

No.	Time	Source	Destination	Protocol	Length	Info
476	24.827751	128.119.245.12	192.168.1.109	TCP	110	80 → 2538 [SYN, ACK] Seq=0 Ack=1 Win=5840

Len=0 SACK_PERM=1

Frame 476: 110 bytes on wire (880 bits), 110 bytes captured (880 bits)

Encapsulation type: IEEE 802.11 plus radiotap radio header (23)

Arrival Time: Jun 29, 2007 10:05:31.900208000 中国标准时间

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1183082731.900208000 seconds

[Time delta from previous captured frame: 0.016520000 seconds]

[Time delta from previous displayed frame: 0.016520000 seconds]

[Time since reference or first frame: 24.827751000 seconds]

Frame Number: 476

Frame Length: 110 bytes (880 bits)

Capture Length: 110 bytes (880 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: radiotap:wlan_radio:wlan:llc:ip:tcp]

[Coloring Rule Name: HTTP]

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

Radiotap Header v0, Length 24

Header revision: 0

Header pad: 0

Header length: 24

Present flags

Present flags word: 0x000058ee

.... 0 = TSFT: Absent

.... 1. = Flags: Present

.... 1.. = Rate: Present

.... 1... = Channel: Present

.... 0 = FHSS: Absent

.... 1. = dBm Antenna Signal: Present

.... 1.. = dBm Antenna Noise: Present

.... 1... = Lock Quality: Present

.... 0 = TX Attenuation: Absent

.... 0. = dB TX Attenuation: Absent

.... 0.. = dBm TX Power: Absent

.... 1... = Antenna: Present

.... 1 = dB Antenna Signal: Present

.... 0. = dB Antenna Noise: Absent

.... 1.. = RX flags: Present

.... 0.. = Channel+: Absent

.... 0... = MCS information: Absent

.... 0 = A-MPDU Status: Absent

.... 0. = VHT information: Absent

.... 0.. = frame timestamp: Absent

.... 0... = HE information: Absent

.... 0 = HE-MU information: Absent

.... 0.. = 0 Length PSDU: Absent

.... 0... = L-SIG: Absent

.... 0 = Reserved: 0x0

.... 0. = Radiotap NS next: False

.... 0.. = Vendor NS next: False

.... 0... = Ext: Absent

Flags: 0x10

.... 0 = CFP: False

.... 0. = Preamble: Long

.... 0.. = WEP: False

.... 0... = Fragmentation: False

.... 1 = FCS at end: True

.... 0. = Data Pad: False

.... 0.. = Bad FCS: False

.... 0... = Short GI: False

Data Rate: 54.0 Mb/s

Channel frequency: 2437 [BG 6]

Channel flags: 0x00c0, Orthogonal Frequency-Division Multiplexing (OFDM), 2 GHz spectrum

