 38406

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 445796994

[Next sequence number: 1 (relative sequence number)]

Acknowledgment number: 24 (relative ack number)

Acknowledgment number (raw): 3403505331

1000 = Header Length: 32 bytes (8)

Flags: 0x010 (ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... .0.. = ECN-Echo: Not set

.... ..0. = Urgent: Not set

.... ...1 = Acknowledgment: Set

.... 0... = Push: Not set

....0.. = Reset: Not set

....0. = Syn: Not set

....0 = Fin: Not set

[TCP Flags:A....]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe28 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)

Length: 10

Timestamp value: 2247315096

Timestamp echo reply: 2247315096

[SEQ/ACK analysis]

[This is an ACK to the segment in frame: 21]

[The RTT to ACK the segment was: 0.000002524 seconds]

[iRTT: 0.000019847 seconds]

[Timestamps]

[Time since first frame in this TCP stream: 0.000040694 seconds]

[Time since previous frame in this TCP stream: 0.000002524 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
23	84.123282226	127.0.0.1	127.0.0.1	TCP	87	9999 → 38406 [PSH, ACK] Seq=1 Ack=24

Win=65536 Len=21 TSval=2247315096 TSecr=2247315096

Frame 23: 87 bytes on wire (696 bits), 87 bytes captured (696 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626945258 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626945258 seconds

[Time delta from previous captured frame: 0.000127378 seconds]

[Time delta from previous displayed frame: 0.000127378 seconds]

[Time since reference or first frame: 84.123282226 seconds]

Frame Number: 23

Frame Length: 87 bytes (696 bits)

Capture Length: 87 bytes (696 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp:data]

[Coloring Rule Name: TCP]

[Coloring Rule String: tcp]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 73

Identification: 0x3a4f (14927)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x025e [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 9999, Dst Port: 38406, Seq: 1, Ack: 24, Len: 21

Source Port: 9999

Destination Port: 38406

[Stream index: 0]

[TCP Segment Len: 21]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 445796994

[Next sequence number: 22 (relative sequence number)]

Acknowledgment number: 24 (relative ack number)

Acknowledgment number (raw): 3403505331

1000 = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... 0... = ECN-Echo: Not set

.... 0... = Urgent: Not set

.... 1... = Acknowledgment: Set

.... 1... = Push: Set

.... 0... = Reset: Not set

.... 0... = Syn: Not set

.... 0... = Fin: Not set

[TCP Flags:AP...]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe3d [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)

Length: 10

Timestamp value: 2247315096

Timestamp echo reply: 2247315096

```
[SEQ/ACK analysis]
  [iRTT: 0.000019847 seconds]
  [Bytes in flight: 21]
  [Bytes sent since last PSH flag: 21]
[Timestamps]
  [Time since first frame in this TCP stream: 0.000168072 seconds]
  [Time since previous frame in this TCP stream: 0.000127378 seconds]
TCP payload (21 bytes)
Data (21 bytes)
0000  20 20 20 20 61 65 65 68 69 69 69 6c 6d 70 73 73      ae h i i l m p s s
0010  73 73 74 74 74                                     s s t t t
Data: 20202020616565686969696c6d70737373747474
[Length: 21]
```

No.	Time	Source	Destination	Protocol	Length	Info
24	84.123285812	127.0.0.1	127.0.0.1	TCP	66	38406 → 9999 [ACK] Seq=24 Ack=22 Win=65536

Len=0 TSval=2247315096 TSecr=2247315096

Frame 24: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626948844 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626948844 seconds

[Time delta from previous captured frame: 0.000003586 seconds]

[Time delta from previous displayed frame: 0.000003586 seconds]

[Time since reference or first frame: 84.123285812 seconds]

Frame Number: 24

Frame Length: 66 bytes (528 bits)

Capture Length: 66 bytes (528 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP]

[Coloring Rule String: tcp]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 52

Identification: 0xada1 (44449)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x8f20 [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 38406, Dst Port: 9999, Seq: 24, Ack: 22, Len: 0

Source Port: 38406

Destination Port: 9999

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 24 (relative sequence number)

Sequence number (raw): 3403505331

[Next sequence number: 24 (relative sequence number)]

Acknowledgment number: 22 (relative ack number)

Acknowledgment number (raw): 445797015

1000 = Header Length: 32 bytes (8)

