

```
C:\Users\dhana>nmap sV-172.16.40.136
Starting Nmap 7.95 ( https://nmap.org ) at 2025-02-21 09:36 India Standard Time
Failed to resolve "sV-172.16.40.136".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.07 seconds
```

```
C:\Users\dhana>nmap --version
Nmap version 7.95 ( https://nmap.org )
Platform: i686-pc-windows-windows
Compiled with: nmap-liblua-5.4.6 openssl-3.0.13 nmap-libssh2-1.11.0 nmap-libz-1.3.1 nmap-libpcr2-10.43 Npcap-1.80 nmap-
libdnf-1.12 ipv6
Compiled without:
Available nsock engines: iocp poll select
```

```
C:\Users\dhana>nmap -sP 172.17.40.136/20
Starting Nmap 7.95 ( https://nmap.org ) at 2025-02-21 09:56 India Standard Time
RTTVAR has grown to over 2.3 seconds, decreasing to 2.0
Nmap scan report for 172.17.32.1
Host is up (0.042s latency).
MAC Address: BE:F0:17:71:1B:58 (Unknown)
Nmap scan report for 172.17.32.7
Host is up (0.19s latency).
MAC Address: EA:E0:6C:15:01:58 (Unknown)
Nmap scan report for 172.17.32.8
Host is up (0.072s latency).
MAC Address: F2:63:38:C9:31:CF (Unknown)
Nmap scan report for 172.17.32.9
Host is up (0.26s latency).
MAC Address: 86:AB:30:C5:78:26 (Unknown)
Nmap scan report for 172.17.32.12
Host is up (0.85s latency).
MAC Address: DE:49:EC:BB:D1:D9 (Unknown)
Nmap scan report for 172.17.32.14
Host is up (0.11s latency).
MAC Address: 52:A5:29:C7:0D:D4 (Unknown)
Nmap scan report for 172.17.32.15
Host is up (0.13s latency).
MAC Address: 42:DF:A0:14:5D:EF (Unknown)
Nmap scan report for 172.17.32.16
Host is up (0.35s latency).
MAC Address: 0A:A5:7D:81:C1:6C (Unknown)
Nmap scan report for 172.17.32.17
Host is up (0.17s latency).
MAC Address: 8E:E4:9C:E2:BE:F1 (Unknown)
Nmap scan report for 172.17.32.18
Host is up (0.21s latency).
MAC Address: 5A:A6:4E:97:44:68 (Unknown)
Nmap scan report for 172.17.32.22
Host is up (0.21s latency).
MAC Address: 68:20:3A:4D:00:00 (Unknown)
```

The image shows a Wireshark packet capture window. The top pane displays a list of captured packets, primarily DNS queries and responses. The middle pane shows the details of the selected packet (Frame 476), which is a DNS response from 172.16.0.100 to 172.17.40.136. The bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
24	4.154131	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x4fba A dns.google
25	4.154375	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x2092 HTTPS dns.google
26	4.167949	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0x4fba A dns.google A 8.8.4.4 A 8.8.8.8
27	4.167949	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0x2092 HTTPS dns.google SOA ns1.zdns.google
38	4.854232	172.17.40.136	172.16.0.100	DNS	70	Standard query 0xf9a7 A dns.google
39	4.854584	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x8a5f HTTPS dns.google
40	4.860339	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0xf9a7 A dns.google A 8.8.8.8 A 8.8.4.4
41	4.860339	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0x8a5f HTTPS dns.google SOA ns1.zdns.google
53	5.739713	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x8ae0 A dns.google
54	5.740087	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x3619 HTTPS dns.google
55	5.754885	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0x8ae0 A dns.google A 8.8.8.8 A 8.8.4.4
56	5.754885	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0x3619 HTTPS dns.google SOA ns1.zdns.google
67	6.021833	172.17.40.136	172.16.0.100	DNS	70	Standard query 0xb36b A dns.google
68	6.022178	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x1976 HTTPS dns.google
69	6.028085	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0xb36b A dns.google A 8.8.8.8 A 8.8.4.4
70	6.028085	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0x1976 HTTPS dns.google SOA ns1.zdns.google
81	6.176197	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x419b A dns.google
82	6.176536	172.17.40.136	172.16.0.100	DNS	70	Standard query 0xc8ca HTTPS dns.google
83	6.180718	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0x419b A dns.google A 8.8.8.8 A 8.8.4.4
84	6.186151	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0xc8ca HTTPS dns.google SOA ns1.zdns.google
95	6.229672	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x1233 A dns.google
96	6.229966	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x843a HTTPS dns.google
97	6.231237	172.17.40.136	172.16.0.100	DNS	80	Standard query 0x6cc3 A beacons.gcp.gvt2.com
98	6.231455	172.17.40.136	172.16.0.100	DNS	80	Standard query 0xb6af HTTPS beacons.gcp.gvt2.com
99	6.231942	172.17.40.136	172.16.0.100	DNS	80	Standard query 0xc2a5 A beacons.gcp.gvt2.com
100	6.232205	172.17.40.136	172.16.0.100	DNS	80	Standard query 0x8a7c HTTPS beacons.gcp.gvt2.com
101	6.235638	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0x1233 A dns.google A 8.8.8.8 A 8.8.4.4
102	6.235638	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0x843a HTTPS dns.google SOA ns1.zdns.google

