

No.	Time	Source	Destination	Protocol	Length	Info
53	7.075657	192.168.1.100	64.233.169.104	TCP	66	4335 → 80

**[SYN]** Seq=0 Win=65535 Len=0 MSS=1460 WS=4 SACK\_PERM

Frame 53: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)

Encapsulation type: Ethernet (1)

Arrival Time: Sep 20, 2009 13:43:07.344792000 PDT

UTC Arrival Time: Sep 20, 2009 20:43:07.344792000 UTC

Epoch Arrival Time: 1253479387.344792000

[Time shift for this packet: 0.000000000 seconds]

[Time delta from previous captured frame: 0.001760000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 7.075657000 seconds]

Frame Number: 53

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: HTTP]

[Coloring Rule String: http || tcp.port == 80 || http2]

Ethernet II, Src: HonHaiPrecis\_0d:ca:8f (00:22:68:0d:ca:8f), Dst: CiscoLinksys\_45:1f:1b (00:22:6b:45:1f:1b)

Destination: CiscoLinksys\_45:1f:1b (00:22:6b:45:1f:1b)

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

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

Source: HonHaiPrecis\_0d:ca:8f (00:22:68:0d:ca:8f)

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

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

Type: IPv4 (0x0800)

[Stream index: 0]

Internet Protocol Version 4, Src: 192.168.1.100, Dst: 64.233.169.104

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: 0xa2aa (41642)

010. .... = Flags: 0x2, Don't fragment

0... .... = Reserved bit: Not set

.1.. .... = Don't fragment: Set

..0. .... = More fragments: Not set

...0 0000 0000 0000 = Fragment Offset: 0

Time to Live: 128

Protocol: TCP (6)

Header Checksum: 0xabbb [validation disabled]

[Header checksum status: Unverified]

Source Address: 192.168.1.100

Destination Address: 64.233.169.104

[Stream index: 5]

Transmission Control Protocol, Src Port: 4335, Dst Port: 80, Seq: 0, Len: 0

Source Port: 4335

Destination Port: 80

[Stream index: 2]

[Stream Packet Number: 1]

[Conversation completeness: Incomplete, DATA (15)]

..0. .... = RST: Absent

...0 .... = FIN: Absent

.... 1... = Data: Present

.... .1.. = ACK: Present

.... ..1. = SYN-ACK: Present

.... ...1 = SYN: Present

[Completeness Flags: ..DASS]

[TCP Segment Len: 0]

Sequence Number: 0 (relative sequence number)

