

EX 8: PACKET ANALYZER TOOL

OUTPUT:

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

tcp

| No. | Source | Time | Destination | Protocol | Length | Info |
|----------------|--------|----------------|-------------|----------|--|------|
| 20.198.119.143 | 50.... | 172.18.48.153 | TCP | 60 | 443 → 49589 [ACK] Seq=1 Ack=185 Win=30336 Len=0 | |
| 20.198.119.143 | 50.... | 172.18.48.153 | TCP | 66 | 443 → 49589 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460... | |
| 20.198.119.143 | 80.... | 172.18.48.153 | TCP | 66 | 443 → 49590 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460... | |
| 140.82.114.25 | 29.... | 172.18.48.153 | TCP | 60 | 443 → 56351 [ACK] Seq=26 Ack=31 Win=277 Len=0 | |
| 140.82.114.25 | 88.... | 172.18.48.153 | TCP | 60 | 443 → 56351 [ACK] Seq=51 Ack=60 Win=277 Len=0 | |
| 172.18.48.153 | 50.... | 20.198.119.143 | TCP | 54 | 49589 → 443 [ACK] Seq=1 Ack=1 Win=131328 Len=0 | |
| 172.18.48.153 | 50.... | 20.198.119.143 | TCP | 66 | 49589 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SAC... | |
| 172.18.48.153 | 72.... | 20.198.119.143 | TCP | 66 | 49590 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SAC... | |
| 172.18.48.153 | 14.... | 140.82.114.25 | TCP | 55 | 56351 → 443 [ACK] Seq=1 Ack=1 Win=510 Len=1 [TCP segment of... | |
| 140.82.114.25 | 28.... | 172.18.48.153 | TLSv1... | 79 | Application Data | |
| 140.82.114.25 | 88.... | 172.18.48.153 | TLSv1... | 79 | Application Data | |
| 172.18.48.153 | 88.... | 140.82.114.25 | TLSv1... | 83 | Application Data | |
| 172.18.48.153 | 50.... | 20.198.119.143 | TLSv1... | 238 | Client Hello | |
| 172.18.48.153 | 28.... | 140.82.114.25 | TLSv1... | 83 | Ignored Unknown Record | |
| 172.18.48.153 | 28.... | 140.82.114.25 | TCP | 66 | [TCP Dup ACK 8624#1] 56351 → 443 [ACK] Seq=31 Ack=26 Win=51... | |
| 172.18.48.153 | 28.... | 140.82.114.25 | TCP | 66 | [TCP Dup ACK 8624#2] 56351 → 443 [ACK] Seq=31 Ack=26 Win=51... | |
| 172.18.48.153 | 74.... | 140.82.114.25 | TCP | 55 | [TCP Keep-Alive] 56351 → 443 [ACK] Seq=30 Ack=26 Win=510 Le... | |

> Frame 4732: 55 bytes on wire (440 bits), 55 bytes captured (440 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90FE11}

> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: Cisco_c8:4d:57 (38:90:a5:c8:4d:57)