Flags: 0x010 (ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... .0.. = ECN-Echo: Not set

.... ..0. = Urgent: Not set

.... ...1 = Acknowledgment: Set

.... 0... = Push: Not set

....0.. = Reset: Not set

....0. = Syn: Not set

....0 = Fin: Not set

[TCP Flags:A....]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe28 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)

Length: 10

Timestamp value: 2247315096

Timestamp echo reply: 2247315096

[SEQ/ACK analysis]

[This is an ACK to the segment in frame: 23]

[The RTT to ACK the segment was: 0.000003586 seconds]

[iRTT: 0.000019847 seconds]

[Timestamps]

[Time since first frame in this TCP stream: 0.000171658 seconds]

[Time since previous frame in this TCP stream: 0.000003586 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
25	84.123296115	127.0.0.1	127.0.0.1	TCP	66	9999 → 38406 [FIN, ACK] Seq=22 Ack=24

Win=65536 Len=0 TSval=2247315096 TSecr=2247315096

Frame 25: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626959147 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626959147 seconds

[Time delta from previous captured frame: 0.000010303 seconds]

[Time delta from previous displayed frame: 0.000010303 seconds]

[Time since reference or first frame: 84.123296115 seconds]

Frame Number: 25

Frame Length: 66 bytes (528 bits)

Capture Length: 66 bytes (528 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP SYN/FIN]

[Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 52

Identification: 0x3a50 (14928)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x0272 [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 9999, Dst Port: 38406, Seq: 22, Ack: 24, Len: 0

Source Port: 9999

Destination Port: 38406

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 22 (relative sequence number)

Sequence number (raw): 445797015

[Next sequence number: 23 (relative sequence number)]

Acknowledgment number: 24 (relative ack number)

Acknowledgment number (raw): 3403505331

1000 = Header Length: 32 bytes (8)

Flags: 0x011 (FIN, ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... .0.. = ECN-Echo: Not set

.... ..0. = Urgent: Not set

.... ...1 = Acknowledgment: Set

.... 0... = Push: Not set

....0.. = Reset: Not set

....0. = Syn: Not set

....1 = Fin: Set

[Expert Info (Chat/Sequence): Connection finish (FIN)]

[Connection finish (FIN)]

[Severity level: Chat]

[Group: Sequence]

[TCP Flags:A...F]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe28 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)
Length: 10
Timestamp value: 2247315096
Timestamp echo reply: 2247315096

[Timestamps]

[Time since first frame in this TCP stream: 0.000181961 seconds]

[Time since previous frame in this TCP stream: 0.000010303 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
26	84.123300741	127.0.0.1	127.0.0.1	TCP	66	38406 → 9999 [FIN, ACK] Seq=24 Ack=23

Win=65536 Len=0 TSval=2247315096 TSecr=2247315096

Frame 26: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0

Interface id: 0 (lo)

Interface name: lo

Encapsulation type: Ethernet (1)

Arrival Time: Feb 28, 2023 09:18:18.626963773 EET

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1677568698.626963773 seconds

[Time delta from previous captured frame: 0.000004626 seconds]

[Time delta from previous displayed frame: 0.000004626 seconds]

[Time since reference or first frame: 84.123300741 seconds]

Frame Number: 26

Frame Length: 66 bytes (528 bits)

Capture Length: 66 bytes (528 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: TCP SYN/FIN]

[Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]

Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)

Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Source: 00:00:00_00:00:00 (00:00:00:00:00:00)

Address: 00:00:00_00:00:00 (00:00:00:00:00:00)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1

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: 52

Identification: 0xada2 (44450)

Flags: 0x4000, 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: TCP (6)

Header checksum: 0x8f1f [validation disabled]

[Header checksum status: Unverified]

Source: 127.0.0.1

Destination: 127.0.0.1

Transmission Control Protocol, Src Port: 38406, Dst Port: 9999, Seq: 24, Ack: 23, Len: 0

Source Port: 38406

Destination Port: 9999

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 24 (relative sequence number)

Sequence number (raw): 3403505331

[Next sequence number: 25 (relative sequence number)]

Acknowledgment number: 23 (relative ack number)

Acknowledgment number (raw): 445797016

1000 = Header Length: 32 bytes (8)

Flags: 0x011 (FIN, ACK)