Sequence Number (raw): 4164040420

```
[Next Sequence Number: 1      (relative sequence number)]
Acknowledgment Number: 0
Acknowledgment number (raw): 0
1000 .... = Header Length: 32 bytes (8)
Flags: 0x002 (SYN)
  000. .... = Reserved: Not set
  ...0 .... = Accurate ECN: Not set
  .... 0... = Congestion Window Reduced: 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 80]
    [Connection establish request (SYN): server port 80]
    [Severity level: Chat]
    [Group: Sequence]
  .... .... ...0 = Fin: Not set
  [TCP Flags: .....S.]
Window: 65535
[Calculated window size: 65535]
Checksum: 0x8262 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
Options: (12 bytes), Maximum segment size, No-Operation (NOP), Window scale, No-Operation
(NOP), No-Operation (NOP), SACK permitted
  TCP Option - Maximum segment size: 1460 bytes
    Kind: Maximum Segment Size (2)
    Length: 4
    MSS Value: 1460
  TCP Option - No-Operation (NOP)
    Kind: No-Operation (1)
  TCP Option - Window scale: 2 (multiply by 4)
    Kind: Window Scale (3)
    Length: 3
    Shift count: 2
    [Multiplier: 4]
  TCP Option - No-Operation (NOP)
    Kind: No-Operation (1)
  TCP Option - No-Operation (NOP)
    Kind: No-Operation (1)
  TCP Option - SACK permitted
    Kind: SACK Permitted (4)
    Length: 2
[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
   54  7.108986             64.233.169.104        192.168.1.100          TCP      66      80 → 4335
[SYN, ACK] Seq=0 Ack=1 Win=5720 Len=0 MSS=1430 SACK_PERM WS=64
Frame 54: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Sep 20, 2009 13:43:07.378121000 PDT
  UTC Arrival Time: Sep 20, 2009 20:43:07.378121000 UTC
  Epoch Arrival Time: 1253479387.378121000
  [Time shift for this packet: 0.000000000 seconds]
  [Time delta from previous captured frame: 0.033329000 seconds]
  [Time delta from previous displayed frame: 0.033329000 seconds]
  [Time since reference or first frame: 7.108986000 seconds]
  Frame Number: 54
  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: HTTP]
[Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: CiscoLinksys_45:1f:1b (00:22:6b:45:1f:1b), Dst: HonHaiPrecis_0d:ca:8f
(00:22:68:0d:ca:8f)
  Destination: HonHaiPrecis_0d:ca:8f (00:22:68:0d:ca:8f)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
  Source: CiscoLinksys_45:1f:1b (00:22:6b:45:1f:1b)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  [Stream index: 0]
Internet Protocol Version 4, Src: 64.233.169.104, Dst: 192.168.1.100
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x20 (DSCP: CS1, ECN: Not-ECT)
    0010 00.. = Differentiated Services Codepoint: Class Selector 1 (8)
    .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 52
  Identification: 0xf61a (63002)
  000. .... = Flags: 0x0
    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: 50
  Protocol: TCP (6)
  Header Checksum: 0xe62b [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 64.233.169.104
  Destination Address: 192.168.1.100
  [Stream index: 5]
Transmission Control Protocol, Src Port: 80, Dst Port: 4335, Seq: 0, Ack: 1, Len: 0
  Source Port: 80
  Destination Port: 4335
  [Stream index: 2]
  [Stream Packet Number: 2]
  [Conversation completeness: Incomplete, DATA (15)]
    ..0. .... = RST: Absent
    ...0 .... = FIN: Absent
    .... 1... = Data: Present
    .... .1.. = ACK: Present
    .... ..1. = SYN-ACK: Present
    .... ...1 = SYN: Present
  [Completeness Flags: ..DASS]
  [TCP Segment Len: 0]
  Sequence Number: 0 (relative sequence number)
  Sequence Number (raw): 3914283156
  [Next Sequence Number: 1 (relative sequence number)]
  Acknowledgment Number: 1 (relative ack number)
  Acknowledgment number (raw): 4164040421
  1000 .... = Header Length: 32 bytes (8)
  Flags: 0x012 (SYN, ACK)
    000. .... = Reserved: Not set
    ...0 .... = Accurate ECN: Not set
    .... 0... = Congestion Window Reduced: 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 80]
    [Connection establish acknowledge (SYN+ACK): server port 80]
    [Severity level: Chat]
```

[Group: Sequence]  
.... .... 0 = Fin: Not set  
[TCP Flags: .....A..S.]  
Window: 5720  
[Calculated window size: 5720]  
Checksum: 0x4a2f [unverified]  
[Checksum Status: Unverified]  
Urgent Pointer: 0  
Options: (12 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP), SACK permitted, No-Operation (NOP), Window scale  
TCP Option - Maximum segment size: 1430 bytes  
Kind: Maximum Segment Size (2)  
Length: 4  
MSS Value: 1430  
TCP Option - No-Operation (NOP)  
Kind: No-Operation (1)  
TCP Option - No-Operation (NOP)  
Kind: No-Operation (1)  
TCP Option - SACK permitted  
Kind: SACK Permitted (4)  
Length: 2  
TCP Option - No-Operation (NOP)  
Kind: No-Operation (1)  
TCP Option - Window scale: 6 (multiply by 64)  
Kind: Window Scale (3)  
Length: 3  
Shift count: 6  
[Multiplier: 64]  
[Timestamps]  
[Time since first frame in this TCP stream: 0.033329000 seconds]  
[Time since previous frame in this TCP stream: 0.033329000 seconds]  
[SEQ/ACK analysis]  
[This is an ACK to the segment in frame: 53]  
[The RTT to ACK the segment was: 0.033329000 seconds]  
[iRTT: 0.033396000 seconds]  

