

```
1 0.000000 192.168.1.102 128.119.245.12 TCP 62 1161 → 80 [SYN] Seq=0
Win=16384 Len=0 MSS=1460 SACK_PERM=1
Frame 1: 62 bytes on wire (496 bits), 62 bytes captured (496 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.570381000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.570381000 seconds
  [Time delta from previous captured frame: 0.000000000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 0.000000000 seconds]
  Frame Number: 1
  Frame Length: 62 bytes (496 bits)
  Capture Length: 62 bytes (496 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 0x1e1d (7709)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa518 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 0, Len: 0
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 0 (relative sequence number)
  Acknowledgment number: 0
  0111 .... = Header Length: 28 bytes (7)
  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
    ....0... = Syn: Set
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[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 size value: 16384
[Calculated window size: 16384]
Checksum: 0xf6e9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (8 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP), SACK permitted
 2 0.023172      128.119.245.12      192.168.1.102      TCP      62      80 → 1161 [SYN, ACK]
Seq=0 Ack=1 Win=5840 Len=0 MSS=1460 SACK_PERM=1
Frame 2: 62 bytes on wire (496 bits), 62 bytes captured (496 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.593553000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.593553000 seconds
[Time delta from previous captured frame: 0.023172000 seconds]
[Time delta from previous displayed frame: 0.023172000 seconds]
[Time since reference or first frame: 0.023172000 seconds]
Frame Number: 2
Frame Length: 62 bytes (496 bits)
Capture Length: 62 bytes (496 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0x0c36 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 0, Ack: 1, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 0 (relative sequence number)
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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: 0x774d [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (8 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP), SACK permitted
[SEQ/ACK analysis]
  3 0.023265      192.168.1.102      128.119.245.12      TCP      54      1161 → 80 [ACK] Seq=1
Ack=1 Win=17520 Len=0
Frame 3: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.593646000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.593646000 seconds
  [Time delta from previous captured frame: 0.000093000 seconds]
  [Time delta from previous displayed frame: 0.000093000 seconds]
  [Time since reference or first frame: 0.023265000 seconds]
  Frame Number: 3
  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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 0x1e20 (7712)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa51d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
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[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 1, Ack: 1, Len: 0
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1      (relative sequence number)
  Acknowledgment number: 1  (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x7671 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
    4 0.026477      192.168.1.102      128.119.245.12      TCP      619      1161 → 80 [PSH, ACK]
Seq=1 Ack=1 Win=17520 Len=565 [TCP segment of a reassembled PDU]
Frame 4: 619 bytes on wire (4952 bits), 619 bytes captured (4952 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.596858000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.596858000 seconds
  [Time delta from previous captured frame: 0.003212000 seconds]
  [Time delta from previous displayed frame: 0.003212000 seconds]
  [Time since reference or first frame: 0.026477000 seconds]
  Frame Number: 4
  Frame Length: 619 bytes (4952 bits)
  Capture Length: 619 bytes (4952 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 605
  Identification: 0x1e21 (7713)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
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Protocol: TCP (6)
Header checksum: 0xa2e7 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 1, Ack: 1, Len: 565
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 565]
Sequence number: 1 (relative sequence number)
[Next sequence number: 566 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1fbd [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (565 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (565 bytes)
  5 0.041737 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [PSH, ACK]
Seq=566 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 5: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.612118000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.612118000 seconds
[Time delta from previous captured frame: 0.015260000 seconds]
[Time delta from previous displayed frame: 0.015260000 seconds]
[Time since reference or first frame: 0.041737000 seconds]
Frame Number: 5
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4(0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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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: 1500
Identification: 0x1e22 (7714)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f67 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 566, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 566      (relative sequence number)
[Next sequence number: 2026      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3be5 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  6 0.053937      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=566 Win=6780 Len=0
Frame 6: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.624318000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.624318000 seconds
[Time delta from previous captured frame: 0.012200000 seconds]
[Time delta from previous displayed frame: 0.012200000 seconds]
[Time since reference or first frame: 0.053937000 seconds]
Frame Number: 6
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp]
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[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: da12000047a5
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5872 (22642)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3cb [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 566, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 566 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 6780
  [Calculated window size: 6780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9e30 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
    7 0.054026 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=2026 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 7: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.624407000 IST
  [Time shift for this packet: 0.000000000 seconds]
```

```
Epoch Time: 1093095860.624407000 seconds
[Time delta from previous captured frame: 0.000089000 seconds]
[Time delta from previous displayed frame: 0.000089000 seconds]
[Time since reference or first frame: 0.054026000 seconds]
Frame Number: 7
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e23 (7715)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f66 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 2026, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 2026 (relative sequence number)
  [Next sequence number: 3486 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
```



```
Checksum: 0xb98e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  8 0.054690      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=3486 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 8: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.625071000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.625071000 seconds
  [Time delta from previous captured frame: 0.000664000 seconds]
  [Time delta from previous displayed frame: 0.000664000 seconds]
  [Time since reference or first frame: 0.054690000 seconds]
  Frame Number: 8
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e24 (7716)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f65 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 3486, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 3486 (relative sequence number)
  [Next sequence number: 4946 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xdd01 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
   9 0.077294      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=2026 Win=8760 Len=0
Frame 9: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.647675000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.647675000 seconds
[Time delta from previous captured frame: 0.022604000 seconds]
[Time delta from previous displayed frame: 0.022604000 seconds]
[Time since reference or first frame: 0.077294000 seconds]
Frame Number: 9
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 879e00003a30
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5873 (22643)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3ca [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
```

```
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 2026, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 2026 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 8760
[Calculated window size: 8760]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x90c0 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  10 0.077405      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=4946 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 10: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.647786000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.647786000 seconds
  [Time delta from previous captured frame: 0.000111000 seconds]
  [Time delta from previous displayed frame: 0.000111000 seconds]
  [Time since reference or first frame: 0.077405000 seconds]
  Frame Number: 10
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e25 (7717)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f64 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
```

```
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 4946, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 4946      (relative sequence number)
[Next sequence number: 6406      (relative sequence number)]
Acknowledgment number: 1    (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x908e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  11 0.078157      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=6406 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 11: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.648538000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.648538000 seconds
[Time delta from previous captured frame: 0.000752000 seconds]
[Time delta from previous displayed frame: 0.000752000 seconds]
[Time since reference or first frame: 0.078157000 seconds]
Frame Number: 11
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e26 (7718)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f63 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 6406, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 6406      (relative sequence number)
  [Next sequence number: 7866      (relative sequence number)]
  Acknowledgment number: 1      (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9583 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    12 0.124085      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=3486 Win=11680 Len=0
Frame 12: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.694466000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.694466000 seconds
  [Time delta from previous captured frame: 0.045928000 seconds]
  [Time delta from previous displayed frame: 0.045928000 seconds]
  [Time since reference or first frame: 0.124085000 seconds]
  Frame Number: 12
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 7bec00005f33
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5874 (22644)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3c9 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 3486, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 3486 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 11680
[Calculated window size: 11680]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x7fa4 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    13 0.124185 192.168.1.102 128.119.245.12 TCP 1201 1161 → 80 [PSH, ACK]
Seq=7866 Ack=1 Win=17520 Len=1147 [TCP segment of a reassembled PDU]
Frame 13: 1201 bytes on wire (9608 bits), 1201 bytes captured (9608 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.694566000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.694566000 seconds
[Time delta from previous captured frame: 0.000100000 seconds]
[Time delta from previous displayed frame: 0.000100000 seconds]
[Time since reference or first frame: 0.124185000 seconds]
```

```
Frame Number: 13
Frame Length: 1201 bytes (9608 bits)
Capture Length: 1201 bytes (9608 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1187
  Identification: 0x1e27 (7719)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa09b [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 7866, Ack: 1, Len: 1147
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1147]
  Sequence number: 7866 (relative sequence number)
  [Next sequence number: 9013 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xd763 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
TCP payload (1147 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1147 bytes)
  14 0.169118      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=4946 Win=14600 Len=0
Frame 14: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.739499000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.739499000 seconds
  [Time delta from previous captured frame: 0.044933000 seconds]
  [Time delta from previous displayed frame: 0.044933000 seconds]
  [Time since reference or first frame: 0.169118000 seconds]
  Frame Number: 14
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: d43c0000d83a
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5875 (22645)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c8 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 4946, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 4946 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 14600
[Calculated window size: 14600]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6e88 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    15 0.217299      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=6406 Win=17520 Len=0
Frame 15: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.787680000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.787680000 seconds
  [Time delta from previous captured frame: 0.048181000 seconds]
  [Time delta from previous displayed frame: 0.048181000 seconds]
  [Time since reference or first frame: 0.217299000 seconds]
  Frame Number: 15
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 6af30000b520
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5876 (22646)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c7 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 6406, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
```

```
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 6406      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5d6c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  16 0.267802      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=7866 Win=20440 Len=0
Frame 16: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.838183000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.838183000 seconds
  [Time delta from previous captured frame: 0.050503000 seconds]
  [Time delta from previous displayed frame: 0.050503000 seconds]
  [Time since reference or first frame: 0.267802000 seconds]
  Frame Number: 16
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 93c0000063ed
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5877 (22647)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c6 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
```

```
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 7866, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 7866 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 20440
[Calculated window size: 20440]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4c50 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  17 0.304807 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=9013 Win=23360 Len=0
Frame 17: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.875188000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.875188000 seconds
[Time delta from previous captured frame: 0.037005000 seconds]
[Time delta from previous displayed frame: 0.037005000 seconds]
[Time since reference or first frame: 0.304807000 seconds]
Frame Number: 17
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: eadd0000aa2a
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5878 (22648)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
```

```
Protocol: TCP (6)
Header checksum: 0xb3c5 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 9013, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 9013 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 23360
[Calculated window size: 23360]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3c6d [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  18 0.305040 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=9013 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 18: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.875421000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.875421000 seconds
[Time delta from previous captured frame: 0.000233000 seconds]
[Time delta from previous displayed frame: 0.000233000 seconds]
[Time since reference or first frame: 0.305040000 seconds]
Frame Number: 18
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e28 (7720)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f61 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 9013, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 9013      (relative sequence number)
[Next sequence number: 10473      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe628 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  19 0.305813      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=10473 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 19: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.876194000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.876194000 seconds
[Time delta from previous captured frame: 0.000773000 seconds]
[Time delta from previous displayed frame: 0.000773000 seconds]
[Time since reference or first frame: 0.305813000 seconds]
Frame Number: 19
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e29 (7721)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f60 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 10473, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 10473 (relative sequence number)
[Next sequence number: 11933 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4e31 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
    20 0.306692 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=11933 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 20: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.877073000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.877073000 seconds
```

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[Time delta from previous captured frame: 0.000879000 seconds]
[Time delta from previous displayed frame: 0.000879000 seconds]
[Time since reference or first frame: 0.306692000 seconds]
Frame Number: 20
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e2a (7722)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f5f [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 11933, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 11933 (relative sequence number)
  [Next sequence number: 13393 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xed39 [unverified]
```

```
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  21 0.307571      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=13393 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 21: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.877952000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.877952000 seconds
  [Time delta from previous captured frame: 0.000879000 seconds]
  [Time delta from previous displayed frame: 0.000879000 seconds]
  [Time since reference or first frame: 0.307571000 seconds]
  Frame Number: 21
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e2b (7723)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f5e [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 13393, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 13393 (relative sequence number)
  [Next sequence number: 14853 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9467 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  22 0.308699      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=14853 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 22: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.879080000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.879080000 seconds
  [Time delta from previous captured frame: 0.001128000 seconds]
  [Time delta from previous displayed frame: 0.001128000 seconds]
  [Time since reference or first frame: 0.308699000 seconds]
  Frame Number: 22
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0... .. = LG bit: Globally unique address (factory default)
    .... ..0... .. = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0... .. = LG bit: Globally unique address (factory default)
    .... ..0... .. = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e2c (7724)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f5d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
```

