```
C:\Users\gchna> ipconfig

Windows IP Configuration


Ethernet adapter Ethernet 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Unknown adapter Local Area Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::4d68:54de:e573:c21b%7
   IPv4 Address. . . . . . . . . . . : 192.168.1.184
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.254

C:\Users\gchna>
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, ru
n 'Import-Module PSReadLine'.

PS C:\Users\gchna\OneDrive\Desktop> nmap -v
Starting Nmap 7.97 ( https://nmap.org ) at 2025-08-04 21:19 +0530
Read data files from: C:\Program Files (x86)\Nmap
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.15 seconds
          Raw packets sent: 0 (0B) | Rcvd: 0 (0B)
PS C:\Users\gchna\OneDrive\Desktop>
```

**Window 1 — Capturing from Wi-Fi**

File  Edit  View  Go  Capture  Analyze  Statistics  Telephony  Wireless  Tools  Help

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

| No. | Time | Source | Destination | Protocol | Length | Info |
|---|---|---|---|---|---|---|
| 20746 | 104.553542 | AzureWaveTec_8f:62:.. | NokiaShangha_dd:05:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 20747 | 105.065548 | NokiaShangha_28:b2:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 |
| 20748 | 105.065591 | AzureWaveTec_8f:62:.. | NokiaShangha_28:b2:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 20749 | 106.089568 | fe80::1 | fe80::4d68:54de:e57.. | ICMPv6 | 86 | Neighbor Solicitation for fe80::4d68:54de:e573:c21b from ec:a2:a0:63:a5:40 |
| 20750 | 106.089672 | fe80::4d68:54de:e57.. | fe80::1 | ICMPv6 | 86 | Neighbor Advertisement fe80::4d68:54de:e573:c21b (sol, ovr) is at 50:5a:65:8f:62:5f |
| 20751 | 106.099244 | TaicangT&WEl_63:a5:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 (duplicate use of 192.168.0.1 detected!) |
| 20752 | 106.099285 | AzureWaveTec_8f:62:.. | TaicangT&WEl_63:a5:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f (duplicate use of 192.168.0.1 detected!) |
| 20753 | 108.956916 | NokiaShangha_dd:05:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.1.254 |
| 20754 | 108.956942 | AzureWaveTec_8f:62:.. | NokiaShangha_dd:05:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 20755 | 110.185716 | NokiaShangha_28:b2:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 |
| 20756 | 110.185760 | AzureWaveTec_8f:62:.. | NokiaShangha_28:b2:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 20757 | 110.622635 | fe80::4d68:54de:e57.. | fe80::1 | ICMPv6 | 86 | Neighbor Solicitation for fe80::1 from 50:5a:65:8f:62:5f |
| 20758 | 110.633660 | fe80::1 | fe80::4d68:54de:e57.. | ICMPv6 | 78 | Neighbor Advertisement fe80::1 (rtr, sol) |
| 20759 | 111.312517 | fe80::1 | fe80::4d68:54de:e57.. | ICMPv6 | 86 | Neighbor Solicitation for fe80::4d68:54de:e573:c21b from ec:a2:a0:63:a5:40 |
| 20760 | 111.312517 | TaicangT&WEl_63:a5:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 (duplicate use of 192.168.0.1 detected!) |
| 20761 | 111.312591 | fe80::4d68:54de:e57.. | fe80::1 | ICMPv6 | 86 | Neighbor Advertisement fe80::4d68:54de:e573:c21b (sol, ovr) is at 50:5a:65:8f:62:5f |
| 20762 | 111.312686 | AzureWaveTec_8f:62:.. | TaicangT&WEl_63:a5:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f (duplicate use of 192.168.0.1 detected!) |
| 20763 | 111.722001 | 192.168.1.177 | 224.0.0.251 | MDNS | 119 | Standard query 0x0036 PTR _googlecast._tcp.local, "QM" question PTR _674A0243._sub._googlecast._tcp.local, "QM" question PTR _8E6C8.. |
| 20764 | 111.722001 | fe80::ccdb:6fff:fe2.. | ff02::fb | MDNS | 139 | Standard query 0x0036 PTR _googlecast._tcp.local, "QM" question PTR _674A0243._sub._googlecast._tcp.local, "QM" question PTR _8E6C8.. |
| 20765 | 112.806629 | 192.168.1.184 | 104.18.32.47 | TCP | 55 | [TCP Keep-Alive] 65429 → 443 [ACK] Seq=1 Ack=1 Win=255 Len=1 |

