

## LAB 1: Use Packets to build a picture of a network

general101.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	fe80::201:5cff:fe3...	ff02::1	ICMPv6	134	Router Advertisement
2	0.000902	Cadant_31:bb:c1	Broadcast	ARP	60	Who has 24.6.175.56? Tell 24.6.168.1
3	9.717926	24.6.173.220	216.168.252.157	TCP	66	41865 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
4	9.734274	216.168.252.157	24.6.173.220	TCP	66	80 → 41865 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460 SACK_PERM=1 WS=128
5	9.734426	24.6.173.220	216.168.252.157	TCP	54	41865 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
6	11.263753	24.6.173.220	255.255.255.255	DB-LS...	152	Dropbox LAN sync Discovery Protocol
7	40.277453	24.6.169.43	199.59.150.9	TCP	66	58403 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
8	40.298138	199.59.150.9	24.6.169.43	TCP	66	80 → 58403 [SYN, ACK] Seq=0 Ack=1 Win=14600 Len=0 MSS=1460 SACK_PERM=1 WS=256
9	40.298944	24.6.169.43	199.59.150.9	TCP	60	58403 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0

> Frame 1: 134 bytes on wire (1072 bits), 134 bytes captured (1072 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
> Ethernet II, Src: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1), Dst: IPv6mcast\_01 (33:33:00:00:00:01)  
> Internet Protocol Version 6, Src: fe80::201:5cff:fe31:bbc1, Dst: ff02::1  
> Internet Control Message Protocol v6

### FRAME 1:

Frame 1: 134 bytes on wire (1072 bits), 134 bytes captured (1072 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1), Dst: IPv6mcast\_01 (33:33:00:00:00:01)  
Internet Protocol Version 6, Src: fe80::201:5cff:fe31:bbc1, Dst: ff02::1  
Internet Control Message Protocol v6

### FRAME 2:

Frame 2: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
Address Resolution Protocol (request)

### FRAME 3:

Frame 3: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
Internet Protocol Version 4, Src: 24.6.173.220, Dst: 216.168.252.157  
Transmission Control Protocol, Src Port: 41865, Dst Port: 80, Seq: 0, Len: 0

### FRAME 4:

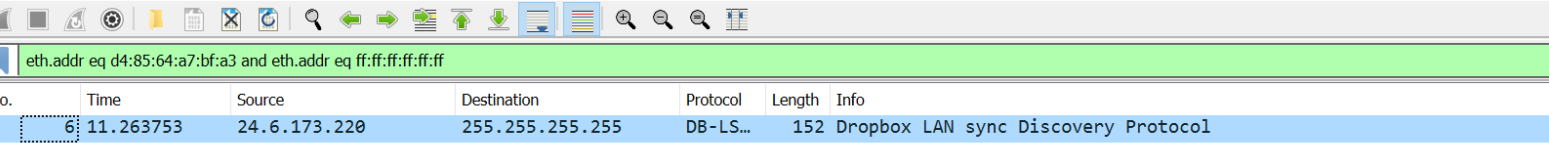
Frame 4: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1), Dst: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3)  
Internet Protocol Version 4, Src: 216.168.252.157, Dst: 24.6.173.220  
Transmission Control Protocol, Src Port: 80, Dst Port: 41865, Seq: 0, Ack: 1, Len: 0

### FRAME 5:

Frame 5: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
Internet Protocol Version 4, Src: 24.6.173.220, Dst: 216.168.252.157  
Transmission Control Protocol, Src Port: 41865, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

## FRAME 6:

Frame 6: 152 bytes on wire (1216 bits), 152 bytes captured (1216 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
Internet Protocol Version 4, Src: 24.6.173.220, Dst: 255.255.255.255  
User Datagram Protocol, Src Port: 17500, Dst Port: 17500  
Dropbox LAN sync Discovery Protocol



The image shows the Wireshark interface. At the top, there is a toolbar with various icons for file operations, editing, and analysis. Below the toolbar is a green filter bar containing the text "eth.addr eq d4:85:64:a7:bf:a3 and eth.addr eq ff:ff:ff:ff:ff:ff". Below the filter bar is a table with the following columns: No., Time, Source, Destination, Protocol, Length, and Info. The table contains one entry, packet 6, which is highlighted in blue. The packet details pane on the right shows the protocol stack for packet 6: Ethernet II, Internet Protocol Version 4, User Datagram Protocol, and Dropbox LAN sync Discovery Protocol.

No.	Time	Source	Destination	Protocol	Length	Info
6	11.263753	24.6.173.220	255.255.255.255	DB-LS...	152	Dropbox LAN sync Discovery Protocol

> Frame 6: 152 bytes on wire (1216 bits), 152 bytes captured (1216 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
> Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
> Internet Protocol Version 4, Src: 24.6.173.220, Dst: 255.255.255.255  
> User Datagram Protocol, Src Port: 17500, Dst Port: 17500  
> Dropbox LAN sync Discovery Protocol

## FRAME 7:

Frame 7: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: ASUSTekC\_19:9e:19 (c8:60:00:19:9e:19), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
Internet Protocol Version 4, Src: 24.6.169.43, Dst: 199.59.150.9  
Transmission Control Protocol, Src Port: 58403, Dst Port: 80, Seq: 0, Len: 0

## FRAME 8:

Frame 8: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1), Dst: ASUSTekC\_19:9e:19 (c8:60:00:19:9e:19)  
Internet Protocol Version 4, Src: 199.59.150.9, Dst: 24.6.169.43  
Transmission Control Protocol, Src Port: 80, Dst Port: 58403, Seq: 0, Ack: 1, Len: 0

## FRAME 9:

Frame 9: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface \Device\NPF\_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0  
Ethernet II, Src: ASUSTekC\_19:9e:19 (c8:60:00:19:9e:19), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
Internet Protocol Version 4, Src: 24.6.169.43, Dst: 199.59.150.9  
Transmission Control Protocol, Src Port: 58403, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

## FRAME 10:

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Frame 10: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0
Ethernet II, Src: ASUSTekC_19:9e:19 (c8:60:00:19:9e:19), Dst: Cadant_31:bb:c1 (00:01:5c:31:bb:c1)
Internet Protocol Version 4, Src: 24.6.169.43, Dst: 107.21.109.41
Transmission Control Protocol, Src Port: 58405, Dst Port: 443, Seq: 0, Len: 0
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## FRAME 11:

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Frame 11: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{6E79FEC0-FF79-4970-96E4-EEFF300A9B9F}, id 0
Ethernet II, Src: Cadant_31:bb:c1 (00:01:5c:31:bb:c1), Dst: ASUSTekC_19:9e:19 (c8:60:00:19:9e:19)
Internet Protocol Version 4, Src: 107.21.109.41, Dst: 24.6.169.43
Transmission Control Protocol, Src Port: 443, Dst Port: 58405, Seq: 0, Ack: 1, Len: 0
```