Frame 476: 161 bytes on wire (1288 bits), 161 bytes captured (1288 bits) on interface \Device\NPF...  
Ethernet II, Src: Hewlett-Packard (08:00:27:34:3f:3f), Dst: Intel\_Ga\_b0:df (ac:19:8e:6a:b0:b0)  
Internet Protocol Version 4, Src: 172.16.0.100, Dst: 172.17.40.136  
User Datagram Protocol, Src Port: 53, Dst Port: 62745  
Domain Name System (response)

Packets: 584 · Displayed: 56 (9.6%)

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ipaddr == 172.17.40.136

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	13.107.3.254	172.17.40.136	TLSv1.2	560	Application Data
2	0.000000	13.107.3.254	172.17.40.136	TLSv1.2	85	Application Data
3	0.000042	172.17.40.136	13.107.3.254	TCP	54	3370 → 443 [ACK] Seq=32 Ack=538 Win=1019 Len=0
4	0.003616	13.107.3.254	172.17.40.136	TCP	60	443 → 3370 [ACK] Seq=538 Ack=32 Win=16386 Len=0
5	0.004129	172.17.40.136	13.107.3.254	TLSv1.2	129	Application Data
6	0.238190	13.107.3.254	172.17.40.136	TCP	60	443 → 3370 [ACK] Seq=538 Ack=107 Win=16386 Len=0
7	0.238190	13.107.3.254	172.17.40.136	TLSv1.2	247	Application Data
8	0.238190	13.107.3.254	172.17.40.136	TLSv1.2	85	Application Data
9	0.238268	172.17.40.136	13.107.3.254	TCP	54	3370 → 443 [ACK] Seq=107 Ack=762 Win=1018 Len=0
10	0.252464	172.17.40.136	172.16.0.100	DNS	86	Standard query 0x4722 A a-ring-fallback.msedge.net
11	0.252679	172.16.0.100	172.17.40.136	DNS	135	Standard query response 0x4722 A a-ring-fallback.msedge.net CNAME a-9999.a-dc.msedge.net A 131.253.33.254
12	0.256354	172.17.40.136	131.253.33.254	TCP	66	3371 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM
13	0.303978	131.253.33.254	172.17.40.136	TCP	66	443 → 3371 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1386 WS=256 SACK_PERM
14	0.304099	172.17.40.136	131.253.33.254	TCP	54	3371 → 443 [ACK] Seq=1 Ack=1 Win=262144 Len=0
15	0.306304	172.17.40.136	131.253.33.254	TLSv1.3	360	Client Hello (SNI=a-ring-fallback.msedge.net)
16	0.399077	131.253.33.254	172.17.40.136	TLSv1.3	153	Hello Retry Request, Change Cipher Spec
17	0.399152	172.17.40.136	131.253.33.254	TCP	54	3371 → 443 [ACK] Seq=307 Ack=100 Win=261888 Len=0
18	0.404166	172.17.40.136	131.253.33.254	TLSv1.3	431	Change Cipher Spec, Client Hello (SNI=a-ring-fallback.msedge.net)
19	0.465567	131.253.33.254	172.17.40.136	TLSv1.3	1440	Server Hello
20	0.465567	131.253.33.254	172.17.40.136	TCP	1440	443 → 3371 [ACK] Seq=1486 Ack=684 Win=4194560 Len=1386 [TCP PDU reassembled in 23]
21	0.465567	131.253.33.254	172.17.40.136	TCP	1440	443 → 3371 [ACK] Seq=2872 Ack=684 Win=4194560 Len=1386 [TCP PDU reassembled in 23]
22	0.465567	131.253.33.254	172.17.40.136	TCP	1440	443 → 3371 [ACK] Seq=4258 Ack=684 Win=4194560 Len=1386 [TCP PDU reassembled in 23]
23	0.465567	131.253.33.254	172.17.40.136	TLSv1.3	865	Application Data
24	0.465667	172.17.40.136	131.253.33.254	TCP	54	3371 → 443 [ACK] Seq=684 Ack=6455 Win=262144 Len=0
25	0.472096	172.17.40.136	131.253.33.254	TLSv1.3	128	Application Data
26	0.478262	172.17.40.136	131.253.33.254	TLSv1.3	134	Application Data
27	0.478386	172.17.40.136	131.253.33.254	TLSv1.3	359	Application Data
28	0.521213	131.253.33.254	172.17.40.136	TCP	60	443 → 3371 [ACK] Seq=6455 Ack=758 Win=4194560 Len=0