```
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 14853, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 14853      (relative sequence number)
  [Next sequence number: 16313      (relative sequence number)]
  Acknowledgment number: 1      (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x4963 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    23 0.309553      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=16313 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 23: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.879934000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.879934000 seconds
  [Time delta from previous captured frame: 0.000854000 seconds]
  [Time delta from previous displayed frame: 0.000854000 seconds]
  [Time since reference or first frame: 0.309553000 seconds]
  Frame Number: 23
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e2d (7725)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa194 [validation disabled]
```

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[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 16313, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 16313      (relative sequence number)
[Next sequence number: 17205      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4d0a [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
  24 0.356437      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=10473 Win=26280 Len=0
Frame 24: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:20.926818000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095860.926818000 seconds
  [Time delta from previous captured frame: 0.046884000 seconds]
  [Time delta from previous displayed frame: 0.046884000 seconds]
  [Time since reference or first frame: 0.356437000 seconds]
  Frame Number: 24
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 268f00007372
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5879 (22649)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3c4 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP Latitude: 42.367199]
  [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 10473, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 10473 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 26280
[Calculated window size: 26280]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x2b51 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  25 0.400164 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=11933 Win=29200 Len=0
Frame 25: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:20.970545000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095860.970545000 seconds
[Time delta from previous captured frame: 0.043727000 seconds]
[Time delta from previous displayed frame: 0.043727000 seconds]
[Time since reference or first frame: 0.400164000 seconds]
Frame Number: 25
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 478600005ccc9
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x587a (22650)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3c3 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 11933, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 11933 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 29200
[Calculated window size: 29200]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1a35 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    26 0.448613      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=13393 Win=32120 Len=0
Frame 26: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.018994000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.018994000 seconds
[Time delta from previous captured frame: 0.048449000 seconds]
[Time delta from previous displayed frame: 0.048449000 seconds]
[Time since reference or first frame: 0.448613000 seconds]
Frame Number: 26
```

```
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 4e3400003d19
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x587b (22651)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c2 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 13393, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 13393 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 32120
  [Calculated window size: 32120]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x0919 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
27 0.500029      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=14853 Win=35040 Len=0
Frame 27: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.070410000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.070410000 seconds
  [Time delta from previous captured frame: 0.051416000 seconds]
  [Time delta from previous displayed frame: 0.051416000 seconds]
  [Time since reference or first frame: 0.500029000 seconds]
  Frame Number: 27
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 11b70000c56e
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x587c (22652)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c1 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 14853, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 14853 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 35040
[Calculated window size: 35040]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf7fc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    28 0.545052      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=16313 Win=37960 Len=0
Frame 28: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.115433000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.115433000 seconds
  [Time delta from previous captured frame: 0.045023000 seconds]
  [Time delta from previous displayed frame: 0.045023000 seconds]
  [Time since reference or first frame: 0.545052000 seconds]
  Frame Number: 28
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 51330000073e
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x587d (22653)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3c0 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 16313, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 16313 (relative ack number)
```



```
0101 .... = Header Length: 20 bytes (5)
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: 37960
[Calculated window size: 37960]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe6e0 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
 29 0.576417      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=17205 Win=37960 Len=0
Frame 29: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.146798000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.146798000 seconds
[Time delta from previous captured frame: 0.031365000 seconds]
[Time delta from previous displayed frame: 0.031365000 seconds]
[Time since reference or first frame: 0.576417000 seconds]
Frame Number: 29
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
 .... ..0. .... = LG bit: Globally unique address (factory default)
 .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
 .... ..0. .... = LG bit: Globally unique address (factory default)
 .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: c5dc0000950e
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x587e (22654)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
 .1.. .... = Don't fragment: Set
 ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3bf [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
```

```
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 17205, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 17205 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 37960
[Calculated window size: 37960]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe364 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  30 0.576671 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=17205 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 30: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.147052000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.147052000 seconds
[Time delta from previous captured frame: 0.000254000 seconds]
[Time delta from previous displayed frame: 0.000254000 seconds]
[Time since reference or first frame: 0.576671000 seconds]
Frame Number: 30
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e2e (7726)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f5b [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
```

```
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 17205, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 17205      (relative sequence number)
[Next sequence number: 18665      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x17db [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  31 0.577385      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=18665 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 31: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.147766000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.147766000 seconds
[Time delta from previous captured frame: 0.000714000 seconds]
[Time delta from previous displayed frame: 0.000714000 seconds]
[Time since reference or first frame: 0.577385000 seconds]
Frame Number: 31
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e2f (7727)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f5a [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 18665, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 18665      (relative sequence number)
[Next sequence number: 20125      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x91a4 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  32 0.578329      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=20125 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 32: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.148710000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.148710000 seconds
[Time delta from previous captured frame: 0.000944000 seconds]
[Time delta from previous displayed frame: 0.000944000 seconds]
[Time since reference or first frame: 0.578329000 seconds]
Frame Number: 32
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e30 (7728)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f59 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 20125, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 20125 (relative sequence number)
[Next sequence number: 21585 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1286 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  33 0.579195      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=21585 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 33: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.149576000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.149576000 seconds
```

```
[Time delta from previous captured frame: 0.000866000 seconds]
[Time delta from previous displayed frame: 0.000866000 seconds]
[Time since reference or first frame: 0.579195000 seconds]
Frame Number: 33
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e31 (7729)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f58 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 21585, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 21585 (relative sequence number)
  [Next sequence number: 23045 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xe8cd [unverified]
```

```
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  34 0.580149      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=23045 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 34: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.150530000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.150530000 seconds
  [Time delta from previous captured frame: 0.000954000 seconds]
  [Time delta from previous displayed frame: 0.000954000 seconds]
  [Time since reference or first frame: 0.580149000 seconds]
  Frame Number: 34
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e32 (7730)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f57 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 23045, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 23045 (relative sequence number)
  [Next sequence number: 24505 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x11fc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  35 0.581074      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=24505 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 35: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.151455000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.151455000 seconds
  [Time delta from previous captured frame: 0.000925000 seconds]
  [Time delta from previous displayed frame: 0.000925000 seconds]
  [Time since reference or first frame: 0.581074000 seconds]
  Frame Number: 35
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0... .. = LG bit: Globally unique address (factory default)
    .... ..0... .. = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0... .. = LG bit: Globally unique address (factory default)
    .... ..0... .. = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e33 (7731)
  Flags: 0x02 (Don't Fragment)
    0... .. = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa18e [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
```



```
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 24505, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 24505 (relative sequence number)
  [Next sequence number: 25397 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x6954 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (892 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (892 bytes)
    36 0.626496 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=18665 Win=40880 Len=0
Frame 36: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.196877000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.196877000 seconds
  [Time delta from previous captured frame: 0.045422000 seconds]
  [Time delta from previous displayed frame: 0.045422000 seconds]
  [Time since reference or first frame: 0.626496000 seconds]
  Frame Number: 36
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 95bc0000db7d
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x587f (22655)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
```

```
Header checksum: 0xb3be [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 18665, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 18665 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 40880
[Calculated window size: 40880]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xd248 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  37 0.672796 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=20125 Win=43800 Len=0
Frame 37: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.243177000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.243177000 seconds
[Time delta from previous captured frame: 0.046300000 seconds]
[Time delta from previous displayed frame: 0.046300000 seconds]
[Time since reference or first frame: 0.672796000 seconds]
Frame Number: 37
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 56140000e8bc
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5880 (22656)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3bd [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 20125, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 20125      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 43800
[Calculated window size: 43800]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xc12c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  38 0.730684      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=21585 Win=46720 Len=0
Frame 38: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.301065000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.301065000 seconds
[Time delta from previous captured frame: 0.057888000 seconds]
[Time delta from previous displayed frame: 0.057888000 seconds]
[Time since reference or first frame: 0.730684000 seconds]
Frame Number: 38
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 37ec0000cae3
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5881 (22657)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3bc [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 21585, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 21585 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 46720
[Calculated window size: 46720]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xb010 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    39 0.772990 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=23045 Win=49640 Len=0
Frame 39: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.343371000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.343371000 seconds
[Time delta from previous captured frame: 0.042306000 seconds]
[Time delta from previous displayed frame: 0.042306000 seconds]
[Time since reference or first frame: 0.772990000 seconds]
Frame Number: 39
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: cb4800002007
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5882 (22658)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3bb [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 23045, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 23045 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 49640
  [Calculated window size: 49640]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9ef4 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
    40 0.820622 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=24505 Win=52560 Len=0
Frame 40: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
```

```
Arrival Time: Aug 21, 2004 19:14:21.391003000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.391003000 seconds
[Time delta from previous captured frame: 0.047632000 seconds]
[Time delta from previous displayed frame: 0.047632000 seconds]
[Time since reference or first frame: 0.820622000 seconds]
Frame Number: 40
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
....0. .... = LG bit: Globally unique address (factory default)
....0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
....0. .... = LG bit: Globally unique address (factory default)
....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 0d6a0000cdc9
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5883 (22659)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3ba [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 24505, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 24505 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 52560
```

```
[Calculated window size: 52560]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8dd8 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  41 0.853186      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=25397 Win=52560 Len=0
Frame 41: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.423567000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.423567000 seconds
  [Time delta from previous captured frame: 0.032564000 seconds]
  [Time delta from previous displayed frame: 0.032564000 seconds]
  [Time since reference or first frame: 0.853186000 seconds]
  Frame Number: 41
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: e7fa0000aec9
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5884 (22660)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b9 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 25397, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 25397 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 52560
[Calculated window size: 52560]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8a5c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    42 0.853405      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=25397 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 42: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.423786000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.423786000 seconds
  [Time delta from previous captured frame: 0.000219000 seconds]
  [Time delta from previous displayed frame: 0.000219000 seconds]
  [Time since reference or first frame: 0.853405000 seconds]
  Frame Number: 42
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .. = LG bit: Globally unique address (factory default)
      .... ...0 .... .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e34 (7732)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f55 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 25397, Ack: 1, Len: 1460
  Source Port: 1161
```



```
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 25397      (relative sequence number)
[Next sequence number: 26857      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0127 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  43 0.854076      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=26857 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 43: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.424457000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.424457000 seconds
  [Time delta from previous captured frame: 0.000671000 seconds]
  [Time delta from previous displayed frame: 0.000671000 seconds]
  [Time since reference or first frame: 0.854076000 seconds]
  Frame Number: 43
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e35 (7733)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f54 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
```

```
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 26857, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 26857      (relative sequence number)
[Next sequence number: 28317      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4dfc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  44 0.855036      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=28317 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 44: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.425417000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.425417000 seconds
[Time delta from previous captured frame: 0.000960000 seconds]
[Time delta from previous displayed frame: 0.000960000 seconds]
[Time since reference or first frame: 0.855036000 seconds]
Frame Number: 44
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e36 (7734)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f53 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 28317, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 28317      (relative sequence number)
  [Next sequence number: 29777      (relative sequence number)]
  Acknowledgment number: 1    (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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
    .... .... = Push: Not set
    .... ...0.. = Reset: Not set
    .... ....0. = Syn: Not set
    .... ....0 = Fin: Not set
    [TCP Flags: .....A.....]
  Window size value: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xcdcd9 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    45 0.855878      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=29777 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 45: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.426259000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.426259000 seconds
  [Time delta from previous captured frame: 0.000842000 seconds]
  [Time delta from previous displayed frame: 0.000842000 seconds]
  [Time since reference or first frame: 0.855878000 seconds]
  Frame Number: 45
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e37 (7735)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f52 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 29777, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 29777 (relative sequence number)
[Next sequence number: 31237 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x558b [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
 46 0.856802 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=31237 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 46: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.427183000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.427183000 seconds
[Time delta from previous captured frame: 0.000924000 seconds]
```

```
[Time delta from previous displayed frame: 0.000924000 seconds]
[Time since reference or first frame: 0.856802000 seconds]
Frame Number: 46
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e38 (7736)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f51 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 31237, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 31237 (relative sequence number)
  [Next sequence number: 32697 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x0b20 [unverified]
  [Checksum Status: Unverified]
```

```
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  47 0.857683      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=32697 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 47: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.428064000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.428064000 seconds
  [Time delta from previous captured frame: 0.000881000 seconds]
  [Time delta from previous displayed frame: 0.000881000 seconds]
  [Time since reference or first frame: 0.857683000 seconds]
  Frame Number: 47
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e39 (7737)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa188 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 32697, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 32697 (relative sequence number)
  [Next sequence number: 33589 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xbff9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
  48 0.899423      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=26857 Win=55480 Len=0
Frame 48: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.469804000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.469804000 seconds
  [Time delta from previous captured frame: 0.041740000 seconds]
  [Time delta from previous displayed frame: 0.041740000 seconds]
  [Time since reference or first frame: 0.899423000 seconds]
  Frame Number: 48
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 4ee80000d04a
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5885 (22661)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b8 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
```

```
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 26857, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 26857      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 55480
[Calculated window size: 55480]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x7940 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  49 0.949545      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=28317 Win=58400 Len=0
Frame 49: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.519926000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.519926000 seconds
[Time delta from previous captured frame: 0.050122000 seconds]
[Time delta from previous displayed frame: 0.050122000 seconds]
[Time since reference or first frame: 0.949545000 seconds]
Frame Number: 49
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 8ece00007cc2
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5886 (22662)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3b7 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
```



```
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 28317, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 28317 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 58400
[Calculated window size: 58400]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6824 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  50 0.994715      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=29777 Win=61320 Len=0
Frame 50: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.565096000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.565096000 seconds
[Time delta from previous captured frame: 0.045170000 seconds]
[Time delta from previous displayed frame: 0.045170000 seconds]
[Time since reference or first frame: 0.994715000 seconds]
Frame Number: 50
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: a55f0000b910
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5887 (22663)
Flags: 0x02 (Don't Fragment)
```

```
0... .... = Reserved bit: Not set
1... .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3b6 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 29777, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 29777 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 61320
[Calculated window size: 61320]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5708 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
 51 1.039820 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=31237 Win=62780 Len=0
Frame 51: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.610201000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.610201000 seconds
[Time delta from previous captured frame: 0.045105000 seconds]
[Time delta from previous displayed frame: 0.045105000 seconds]
[Time since reference or first frame: 1.039820000 seconds]
Frame Number: 51
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4(0x0800)
```

```

    Padding: 110b0b00cdfd
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5888 (22664)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b5 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 31237, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 31237 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x4ba0 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
    52 1.117097 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=33589 Win=62780 Len=0
Frame 52: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.687478000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.687478000 seconds
  [Time delta from previous captured frame: 0.077277000 seconds]
  [Time delta from previous displayed frame: 0.077277000 seconds]
  [Time since reference or first frame: 1.117097000 seconds]
  Frame Number: 52
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
....0. = LG bit: Globally unique address (factory default)
....0. = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
....0. = LG bit: Globally unique address (factory default)
....0. = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: a41300000004c
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5889 (22665)
Flags: 0x02 (Don't Fragment)
0... = Reserved bit: Not set
.1.. = Don't fragment: Set
..0. = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3b4 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 33589, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 33589 (relative ack number)
0101 = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4270 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
53 1.117333 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=33589 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 53: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.687714000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.687714000 seconds
[Time delta from previous captured frame: 0.000236000 seconds]

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[Time delta from previous displayed frame: 0.000236000 seconds]
[Time since reference or first frame: 1.117333000 seconds]
Frame Number: 53
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e3a (7738)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f4f [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 33589, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 33589 (relative sequence number)
  [Next sequence number: 35049 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x2069 [unverified]
  [Checksum Status: Unverified]
```

```
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
 54 1.118133      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=35049 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 54: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.688514000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.688514000 seconds
[Time delta from previous captured frame: 0.000800000 seconds]
[Time delta from previous displayed frame: 0.000800000 seconds]
[Time since reference or first frame: 1.118133000 seconds]
Frame Number: 54
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
 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: 1500
  Identification: 0x1e3b (7739)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f4e [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 35049, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 35049 (relative sequence number)
  [Next sequence number: 36509 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x32c5 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  55 1.119029      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=36509 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 55: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.689410000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.689410000 seconds
  [Time delta from previous captured frame: 0.000896000 seconds]
  [Time delta from previous displayed frame: 0.000896000 seconds]
  [Time since reference or first frame: 1.119029000 seconds]
  Frame Number: 55
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e3c (7740)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f4d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
```

```
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 36509, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 36509      (relative sequence number)
  [Next sequence number: 37969      (relative sequence number)]
  Acknowledgment number: 1      (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x59a2 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    56 1.119858      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=37969 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 56: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.690239000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.690239000 seconds
  [Time delta from previous captured frame: 0.000829000 seconds]
  [Time delta from previous displayed frame: 0.000829000 seconds]
  [Time since reference or first frame: 1.119858000 seconds]
  Frame Number: 56
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e3d (7741)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f4c [validation disabled]
  [Header checksum status: Unverified]
```



```
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 37969, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 37969 (relative sequence number)
[Next sequence number: 39429 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9ef2 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  57 1.120902      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=39429 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 57: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.691283000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.691283000 seconds
[Time delta from previous captured frame: 0.001044000 seconds]
[Time delta from previous displayed frame: 0.001044000 seconds]
[Time since reference or first frame: 1.120902000 seconds]
Frame Number: 57
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e3e (7742)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
 .1.. .... = Don't fragment: Set
 ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f4b [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 39429, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 39429 (relative sequence number)
[Next sequence number: 40889 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8a4a [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
 58 1.121891 192.168.1.102 128.119.245.12 TCP 946 1161 → 80 [PSH, ACK]
Seq=40889 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 58: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.692272000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.692272000 seconds
[Time delta from previous captured frame: 0.000989000 seconds]
[Time delta from previous displayed frame: 0.000989000 seconds]
[Time since reference or first frame: 1.121891000 seconds]
Frame Number: 58
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e3f (7743)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa182 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 40889, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 40889 (relative sequence number)
[Next sequence number: 41781 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xd68a [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
59 1.200421 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=35049 Win=62780 Len=0
Frame 59: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.770802000 IST
[Time shift for this packet: 0.000000000 seconds]
```

```
Epoch Time: 1093095861.770802000 seconds
[Time delta from previous captured frame: 0.078530000 seconds]
[Time delta from previous displayed frame: 0.078530000 seconds]
[Time since reference or first frame: 1.200421000 seconds]
Frame Number: 59
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 2bc20000e6b2
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x588a (22666)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b3 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 35049, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 35049 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
```

```
Checksum: 0x3cbc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  60 1.265026      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=37969 Win=62780 Len=0
Frame 60: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.835407000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.835407000 seconds
  [Time delta from previous captured frame: 0.064605000 seconds]
  [Time delta from previous displayed frame: 0.064605000 seconds]
  [Time since reference or first frame: 1.265026000 seconds]
  Frame Number: 60
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 8b530000629f
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x588b (22667)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b2 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 37969, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 37969 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3154 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
    61 1.362074      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=40889 Win=62780 Len=0
Frame 61: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.932455000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.932455000 seconds
  [Time delta from previous captured frame: 0.097048000 seconds]
  [Time delta from previous displayed frame: 0.097048000 seconds]
  [Time since reference or first frame: 1.362074000 seconds]
  Frame Number: 61
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 6ee700000b9e
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x588c (22668)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3b1 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 40889, Len: 0
  Source Port: 80
  Destination Port: 1161
```

```
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 40889 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x25ec [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  62 1.389886 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=41781 Win=62780 Len=0
Frame 62: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.960267000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.960267000 seconds
[Time delta from previous captured frame: 0.027812000 seconds]
[Time delta from previous displayed frame: 0.027812000 seconds]
[Time since reference or first frame: 1.389886000 seconds]
Frame Number: 62
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 549900002f31
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x588d (22669)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3b0 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
```

```
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 41781, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 41781 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x2270 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  63 1.390110 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=41781 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 63: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.960491000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.960491000 seconds
[Time delta from previous captured frame: 0.000224000 seconds]
[Time delta from previous displayed frame: 0.000224000 seconds]
[Time since reference or first frame: 1.390110000 seconds]
Frame Number: 63
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e40 (7744)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
```



```
Protocol: TCP (6)
Header checksum: 0x9f49 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 41781, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 41781 (relative sequence number)
[Next sequence number: 43241 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1d0d [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  64 1.390824 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=43241 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 64: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.961205000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.961205000 seconds
[Time delta from previous captured frame: 0.000714000 seconds]
[Time delta from previous displayed frame: 0.000714000 seconds]
[Time since reference or first frame: 1.390824000 seconds]
Frame Number: 64
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4(0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
```

```
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: 1500
Identification: 0x1e41 (7745)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f48 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 43241, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 43241 (relative sequence number)
  [Next sequence number: 44701 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x73bf [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    65 1.391683 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=44701 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 65: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.962064000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.962064000 seconds
  [Time delta from previous captured frame: 0.000859000 seconds]
  [Time delta from previous displayed frame: 0.000859000 seconds]
  [Time since reference or first frame: 1.391683000 seconds]
  Frame Number: 65
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e42 (7746)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f47 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 44701, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 44701 (relative sequence number)
  [Next sequence number: 46161 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xa162 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    66 1.392594 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=46161 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 66: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
```

```
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:21.962975000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095861.962975000 seconds
[Time delta from previous captured frame: 0.000911000 seconds]
[Time delta from previous displayed frame: 0.000911000 seconds]
[Time since reference or first frame: 1.392594000 seconds]
Frame Number: 66
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e43 (7747)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f46 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 46161, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 46161 (relative sequence number)
  [Next sequence number: 47621 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3d10 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  67 1.393390      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=47621 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 67: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.963771000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.963771000 seconds
  [Time delta from previous captured frame: 0.000796000 seconds]
  [Time delta from previous displayed frame: 0.000796000 seconds]
  [Time since reference or first frame: 1.393390000 seconds]
  Frame Number: 67
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e44 (7748)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f45 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 47621, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 47621 (relative sequence number)
  [Next sequence number: 49081 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
```

```
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9acb [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
 68 1.394202      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=49081 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 68: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:21.964583000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095861.964583000 seconds
  [Time delta from previous captured frame: 0.000812000 seconds]
  [Time delta from previous displayed frame: 0.000812000 seconds]
  [Time since reference or first frame: 1.394202000 seconds]
  Frame Number: 68
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
 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: 932
  Identification: 0x1e45 (7749)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa17c [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
```

```
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 49081, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 49081      (relative sequence number)
  [Next sequence number: 49973      (relative sequence number)]
  Acknowledgment number: 1    (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xb65d [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (892 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (892 bytes)
    69 1.488313      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=44701 Win=62780 Len=0
Frame 69: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.058694000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.058694000 seconds
  [Time delta from previous captured frame: 0.094111000 seconds]
  [Time delta from previous displayed frame: 0.094111000 seconds]
  [Time since reference or first frame: 1.488313000 seconds]
  Frame Number: 69
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 7c7d000006b77
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x588e (22670)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
```

```
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3af [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 44701, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 44701 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1708 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
 70 1.584980 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=47621 Win=62780 Len=0
Frame 70: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.155361000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.155361000 seconds
[Time delta from previous captured frame: 0.096667000 seconds]
[Time delta from previous displayed frame: 0.096667000 seconds]
[Time since reference or first frame: 1.584980000 seconds]
Frame Number: 70
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: d88600004fba
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
```



```
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: 0x588f (22671)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3ae [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP Latitude: 42.367199]
  [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 47621, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 47621 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0ba0 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  71 1.661513 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=49973 Win=62780 Len=0
Frame 71: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.231894000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.231894000 seconds
[Time delta from previous captured frame: 0.076533000 seconds]
[Time delta from previous displayed frame: 0.076533000 seconds]
[Time since reference or first frame: 1.661513000 seconds]
Frame Number: 71
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 0e6b0000b9f0
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5890 (22672)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3ad [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 49973, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 49973 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0270 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  72 1.661734      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=49973 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 72: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.232115000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.232115000 seconds
[Time delta from previous captured frame: 0.000221000 seconds]
[Time delta from previous displayed frame: 0.000221000 seconds]
[Time since reference or first frame: 1.661734000 seconds]
```

```
Frame Number: 72
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e46 (7750)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f43 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 49973, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 49973 (relative sequence number)
  [Next sequence number: 51433 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x576e [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
 73 1.662474      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=51433 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 73: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.232855000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.232855000 seconds
[Time delta from previous captured frame: 0.000740000 seconds]
[Time delta from previous displayed frame: 0.000740000 seconds]
[Time since reference or first frame: 1.662474000 seconds]
Frame Number: 73
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e47 (7751)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f42 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 51433, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 51433 (relative sequence number)
[Next sequence number: 52893 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6225 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  74 1.663315      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=52893 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 74: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.233696000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.233696000 seconds
  [Time delta from previous captured frame: 0.000841000 seconds]
  [Time delta from previous displayed frame: 0.000841000 seconds]
  [Time since reference or first frame: 1.663315000 seconds]
  Frame Number: 74
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e48 (7752)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f41 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 52893, Ack: 1, Len: 1460
  Source Port: 1161
```

```
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 52893      (relative sequence number)
[Next sequence number: 54353      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0435 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  75 1.664198      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=54353 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 75: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.234579000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.234579000 seconds
  [Time delta from previous captured frame: 0.000883000 seconds]
  [Time delta from previous displayed frame: 0.000883000 seconds]
  [Time since reference or first frame: 1.664198000 seconds]
  Frame Number: 75
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e49 (7753)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f40 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
```

```
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 54353, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 54353      (relative sequence number)
[Next sequence number: 55813      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4de9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  76 1.665254      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=55813 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 76: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.235635000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.235635000 seconds
[Time delta from previous captured frame: 0.001056000 seconds]
[Time delta from previous displayed frame: 0.001056000 seconds]
[Time since reference or first frame: 1.665254000 seconds]
Frame Number: 76
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e4a (7754)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f3f [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 55813, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 55813      (relative sequence number)
[Next sequence number: 57273      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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
  .... .... = Push: Not set
  .... .... .0.. = Reset: Not set
  .... .... ..0. = Syn: Not set
  .... .... ...0 = Fin: Not set
  [TCP Flags: .....A.....]
Window size value: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x33fe [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  77 1.666151      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=57273 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 77: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.236532000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.236532000 seconds
  [Time delta from previous captured frame: 0.000897000 seconds]
  [Time delta from previous displayed frame: 0.000897000 seconds]
  [Time since reference or first frame: 1.666151000 seconds]
  Frame Number: 77
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
```



```

    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e4b (7755)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa176 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 57273, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 57273 (relative sequence number)
[Next sequence number: 58165 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x2ef3 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
 78 1.758227 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=52893 Win=62780 Len=0
Frame 78: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.328608000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.328608000 seconds
[Time delta from previous captured frame: 0.092076000 seconds]
```