> Internet Protocol Version 4, Src: 172.18.48.153, Dst: 140.82.114.25

Wi-Fi

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tcp

| No. | Source | Time | Destination | Protocol | Length | Info |
|---------------|--------|----------------|-------------|----------|--|------|
| 172.18.48.153 | 50... | 20.198.119.143 | TCP | 54 | 49589 → 443 [ACK] Seq=1 Ack=1 Win=131328 Len=0 | |
| 172.18.48.153 | 50... | 20.198.119.143 | TCP | 66 | 49589 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SAC... | |
| 172.18.48.153 | 72... | 20.198.119.143 | TCP | 66 | 49590 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SAC... | |
| 172.18.48.153 | 14... | 140.82.114.25 | TCP | 55 | 56351 → 443 [ACK] Seq=1 Ack=1 Win=510 Len=1 [TCP segment of... | |
| 140.82.114.25 | 28... | 172.18.48.153 | TLSv1... | 79 | Application Data | |
| 140.82.114.25 | 88... | 172.18.48.153 | TLSv1... | 79 | Application Data | |
| 172.18.48.153 | 88... | 140.82.114.25 | TLSv1... | 83 | Application Data | |
| 172.18.48.153 | 50... | 20.198.119.143 | TLSv1... | 238 | Client Hello | |
| 172.18.48.153 | 28... | 140.82.114.25 | TLSv1... | 83 | Ignored Unknown Record | |
| 172.18.48.153 | 28... | 140.82.114.25 | TCP | 66 | [TCP Dup ACK 8624#1] 56351 → 443 [ACK] Seq=31 Ack=26 Win=51... | |
| 172.18.48.153 | 28... | 140.82.114.25 | TCP | 66 | [TCP Dup ACK 8624#2] 56351 → 443 [ACK] Seq=31 Ack=26 Win=51... | |
| 172.18.48.153 | 74... | 140.82.114.25 | TCP | 55 | [TCP Keep-Alive] 56351 → 443 [ACK] Seq=30 Ack=26 Win=510 Le... | |
| 172.18.48.153 | 29... | 140.82.114.25 | TCP | 83 | [TCP Retransmission] 56351 → 443 [PSH, ACK] Seq=2 Ack=26 Wi... | |
| 172.18.48.153 | 73... | 20.198.119.143 | TCP | 66 | [TCP Retransmission] [TCP Port numbers reused] 49590 → 443 ... | |
| 172.18.48.153 | 75... | 20.198.119.143 | TCP | 66 | [TCP Retransmission] [TCP Port numbers reused] 49590 → 443 ... | |
| 140.82.114.25 | 28... | 172.18.48.153 | TCP | 79 | [TCP Spurious Retransmission] 443 → 56351 [PSH, ACK] Seq=1 ... | |
| 140.82.114.25 | 28... | 172.18.48.153 | TCP | 79 | [TCP Spurious Retransmission] 443 → 56351 [PSH, ACK] Seq=1 ... | |

> Frame 4732: 55 bytes on wire (440 bits), 55 bytes captured (440 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90FE11

> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: Cisco_c8:4d:57 (38:90:a5:c8:4d:57)

> Internet Protocol Version 4, Src: 172.18.48.153, Dst: 140.82.114.25

Wi-Fi

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udp

| No. | Source | Time | Destination | Protocol | Length | Info |
|----------------|--------|-----------------|-------------|----------|---------------|----------|
| 169.254.201.54 | 98... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 98... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 103... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 103... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 103... | 169.254.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 103... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 169.254.201.54 | 103... | 255.255.255.255 | UDP | 82 | 47584 → 47584 | Len=40 |
| 172.18.61.122 | 54... | 255.255.255.255 | UDP | 201 | 47627 → 10001 | Len=159 |
| 172.18.48.250 | 19... | 172.18.48.153 | UDP | 377 | 48078 → 61878 | Len=335 |
| 172.18.52.157 | 34... | 255.255.255.255 | UDP | 201 | 48834 → 10001 | Len=159 |
| 172.18.52.35 | 25... | 172.18.63.255 | UDP | 179 | 48837 → 6771 | Len=137 |
| 172.18.52.35 | 25... | 172.18.63.255 | UDP | 179 | 48837 → 6771 | Len=137 |
| 172.18.51.197 | 92... | 255.255.255.255 | UDP | 201 | 49118 → 10001 | Len=159 |
| 172.18.52.157 | 45... | 255.255.255.255 | UDP | 201 | 49280 → 10001 | Len=159 |
| 172.18.53.212 | 60... | 239.255.255.250 | UDP | 1120 | 49349 → 3702 | Len=1078 |
| 172.18.53.212 | 60... | 239.255.255.250 | UDP | 1120 | 49349 → 3702 | Len=1078 |
| 172.18.53.212 | 61... | 239.255.255.250 | UDP | 1120 | 49349 → 3702 | Len=1078 |

> Frame 57129: 364 bytes on wire (2912 bits), 364 bytes captured (2912 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA9}

> Ethernet II, Src: IntelCor_81:ba:1e (70:a8:d3:81:ba:1e), Dst: Broadcast (ff:ff:ff:ff:ff:ff)

> Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

udp

| No. | Source | Time | Destination | Protocol | Length | Info |
|------------------------|--------|-----------------|-------------|----------|---------------|----------|
| fe80::6956:f260:a72... | 5.0... | ff02::c | UDP | 718 | 50058 → 3702 | Len=656 |
| fe80::6956:f260:a72... | 5.3... | ff02::c | UDP | 718 | 50058 → 3702 | Len=656 |
| fe80::6956:f260:a72... | 5.7... | ff02::c | UDP | 718 | 50058 → 3702 | Len=656 |
| 172.18.48.133 | 15... | 172.18.63.255 | UDP | 82 | 50067 → 1947 | Len=40 |
| fe80::1ae8:29ff:fea... | 45... | ff02::1 | UDP | 221 | 50201 → 10001 | Len=159 |
| 172.18.62.114 | 4.8... | 239.255.255.250 | UDP | 698 | 50286 → 3702 | Len=656 |
| 172.18.62.114 | 5.0... | 239.255.255.250 | UDP | 698 | 50286 → 3702 | Len=656 |
| 172.18.62.114 | 5.3... | 239.255.255.250 | UDP | 698 | 50286 → 3702 | Len=656 |
| 172.18.62.114 | 5.7... | 239.255.255.250 | UDP | 698 | 50286 → 3702 | Len=656 |
| fe80::942d:2755:78d... | 4.8... | ff02::c | UDP | 718 | 50287 → 3702 | Len=656 |
| fe80::942d:2755:78d... | 5.0... | ff02::c | UDP | 718 | 50287 → 3702 | Len=656 |
| fe80::942d:2755:78d... | 5.2... | ff02::c | UDP | 718 | 50287 → 3702 | Len=656 |
| fe80::942d:2755:78d... | 5.6... | ff02::c | UDP | 718 | 50287 → 3702 | Len=656 |
| 172.18.56.150 | 21... | 172.18.48.153 | UDP | 376 | 50526 → 61878 | Len=334 |
| 172.18.61.122 | 92... | 255.255.255.255 | UDP | 201 | 50551 → 10001 | Len=159 |
| 172.18.48.125 | 5.1... | 172.18.63.255 | UDP | 212 | 50673 → 6646 | Len=170 |
| 172.18.49.115 | 40... | 239.255.255.250 | UDP | 1122 | 50678 → 3702 | Len=1080 |

> Frame 57129: 364 bytes on wire (2912 bits), 364 bytes captured (2912 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA9}

> Ethernet II, Src: IntelCor_81:ba:1e (70:a8:d3:81:ba:1e), Dst: Broadcast (ff:ff:ff:ff:ff:ff)

> Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Source | Time | Destination | Protocol | Length | Info |
|-----|---------------|--------|---------------|----------|--------|---|
| → | 172.18.48.153 | 34.... | 202.144.79.8 | HTTP | 335 | GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?fdd... |
| ← | 202.144.79.8 | 34.... | 172.18.48.153 | HTTP | 321 | HTTP/1.1 304 Not Modified |

> Frame 9763: 335 bytes on wire (2680 bits), 335 bytes captured (2680 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90F...
> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: Cisco_c8:4d:57 (38:90:a5:c8:4d:57)
> Internet Protocol Version 4, Src: 172.18.48.153, Dst: 202.144.79.8
> Transmission Control Protocol, Src Port: 56393, Dst Port: 80, Seq: 1, Ack: 1, Len: 281
> Hypertext Transfer Protocol

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Source | Time | Destination | Protocol | Length | Info |
|-----|---------------|--------|---------------|----------|--------|---|
| → | 172.18.48.153 | 34.... | 202.144.79.8 | HTTP | 335 | GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?fdd... |
| ← | 202.144.79.8 | 34.... | 172.18.48.153 | HTTP | 321 | HTTP/1.1 304 Not Modified |

