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C:\Users\user>ipconfig /all

Windows IP 設定

    主機名稱 . . . . . : NMSL
    主要 DNS 尾碼 . . . . . :
    節點類型 . . . . . : 混合式
    IP 路由啟用 . . . . . : 否
    WINS Proxy 啟用 . . . . . : 否

乙太網路卡 乙太網路:

    媒體狀態 . . . . . : 媒體已中斷連線
    連線特定 DNS 尾碼 . . . . . : hitronhub home
    描述 . . . . . : Realtek PCIe GbE Family Controller
    實體位址 . . . . . : D8-BB-C1-75-D7-DE
    DHCP 已啟用 . . . . . : 是
    自動設定啟用 . . . . . : 是

無線區域網路介面卡 區域連線* 1:

    媒體狀態 . . . . . : 媒體已中斷連線
    連線特定 DNS 尾碼 . . . . . :
    描述 . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
    實體位址 . . . . . : DC-21-5C-A8-D5-9B
    DHCP 已啟用 . . . . . : 是
    自動設定啟用 . . . . . : 是

無線區域網路介面卡 區域連線* 10:

    媒體狀態 . . . . . : 媒體已中斷連線
    連線特定 DNS 尾碼 . . . . . :
    描述 . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
    實體位址 . . . . . : DE-21-5C-A8-D5-9A
    DHCP 已啟用 . . . . . : 是
    自動設定啟用 . . . . . : 是

無線區域網路介面卡 Wi-Fi:

    連線特定 DNS 尾碼 . . . . . :
    描述 . . . . . : Intel(R) Wi-Fi 6 AX201 160MHz
    實體位址 . . . . . : DC-21-5C-A8-D5-9A
    DHCP 已啟用 . . . . . : 是
    自動設定啟用 . . . . . : 是
    連結-本機 IPv6 位址 . . . . . : fe80::10f8:18e9:9570:297c%18(偏好選項)
    IPv4 位址 . . . . . : 192.168.0.176(偏好選項)
    子網路遮罩 . . . . . : 255.255.255.0
    租用取得 . . . . . : 2023年10月25日 上午 02:07:42
    租用到期 . . . . . : 2023年10月27日 下午 02:26:13
    預設閘道 . . . . . : 192.168.0.1
    DHCP 伺服器 . . . . . : 192.168.0.1
    DHCPv6 IAID . . . . . : 148644188
    DHCPv6 用戶端 DUID. . . . . : 00-01-00-01-2B-58-8E-07-D8-BB-C1-75-D7-DE
    DNS 伺服器 . . . . . : 192.168.0.1
    NetBIOS over Tcpip . . . . . : 啟用

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1. NMSL
2. DC-21-5C-A8-D5-9A
3. 192.168.0.176
4. 192.168.0.1

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The image displays two screenshots of a Wireshark packet capture analysis. The top screenshot shows a list of packets with a selected packet (No. 57) that is a DNS query. The bottom screenshot shows the detailed view of the selected packet, which is a DNS query for 'www.ntut.edu.tw'.

Packet List (Top Screenshot):

No.	Time	Source	Destination	Protocol	Length	Info
48	0.813851	192.168.0.176	192.168.0.1	DNS	75	Standard query 0xb076 A www.ntut.edu.tw
49	0.843852	192.168.0.176	192.168.0.1	DNS	75	Standard query 0xb076 A www.ntut.edu.tw
50	0.844868	192.168.0.176	192.168.0.1	DNS	75	Standard query 0xb076 HTTPS www.ntut.edu.tw
51	0.845463	192.168.0.1	192.168.0.176	DNS	91	Standard query response 0xb076 A www.ntut.edu.tw A 140.124.13.105
57	0.850890	192.168.0.1	192.168.0.176	DNS	91	Standard query response 0xb076 A www.ntut.edu.tw A 140.124.13.105
58	0.850890	192.168.0.1	192.168.0.176	DNS	129	Standard query response 0xb076 HTTPS www.ntut.edu.tw 50A galaxy.cc.ntut.edu.tw

Packet Details (Bottom Screenshot):

Frame 57: 91 bytes on wire (728 bits), 91 bytes captured (728 bits) on interface \Device\NPF_{E85A1A0B-473C-4183-88A4} (08:00:00:00:00:00)

Ethernet II, Src: IntelCor_abd5:9a (dc:21:5c:a8:d5:9a), Dst: Mercusys_31:88:a8 (08:eb:08:31:88:a8)

Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.176

User Datagram Protocol, Src Port: 52375, Dst Port: 53

Source Port: 52375

Destination Port: 53

Length: 41

Checksum: 0xb23c [unverified]

[Checksum Status: Unverified]

[Stream Index: 3]

[Timestamps]

UDP payload (49 bytes)

Domain Name System (query)

Query Type: Standard query (0x27)

5. UDP

6. destination port for the DNS:53, source port of DNS:53

7. 192.168.0.176, yes

The image displays a Wireshark packet capture analysis showing a DNS query and response. The top screenshot shows the packet list with a selected packet (No. 57) that is a DNS query. The bottom screenshot shows the detailed view of the selected packet, which is a DNS query for 'www.ntut.edu.tw'.

Packet List (Top Screenshot):

No.	Time	Source	Destination	Protocol	Length	Info
48	0.813851	192.168.0.176	192.168.0.1	DNS	75	Standard query 0xb076 A www.ntut.edu.tw
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51	0.845463	192.168.0.1	192.168.0.176	DNS	91	Standard query response 0xb076 A www.ntut.edu.tw A 140.124.13.105
57	0.850890	192.168.0.1	192.168.0.176	DNS	91	Standard query response 0xb076 A www.ntut.edu.tw A 140.124.13.105
58	0.850890	192.168.0.1	192.168.0.176	DNS	129	Standard query response 0xb076 HTTPS www.ntut.edu.tw 50A galaxy.cc.ntut.edu.tw

Packet Details (Bottom Screenshot):

Frame 57: 91 bytes on wire (728 bits), 91 bytes captured (728 bits) on interface \Device\NPF_{E85A1A0B-473C-4183-88A4} (08:00:00:00:00:00)

Ethernet II, Src: IntelCor_abd5:9a (dc:21:5c:a8:d5:9a), Dst: Mercusys_31:88:a8 (08:eb:08:31:88:a8)

Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.176

User Datagram Protocol, Src Port: 53, Dst Port: 52375

Source Port: 53

Destination Port: 52375

Length: 57

Checksum: 0x1a07 [unverified]

[Checksum Status: Unverified]

[Stream Index: 3]

[Timestamps]

UDP payload (49 bytes)

Domain Name System (response)

Transaction ID: 0xb076

Flags: 0x0000 Standard query response, No error

Questions: 1

Answer RRs: 1

Authority RRs: 0

Additional RRs: 0

Queries

- www.ntut.edu.tw type A, class IN
- Name: www.ntut.edu.tw
- Name Length: 15
- Label Count: 4
- Type: A (Host Address) (1)
- Class: IN (0x0000)

Answers

- www.ntut.edu.tw type A, class IN, addr: 140.124.13.105
- Name: www.ntut.edu.tw
- Type: A (Host Address) (1)
- Class: IN (0x0000)
- Time to Live: 600 (10 minutes)
- Data Length: 4
- Address: 140.124.13.105

8. 1, the ip address of www.ntut.edu.tw