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[Time delta from previous displayed frame: 0.092076000 seconds]
[Time since reference or first frame: 1.758227000 seconds]
Frame Number: 78
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 98740000c3b3
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5891 (22673)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3ac [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 52893, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 52893 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xf707 [unverified]
  [Checksum Status: Unverified]
```

```
Urgent pointer: 0
[SEQ/ACK analysis]
  79 1.860063      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=55813 Win=62780 Len=0
Frame 79: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.430444000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.430444000 seconds
  [Time delta from previous captured frame: 0.101836000 seconds]
  [Time delta from previous displayed frame: 0.101836000 seconds]
  [Time since reference or first frame: 1.860063000 seconds]
  Frame Number: 79
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 3d6f00000100
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5892 (22674)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3ab [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 55813, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 55813 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xeb9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  80 1.930880      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=58165 Win=62780 Len=0
Frame 80: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.501261000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.501261000 seconds
[Time delta from previous captured frame: 0.070817000 seconds]
[Time delta from previous displayed frame: 0.070817000 seconds]
[Time since reference or first frame: 1.930880000 seconds]
Frame Number: 80
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... 0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 2dbd00000101
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5893 (22675)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3aa [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 58165, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
```

```
Sequence number: 1      (relative sequence number)
Acknowledgment number: 58165      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe26f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  81 1.931099      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=58165 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 81: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.501480000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.501480000 seconds
  [Time delta from previous captured frame: 0.000219000 seconds]
  [Time delta from previous displayed frame: 0.000219000 seconds]
  [Time since reference or first frame: 1.931099000 seconds]
  Frame Number: 81
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e4c (7756)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f3d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
```

```
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 58165, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 58165      (relative sequence number)
[Next sequence number: 59625      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6a78 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  82 1.931879      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=59625 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 82: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.502260000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.502260000 seconds
[Time delta from previous captured frame: 0.000780000 seconds]
[Time delta from previous displayed frame: 0.000780000 seconds]
[Time since reference or first frame: 1.931879000 seconds]
Frame Number: 82
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e4d (7757)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
```

```
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f3c [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 59625, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 59625 (relative sequence number)
[Next sequence number: 61085 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1350 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  83 1.932757 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=61085 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 83: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.503138000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.503138000 seconds
[Time delta from previous captured frame: 0.000878000 seconds]
[Time delta from previous displayed frame: 0.000878000 seconds]
[Time since reference or first frame: 1.932757000 seconds]
Frame Number: 83
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4(0x0800)
```

```
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e4e (7758)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f3b [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 61085, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 61085 (relative sequence number)
  [Next sequence number: 62545 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xa312 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    84 1.933636 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=62545 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 84: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.504017000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.504017000 seconds
  [Time delta from previous captured frame: 0.000879000 seconds]
  [Time delta from previous displayed frame: 0.000879000 seconds]
  [Time since reference or first frame: 1.933636000 seconds]
  Frame Number: 84
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e4f (7759)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f3a [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 62545, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 62545 (relative sequence number)
  [Next sequence number: 64005 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x23bc [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    85 1.934770 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=64005 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
```

Frame 85: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.505151000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.505151000 seconds
[Time delta from previous captured frame: 0.001134000 seconds]
[Time delta from previous displayed frame: 0.001134000 seconds]
[Time since reference or first frame: 1.934770000 seconds]
Frame Number: 85
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0 = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0 = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e50 (7760)
Flags: 0x02 (Don't Fragment)
0... = Reserved bit: Not set
.1.. = Don't fragment: Set
..0. = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f39 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 64005, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 64005 (relative sequence number)
[Next sequence number: 65465 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0c8f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  86 1.935586      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=65465 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 86: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.505967000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.505967000 seconds
  [Time delta from previous captured frame: 0.000816000 seconds]
  [Time delta from previous displayed frame: 0.000816000 seconds]
  [Time since reference or first frame: 1.935586000 seconds]
  Frame Number: 86
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e51 (7761)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa170 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 65465, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 65465 (relative sequence number)
  [Next sequence number: 66357 (relative sequence number)]
```

```
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf0b9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
  87 2.029069      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=61085 Win=62780 Len=0
Frame 87: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.599450000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.599450000 seconds
  [Time delta from previous captured frame: 0.093483000 seconds]
  [Time delta from previous displayed frame: 0.093483000 seconds]
  [Time since reference or first frame: 2.029069000 seconds]
  Frame Number: 87
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: e16d0000dc1c
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5894 (22676)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3a9 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
```

```
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 61085, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 61085 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xd707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  88 2.126682 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=64005 Win=62780 Len=0
Frame 88: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.697063000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.697063000 seconds
[Time delta from previous captured frame: 0.097613000 seconds]
[Time delta from previous displayed frame: 0.097613000 seconds]
[Time since reference or first frame: 2.126682000 seconds]
Frame Number: 88
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: b26a000037eb
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5895 (22677)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
```

```
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3a8 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 64005, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 64005 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xcb9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  89 2.203195      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=66357 Win=62780 Len=0
Frame 89: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.773576000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.773576000 seconds
[Time delta from previous captured frame: 0.076513000 seconds]
[Time delta from previous displayed frame: 0.076513000 seconds]
[Time since reference or first frame: 2.203195000 seconds]
Frame Number: 89
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: bffe0000de1d
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5896 (22678)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3a7 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 66357, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 66357 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xc26f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  90 2.203411 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=66357 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 90: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.773792000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.773792000 seconds
[Time delta from previous captured frame: 0.000216000 seconds]
[Time delta from previous displayed frame: 0.000216000 seconds]
[Time since reference or first frame: 2.203411000 seconds]
Frame Number: 90
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
```

```

    ....0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e52 (7762)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f37 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 66357, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 66357 (relative sequence number)
[Next sequence number: 67817 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4d3d [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  91 2.204125      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=67817 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 91: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.774506000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.774506000 seconds
[Time delta from previous captured frame: 0.000714000 seconds]
[Time delta from previous displayed frame: 0.000714000 seconds]
```



```
[Time since reference or first frame: 2.204125000 seconds]
Frame Number: 91
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e53 (7763)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f36 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 67817, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 67817 (relative sequence number)
  [Next sequence number: 69277 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9288 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
```

```
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  92 2.204962      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=69277 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 92: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.775343000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.775343000 seconds
  [Time delta from previous captured frame: 0.000837000 seconds]
  [Time delta from previous displayed frame: 0.000837000 seconds]
  [Time since reference or first frame: 2.204962000 seconds]
  Frame Number: 92
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e54 (7764)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f35 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 69277, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 69277 (relative sequence number)
  [Next sequence number: 70737 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x7f3c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
   93 2.205836      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=70737 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 93: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.776217000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.776217000 seconds
  [Time delta from previous captured frame: 0.000874000 seconds]
  [Time delta from previous displayed frame: 0.000874000 seconds]
  [Time since reference or first frame: 2.205836000 seconds]
  Frame Number: 93
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e55 (7765)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f34 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 70737, Ack: 1, Len: 1460
```

```
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 70737      (relative sequence number)
[Next sequence number: 72197      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9f6f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  94 2.206824      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=72197 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 94: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:22.777205000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095862.777205000 seconds
  [Time delta from previous captured frame: 0.000988000 seconds]
  [Time delta from previous displayed frame: 0.000988000 seconds]
  [Time since reference or first frame: 2.206824000 seconds]
  Frame Number: 94
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e56 (7766)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f33 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
```

```
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 72197, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 72197      (relative sequence number)
[Next sequence number: 73657      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x02e6 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
  95 2.207746      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=73657 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 95: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.778127000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.778127000 seconds
[Time delta from previous captured frame: 0.000922000 seconds]
[Time delta from previous displayed frame: 0.000922000 seconds]
[Time since reference or first frame: 2.207746000 seconds]
Frame Number: 95
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e57 (7767)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa16a [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 73657, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 73657      (relative sequence number)
[Next sequence number: 74549      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x442e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
  96 2.311413      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=69277 Win=62780 Len=0
Frame 96: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.881794000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.881794000 seconds
[Time delta from previous captured frame: 0.103667000 seconds]
[Time delta from previous displayed frame: 0.103667000 seconds]
[Time since reference or first frame: 2.311413000 seconds]
Frame Number: 96
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 4fc100000100
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x5897 (22679)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3a6 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 69277, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 69277 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xb707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  97 2.404228      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=72197 Win=62780 Len=0
Frame 97: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:22.974609000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095862.974609000 seconds
[Time delta from previous captured frame: 0.092815000 seconds]
[Time delta from previous displayed frame: 0.092815000 seconds]
[Time since reference or first frame: 2.404228000 seconds]
```

```
Frame Number: 97
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: c68700006c73
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5898 (22680)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3a5 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 72197, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 72197 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xab9f [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```