> Frame 9763: 335 bytes on wire (2680 bits), 335 bytes captured (2680 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90F...
> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: Cisco_c8:4d:57 (38:90:a5:c8:4d:57)
> Internet Protocol Version 4, Src: 172.18.48.153, Dst: 202.144.79.8
> Transmission Control Protocol, Src Port: 56393, Dst Port: 80, Seq: 1, Ack: 1, Len: 281
> Hypertext Transfer Protocol
 > GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?fdd97832475f7541 HTTP/1.1\r\n
 Connection: Keep-Alive\r\n
 Accept: */*\r\n
 If-Modified-Since: Tue, 29 Nov 2022 19:02:07 GMT\r\n
 If-None-Match: "80a16713254d91:0"\r\n
 User-Agent: Microsoft-CryptoAPI/10.0\r\n
 Host: ctldl.windowsupdate.com\r\n
 \r\n
 [Full request URI: http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/authrootstl.cab?fdd97832475f7541]
 [HTTP request 1/1]
 [Response in frame: 9790]

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Source | Time | Destination | Protocol | Length | Info |
|-----|---------------|-------|---------------|----------|--------|---|
| → | 172.18.48.153 | 34... | 202.144.79.8 | HTTP | 335 | GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?fdd... |
| ← | 202.144.79.8 | 34... | 172.18.48.153 | HTTP | 321 | HTTP/1.1 304 Not Modified |

> Frame 9763: 335 bytes on wire (2680 bits), 335 bytes captured (2680 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90F...}

> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: Cisco_c8:4d:57 (38:90:a5:c8:4d:57)

▼ Internet Protocol Version 4, Src: 172.18.48.153, Dst: 202.144.79.8

- 0100 = Version: 4
- ... 0101 = Header Length: 20 bytes (5)
- > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
- Total Length: 321
- Identification: 0x26bf (9919)
- > Flags: 0x40, Don't fragment
- ...0 0000 0000 0000 = Fragment Offset: 0
- Time to Live: 128
- Protocol: TCP (6)
- Header Checksum: 0xdc3 [validation disabled]
- [Header checksum status: Unverified]
- Source Address: 172.18.48.153
- Destination Address: 202.144.79.8

> Transmission Control Protocol, Src Port: 56393, Dst Port: 80, Seq: 1, Ack: 1, Len: 281

> Hypertext Transfer Protocol

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| Source | Time | Destination | Protoc | Length | Info |
|-----------------|-------|---------------|--------|--------|---------------------|
| → 172.18.48.153 | 78... | 172.18.56.150 | HTTP | 285 | GET /smp_7 HTTP/1.1 |
| → 172.18.48.153 | 78... | 172.18.56.150 | HTTP | 303 | GET /smp_7 HTTP/1.1 |
| → 172.18.56.150 | 78... | 172.18.48.153 | HTTP | 137 | HTTP/1.1 200 OK |
| → 172.18.56.150 | 78... | 172.18.48.153 | HTTP | 137 | HTTP/1.1 200 OK |

> Frame 71643: 285 bytes on wire (2280 bits), 285 bytes captured (2280 bits) on interface \Device\NPF_{C08D7397-1409-4430-B730-5EA90F...}, id 0

> Ethernet II, Src: Chongqin_32:ee:65 (4c:d5:77:32:ee:65), Dst: SamsungE_c8:96:42 (fc:8f:90:c8:96:42)

> Internet Protocol Version 4, Src: 172.18.48.153, Dst: 172.18.56.150

▼ Transmission Control Protocol, Src Port: 56453, Dst Port: 7676, Seq: 1, Ack: 1, Len: 231

Source Port: 56453

Destination Port: 7676

[Stream index: 20]

[Conversation completeness: Complete, WITH_DATA (31)]

[TCP Segment Len: 231]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 3644756143

[Next Sequence Number: 232 (relative sequence number)]

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 497987643

0101 = Header Length: 20 bytes (5)

> Flags: 0x018 (PSH, ACK)

Window: 513

[Calculated window size: 131328]

[Window size scaling factor: 256]

Checksum: 0x0000 [unverified]

[Checksum Status: Unverified]

Urgent Pointer: 0

> [Timestamps]

> [SEQ/ACK analysis]

TCP payload (231 bytes)

> Hypertext Transfer Protocol

0020 38 96 dc 85 b d f c d9 3e 90 af 1d ae b0 3b 50 18 8...>JP

0030 02 01 08 08 00 00 47 45 54 20 2f 73 6d 70 5f 37GE T /smp_7

Destination Port (tcp.dstport), 2 bytes

Packets: 100793 · Displayed: 4 (0.0%) · Dropped: 0 (0.0%)

Profile: Default