> Frame 3966: 1446 bytes on wire (11568 bits), 1446 bytes captured (11568 bits) on interface \Device\NPF_{
> Ethernet II, Src: NokiaShangha_dd:05:90 (78:17:35:dd:05:90), Dst: AzureWaveTec_8f:62:5f (50:5a:65:8f:62:
> Internet Protocol Version 4, Src: 57.144.169.33, Dst: 192.168.1.184
> Transmission Control Protocol, Src Port: 5222, Dst Port: 65476, Seq: 98472, Ack: 32919, Len: 1392

Wi-Fi: <live capture in progress>     Packets: 20770     Profile: Default

**Window 2 — Capturing from Wi-Fi**

File  Edit  View  Go  Capture  Analyze  Statistics  Telephony  Wireless  Tools  Help

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

| No. | Time | Source | Destination | Protocol | Length | Info |
|---|---|---|---|---|---|---|
| 21475 | 208.185185 | AzureWaveTec_8f:62:.. | TaicangT&WEl_63:a5:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f (duplicate use of 192.168.0.1 detected!) |
| 21476 | 208.697127 | NokiaShangha_dd:05:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.1.254 |
| 21477 | 208.697152 | AzureWaveTec_8f:62:.. | NokiaShangha_dd:05:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 21478 | 210.130759 | NokiaShangha_28:b2:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 |
| 21479 | 210.130797 | AzureWaveTec_8f:62:.. | NokiaShangha_28:b2:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |
| 21480 | 210.857394 | 192.168.1.184 | 104.18.32.47 | TCP | 55 | [TCP Keep-Alive] 65426 → 443 [ACK] Seq=1 Ack=1 Win=510 Len=1 |
| 21481 | 210.868219 | 104.18.32.47 | 192.168.1.184 | TCP | 66 | [TCP Keep-Alive ACK] 443 → 65426 [ACK] Seq=1 Ack=2 Win=146 Len=0 SLE=1 SRE=2 |
| 21482 | 211.052815 | fe80::1 | fe80::4d68:54de:e57.. | ICMPv6 | 86 | Neighbor Solicitation for fe80::4d68:54de:e573:c21b from ec:a2:a0:63:a5:40 |
| 21483 | 211.052905 | fe80::4d68:54de:e57.. | fe80::1 | ICMPv6 | 86 | Neighbor Advertisement fe80::4d68:54de:e573:c21b (sol, ovr) is at 50:5a:65:8f:62:5f |
| 21484 | 211.258078 | 192.168.1.177 | 224.0.0.251 | MDNS | 135 | Standard query 0x0007 PTR _googlecast._tcp.local, "QM" question PTR _674A0243._sub._googlecast._tcp.local, "QM" question PTR _44ED7.. |
| 21485 | 211.258078 | fe80::ccdb:6fff:fe2.. | ff02::fb | MDNS | 155 | Standard query 0x0007 PTR _googlecast._tcp.local, "QM" question PTR _674A0243._sub._googlecast._tcp.local, "QM" question PTR _44ED7.. |
| 21486 | 212.619467 | fe80::4d68:54de:e57.. | fe80::1 | DNS | 94 | Standard query 0xe16b A assets.msn.com |
| 21487 | 212.630611 | fe80::1 | fe80::4d68:54de:e57.. | DNS | 94 | Standard query response 0xe16b Server failure A assets.msn.com |
| 21488 | 212.631003 | 192.168.1.184 | 192.168.1.254 | DNS | 74 | Standard query 0xe16b A assets.msn.com |
| 21489 | 212.642711 | 192.168.1.254 | 192.168.1.184 | DNS | 246 | Standard query response 0xe16b A assets.msn.com CNAME assets-msn-com-world-atm-default.trafficmanager.net CNAME assets.msn.com-ion.. |
| 21490 | 213.305508 | TaicangT&WEl_63:a5:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.0.1 (duplicate use of 192.168.0.1 detected!) |
| 21491 | 213.305545 | AzureWaveTec_8f:62:.. | TaicangT&WEl_63:a5:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f (duplicate use of 192.168.0.1 detected!) |
| 21492 | 213.817312 | NokiaShangha_dd:05:.. | AzureWaveTec_8f:62:.. | ARP | 60 | Who has 192.168.1.184? Tell 192.168.1.254 |
| 21493 | 213.817346 | AzureWaveTec_8f:62:.. | NokiaShangha_dd:05:.. | ARP | 42 | 192.168.1.184 is at 50:5a:65:8f:62:5f |