```
98 2.476576      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=74549 Win=62780 Len=0
Frame 98: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.046957000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.046957000 seconds
  [Time delta from previous captured frame: 0.072348000 seconds]
  [Time delta from previous displayed frame: 0.072348000 seconds]
  [Time since reference or first frame: 2.476576000 seconds]
  Frame Number: 98
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 31b30000e0b7
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x5899 (22681)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3a4 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 74549, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 74549 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xa26f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
  99 2.476801      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=74549 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 99: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.047182000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.047182000 seconds
  [Time delta from previous captured frame: 0.000225000 seconds]
  [Time delta from previous displayed frame: 0.000225000 seconds]
  [Time since reference or first frame: 2.476801000 seconds]
  Frame Number: 99
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e58 (7768)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f31 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 74549, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 74549 (relative sequence number)
  [Next sequence number: 76009 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
```

```
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3ff6 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
100 2.477515      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=76009 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 100: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.047896000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.047896000 seconds
  [Time delta from previous captured frame: 0.000714000 seconds]
  [Time delta from previous displayed frame: 0.000714000 seconds]
  [Time since reference or first frame: 2.477515000 seconds]
  Frame Number: 100
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
 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: 1500
  Identification: 0x1e59 (7769)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f30 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
```

```
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 76009, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 76009      (relative sequence number)
[Next sequence number: 77469      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4365 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
101 2.478415      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=77469 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 101: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.048796000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.048796000 seconds
[Time delta from previous captured frame: 0.000900000 seconds]
[Time delta from previous displayed frame: 0.000900000 seconds]
[Time since reference or first frame: 2.478415000 seconds]
Frame Number: 101
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e5a (7770)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
```

```
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f2f [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 77469, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 77469 (relative sequence number)
[Next sequence number: 78929 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf7ab [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
102 2.479341 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=78929 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 102: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.049722000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.049722000 seconds
[Time delta from previous captured frame: 0.000926000 seconds]
[Time delta from previous displayed frame: 0.000926000 seconds]
[Time since reference or first frame: 2.479341000 seconds]
Frame Number: 102
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0. .... = IG bit: Individual address (unicast)
```

```
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e5b (7771)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f2e [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 78929, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 78929 (relative sequence number)
[Next sequence number: 80389 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9914 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
103 2.480356 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=80389 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 103: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.050737000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.050737000 seconds
[Time delta from previous captured frame: 0.001015000 seconds]
[Time delta from previous displayed frame: 0.001015000 seconds]
[Time since reference or first frame: 2.480356000 seconds]
Frame Number: 103
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e5c (7772)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f2d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 80389, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 80389 (relative sequence number)
  [Next sequence number: 81849 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xab1e [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
```

```
104 2.481218      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=81849 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 104: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.051599000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.051599000 seconds
  [Time delta from previous captured frame: 0.000862000 seconds]
  [Time delta from previous displayed frame: 0.000862000 seconds]
  [Time since reference or first frame: 2.481218000 seconds]
  Frame Number: 104
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e5d (7773)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa164 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 81849, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 81849 (relative sequence number)
  [Next sequence number: 82741 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5305 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
105 2.576633      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=77469 Win=62780 Len=0
Frame 105: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.147014000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.147014000 seconds
  [Time delta from previous captured frame: 0.095415000 seconds]
  [Time delta from previous displayed frame: 0.095415000 seconds]
  [Time since reference or first frame: 2.576633000 seconds]
  Frame Number: 105
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 195700005d48
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x589a (22682)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3a3 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 77469, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
```

```
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 77469      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
106 2.672045      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=80389 Win=62780 Len=0
Frame 106: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.242426000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.242426000 seconds
  [Time delta from previous captured frame: 0.095412000 seconds]
  [Time delta from previous displayed frame: 0.095412000 seconds]
  [Time since reference or first frame: 2.672045000 seconds]
  Frame Number: 106
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: bdac00001fd1
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x589b (22683)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb3a2 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
```

```
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 80389, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 80389 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8b9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
107 2.747257 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=82741 Win=62780 Len=0
Frame 107: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.317638000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.317638000 seconds
[Time delta from previous captured frame: 0.075212000 seconds]
[Time delta from previous displayed frame: 0.075212000 seconds]
[Time since reference or first frame: 2.747257000 seconds]
Frame Number: 107
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 33fb00005b2f
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x589c (22684)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
```

```
Protocol: TCP (6)
Header checksum: 0xb3a1 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 82741, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 82741 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x826f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
108 2.747468 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=82741 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 108: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.317849000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.317849000 seconds
[Time delta from previous captured frame: 0.000211000 seconds]
[Time delta from previous displayed frame: 0.000211000 seconds]
[Time since reference or first frame: 2.747468000 seconds]
Frame Number: 108
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e5e (7774)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f2b [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 82741, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 82741 (relative sequence number)
[Next sequence number: 84201 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3055 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
109 2.748321 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=84201 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 109: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.318702000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.318702000 seconds
[Time delta from previous captured frame: 0.000853000 seconds]
[Time delta from previous displayed frame: 0.000853000 seconds]
[Time since reference or first frame: 2.748321000 seconds]
Frame Number: 109
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e5f (7775)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f2a [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 84201, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 84201 (relative sequence number)
[Next sequence number: 85661 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xcc88 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
110 2.749246 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=85661 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 110: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.319627000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.319627000 seconds
```

```
[Time delta from previous captured frame: 0.000925000 seconds]
[Time delta from previous displayed frame: 0.000925000 seconds]
[Time since reference or first frame: 2.749246000 seconds]
Frame Number: 110
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e60 (7776)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f29 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 85661, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 85661 (relative sequence number)
  [Next sequence number: 87121 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x5a4f [unverified]
```

```
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
111 2.750126      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=87121 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 111: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.320507000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.320507000 seconds
  [Time delta from previous captured frame: 0.000880000 seconds]
  [Time delta from previous displayed frame: 0.000880000 seconds]
  [Time since reference or first frame: 2.750126000 seconds]
  Frame Number: 111
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e61 (7777)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f28 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 87121, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 87121 (relative sequence number)
  [Next sequence number: 88581 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9411 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
112 2.751237      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=88581 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 112: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.321618000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.321618000 seconds
[Time delta from previous captured frame: 0.001111000 seconds]
[Time delta from previous displayed frame: 0.001111000 seconds]
[Time since reference or first frame: 2.751237000 seconds]
Frame Number: 112
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e62 (7778)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f27 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
```

```
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 88581, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 88581 (relative sequence number)
  [Next sequence number: 90041 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xd391 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
  113 2.752049 192.168.1.102 128.119.245.12 TCP 946 1161 → 80 [PSH, ACK]
Seq=90041 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 113: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.322430000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.322430000 seconds
  [Time delta from previous captured frame: 0.000812000 seconds]
  [Time delta from previous displayed frame: 0.000812000 seconds]
  [Time since reference or first frame: 2.752049000 seconds]
  Frame Number: 113
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e63 (7779)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa15e [validation disabled]
```

```
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 90041, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 90041      (relative sequence number)
[Next sequence number: 90933      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf484 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
114 2.847009      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=85661 Win=62780 Len=0
Frame 114: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.417390000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.417390000 seconds
[Time delta from previous captured frame: 0.094960000 seconds]
[Time delta from previous displayed frame: 0.094960000 seconds]
[Time since reference or first frame: 2.847009000 seconds]
Frame Number: 114
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 5a1500001aec
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x589d (22685)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb3a0 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP Latitude: 42.367199]
  [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 85661, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 85661 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x7707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
115 2.944420 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=88581 Win=62780 Len=0
Frame 115: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.514801000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.514801000 seconds
[Time delta from previous captured frame: 0.097411000 seconds]
[Time delta from previous displayed frame: 0.097411000 seconds]
[Time since reference or first frame: 2.944420000 seconds]
Frame Number: 115
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: ff0e0000451c
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x589e (22686)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb39f [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 88581, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 88581 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6b9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
116 3.020822 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=90933 Win=62780 Len=0
Frame 116: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.591203000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.591203000 seconds
[Time delta from previous captured frame: 0.076402000 seconds]
[Time delta from previous displayed frame: 0.076402000 seconds]
[Time sincereference or first frame: 3.020822000 seconds]
Frame Number: 116
```

```
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: efdc00009dc1
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x589f (22687)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb39e [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 90933, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 90933 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x626f [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
117 3.021036      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=90933 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 117: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.591417000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.591417000 seconds
  [Time delta from previous captured frame: 0.000214000 seconds]
  [Time delta from previous displayed frame: 0.000214000 seconds]
  [Time since reference or first frame: 3.021036000 seconds]
  Frame Number: 117
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e64 (7780)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f25 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 90933, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 90933 (relative sequence number)
  [Next sequence number: 92393 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf9f8 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
118 3.021748      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=92393 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 118: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.592129000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.592129000 seconds
  [Time delta from previous captured frame: 0.000712000 seconds]
  [Time delta from previous displayed frame: 0.000712000 seconds]
  [Time since reference or first frame: 3.021748000 seconds]
  Frame Number: 118
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .. = LG bit: Globally unique address (factory default)
      .... ..0 .... .. = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... .. = LG bit: Globally unique address (factory default)
      .... ..0 .... .. = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e65 (7781)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f24 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 92393, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
```



```
Sequence number: 92393      (relative sequence number)
[Next sequence number: 93853      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9d1c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
119 3.022626      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=93853 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 119: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.593007000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.593007000 seconds
[Time delta from previous captured frame: 0.000878000 seconds]
[Time delta from previous displayed frame: 0.000878000 seconds]
[Time since reference or first frame: 3.022626000 seconds]
Frame Number: 119
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e66 (7782)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1... .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f23 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
```

```
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 93853, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 93853 (relative sequence number)
[Next sequence number: 95313 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x85c9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
120 3.023492 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=95313 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 120: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.593873000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.593873000 seconds
[Time delta from previous captured frame: 0.000866000 seconds]
[Time delta from previous displayed frame: 0.000866000 seconds]
[Time since reference or first frame: 3.023492000 seconds]
Frame Number: 120
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e67 (7783)
Flags: 0x02 (Don't Fragment)
```

```
0... .... = Reserved bit: Not set
.1... .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f22 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 95313, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 95313 (relative sequence number)
[Next sequence number: 96773 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1271 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
121 3.024734 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=96773 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 121: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.595115000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.595115000 seconds
[Time delta from previous captured frame: 0.001242000 seconds]
[Time delta from previous displayed frame: 0.001242000 seconds]
[Time since reference or first frame: 3.024734000 seconds]
Frame Number: 121
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e68 (7784)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f21 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 96773, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 96773 (relative sequence number)
[Next sequence number: 98233 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe0a7 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
122 3.025618 192.168.1.102 128.119.245.12 TCP 946 1161 → 80 [PSH, ACK]
Seq=98233 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 122: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.595999000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.595999000 seconds
[Time delta from previous captured frame: 0.000884000 seconds]
[Time delta from previous displayed frame: 0.000884000 seconds]
[Time since reference or first frame: 3.025618000 seconds]
Frame Number: 122
```

```
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e69 (7785)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa158 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 98233, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 98233 (relative sequence number)
  [Next sequence number: 99125 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xd0e9 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (892 bytes)
```