000. = Reserved: Not set

...0 = Nonce: Not set

.... 0... = Congestion Window Reduced (CWR): Not set

.... 0... = ECN-Echo: Not set

.... 0... = Urgent: Not set

.... 1... = Acknowledgment: Set

.... 0... = Push: Not set

.... 0... = Reset: Not set

.... 0... = Syn: Not set

.... 1... = Fin: Set

[Expert Info (Chat/Sequence): Connection finish (FIN)]

[Connection finish (FIN)]

[Severity level: Chat]

[Group: Sequence]

[TCP Flags:A...F]

Window size value: 512

[Calculated window size: 65536]

[Window size scaling factor: 128]

Checksum: 0xfe28 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - No-Operation (NOP)

Kind: No-Operation (1)

TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096

Kind: Time Stamp Option (8)
Length: 10
Timestamp value: 2247315096
Timestamp echo reply: 2247315096

[SEQ/ACK analysis]

[This is an ACK to the segment in frame: 25]
[The RTT to ACK the segment was: 0.000004626 seconds]
[iRTT: 0.000019847 seconds]

[Timestamps]

[Time since first frame in this TCP stream: 0.000186587 seconds]
[Time since previous frame in this TCP stream: 0.000004626 seconds]

No.	Time	Source	Destination	Protocol	Length	Info
27	84.123303533	127.0.0.1	127.0.0.1	TCP	66	9999 → 38406 [ACK] Seq=23 Ack=25 Win=65536

Len=0 TSval=2247315096 TSecr=2247315096
Frame 27: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0
Interface id: 0 (lo)
Interface name: lo
Encapsulation type: Ethernet (1)
Arrival Time: Feb 28, 2023 09:18:18.626966565 EET
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1677568698.626966565 seconds
[Time delta from previous captured frame: 0.000002792 seconds]
[Time delta from previous displayed frame: 0.000002792 seconds]
[Time since reference or first frame: 84.123303533 seconds]
Frame Number: 27
Frame Length: 66 bytes (528 bits)
Capture Length: 66 bytes (528 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp]
[Coloring Rule Name: TCP]
[Coloring Rule String: tcp]
Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)
Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
.... ..0. = LG bit: Globally unique address (factory default)
.... ...0 = IG bit: Individual address (unicast)
Source: 00:00:00_00:00:00 (00:00:00:00:00:00)
Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
.... ..0. = LG bit: Globally unique address (factory default)
.... ...0 = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
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: 52
Identification: 0x3a51 (14929)
Flags: 0x4000, 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: TCP (6)
Header checksum: 0x0271 [validation disabled]
[Header checksum status: Unverified]
Source: 127.0.0.1
Destination: 127.0.0.1
Transmission Control Protocol, Src Port: 9999, Dst Port: 38406, Seq: 23, Ack: 25, Len: 0
Source Port: 9999
Destination Port: 38406
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 23 (relative sequence number)
Sequence number (raw): 445797016
[Next sequence number: 23 (relative sequence number)]
Acknowledgment number: 25 (relative ack number)
Acknowledgment number (raw): 3403505332
1000 = Header Length: 32 bytes (8)
Flags: 0x010 (ACK)
000. = Reserved: Not set
...0 = Nonce: Not set
.... 0... = Congestion Window Reduced (CWR): Not set
.... .0.. = ECN-Echo: Not set
.... ..0. = Urgent: Not set
.... ...1 = Acknowledgment: Set
.... 0... = Push: Not set
....0.. = Reset: Not set
....0. = Syn: Not set
....0 = Fin: Not set
[TCP Flags:A....]
Window size value: 512
[Calculated window size: 65536]
[Window size scaling factor: 128]
Checksum: 0xfe28 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
TCP Option - No-Operation (NOP)
Kind: No-Operation (1)
TCP Option - No-Operation (NOP)
Kind: No-Operation (1)
TCP Option - Timestamps: TSval 2247315096, TSecr 2247315096
Kind: Time Stamp Option (8)
Length: 10
Timestamp value: 2247315096
Timestamp echo reply: 2247315096

[SEQ/ACK analysis]

[This is an ACK to the segment in frame: 26]

[The RTT to ACK the segment was: 0.000002792 seconds]

[iRTT: 0.000019847 seconds]

[Timestamps]

[Time since first frame in this TCP stream: 0.000189379 seconds]

[Time since previous frame in this TCP stream: 0.000002792 seconds]