Frame 1: 560 bytes on wire (4480 bits), 560 bytes captured (4480 bits) on interface \Device\NPF...  
Ethernet II, Src: HewlettPacka\_cf:36:3f (08:97:34:cf:36:3f), Dst: Intel\_6a:b0:df (ac:19:8e:6a:b0:df)  
Internet Protocol Version 4, Src: 13.107.3.254, Dst: 172.17.40.136  
Transmission Control Protocol, Src Port: 443, Dst Port: 3370, Seq: 1, Ack: 1, Len: 560  
Transport Layer Security

ac 19 8e 6a b0 df 08 97 34 cf 36 3f 08 00 45 b8 ...j... 4 6? E  
0010 02 22 19 5e 40 00 73 06 05 be 0d 60 03 fe ac 11 ...@ s... k...  
0020 28 08 01 b0 0d 2a 11 aa c2 46 3b 00 37 25 50 10 (... ..F; SP  
0030 40 82 12 67 00 00 17 03 03 01 f5 5a 00 ee 78 1e @ g... ..Z x  
0040 82 ec 4f 32 18 f6 57 90 e4 19 58 87 51 e4 3d 9c ..Q W...X Q =  
0050 b4 fa af 5e 76 4b ce cd 31 34 69 41 94 ee 59 52 ...vk... 141A YR  
0060 45 e1 60 b6 b3 c4 48 15 80 22 7d 22 95 cb 7c 06 E...H..."]  
0070 b5 ef c8 a9 70 1e 57 b0 15 96 97 0e eb 6a 10 00 ...p W... ..j  
0080 92 aa fd 66 97 12 90 7e 57 04 12 dc 82 13 aa 2a ...f... W... ..  
0090 16 82 ed 3c 84 df c6 19 38 49 f3 fe 84 69 ce bd ...<... 8T...i  
00a0 2e 26 41 0e f7 c8 fb a5 d0 1e 30 a6 ee d0 9f d2 ,8A... ..0  
00b0 fa 79 fe 20 20 a9 d9 64 90 b7 ec bf 80 c1 5d 78 y...d... ..x  
00c0 33 2d 26 0f a5 2b d1 75 6d 08 7a 02 80 50 79 b3 3-b...+ u m z [y  
00d0 8b 1a 8f 5f 60 6b 4f fb 8d 6b 37 e5 ed e7 2d 9d ...kko k7...  
00e0 11 ed e4 5f 30 30 53 c8 8f 67 0c b0 4b 74 0f d4 ...00S... g Kt...