```
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
123 3.117302      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=93853 Win=62780 Len=0
Frame 123: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.687683000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.687683000 seconds
  [Time delta from previous captured frame: 0.091684000 seconds]
  [Time delta from previous displayed frame: 0.091684000 seconds]
  [Time since reference or first frame: 3.117302000 seconds]
  Frame Number: 123
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 4a190000e602
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58a0 (22688)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb39d [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 93853, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 93853 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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
```

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    .... 0... = Push: Not set
    .... .0.. = Reset: Not set
    .... ..0. = Syn: Not set
    .... ...0 = Fin: Not set
[TCP Flags: .....A.....]
Window size value: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
124 3.216127      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=96773 Win=62780 Len=0
Frame 124: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.786508000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.786508000 seconds
[Time delta from previous captured frame: 0.098825000 seconds]
[Time delta from previous displayed frame: 0.098825000 seconds]
[Time since reference or first frame: 3.216127000 seconds]
Frame Number: 124
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0... = LG bit: Globally unique address (factory default)
    .... .0... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0... = LG bit: Globally unique address (factory default)
    .... .0... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: e6ef0000526a
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58a1 (22689)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb39c [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 96773, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
```

```
Sequence number: 1      (relative sequence number)
Acknowledgment number: 96773      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4b9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
125 3.291672      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=99125 Win=62780 Len=0
Frame 125: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.862053000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.862053000 seconds
  [Time delta from previous captured frame: 0.075545000 seconds]
  [Time delta from previous displayed frame: 0.075545000 seconds]
  [Time since reference or first frame: 3.291672000 seconds]
  Frame Number: 125
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 7a2e00000535
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58a2 (22690)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb39b [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
```



```
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 99125, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 99125 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x426f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
126 3.291881 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=99125 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 126: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.862262000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.862262000 seconds
[Time delta from previous captured frame: 0.000209000 seconds]
[Time delta from previous displayed frame: 0.000209000 seconds]
[Time since reference or first frame: 3.291881000 seconds]
Frame Number: 126
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e6a (7786)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f1f [validation disabled]
```

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[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 99125, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 99125      (relative sequence number)
[Next sequence number: 100585      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xbf99 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
127 3.292657      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=100585 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 127: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.863038000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.863038000 seconds
  [Time delta from previous captured frame: 0.000776000 seconds]
  [Time delta from previous displayed frame: 0.000776000 seconds]
  [Time since reference or first frame: 3.292657000 seconds]
  Frame Number: 127
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
Identification: 0x1e6b (7787)
Flags: 0x02 (Don't Fragment)
0... = Reserved bit: Not set
.1... = Don't fragment: Set
..0. = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f1e [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 100585, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 100585 (relative sequence number)
[Next sequence number: 102045 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1966 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
128 3.293613 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=102045 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 128: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.863994000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.863994000 seconds
[Time delta from previous captured frame: 0.000956000 seconds]
[Time delta from previous displayed frame: 0.000956000 seconds]
[Time since reference or first frame: 3.293613000 seconds]
Frame Number: 128
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e6c (7788)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f1d [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 102045, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 102045 (relative sequence number)
  [Next sequence number: 103505 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x7dc7 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
    129 3.294487 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=103505 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 129: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.864868000 IST
```

```
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.864868000 seconds
[Time delta from previous captured frame: 0.000874000 seconds]
[Time delta from previous displayed frame: 0.000874000 seconds]
[Time since reference or first frame: 3.294487000 seconds]
Frame Number: 129
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e6d (7789)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f1c [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 103505, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 103505 (relative sequence number)
[Next sequence number: 104965 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
```

```
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0c25 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
130 3.295806      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=104965 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 130: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:23.866187000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095863.866187000 seconds
  [Time delta from previous captured frame: 0.001319000 seconds]
  [Time delta from previous displayed frame: 0.001319000 seconds]
  [Time since reference or first frame: 3.295806000 seconds]
  Frame Number: 130
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e6e (7790)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f1b [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 104965, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 104965 (relative sequence number)
  [Next sequence number: 106425 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xca73 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
131 3.296698      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=106425 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 131: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
    Arrival Time: Aug 21, 2004 19:14:23.867079000 IST
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1093095863.867079000 seconds
    [Time delta from previous captured frame: 0.000892000 seconds]
    [Time delta from previous displayed frame: 0.000892000 seconds]
    [Time since reference or first frame: 3.296698000 seconds]
    Frame Number: 131
    Frame Length: 946 bytes (7568 bits)
    Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
    Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
      Address: LinksysG_da:af:73 (00:06:25:da:af:73)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ...0 .... = IG bit: Individual address (unicast)
    Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ...0 .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
    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: 932
    Identification: 0x1e6f (7791)
    Flags: 0x02 (Don't Fragment)
      0... .... = Reserved bit: Not set
      .1.. .... = Don't fragment: Set
      ..0. .... = More fragments: Not set
    Fragment offset: 0
    Time to live: 128
    Protocol: TCP (6)
    Header checksum: 0xa152 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.1.102
    Destination: 128.119.245.12
    [Source GeoIP: Unknown]
    [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
    Colleges Network, United States, 42.367199, -72.518501]
      [Destination GeoIP City: Amherst, MA]
      [Destination GeoIP AS Number: AS1249 Five Colleges Network]
      [Destination GeoIP Country: United States]
      [Destination GeoIP City: Amherst, MA]
      [Destination GeoIP AS Number: AS1249 Five Colleges Network]
```

```
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 106425, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 106425      (relative sequence number)
[Next sequence number: 107317 (relative sequence number)]
Acknowledgment number: 1     (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0208 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
132 3.388926      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=102045 Win=62780 Len=0
Frame 132: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:23.959307000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095863.959307000 seconds
[Time delta from previous captured frame: 0.092228000 seconds]
[Time delta from previous displayed frame: 0.092228000 seconds]
[Time since reference or first frame: 3.388926000 seconds]
Frame Number: 132
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: eefe00006428
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58a3 (22691)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
```



```
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb39a [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 102045, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 102045 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3707 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
133 3.485275 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=104965 Win=62780 Len=0
Frame 133: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.055656000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.055656000 seconds
[Time delta from previous captured frame: 0.096349000 seconds]
[Time delta from previous displayed frame: 0.096349000 seconds]
[Time since reference or first frame: 3.485275000 seconds]
Frame Number: 133
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: afd100004261
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58a4 (22692)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb399 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 104965, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 104965      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x2b9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
134 3.562531      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=107317 Win=62780 Len=0
Frame 134: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.132912000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.132912000 seconds
  [Time delta from previous captured frame: 0.077256000 seconds]
  [Time delta from previous displayed frame: 0.077256000 seconds]
  [Time since reference or first frame: 3.562531000 seconds]
  Frame Number: 134
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
```

```

    ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 48ff0000ae91
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58a5 (22693)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb398 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 107317, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 107317 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x226f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
135 3.562737 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=107317 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 135: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.133118000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.133118000 seconds
[Time delta from previous captured frame: 0.000206000 seconds]
[Time delta from previous displayed frame: 0.000206000 seconds]
[Time since reference or first frame: 3.562737000 seconds]
Frame Number: 135
Frame Length: 1514 bytes (12112 bits)
```

```
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e70 (7792)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f19 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 107317, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 107317 (relative sequence number)
  [Next sequence number: 108777 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9981 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload(1460 bytes)
  [Reassembled PDU in frame: 199]
```

```
TCP segment data (1460 bytes)
136 3.563561      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=108777 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 136: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.133942000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.133942000 seconds
  [Time delta from previous captured frame: 0.000824000 seconds]
  [Time delta from previous displayed frame: 0.000824000 seconds]
  [Time since reference or first frame: 3.563561000 seconds]
  Frame Number: 136
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e71 (7793)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f18 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 108777, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 108777 (relative sequence number)
  [Next sequence number: 110237 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5c53 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
137 3.564458      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=110237 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 137: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.134839000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.134839000 seconds
  [Time delta from previous captured frame: 0.000897000 seconds]
  [Time delta from previous displayed frame: 0.000897000 seconds]
  [Time since reference or first frame: 3.564458000 seconds]
  Frame Number: 137
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e72 (7794)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f17 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 110237, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
```

```
[TCP Segment Len: 1460]
Sequence number: 110237      (relative sequence number)
[Next sequence number: 111697      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x26bc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
138 3.565426      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=111697 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 138: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.135807000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.135807000 seconds
  [Time delta from previous captured frame: 0.000968000 seconds]
  [Time delta from previous displayed frame: 0.000968000 seconds]
  [Time since reference or first frame: 3.565426000 seconds]
  Frame Number: 138
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0... = LG bit: Globally unique address (factory default)
    .... ..0. = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0... = LG bit: Globally unique address (factory default)
    .... ..0. = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e73 (7795)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f16 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
```

```
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 111697, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 111697 (relative sequence number)
[Next sequence number: 113157 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe761 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
139 3.566442 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=113157 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 139: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.136823000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.136823000 seconds
[Time delta from previous captured frame: 0.001016000 seconds]
[Time delta from previous displayed frame: 0.001016000 seconds]
[Time since reference or first frame: 3.566442000 seconds]
Frame Number: 139
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
```



```
Identification: 0x1e74 (7796)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1... .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f15 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 113157, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 113157      (relative sequence number)
[Next sequence number: 114617      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1c20 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
140 3.567324      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=114617 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 140: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.137705000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.137705000 seconds
[Time delta from previous captured frame: 0.000882000 seconds]
[Time delta from previous displayed frame: 0.000882000 seconds]
[Time since reference or first frame: 3.567324000 seconds]
Frame Number: 140
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
```

```

    ....0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e75 (7797)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa14c [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 114617, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 114617 (relative sequence number)
[Next sequence number: 115509 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4e76 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
141 3.660330 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=110237 Win=62780 Len=0
Frame 141: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.230711000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.230711000 seconds
[Time delta from previous captured frame: 0.093006000 seconds]
[Time delta from previous displayed frame: 0.093006000 seconds]
```

```
[Time since reference or first frame: 3.660330000 seconds]
Frame Number: 141
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 601b0000b01d
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58a6 (22694)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb397 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 110237, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 110237 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x1707 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
```

```
[SEQ/ACK analysis]
142 3.768417      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=113157 Win=62780 Len=0
Frame 142: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.338798000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.338798000 seconds
  [Time delta from previous captured frame: 0.108087000 seconds]
  [Time delta from previous displayed frame: 0.108087000 seconds]
  [Time since reference or first frame: 3.768417000 seconds]
  Frame Number: 142
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: c4e000000bf8
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58a7 (22695)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb396 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 113157, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 113157 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0b9f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
143 3.840483      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=115509 Win=62780 Len=0
Frame 143: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.410864000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.410864000 seconds
  [Time delta from previous captured frame: 0.072066000 seconds]
  [Time delta from previous displayed frame: 0.072066000 seconds]
  [Time since reference or first frame: 3.840483000 seconds]
  Frame Number: 143
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 82de0000416c
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58a8 (22696)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb395 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 115509, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
```

```
Acknowledgment number: 115509      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x026f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
144 3.840697      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=115509 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 144: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.411078000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.411078000 seconds
  [Time delta from previous captured frame: 0.000214000 seconds]
  [Time delta from previous displayed frame: 0.000214000 seconds]
  [Time since reference or first frame: 3.840697000 seconds]
  Frame Number: 144
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e76 (7798)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f13 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
```

```
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 115509, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 115509      (relative sequence number)
[Next sequence number: 116969 (relative sequence number)]
Acknowledgment number: 1     (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x60f4 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
145 3.841410      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=116969 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 145: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.411791000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.411791000 seconds
[Time delta from previous captured frame: 0.000713000 seconds]
[Time delta from previous displayed frame: 0.000713000 seconds]
[Time since reference or first frame: 3.841410000 seconds]
Frame Number: 145
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e77 (7799)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
```

```
Protocol: TCP (6)
Header checksum: 0x9f12 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 116969, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 116969 (relative sequence number)
[Next sequence number: 118429 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6e78 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
146 3.842307 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=118429 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 146: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.412688000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.412688000 seconds
[Time delta from previous captured frame: 0.000897000 seconds]
[Time delta from previous displayed frame: 0.000897000 seconds]
[Time since reference or first frame: 3.842307000 seconds]
Frame Number: 146
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4(0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
```



```
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: 1500
Identification: 0x1e78 (7800)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f11 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 118429, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 118429 (relative sequence number)
[Next sequence number: 119889 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0881 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
147 3.843230 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=119889 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 147: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.413611000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.413611000 seconds
[Time delta from previous captured frame: 0.000923000 seconds]
[Time delta from previous displayed frame: 0.000923000 seconds]
[Time since reference or first frame: 3.843230000 seconds]
Frame Number: 147
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e79 (7801)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f10 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 119889, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 119889 (relative sequence number)
  [Next sequence number: 121349 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x14c5 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
  148 3.844008 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=121349 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 148: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
```

```
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.414389000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.414389000 seconds
[Time delta from previous captured frame: 0.000778000 seconds]
[Time delta from previous displayed frame: 0.000778000 seconds]
[Time since reference or first frame: 3.844008000 seconds]
Frame Number: 148
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e7a (7802)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f0f [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 121349, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 121349 (relative sequence number)
  [Next sequence number: 122809 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1e63 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
149 3.844820      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=122809 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 149: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.415201000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.415201000 seconds
[Time delta from previous captured frame: 0.000812000 seconds]
[Time delta from previous displayed frame: 0.000812000 seconds]
[Time since reference or first frame: 3.844820000 seconds]
Frame Number: 149
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
....0. .... = LG bit: Globally unique address (factory default)
....0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
....0. .... = LG bit: Globally unique address (factory default)
....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e7b (7803)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1... .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa146 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 122809, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 122809 (relative sequence number)
[Next sequence number: 123701 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
```

```
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xc9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
150 3.936967 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=118429 Win=62780 Len=0
Frame 150: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.507348000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.507348000 seconds
[Time delta from previous captured frame: 0.092147000 seconds]
[Time delta from previous displayed frame: 0.092147000 seconds]
[Time since reference or first frame: 3.936967000 seconds]
Frame Number: 150
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
 .... ..0. .... = LG bit: Globally unique address (factory default)
 .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
 .... ..0. .... = LG bit: Globally unique address (factory default)
 .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: b42500001122
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58a9 (22697)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
 .1.. .... = Don't fragment: Set
 ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb394 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
```

```
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 118429, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 118429 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xf706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
151 4.031145 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=121349 Win=62780 Len=0
Frame 151: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.601526000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.601526000 seconds
[Time delta from previous captured frame: 0.094178000 seconds]
[Time delta from previous displayed frame: 0.094178000 seconds]
[Time since reference or first frame: 4.031145000 seconds]
Frame Number: 151
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 113e0000a9f0
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58aa (22698)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
```

```
Protocol: TCP (6)
Header checksum: 0xb393 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 121349, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 121349 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xeb9e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
152 4.107455 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=123701 Win=62780 Len=0
Frame 152: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.677836000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.677836000 seconds
[Time delta from previous captured frame: 0.076310000 seconds]
[Time delta from previous displayed frame: 0.076310000 seconds]
[Time since reference or first frame: 4.107455000 seconds]
Frame Number: 152
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 01ec0000fd90
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58ab (22699)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb392 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 123701, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 123701 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe26e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
153 4.107686 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=123701 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 153: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.678067000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.678067000 seconds
  [Time delta from previous captured frame: 0.000231000 seconds]
  [Time delta from previous displayed frame: 0.000231000 seconds]
  [Time since reference or first frame: 4.107686000 seconds]
  Frame Number: 153
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .....0 .... = IG bit: Individual address (unicast)
```