No.	Time	Source	Destination	Protocol	Length	Info
55	7.109053	192.168.1.100	64.233.169.104	TCP	54	4335 → 80

[ACK] Seq=1 Ack=1 Win=260176 Len=0  
Frame 55: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)  
Encapsulation type: Ethernet (1)  
Arrival Time: Sep 20, 2009 13:43:07.378188000 PDT  
UTC Arrival Time: Sep 20, 2009 20:43:07.378188000 UTC  
Epoch Arrival Time: 1253479387.378188000  
[Time shift for this packet: 0.000000000 seconds]  
[Time delta from previous captured frame: 0.000067000 seconds]  
[Time delta from previous displayed frame: 0.000067000 seconds]  
[Time since reference or first frame: 7.109053000 seconds]  
Frame Number: 55  
Frame Length: 54 bytes (432 bits)  
Capture Length: 54 bytes (432 bits)  
[Frame is marked: False]  
[Frame is ignored: False]  
[Protocols in frame: eth:ethertype:ip:tcp]  
[Coloring Rule Name: HTTP]  
[Coloring Rule String: http || tcp.port == 80 || http2]  
Ethernet II, Src: HonHaiPrecis\_0d:ca:8f (00:22:68:0d:ca:8f), Dst: CiscoLinksys\_45:1f:1b (00:22:6b:45:1f:1b)  
Destination: CiscoLinksys\_45:1f:1b (00:22:6b:45:1f:1b)  
.... 0. .... = LG bit: Globally unique address (factory default)  
.... 0. .... = IG bit: Individual address (unicast)  
Source: HonHaiPrecis\_0d:ca:8f (00:22:68:0d:ca:8f)  
.... 0. .... = LG bit: Globally unique address (factory default)  
.... 0. .... = IG bit: Individual address (unicast)  
Type: IPv4 (0x0800)  
[Stream index: 0]  
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 64.233.169.104

```
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: 40
Identification: 0xa2ab (41643)
010. .... = Flags: 0x2, Don't fragment
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 128
Protocol: TCP (6)
Header Checksum: 0xabc6 [validation disabled]
[Header checksum status: Unverified]
Source Address: 192.168.1.100
Destination Address: 64.233.169.104
[Stream index: 5]
Transmission Control Protocol, Src Port: 4335, Dst Port: 80, Seq: 1, Ack: 1, Len: 0
Source Port: 4335
Destination Port: 80
[Stream index: 2]
[Stream Packet Number: 3]
[Conversation completeness: Incomplete, DATA (15)]
  ..0. .... = RST: Absent
  .... ..0. .... = FIN: Absent
  .... 1... = Data: Present
  .... .1.. = ACK: Present
  .... ..1. = SYN-ACK: Present
  .... ...1 = SYN: Present
  [Completeness Flags: ..DASS]
[TCP Segment Len: 0]
Sequence Number: 1 (relative sequence number)
Sequence Number (raw): 4164040421
[Next Sequence Number: 1 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 3914283157
0101 .... = Header Length: 20 bytes (5)
Flags: 0x010 (ACK)
  000. .... = Reserved: Not set
  .... ..0. .... = Accurate ECN: Not set
  .... 0... = Congestion Window Reduced: 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: 65044
[Calculated window size: 260176]
[Window size scaling factor: 4]
Checksum: 0xac78 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
[Timestamps]
  [Time since first frame in this TCP stream: 0.033396000 seconds]
  [Time since previous frame in this TCP stream: 0.000067000 seconds]
[SEQ/ACK analysis]
  [This is an ACK to the segment in frame: 54]
  [The RTT to ACK the segment was: 0.000067000 seconds]
  [iRTT: 0.033396000 seconds]
```