Packets: 21868 - Displayed: 21868 (100.0%) Profile: Default

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No.	Time	Source	Destination	Protocol	Length	Info
225	7.756158	172.17.40.136	8.8.8.8	TCP	54	3282 → 443 [ACK] Seq=1 Ack=1 Win=131584 Len=0
226	7.757456	172.17.40.136	8.8.8.8	TLSv1.2	1774	Client Hello (SNI=dns.google)
227	7.760103	8.8.8.8	172.17.40.136	TCP	60	443 → 3282 [RST, ACK] Seq=1 Ack=1721 Win=65280 Len=0
228	7.760912	172.17.40.136	8.8.8.8	TCP	66	3283 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
229	7.795294	8.8.8.8	172.17.40.136	TCP	66	443 → 3283 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1386 SACK_PERM WS=256
230	7.795380	172.17.40.136	8.8.8.8	TCP	54	3283 → 443 [ACK] Seq=1 Ack=1 Win=131584 Len=0
231	7.812437	172.17.40.136	8.8.8.8	TLSv1.2	1774	Client Hello (SNI=dns.google)
232	7.814991	8.8.8.8	172.17.40.136	TCP	60	443 → 3283 [RST, ACK] Seq=1 Ack=1721 Win=65280 Len=0
233	9.059567	172.17.40.136	172.16.0.100	DNS	70	Standard query 0x9aea A dns.google
234	9.059975	172.17.40.136	172.16.0.100	DNS	70	Standard query 0xb357 HTTPS dns.google
235	9.063381	172.16.0.100	172.17.40.136	DNS	102	Standard query response 0x9aea A dns.google A 8.8.4.4 A 8.8.8.8
236	9.063381	172.16.0.100	172.17.40.136	DNS	146	Standard query response 0xb357 HTTPS dns.google SOA ns1.zdns.google
237	9.064868	172.17.40.136	8.8.4.4	TCP	66	3284 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
238	9.075552	8.8.4.4	172.17.40.136	TCP	66	443 → 3284 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1386 SACK_PERM WS=256
239	9.075613	172.17.40.136	8.8.4.4	TCP	54	3284 → 443 [ACK] Seq=1 Ack=1 Win=131584 Len=0
240	9.076364	172.17.40.136	8.8.4.4	TLSv1.2	1774	Client Hello (SNI=dns.google)
241	9.079007	8.8.4.4	172.17.40.136	TCP	60	443 → 3284 [RST, ACK] Seq=1 Ack=1721 Win=65280 Len=0
242	9.079481	172.17.40.136	8.8.4.4	TCP	66	3285 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
243	9.093335	8.8.4.4	172.17.40.136	TCP	66	443 → 3285 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1386 SACK_PERM WS=256
244	9.093382	172.17.40.136	8.8.4.4	TCP	54	3285 → 443 [ACK] Seq=1 Ack=1 Win=131584 Len=0
245	9.093912	172.17.40.136	8.8.4.4	TLSv1.2	1774	Client Hello (SNI=dns.google)
246	9.096844	8.8.4.4	172.17.40.136	TCP	60	443 → 3285 [RST, ACK] Seq=1 Ack=1721 Win=65280 Len=0
247	15.651355	172.17.40.136	172.16.0.100	DNS	76	Standard query 0x4557 A wpad.PresUniv.in
248	15.656047	172.17.40.136	172.16.0.100	DNS	76	Standard query 0xf5ae A wpad.PresUniv.in
249	15.657185	172.16.0.100	172.17.40.136	DNS	143	Standard query response 0x4557 No such name A wpad.PresUniv.in SOA adserver.presuniv.in
250	15.658132	172.16.0.100	172.17.40.136	DNS	143	Standard query response 0xf5ae No such name A wpad.PresUniv.in SOA adserver.presuniv.in
251	22.553022	172.17.40.136	142.250.195.174	TCP	55	3215 → 443 [ACK] Seq=1 Ack=1 Win=509 Len=1
252	22.566991	142.250.195.174	172.17.40.136	TCP	66	443 → 3215 [ACK] Seq=1 Ack=2 Win=1050 Len=0 SLE=1 SRE=2

Frame 225: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF...  
Ethernet II, Src: Intel\_6a:b0:df (ac:19:8e:6a:b0:df), Dst: HewlettPacka\_cf:36:3f (08:97:34:cf:36:3f)  
Internet Protocol Version 4, Src: 172.17.40.136, Dst: 8.8.8.8  
Transmission Control Protocol, Src Port: 3282, Dst Port: 443, Seq: 1, Ack: 1, Len: 0

08 97 34 cf 36 3f ac 19 8e 6a b0 df 08 00 45 00 ... 4 6? ...j... E  
0010 00 28 db a1 40 00 80 06 00 00 ac 11 28 88 08 08 (... ..@... (...  
0020 08 08 ec d2 01 b5 07 88 78 fe ba 83 fe de 50 10 .....x...P  
0030 02 02 e4 c3 00 00 .....

Packets: 252 Profile: Default