```
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e7c (7804)
Flags: 0x02 (Don't Fragment)
 0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f0d [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 123701, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 123701 (relative sequence number)
[Next sequence number: 125161 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x507f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
154 4.108476 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=125161 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 154: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.678857000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.678857000 seconds
[Time delta from previous captured frame: 0.000790000 seconds]
[Time delta from previous displayed frame: 0.000790000 seconds]
[Time since reference or first frame: 4.108476000 seconds]
```

```
Frame Number: 154
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e7d (7805)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f0c [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 125161, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 125161 (relative sequence number)
  [Next sequence number: 126621 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x2003 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
155 4.109329      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=126621 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 155: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.679710000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.679710000 seconds
[Time delta from previous captured frame: 0.000853000 seconds]
[Time delta from previous displayed frame: 0.000853000 seconds]
[Time since reference or first frame: 4.109329000 seconds]
Frame Number: 155
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e7e (7806)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f0b [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 126621, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 126621 (relative sequence number)
[Next sequence number: 128081 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x1dff [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
156 4.110217      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=128081 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 156: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.680598000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.680598000 seconds
  [Time delta from previous captured frame: 0.000888000 seconds]
  [Time delta from previous displayed frame: 0.000888000 seconds]
  [Time since reference or first frame: 4.110217000 seconds]
  Frame Number: 156
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e7f (7807)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f0a [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 128081, Ack: 1, Len: 1460
  Source Port: 1161
```

```
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 128081 (relative sequence number)
[Next sequence number: 129541 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x841c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
157 4.111334 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=129541 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 157: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.681715000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.681715000 seconds
  [Time delta from previous captured frame: 0.001117000 seconds]
  [Time delta from previous displayed frame: 0.001117000 seconds]
  [Time since reference or first frame: 4.111334000 seconds]
  Frame Number: 157
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e80 (7808)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f09 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
```

```
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 129541, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 129541      (relative sequence number)
[Next sequence number: 131001      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xc4e1 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
158 4.112209      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=131001 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 158: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.682590000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.682590000 seconds
[Time delta from previous captured frame: 0.000875000 seconds]
[Time delta from previous displayed frame: 0.000875000 seconds]
[Time since reference or first frame: 4.112209000 seconds]
Frame Number: 158
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 932
Identification: 0x1e81 (7809)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa140 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 131001, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 131001 (relative sequence number)
  [Next sequence number: 131893 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x64e9 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (892 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (892 bytes)
159 4.205521 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=126621 Win=62780 Len=0
Frame 159: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.775902000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.775902000 seconds
  [Time delta from previous captured frame: 0.093312000 seconds]
  [Time delta from previous displayed frame: 0.093312000 seconds]
  [Time since reference or first frame: 4.205521000 seconds]
  Frame Number: 159
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: cd3c0000d1c3
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58ac (22700)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb391 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 126621, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 126621 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xd706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
160 4.300300 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=129541 Win=62780 Len=0
Frame 160: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.870681000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.870681000 seconds
[Time delta from previous captured frame: 0.094779000 seconds]
[Time delta from previous displayed frame: 0.094779000 seconds]
[Time since reference or first frame: 4.300300000 seconds]
Frame Number: 160
```



```
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 9e3b00008631
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58ad (22701)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb390 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 129541, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 129541 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xcb9e [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
161 4.379826      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=131893 Win=62780 Len=0
Frame 161: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.950207000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.950207000 seconds
  [Time delta from previous captured frame: 0.079526000 seconds]
  [Time delta from previous displayed frame: 0.079526000 seconds]
  [Time since reference or first frame: 4.379826000 seconds]
  Frame Number: 161
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 4ee600001dc8
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58ae (22702)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb38f [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP Latitude: 42.367199]
  [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 131893, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 131893 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xc26e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
162 4.380034      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=131893 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 162: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.950415000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.950415000 seconds
[Time delta from previous captured frame: 0.000208000 seconds]
[Time delta from previous displayed frame: 0.000208000 seconds]
[Time since reference or first frame: 4.380034000 seconds]
Frame Number: 162
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ..0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e82 (7810)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1... .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f07 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 131893, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 131893 (relative sequence number)
[Next sequence number: 133353 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
```

```
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xfa5e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
163 4.380741 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=133353 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 163: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.951122000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.951122000 seconds
  [Time delta from previous captured frame: 0.000707000 seconds]
  [Time delta from previous displayed frame: 0.000707000 seconds]
  [Time since reference or first frame: 4.380741000 seconds]
  Frame Number: 163
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
 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: 1500
  Identification: 0x1e83 (7811)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f06 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
```

```
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 133353, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 133353 (relative sequence number)
  [Next sequence number: 134813 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x2edf [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
  164 4.381618 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=134813 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 164: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.951999000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.951999000 seconds
  [Time delta from previous captured frame: 0.000877000 seconds]
  [Time delta from previous displayed frame: 0.000877000 seconds]
  [Time since reference or first frame: 4.381618000 seconds]
  Frame Number: 164
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e84 (7812)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
```

```
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f05 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 134813, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 134813 (relative sequence number)
[Next sequence number: 136273 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x133f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
165 4.382478 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=136273 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 165: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.952859000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.952859000 seconds
[Time delta from previous captured frame: 0.000860000 seconds]
[Time delta from previous displayed frame: 0.000860000 seconds]
[Time since reference or first frame: 4.382478000 seconds]
Frame Number: 165
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
```

```
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e85 (7813)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f04 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 136273, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 136273 (relative sequence number)
[Next sequence number: 137733 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x074c [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
166 4.383659 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=137733 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 166: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:24.954040000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095864.954040000 seconds
[Time delta from previous captured frame: 0.001181000 seconds]
[Time delta from previous displayed frame: 0.001181000 seconds]
[Time since reference or first frame: 4.383659000 seconds]
Frame Number: 166
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e86 (7814)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9f03 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 137733, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 137733 (relative sequence number)
  [Next sequence number: 139193 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xa0f5 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
```



```
167 4.384548      192.168.1.102      128.119.245.12      TCP      946      1161 → 80 [PSH, ACK]
Seq=139193 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 167: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:24.954929000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095864.954929000 seconds
  [Time delta from previous captured frame: 0.000889000 seconds]
  [Time delta from previous displayed frame: 0.000889000 seconds]
  [Time since reference or first frame: 4.384548000 seconds]
  Frame Number: 167
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e87 (7815)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa13a [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 139193, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 139193 (relative sequence number)
  [Next sequence number: 140085 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x0418 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
168 4.476833      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=134813 Win=62780 Len=0
Frame 168: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.047214000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.047214000 seconds
  [Time delta from previous captured frame: 0.092285000 seconds]
  [Time delta from previous displayed frame: 0.092285000 seconds]
  [Time since reference or first frame: 4.476833000 seconds]
  Frame Number: 168
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: bed900009ba8
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58af (22703)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb38e [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 134813, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
```

```
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 134813      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xb706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
169 4.575928      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=137733 Win=62780 Len=0
Frame 169: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.146309000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.146309000 seconds
  [Time delta from previous captured frame: 0.099095000 seconds]
  [Time delta from previous displayed frame: 0.099095000 seconds]
  [Time since reference or first frame: 4.575928000 seconds]
  Frame Number: 169
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: a74c000077c4
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58b0 (22704)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb38d [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
```

```
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 137733, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 137733 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xab9e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
170 4.648167 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=140085 Win=62780 Len=0
Frame 170: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.218548000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.218548000 seconds
[Time delta from previous captured frame: 0.072239000 seconds]
[Time delta from previous displayed frame: 0.072239000 seconds]
[Time since reference or first frame: 4.648167000 seconds]
Frame Number: 170
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: bf9300001312
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58b1 (22705)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
```

```
Protocol: TCP (6)
Header checksum: 0xb38c [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 140085, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 140085 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xa26e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
171 4.648386 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=140085 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 171: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.218767000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.218767000 seconds
[Time delta from previous captured frame: 0.000219000 seconds]
[Time delta from previous displayed frame: 0.000219000 seconds]
[Time since reference or first frame: 4.648386000 seconds]
Frame Number: 171
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... 0. .... = LG bit: Globally unique address (factory default)
  .... ..0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e88 (7816)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f01 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 140085, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 140085      (relative sequence number)
[Next sequence number: 141545      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x23a9 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
172 4.649100      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=141545 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 172: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.219481000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.219481000 seconds
[Time delta from previous captured frame: 0.000714000 seconds]
[Time delta from previous displayed frame: 0.000714000 seconds]
[Time since reference or first frame: 4.649100000 seconds]
Frame Number: 172
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
```

```

    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... 0. .... = LG bit: Globally unique address (factory default)
    .... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e89 (7817)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9f00 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 141545, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 141545 (relative sequence number)
[Next sequence number: 143005 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8a73 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
173 4.649993 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=143005 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 173: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.220374000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.220374000 seconds
```

```
[Time delta from previous captured frame: 0.000893000 seconds]
[Time delta from previous displayed frame: 0.000893000 seconds]
[Time since reference or first frame: 4.649993000 seconds]
Frame Number: 173
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e8a (7818)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9eff [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 143005, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 143005 (relative sequence number)
  [Next sequence number: 144465 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x29be [unverified]
```



```
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
174 4.650926      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=144465 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 174: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.221307000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.221307000 seconds
  [Time delta from previous captured frame: 0.000933000 seconds]
  [Time delta from previous displayed frame: 0.000933000 seconds]
  [Time since reference or first frame: 4.650926000 seconds]
  Frame Number: 174
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e8b (7819)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9efe [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 144465, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 144465 (relative sequence number)
  [Next sequence number: 145925 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x358f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
175 4.651858      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=145925 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 175: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.222239000 IST
[Time shift for this packet: 0.0000000000 seconds]
Epoch Time: 1093095865.222239000 seconds
[Time delta from previous captured frame: 0.000932000 seconds]
[Time delta from previous displayed frame: 0.000932000 seconds]
[Time since reference or first frame: 4.651858000 seconds]
Frame Number: 175
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e8c (7820)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9efd [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
```

```
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 145925, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 145925 (relative sequence number)
  [Next sequence number: 147385 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xbf08 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
  176 4.652735 192.168.1.102 128.119.245.12 TCP 946 1161 → 80 [PSH, ACK]
Seq=147385 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 176: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.223116000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.223116000 seconds
  [Time delta from previous captured frame: 0.000877000 seconds]
  [Time delta from previous displayed frame: 0.000877000 seconds]
  [Time since reference or first frame: 4.652735000 seconds]
  Frame Number: 176
  Frame Length: 946 bytes (7568 bits)
  Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e8d (7821)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa134 [validation disabled]
```

```
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 147385, Ack: 1, Len: 892
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 892]
Sequence number: 147385 (relative sequence number)
[Next sequence number: 148277 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x941d [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (892 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
177 4.747988 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=143005 Win=62780 Len=0
Frame 177: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.318369000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.318369000 seconds
[Time delta from previous captured frame: 0.095253000 seconds]
[Time delta from previous displayed frame: 0.095253000 seconds]
[Time since reference or first frame: 4.747988000 seconds]
Frame Number: 177
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 977700007f3e
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58b2 (22706)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb38b [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
  [Source GeoIP Country: United States]
  [Source GeoIP Latitude: 42.367199]
  [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 143005, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 143005 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
178 4.844598      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=145925 Win=62780 Len=0
Frame 178: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.414979000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.414979000 seconds
[Time delta from previous captured frame: 0.096610000 seconds]
[Time delta from previous displayed frame: 0.096610000 seconds]
[Time since reference or first frame: 4.844598000 seconds]
Frame Number: 178
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ..0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 338c000030da
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58b3 (22707)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb38a [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 145925, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 145925 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x8b9e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
179 4.920051 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=148277 Win=62780 Len=0
Frame 179: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.490432000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.490432000 seconds
[Time delta from previous captured frame: 0.075453000 seconds]
[Time delta from previous displayed frame: 0.075453000 seconds]
[Time since reference or first frame: 4.920051000 seconds]
Frame Number: 179
```

```
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: bddb0000c20d
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58b4 (22708)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb389 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 148277, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 148277 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x826e [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
```

```
180 4.920310      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=148277 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 180: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.490691000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.490691000 seconds
  [Time delta from previous captured frame: 0.000259000 seconds]
  [Time delta from previous displayed frame: 0.000259000 seconds]
  [Time since reference or first frame: 4.920310000 seconds]
  Frame Number: 180
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e8e (7822)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9efb [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 148277, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 148277 (relative sequence number)
  [Next sequence number: 149737 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x3f96 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
181 4.921025      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=149737 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 181: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.491406000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.491406000 seconds
  [Time delta from previous captured frame: 0.000715000 seconds]
  [Time delta from previous displayed frame: 0.000715000 seconds]
  [Time since reference or first frame: 4.921025000 seconds]
  Frame Number: 181
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .. = LG bit: Globally unique address (factory default)
      .... ..0 .... .. = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... .. = LG bit: Globally unique address (factory default)
      .... ..0 .... .. = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e8f (7823)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9efa [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 149737, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
```

```
Sequence number: 149737      (relative sequence number)
[Next sequence number: 151197      (relative sequence number)]
Acknowledgment number: 1      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x03c5 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
182 4.921916      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=151197 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 182: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.492297000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.492297000 seconds
  [Time delta from previous captured frame: 0.000891000 seconds]
  [Time delta from previous displayed frame: 0.000891000 seconds]
  [Time since reference or first frame: 4.921916000 seconds]
  Frame Number: 182
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e90 (7824)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9ef9 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
```

```
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 151197, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 151197 (relative sequence number)
[Next sequence number: 152657 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xbdc4 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
183 4.922820 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=152657 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 183: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.493201000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.493201000 seconds
[Time delta from previous captured frame: 0.000904000 seconds]
[Time delta from previous displayed frame: 0.000904000 seconds]
[Time since reference or first frame: 4.922820000 seconds]
Frame Number: 183
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e91 (7825)
Flags: 0x02 (Don't Fragment)
```

```
0... .... = Reserved bit: Not set
.1... .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9ef8 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 152657, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 152657 (relative sequence number)
[Next sequence number: 154117 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4cca [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
184 4.923863 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=154117 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 184: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.494244000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.494244000 seconds
[Time delta from previous captured frame: 0.001043000 seconds]
[Time delta from previous displayed frame: 0.001043000 seconds]
[Time since reference or first frame: 4.923863000 seconds]
Frame Number: 184
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... ..0. .... = LG bit: Globally unique address (factory default)
.... ....0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
```

```

    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e92 (7826)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9ef7 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 154117, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 154117 (relative sequence number)
[Next sequence number: 155577 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xcabf [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
185 4.924667 192.168.1.102 128.119.245.12 TCP 946 1161 → 80 [PSH, ACK]
Seq=155577 Ack=1 Win=17520 Len=892 [TCP segment of a reassembled PDU]
Frame 185: 946 bytes on wire (7568 bits), 946 bytes captured (7568 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.495048000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.495048000 seconds
[Time delta from previous captured frame: 0.000804000 seconds]
[Time delta from previous displayed frame: 0.000804000 seconds]
[Time since reference or first frame: 4.924667000 seconds]
Frame Number: 185
```