> Frame 21368: 1466 bytes on wire (11728 bits), 1466 bytes captured (11728 bits) on interface \Device\NPF_
> Ethernet II, Src: AzureWaveTec_8f:62:5f (50:5a:65:8f:62:5f), Dst: NokiaShangha_dd:05:90 (78:17:35:dd:05:
> Internet Protocol Version 4, Src: 192.168.1.184, Dst: 20.190.145.141
> Transmission Control Protocol, Src Port: 65498, Dst Port: 443, Seq: 915, Ack: 4006, Len: 1412

Wi-Fi: <live capture in progress>     Packets: 21493     Profile: Default

## Top Window

*Wi-Fi

File  Edit  View  Go  Capture  Analyze  Statistics  Telephony  Wireless  Tools  Help

`tcp.flags.syn==1 and tcp.flags.ack==0`

| No. | Time | Source | Destination | Protocol | Length Info |
|---|---|---|---|---|---|
| 4192 | 25.429169 | 192.168.1.184 | 57.144.177.32 | TCP | 66 65482 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 4198 | 25.430102 | 192.168.1.184 | 57.144.169.32 | TCP | 66 65480 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 4199 | 25.430133 | 192.168.1.184 | 157.240.16.52 | TCP | 66 65483 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 4200 | 25.431098 | 192.168.1.184 | 31.13.79.53 | TCP | 66 65484 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 4201 | 25.431400 | 192.168.1.184 | 57.144.125.32 | TCP | 66 65485 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 4295 | 25.663822 | 192.168.1.184 | 23.37.240.161 | TCP | 66 65486 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 13910 | 42.572055 | 192.168.1.184 | 57.144.169.33 | TCP | 66 65487 → 5222 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 16379 | 49.526449 | 192.168.1.184 | 20.198.2.181 | TCP | 66 65488 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 17031 | 57.681280 | 192.168.1.184 | 49.44.146.150 | TCP | 66 65489 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 20619 | 86.166808 | 192.168.1.184 | 142.251.43.35 | TCP | 66 65490 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 20841 | 122.595074 | 192.168.1.184 | 40.100.141.162 | TCP | 66 65491 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 20903 | 123.128834 | 192.168.1.184 | 20.44.10.123 | TCP | 66 65492 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 20904 | 123.383185 | 192.168.1.184 | 20.44.10.123 | TCP | 66 65493 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21054 | 126.844254 | 192.168.1.184 | 13.107.6.254 | TCP | 66 65494 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21018 | 126.348377 | 192.168.1.184 | 13.107.253.254 | TCP | 66 65495 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21086 | 127.206673 | 192.168.1.184 | 4.150.240.254 | TCP | 66 65496 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21126 | 127.616140 | 192.168.1.184 | 204.79.197.222 | TCP | 66 65497 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21357 | 186.995909 | 192.168.1.184 | 20.190.145.141 | TCP | 66 65498 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |
| 21387 | 188.014195 | 192.168.1.184 | 20.235.208.151 | TCP | 66 65499 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM |

> Frame 21357: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{3D1F993
> Ethernet II, Src: AzureWaveTec_8f:62:5f (50:5a:65:8f:62:5f), Dst: NokiaShangha_dd:05:90 (78:17:35:dd:05:
> Internet Protocol Version 4, Src: 192.168.1.184, Dst: 20.190.145.141
> Transmission Control Protocol, Src Port: 65498, Dst Port: 443, Seq: 0, Len: 0

```
0000  78 17 35 dd 05 90 50 5a  65 8f 62 5f 08 00 45 00   x·5···PZ e·b_··E·
0010  00 34 5c cd 40 00 80 06  35 4b c0 a8 01 b8 14 be   ·4\·@··· 5K······
0020  91 8d ff da 01 bb 8c 11  a6 90 00 00 00 00 80 02   ················
0030  ff ff d2 2c 00 02 02 04  05 b4 01 03 03 08 01 01   ···,···· ········
0040  04 02                                              ··
```

wireshark_Wi-FiZDRSA3.pcapng        Packets: 21559 · Displayed: 27 (0.1%) · Dropped: 0 (0.0%)        Profile: Default

2 cm of rain  In 4 hours   ENG IN  09:36 PM 04-08-2025

## Bottom Window

*Wi-Fi

File  Edit  View  Go  Capture  Analyze  Statistics  Telephony  Wireless  Tools  Help