.... 0 = Turbo: False

.... 0. = Complementary Code Keying (CCK): False

.... 1... = Orthogonal Frequency-Division Multiplexing (OFDM): True

.... 1 = 2 GHz spectrum: True

.... 0 = 5 GHz spectrum: False

.... 0. = Passive: False

.... 0.. = Dynamic CCK-OFDM: False

.... 0... = Gaussian Frequency Shift Keying (GFSK): False

.... 0 = GSM (900MHz): False

.... 0. = Static Turbo: False

.... 0.. = Half Rate Channel (10MHz Channel Width): False

.... 0... = Quarter Rate Channel (5MHz Channel Width): False

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Antenna signal: -38dBm
Antenna noise: -100dBm
Signal Quality: 82
Antenna: 0
dB antenna signal: 62dB
RX flags: 0x407d
.... ..0. = Bad PLCP: False
802.11 radio information
PHY type: 802.11g (6)
Short preamble: False
Proprietary mode: None (0)
Data rate: 54.0 Mb/s
Channel: 6
Frequency: 2437MHz
Signal strength (dB): 62dB
Signal strength (dBm): -38dBm
Noise level (dBm): -100dBm
Signal/noise ratio (dB): 62dB
[Duration: 36µs]
[Preamble: 20µs]
IEEE 802.11 QoS Data, Flags: ..mP..F.C
Type/Subtype: QoS Data (0x0028)
Frame Control Field: 0x8832
.... ..00 = Version: 0
.... 10.. = Type: Data frame (2)
1000 .... = Subtype: 8
Flags: 0x32
.... ..10 = DS status: Frame from DS to a STA via AP(To DS: 0 From DS: 1) (0x2)
.... .0.. = More Fragments: This is the last fragment
.... 0... = Retry: Frame is not being retransmitted
...1 .... = PWR MGT: STA will go to sleep
..1. .... = More Data: Data is buffered for STA at AP
..0.. .... = Protected flag: Data is not protected
0... .... = Order flag: Not strictly ordered
Duration/ID: 11560 (reserved)
Receiver address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
Transmitter address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
Destination address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
Source address: Cisco-Li_f4:eb:a8 (00:16:b6:f4:eb:a8)
BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
STA address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
.... .... 0000 = Fragment number: 0
1100 0011 0100 .... = Sequence number: 3124
Frame check sequence: 0xecdc407d [unverified]
[FCS Status: Unverified]
Qos Control: 0x0100
.... .... 0000 = TID: 0
[.... .... .000 = Priority: Best Effort (Best Effort) (0)]
.... .... ..0 .... = EOSP: Service period
.... .... .00. .... = Ack Policy: Normal Ack (0x0)
.... .... 0... .... = Payload Type: MSDU
0000 0001 .... .... = QAP PS Buffer State: 0x01
.... ..0. .... .... = Buffer State Indicated: No
Logical-Link Control
DSAP: SNAP (0xaa)
1010 101. = SAP: SNAP
.... ...0 = IG Bit: Individual
SSAP: SNAP (0xaa)
1010 101. = SAP: SNAP
.... ...0 = CR Bit: Command
Control field: U, func=UI (0x03)
000. 00.. = Command: Unnumbered Information (0x00)
.... ..11 = Frame type: Unnumbered frame (0x3)
Organization Code: 00:00:00 (Officially Xerox, but
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.109
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: 48
Identification: 0x0000 (0)
Flags: 0x4000, Don't fragment
0... .... .... = Reserved bit: Not set
.1.. .... .... = Don't fragment: Set
..0. .... .... = More fragments: Not set

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...0 0000 0000 0000 = Fragment offset: 0
Time to live: 49
Protocol: TCP (6)
Header checksum: 0x122f [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.109
Transmission Control Protocol, Src Port: 80, Dst Port: 2538, Seq: 0, Ack: 1, Len: 0
Source Port: 80
Destination Port: 2538
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 0      (relative sequence number)
[Next sequence number: 0      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0111 .... = Header Length: 28 bytes (7)
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 80]
    [Connection establish acknowledge (SYN+ACK): server port 80]
    [Severity level: Chat]
    [Group: Sequence]
    .... .... ...0 = Fin: Not set
    [TCP Flags: .....A..S.]
Window size value: 5840
[Calculated window size: 5840]
Checksum: 0x5ea5 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 208
    [Expert Info (Note/Protocol): The urgent pointer field is nonzero while the URG flag is not set]
    [The urgent pointer field is nonzero while the URG flag is not set]
    [Severity level: Note]
    [Group: Protocol]
Options: (8 bytes), CC.ECHO, No-Operation (NOP), No-Operation (NOP), SACK permitted
  TCP Option - CC
    Kind: CC.ECHO (13)
    Length: 4
    [Expert Info (Note/Sequence): option length should be 6]
    [option length should be 6]
    [Severity level: Note]
    [Group: Sequence]
  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
[SEQ/ACK analysis]
  [This is an ACK to the segment in frame: 474]
  [The RTT to ACK the segment was: 0.016658000 seconds]
  [iRTT: 0.016931000 seconds]
[Timestamps]
  [Time since first frame in this TCP stream: 0.016658000 seconds]
  [Time since previous frame in this TCP stream: 0.016658000 seconds]

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