```
Frame Length: 946 bytes (7568 bits)
Capture Length: 946 bytes (7568 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 932
  Identification: 0x1e93 (7827)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa12e [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 155577, Ack: 1, Len: 892
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 892]
  Sequence number: 155577 (relative sequence number)
  [Next sequence number: 156469 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x6ef9 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (892 bytes)
```

```
[Reassembled PDU in frame: 199]
TCP segment data (892 bytes)
186 5.019189      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=151197 Win=62780 Len=0
Frame 186: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.589570000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.589570000 seconds
  [Time delta from previous captured frame: 0.094522000 seconds]
  [Time delta from previous displayed frame: 0.094522000 seconds]
  [Time since reference or first frame: 5.019189000 seconds]
  Frame Number: 186
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: d43500003656
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58b5 (22709)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb388 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 151197, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 151197 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x7706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
187 5.104175      Intel_52:2b:23      Broadcast      ARP      42      Who has 192.168.1.1?
Tell 192.168.1.100
Frame 187: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.674556000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.674556000 seconds
  [Time delta from previous captured frame: 0.084986000 seconds]
  [Time delta from previous displayed frame: 0.084986000 seconds]
  [Time since reference or first frame: 5.104175000 seconds]
  Frame Number: 187
  Frame Length: 42 bytes (336 bits)
  Capture Length: 42 bytes (336 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:arp]
  [Coloring Rule Name: ARP]
  [Coloring Rule String: arp]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
  Destination: Broadcast (ff:ff:ff:ff:ff:ff)
  Address: Broadcast (ff:ff:ff:ff:ff:ff)
  .... ..1. .... = LG bit: Locally administered address (this is NOT the factory default)
  .... ..1. .... = IG bit: Group address (multicast/broadcast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
  Address: Intel_52:2b:23 (00:04:23:52:2b:23)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0. .... = IG bit: Individual address (unicast)
  Type: ARP (0x0806)
Address Resolution Protocol (request)
188 5.105060      LinksysG_da:af:73      Intel_52:2b:23      ARP      42      192.168.1.1 is at
00:06:25:da:af:73
Frame 188: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.675441000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.675441000 seconds
  [Time delta from previous captured frame: 0.000885000 seconds]
  [Time delta from previous displayed frame: 0.000885000 seconds]
  [Time since reference or first frame: 5.105060000 seconds]
  Frame Number: 188
  Frame Length: 42 bytes (336 bits)
  Capture Length: 42 bytes (336 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:arp]
  [Coloring Rule Name: ARP]
  [Coloring Rule String: arp]
Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: Intel_52:2b:23 (00:04:23:52:2b:23)
  Destination: Intel_52:2b:23 (00:04:23:52:2b:23)
  Address: Intel_52:2b:23 (00:04:23:52:2b:23)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
  Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0. .... = IG bit: Individual address (unicast)
  Type: ARP (0x0806)
Address Resolution Protocol (reply)
189 5.106121      192.168.1.100      192.168.1.1      SSDP      175      M-SEARCH * HTTP/1.1
Frame 189: 175 bytes on wire (1400 bits), 175 bytes captured (1400 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.676502000 IST
  [Time shift for this packet: 0.000000000 seconds]
```



```
Epoch Time: 1093095865.676502000 seconds
[Time delta from previous captured frame: 0.001061000 seconds]
[Time delta from previous displayed frame: 0.001061000 seconds]
[Time since reference or first frame: 5.106121000 seconds]
Frame Number: 189
Frame Length: 175 bytes (1400 bits)
Capture Length: 175 bytes (1400 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    .... 00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 161
  Identification: 0x1997 (6551)
  Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 1
    [Expert Info (Note/Sequence): "Time To Live" only 1]
      ["Time To Live" only 1]
      [Severity level: Note]
      [Group: Sequence]
  Protocol: UDP (17)
  Header checksum: 0x1c00 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.100
  Destination: 192.168.1.1
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  190 5.125019      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=154117 Win=62780 Len=0
Frame 190: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.695400000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.695400000 seconds
  [Time delta from previous captured frame: 0.018898000 seconds]
  [Time delta from previous displayed frame: 0.018898000 seconds]
  [Time since reference or first frame: 5.125019000 seconds]
  Frame Number: 190
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
```

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    ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 712e00001460
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58b6 (22710)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb387 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 154117, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 154117      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6b9e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
191 5.197286      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=156469 Win=62780 Len=0
Frame 191: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.767667000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.767667000 seconds
[Time delta from previous captured frame: 0.072267000 seconds]
[Time delta from previous displayed frame: 0.072267000 seconds]
[Time since reference or first frame: 5.197286000 seconds]
Frame Number: 191
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 61fc0000130a
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58b7 (22711)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb386 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
    [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP City: Amherst, MA]
      [Source GeoIP AS Number: AS1249 Five Colleges Network]
      [Source GeoIP Country: United States]
      [Source GeoIP Latitude: 42.367199]
      [Source GeoIP Longitude: -72.518501]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 156469, Len: 0
  Source Port: 80
  Destination Port: 1161
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 156469 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 62780
  [Calculated window size: 62780]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x626e [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
    192.5.197508 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=156469 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 192: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.767889000 IST
  [Time shift for this packet: 0.000000000 seconds]
```

```
Epoch Time: 1093095865.767889000 seconds
[Time delta from previous captured frame: 0.000222000 seconds]
[Time delta from previous displayed frame: 0.000222000 seconds]
[Time since reference or first frame: 5.197508000 seconds]
Frame Number: 192
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e94 (7828)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1... .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9ef5 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 156469, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 156469 (relative sequence number)
  [Next sequence number: 157929 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
```

```
Checksum: 0x34fc [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
193 5.198388      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=157929 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 193: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.768769000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.768769000 seconds
  [Time delta from previous captured frame: 0.000880000 seconds]
  [Time delta from previous displayed frame: 0.000880000 seconds]
  [Time since reference or first frame: 5.198388000 seconds]
  Frame Number: 193
  Frame Length: 1514 bytes (12112 bits)
  Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 1500
  Identification: 0x1e95 (7829)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x9ef4 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 157929, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 157929 (relative sequence number)
  [Next sequence number: 159389 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xe073 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
194 5.199275      192.168.1.102      128.119.245.12      TCP      1514      1161 → 80 [ACK]
Seq=159389 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 194: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.769656000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.769656000 seconds
[Time delta from previous captured frame: 0.000887000 seconds]
[Time delta from previous displayed frame: 0.000887000 seconds]
[Time since reference or first frame: 5.199275000 seconds]
Frame Number: 194
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e96 (7830)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9ef3 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
```

```
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 159389, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 159389 (relative sequence number)
[Next sequence number: 160849 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x6288 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
195 5.200252 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=160849 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 195: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.770633000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.770633000 seconds
[Time delta from previous captured frame: 0.000977000 seconds]
[Time delta from previous displayed frame: 0.000977000 seconds]
[Time since reference or first frame: 5.200252000 seconds]
Frame Number: 195
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e97 (7831)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
```

```
Header checksum: 0x9ef2 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 160849, Ack: 1, Len: 1460
Source Port: 1161
Destination Port: 80
[Stream index: 0]
[TCP Segment Len: 1460]
Sequence number: 160849 (relative sequence number)
[Next sequence number: 162309 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x91ba [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (1460 bytes)
[Reassembled PDU in frame: 199]
TCP segment data (1460 bytes)
196 5.201150 192.168.1.102 128.119.245.12 TCP 1514 1161 → 80 [ACK]
Seq=162309 Ack=1 Win=17520 Len=1460 [TCP segment of a reassembled PDU]
Frame 196: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:25.771531000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.771531000 seconds
[Time delta from previous captured frame: 0.000898000 seconds]
[Time delta from previous displayed frame: 0.000898000 seconds]
[Time since reference or first frame: 5.201150000 seconds]
Frame Number: 196
Frame Length: 1514 bytes (12112 bits)
Capture Length: 1514 bytes (12112 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
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: 1500
Identification: 0x1e98 (7832)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x9ef1 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP City: Amherst, MA]
  [Destination GeoIP AS Number: AS1249 Five Colleges Network]
  [Destination GeoIP Country: United States]
  [Destination GeoIP Latitude: 42.367199]
  [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 162309, Ack: 1, Len: 1460
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 1460]
  Sequence number: 162309      (relative sequence number)
  [Next sequence number: 163769      (relative sequence number)]
  Acknowledgment number: 1      (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x9567 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (1460 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (1460 bytes)
  197 5.202024      192.168.1.102      128.119.245.12      TCP      326      1161 → 80 [PSH, ACK]
Seq=163769 Ack=1 Win=17520 Len=272 [TCP segment of a reassembled PDU]
Frame 197: 326 bytes on wire (2608 bits), 326 bytes captured (2608 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.772405000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.772405000 seconds
  [Time delta from previous captured frame: 0.000874000 seconds]
  [Time delta from previous displayed frame: 0.000874000 seconds]
  [Time since reference or first frame: 5.202024000 seconds]
  Frame Number: 197
  Frame Length: 326 bytes (2608 bits)
  Capture Length: 326 bytes (2608 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... 0. .... = LG bit: Globally unique address (factory default)
      .... 0. .... = IG bit: Individual address (unicast)
    Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
        .... 0. .... = LG bit: Globally unique address (factory default)
        .... 0. .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 312
  Identification: 0x1e99 (7833)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa394 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 163769, Ack: 1, Len: 272
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 272]
  Sequence number: 163769 (relative sequence number)
  [Next sequence number: 164041 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
  [Calculated window size: 17520]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0x628f [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  TCP payload (272 bytes)
  [Reassembled PDU in frame: 199]
  TCP segment data (272 bytes)
198 5.297257 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=159389 Win=62780 Len=0
Frame 198: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
```

```
Arrival Time: Aug 21, 2004 19:14:25.867638000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095865.867638000 seconds
[Time delta from previous captured frame: 0.095233000 seconds]
[Time delta from previous displayed frame: 0.095233000 seconds]
[Time since reference or first frame: 5.297257000 seconds]
Frame Number: 198
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: 65450000e8b3
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58b8 (22712)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb385 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 159389, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 159389 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
```

```
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x5706 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
199 5.297341      192.168.1.102      128.119.245.12      HTTP      104      POST /ethereal-labs/
lab3-1-reply.htm HTTP/1.1 (text/plain)
Frame 199: 104 bytes on wire (832 bits), 104 bytes captured (832 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.867722000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.867722000 seconds
  [Time delta from previous captured frame: 0.000084000 seconds]
  [Time delta from previous displayed frame: 0.000084000 seconds]
  [Time since reference or first frame: 5.297341000 seconds]
  Frame Number: 199
  Frame Length: 104 bytes (832 bits)
  Capture Length: 104 bytes (832 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp:http:mime_multipart:data-text-lines]
  [Coloring Rule Name: HTTP]
  [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 90
  Identification: 0x1e9a (7834)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0xa471 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
  Colleges Network, United States, 42.367199, -72.518501]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Amherst, MA]
    [Destination GeoIP AS Number: AS1249 Five Colleges Network]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 42.367199]
    [Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 164041, Ack: 1, Len: 50
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 50]
  Sequence number: 164041 (relative sequence number)
  [Next sequence number: 164091 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 17520
[Calculated window size: 17520]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x9f0f [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (50 bytes)
TCP segment data (50 bytes)
[122 Reassembled TCP Segments (164090 bytes): #4(565), #5(1460), #7(1460), #8(1460), #10(1460), #11(1460),
#13(1147), #18(1460), #19(1460), #20(1460), #21(1460), #22(1460), #23(892), #30(1460), #31(1460),
#32(1460), #33(1460), #34(1460), #3]
Hypertext Transfer Protocol
MIME Multipart Media Encapsulation, Type: multipart/form-data, Boundary:
"-----265001916915724"
    200 5.389471      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=162309 Win=62780 Len=0
Frame 200: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:25.959852000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095865.959852000 seconds
  [Time delta from previous captured frame: 0.092130000 seconds]
  [Time delta from previous displayed frame: 0.092130000 seconds]
  [Time since reference or first frame: 5.389471000 seconds]
  Frame Number: 200
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... = IG bit: Individual address (unicast)
  Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
  Padding: 26580000616c
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  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: 0x58b9 (22713)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 55
  Protocol: TCP (6)
  Header checksum: 0xb384 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.1.102
  [Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
  [Source GeoIP City: Amherst, MA]
  [Source GeoIP AS Number: AS1249 Five Colleges Network]
```

```
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 162309, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 162309 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x4b9e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
201 5.447887 128.119.245.12 192.168.1.102 TCP 60 80 → 1161 [ACK] Seq=1
Ack=164041 Win=62780 Len=0
Frame 201: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:26.018268000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095866.018268000 seconds
[Time delta from previous captured frame: 0.058416000 seconds]
[Time delta from previous displayed frame: 0.058416000 seconds]
[Time since reference or first frame: 5.447887000 seconds]
Frame Number: 201
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: a93e0000636f
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58ba (22714)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
```

```
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb383 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 164041, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1      (relative sequence number)
Acknowledgment number: 164041      (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x44da [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
202 5.455830      128.119.245.12      192.168.1.102      TCP      60      80 → 1161 [ACK] Seq=1
Ack=164091 Win=62780 Len=0
Frame 202: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:26.026211000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095866.026211000 seconds
[Time delta from previous captured frame: 0.007943000 seconds]
[Time delta from previous displayed frame: 0.007943000 seconds]
[Time since reference or first frame: 5.455830000 seconds]
Frame Number: 202
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 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: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
  .... ..0. .... = LG bit: Globally unique address (factory default)
  .... ...0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Padding: e5e7000007fb
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 0x58bb (22715)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1... .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb382 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP City: Amherst, MA]
[Source GeoIP AS Number: AS1249 Five Colleges Network]
[Source GeoIP Country: United States]
[Source GeoIP Latitude: 42.367199]
[Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 164091, Len: 0
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 0]
Sequence number: 1 (relative sequence number)
Acknowledgment number: 164091 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0x44a8 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
203 5.461175      128.119.245.12      192.168.1.102      HTTP      784      HTTP/1.1 200 OK (text/
html)
Frame 203: 784 bytes on wire (6272 bits), 784 bytes captured (6272 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:26.031556000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095866.031556000 seconds
[Time delta from previous captured frame: 0.005345000 seconds]
[Time delta from previous displayed frame: 0.005345000 seconds]
[Time since reference or first frame: 5.461175000 seconds]
Frame Number: 203
Frame Length: 784 bytes (6272 bits)
Capture Length: 784 bytes (6272 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp:http:data-text-lines]
[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Destination: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
.... ..0. .... = LG bit: Globally unique address (factory default)
```



```

    ....0 .... = IG bit: Individual address (unicast)
Source: LinksysG_da:af:73 (00:06:25:da:af:73)
Address: LinksysG_da:af:73 (00:06:25:da:af:73)
    ....0. .... = LG bit: Globally unique address (factory default)
    ....0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
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: 770
Identification: 0x58bc (22716)
Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 55
Protocol: TCP (6)
Header checksum: 0xb0a7 [validation disabled]
[Header checksum status: Unverified]
Source: 128.119.245.12
Destination: 192.168.1.102
[Source GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP City: Amherst, MA]
    [Source GeoIP AS Number: AS1249 Five Colleges Network]
    [Source GeoIP Country: United States]
    [Source GeoIP Latitude: 42.367199]
    [Source GeoIP Longitude: -72.518501]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80, Dst Port: 1161, Seq: 1, Ack: 164091, Len: 730
Source Port: 80
Destination Port: 1161
[Stream index: 0]
[TCP Segment Len: 730]
Sequence number: 1 (relative sequence number)
[Next sequence number: 731 (relative sequence number)]
Acknowledgment number: 164091 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
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: 62780
[Calculated window size: 62780]
[Window size scaling factor: -2 (no window scaling used)]
Checksum: 0xa920 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
TCP payload (730 bytes)
Hypertext Transfer Protocol
Line-based text data: text/html
204 5.598090 192.168.1.100 192.168.1.1 SSDP 174 M-SEARCH * HTTP/1.1
Frame 204: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:26.168471000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095866.168471000 seconds
[Time delta from previous captured frame: 0.136915000 seconds]
[Time delta from previous displayed frame: 0.136915000 seconds]
[Time since reference or first frame: 5.598090000 seconds]
```

```
Frame Number: 204
Frame Length: 174 bytes (1392 bits)
Capture Length: 174 bytes (1392 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 160
  Identification: 0x199a (6554)
  Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 1
    [Expert Info (Note/Sequence): "Time To Live" only 1]
      ["Time To Live" only 1]
      [Severity level: Note]
      [Group: Sequence]
  Protocol: UDP (17)
  Header checksum: 0x1bfe [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.100
  Destination: 192.168.1.1
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  205 5.599082      192.168.1.100      192.168.1.1      SSDP      175      M-SEARCH * HTTP/1.1
Frame 205: 175 bytes on wire (1400 bits), 175 bytes captured (1400 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:26.169463000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095866.169463000 seconds
  [Time delta from previous captured frame: 0.000992000 seconds]
  [Time delta from previous displayed frame: 0.000992000 seconds]
  [Time since reference or first frame: 5.599082000 seconds]
  Frame Number: 205
  Frame Length: 175 bytes (1400 bits)
  Capture Length: 175 bytes (1400 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:udp:ssdp]
  [Coloring Rule Name: TTL low or unexpected]
  [Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
  Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
    Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
      Address: LinksysG_da:af:73 (00:06:25:da:af:73)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ..0. .... = IG bit: Individual address (unicast)
    Source: Intel_52:2b:23 (00:04:23:52:2b:23)
      Address: Intel_52:2b:23 (00:04:23:52:2b:23)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ..0. .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
    0100 .... = Version: 4
```

```
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  0000 00.. = Differentiated Services Codepoint: Default (0)
  .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 161
Identification: 0x199b (6555)
Flags: 0x00
  0... .... = Reserved bit: Not set
  .0.. .... = Don't fragment: Not set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 1
  [Expert Info (Note/Sequence): "Time To Live" only 1]
    ["Time To Live" only 1]
    [Severity level: Note]
    [Group: Sequence]
Protocol: UDP (17)
Header checksum: 0x1bfc [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.100
Destination: 192.168.1.1
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  206 5.651141      192.168.1.102      128.119.245.12      TCP      54      1161 → 80 [ACK]
Seq=164091 Ack=731 Win=16790 Len=0
Frame 206: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:26.221522000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095866.221522000 seconds
  [Time delta from previous captured frame: 0.052059000 seconds]
  [Time delta from previous displayed frame: 0.052059000 seconds]
  [Time since reference or first frame: 5.651141000 seconds]
  Frame Number: 206
  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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
  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: 0x1e9d (7837)
Flags: 0x02 (Don't Fragment)
  0... .... = Reserved bit: Not set
  .1.. .... = Don't fragment: Set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0xa4a0 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.102
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Amherst, MA, AS1249 Five Colleges Network, United States, Amherst, MA, AS1249 Five
Colleges Network, United States, 42.367199, -72.518501]
[Destination GeoIP City: Amherst, MA]
```