`tcp.flags.syn==1 and tcp.flags.ack==1`

| No. | Time | Source | Destination | Protocol | Length Info |
|---|---|---|---|---|---|
| 4216 | 25.454453 | 57.144.177.32 | 192.168.1.184 | TCP | 66 443 → 65482 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1392 SACK_PERM WS=256 |
| 4228 | 25.458926 | 31.13.79.53 | 192.168.1.184 | TCP | 66 443 → 65484 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1392 SACK_PERM WS=256 |
| 4229 | 25.458926 | 57.144.125.32 | 192.168.1.184 | TCP | 66 443 → 65485 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1392 SACK_PERM WS=256 |
| 4232 | 25.459433 | 157.240.16.52 | 192.168.1.184 | TCP | 66 443 → 65483 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1392 SACK_PERM WS=256 |
| 4296 | 25.685088 | 23.37.240.161 | 192.168.1.184 | TCP | 66 80 → 65486 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1412 SACK_PERM WS=128 |
| 4297 | 25.685088 | 23.37.240.161 | 192.168.1.184 | TCP | 66 [TCP Retransmission] 80 → 65486 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1412 SACK_PERM WS=128 |
| 13911 | 42.583468 | 57.144.169.33 | 192.168.1.184 | TCP | 66 5222 → 65487 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1392 SACK_PERM WS=256 |
| 16380 | 49.584890 | 20.198.2.181 | 192.168.1.184 | TCP | 66 443 → 65488 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 17055 | 57.933070 | 49.44.146.150 | 192.168.1.184 | TCP | 66 443 → 65489 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1412 SACK_PERM WS=128 |
| 20620 | 86.181136 | 142.251.43.35 | 192.168.1.184 | TCP | 66 80 → 65490 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM WS=256 |
| 20848 | 122.649535 | 40.100.141.162 | 192.168.1.184 | TCP | 66 443 → 65491 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 20905 | 123.393579 | 20.44.10.123 | 192.168.1.184 | TCP | 66 443 → 65492 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 20909 | 123.702942 | 20.44.10.123 | 192.168.1.184 | TCP | 66 443 → 65493 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 21019 | 126.467813 | 13.107.6.254 | 192.168.1.184 | TCP | 66 443 → 65494 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 21056 | 126.874446 | 13.107.253.254 | 192.168.1.184 | TCP | 66 443 → 65495 [SYN, ACK] Seq=0 Ack=1 Win=42300 Len=0 MSS=1410 WS=256 SACK_PERM |
| 21088 | 127.249789 | 4.150.240.254 | 192.168.1.184 | TCP | 66 443 → 65496 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 21128 | 127.650688 | 204.79.197.222 | 192.168.1.184 | TCP | 66 443 → 65497 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 21358 | 187.090157 | 20.190.145.141 | 192.168.1.184 | TCP | 66 443 → 65498 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 WS=256 SACK_PERM |
| 21388 | 188.114275 | 20.235.208.151 | 192.168.1.184 | TCP | 66 443 → 65499 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1412 SACK_PERM WS=1024 |

> Frame 21128: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{3D1F993
> Ethernet II, Src: NokiaShangha_dd:05:90 (78:17:35:dd:05:90), Dst: AzureWaveTec_8f:62:5f (50:5a:65:8f:62:
> Internet Protocol Version 4, Src: 204.79.197.222, Dst: 192.168.1.184
> Transmission Control Protocol, Src Port: 443, Dst Port: 65497, Seq: 0, Ack: 1, Len: 0

```
0000  50 5a 65 8f 62 5f 78 17  35 dd 05 90 08 00 45 00   PZe·b_x· 5·····E·
0010  00 34 39 c9 40 00 74 06  78 6c cc 4f c5 de c0 a8   ·49·@·t· xl·O····
0020  01 b8 01 bb ff d9 64 a1  00 20 44 6c 43 af 80 12   ······d· ·d··DlC···
0030  ff ff 2c 30 00 00 02 04  05 84 01 03 03 08 01 01   ··,0···· ········
0040  04 02                                              ··
```

wireshark_Wi-FiZDRSA3.pcapng        Packets: 21559 · Displayed: 28 (0.1%) · Dropped: 0 (0.0%)        Profile: Default

2 cm of rain  In 4 hours   ENG IN  09:36 PM 04-08-2025