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[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP City: Amherst, MA]
[Destination GeoIP AS Number: AS1249 Five Colleges Network]
[Destination GeoIP Country: United States]
[Destination GeoIP Latitude: 42.367199]
[Destination GeoIP Longitude: -72.518501]
Transmission Control Protocol, Src Port: 1161, Dst Port: 80, Seq: 164091, Ack: 731, Len: 0
  Source Port: 1161
  Destination Port: 80
  [Stream index: 0]
  [TCP Segment Len: 0]
  Sequence number: 164091 (relative sequence number)
  Acknowledgment number: 731 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  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: 16790
  [Calculated window size: 16790]
  [Window size scaling factor: -2 (no window scaling used)]
  Checksum: 0xf574 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  [SEQ/ACK analysis]
  207 6.101044 192.168.1.100 192.168.1.1 SSDP 174 M-SEARCH * HTTP/1.1
Frame 207: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:26.671425000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095866.671425000 seconds
  [Time delta from previous captured frame: 0.449903000 seconds]
  [Time delta from previous displayed frame: 0.449903000 seconds]
  [Time since reference or first frame: 6.101044000 seconds]
  Frame Number: 207
  Frame Length: 174 bytes (1392 bits)
  Capture Length: 174 bytes (1392 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:udp:ssdp]
  [Coloring Rule Name: TTL low or unexpected]
  [Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
  Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
    Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
      Address: LinksysG_da:af:73 (00:06:25:da:af:73)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ....0 .... = IG bit: Individual address (unicast)
    Source: Intel_52:2b:23 (00:04:23:52:2b:23)
      Address: Intel_52:2b:23 (00:04:23:52:2b:23)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        .... ....0 .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
      0000 00.. = Differentiated Services Codepoint: Default (0)
      .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 160
    Identification: 0x199e (6558)
    Flags: 0x00
      0... .... = Reserved bit: Not set
      .0.. .... = Don't fragment: Not set
      ..0. .... = More fragments: Not set
    Fragment offset: 0
    Time to live: 1
```

```
[Expert Info (Note/Sequence): "Time To Live" only 1]
  ["Time To Live" only 1]
  [Severity level: Note]
  [Group: Sequence]
Protocol: UDP (17)
Header checksum: 0x1bfa [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.100
Destination: 192.168.1.1
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  208 6.102069      192.168.1.100      192.168.1.1      SSDP      175      M-SEARCH * HTTP/1.1
Frame 208: 175 bytes on wire (1400 bits), 175 bytes captured (1400 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:26.672450000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095866.672450000 seconds
[Time delta from previous captured frame: 0.001025000 seconds]
[Time delta from previous displayed frame: 0.001025000 seconds]
[Time since reference or first frame: 6.102069000 seconds]
Frame Number: 208
Frame Length: 175 bytes (1400 bits)
Capture Length: 175 bytes (1400 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    ....00.. = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 161
  Identification: 0x199f (6559)
  Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 1
    [Expert Info (Note/Sequence): "Time To Live" only 1]
      ["Time To Live" only 1]
      [Severity level: Note]
      [Group: Sequence]
    Protocol: UDP (17)
    Header checksum: 0x1bf8 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.1.100
    Destination: 192.168.1.1
    [Source GeoIP: Unknown]
    [Destination GeoIP: Unknown]
    User Datagram Protocol, Src Port: 44265, Dst Port: 1900
    Simple Service Discovery Protocol
      209 6.600152      192.168.1.100      192.168.1.1      SSDP      174      M-SEARCH * HTTP/1.1
    Frame 209: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits)
    Encapsulation type: Ethernet (1)
    Arrival Time: Aug 21, 2004 19:14:27.170533000 IST
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1093095867.170533000 seconds
    [Time delta from previous captured frame: 0.498083000 seconds]
    [Time delta from previous displayed frame: 0.498083000 seconds]
```

```
[Time since reference or first frame: 6.600152000 seconds]
Frame Number: 209
Frame Length: 174 bytes (1392 bits)
Capture Length: 174 bytes (1392 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
  0100 .... = Version: 4
  ....0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    ....00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 160
  Identification: 0x19a2 (6562)
  Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 1
    [Expert Info (Note/Sequence): "Time To Live" only 1]
      ["Time To Live" only 1]
      [Severity level: Note]
      [Group: Sequence]
  Protocol: UDP (17)
  Header checksum: 0x1bf6 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.100
  Destination: 192.168.1.1
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  210 6.601063      192.168.1.100      192.168.1.1      SSDP      175      M-SEARCH * HTTP/1.1
Frame 210: 175 bytes on wire (1400 bits), 175 bytes captured (1400 bits)
  Encapsulation type: Ethernet (1)
  Arrival Time: Aug 21, 2004 19:14:27.171444000 IST
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1093095867.171444000 seconds
  [Time delta from previous captured frame: 0.000911000 seconds]
  [Time delta from previous displayed frame: 0.000911000 seconds]
  [Time since reference or first frame: 6.601063000 seconds]
  Frame Number: 210
  Frame Length: 175 bytes (1400 bits)
  Capture Length: 175 bytes (1400 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:udp:ssdp]
  [Coloring Rule Name: TTL low or unexpected]
  [Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4(0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
```

```
0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  0000 00.. = Differentiated Services Codepoint: Default (0)
  .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 161
Identification: 0x19a3 (6563)
Flags: 0x00
  0... .... = Reserved bit: Not set
  .0.. .... = Don't fragment: Not set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 1
  [Expert Info (Note/Sequence): "Time To Live" only 1]
    ["Time To Live" only 1]
    [Severity level: Note]
    [Group: Sequence]
Protocol: UDP (17)
Header checksum: 0x1bf4 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.100
Destination: 192.168.1.1
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  211 7.102852      192.168.1.100      192.168.1.1      SSDP      174      M-SEARCH * HTTP/1.1
Frame 211: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:27.673233000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095867.673233000 seconds
[Time delta from previous captured frame: 0.501789000 seconds]
[Time delta from previous displayed frame: 0.501789000 seconds]
[Time since reference or first frame: 7.102852000 seconds]
Frame Number: 211
Frame Length: 174 bytes (1392 bits)
Capture Length: 174 bytes (1392 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  0000 00.. = Differentiated Services Codepoint: Default (0)
  .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 160
Identification: 0x19a6 (6566)
Flags: 0x00
  0... .... = Reserved bit: Not set
  .0.. .... = Don't fragment: Not set
  ..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 1
  [Expert Info (Note/Sequence): "Time To Live" only 1]
    ["Time To Live" only 1]
    [Severity level: Note]
    [Group: Sequence]
Protocol: UDP (17)
Header checksum: 0x1bf2 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.100
```

```
Destination: 192.168.1.1
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  212 7.103780      192.168.1.100      192.168.1.1      SSDP      175      M-SEARCH * HTTP/1.1
Frame 212: 175 bytes on wire (1400 bits), 175 bytes captured (1400 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:27.674161000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095867.674161000 seconds
[Time delta from previous captured frame: 0.000928000 seconds]
[Time delta from previous displayed frame: 0.000928000 seconds]
[Time since reference or first frame: 7.103780000 seconds]
Frame Number: 212
Frame Length: 175 bytes (1400 bits)
Capture Length: 175 bytes (1400 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:udp:ssdp]
[Coloring Rule Name: TTL low or unexpected]
[Coloring Rule String: ( ! ip.dst == 224.0.0.0/4 && ip.ttl < 5 && !pim && !ospf) || (ip.dst ==
224.0.0.0/24 && ip.dst != 224.0.0.251 && ip.ttl != 1 && !(vrrp || carp))]
Ethernet II, Src: Intel_52:2b:23 (00:04:23:52:2b:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: Intel_52:2b:23 (00:04:23:52:2b:23)
    Address: Intel_52:2b:23 (00:04:23:52:2b:23)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1
  0100 .... = Version: 4
  ....0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    ....00.. = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 161
  Identification: 0x19a7 (6567)
  Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 1
    [Expert Info (Note/Sequence): "Time To Live" only 1]
      ["Time To Live" only 1]
      [Severity level: Note]
      [Group: Sequence]
  Protocol: UDP (17)
  Header checksum: 0x1bf0 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.100
  Destination: 192.168.1.1
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
User Datagram Protocol, Src Port: 44265, Dst Port: 1900
Simple Service Discovery Protocol
  213 7.595557      192.168.1.102      199.2.53.206      TCP      62      1162 → 631 [SYN] Seq=0
Win=16384 Len=0 MSS=1460 SACK_PERM=1
Frame 213: 62 bytes on wire (496 bits), 62 bytes captured (496 bits)
Encapsulation type: Ethernet (1)
Arrival Time: Aug 21, 2004 19:14:28.165938000 IST
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1093095868.165938000 seconds
[Time delta from previous captured frame: 0.491777000 seconds]
[Time delta from previous displayed frame: 0.491777000 seconds]
[Time since reference or first frame: 7.595557000 seconds]
Frame Number: 213
Frame Length: 62 bytes (496 bits)
Capture Length: 62 bytes (496 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: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
    Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
    Address: PremaxPe_8a:70:1a (00:20:e0:8a:70:1a)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 199.2.53.206
  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: 0x1e9e (7838)
  Flags: 0x02 (Don't Fragment)
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x1d4b [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.1.102
  Destination: 199.2.53.206
  [Source GeoIP: Unknown]
  [Destination GeoIP: Burlingame, CA, AS1239 Sprint, United States, Burlingame, CA, AS1239 Sprint,
United States, 37.567101, -122.371002]
    [Destination GeoIP City: Burlingame, CA]
    [Destination GeoIP AS Number: AS1239 Sprint]
    [Destination GeoIP Country: United States]
    [Destination GeoIP City: Burlingame, CA]
    [Destination GeoIP AS Number: AS1239 Sprint]
    [Destination GeoIP Country: United States]
    [Destination GeoIP Latitude: 37.567101]
    [Destination GeoIP Longitude: -122.371002]
Transmission Control Protocol, Src Port: 1162, Dst Port: 631, Seq: 0, Len: 0
  Source Port: 1162
  Destination Port: 631
  [Stream index: 1]
  [TCP Segment Len: 0]
  Sequence number: 0 (relative sequence number)
  Acknowledgment number: 0
  0111 .... = Header Length: 28 bytes (7)
  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
    ....0...1. = Syn: Set
    [Expert Info (Chat/Sequence): Connection establish request (SYN): server port 631]
    [Connection establish request (SYN): server port 631]
    [Severity level: Chat]
    [Group: Sequence]
    ....0... = Fin: Not set
  [TCP Flags: .....S.]
  Window size value: 16384
  [Calculated window size: 16384]
  Checksum: 0xec92 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  Options: (8 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP), SACK permitted
```