# Ethical Hacking

**Report**

**Laiba Rehman**

# Data Scrapping Techniques

Data scraping, or web scraping, is a process of importing data from websites into files or spreadsheets. It is used to extract data from the web, either for personal use by the scraping operator, or to reuse the data on other websites

## Tools

Mozenda Inc

Common Crawl
Dexi.io

# Google Dorks and Advanced Search Queries

Google Dorks is a search technique that utilizes advanced operators to uncover sensitive or specific information on the internet, useful for cybersecurity, competitive intelligence, and research.

## Tools

Google Hacking Database
Dorkbot

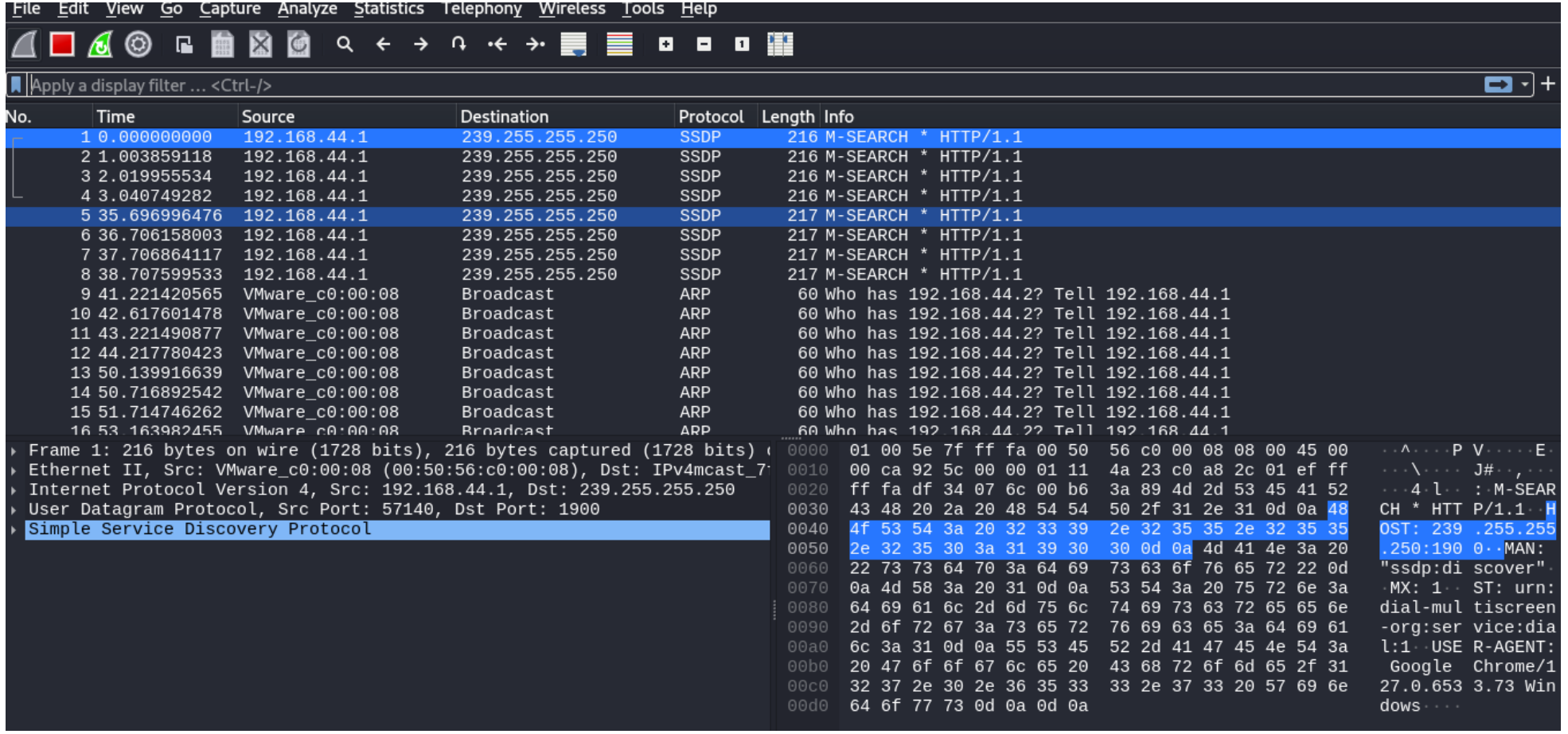
# Geolocation & IP tracing

Cyberattacks can often be traced by IP address origin, which can be critical to identifying and mitigating security threats.
Organizations use IP-based geolocation to detect and prevent unusual access to their networks

## Tools

WireShark

# Wireshark


File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
No. Time Source Destination Protocol Length Info
1 0.000000000 192.168.44.1 239.255.255.250 SSDP 216 M-SEARCH * HTTP/1.1
2 1.003859118 192.168.44.1 239.255.255.250 SSDP 216 M-SEARCH * HTTP/1.1
3 2.019955534 192.168.44.1 239.255.255.250 SSDP 216 M-SEARCH * HTTP/1.1
4 3.040749282 192.168.44.1 239.255.255.250 SSDP 216 M-SEARCH * HTTP/1.1
5 35.696996476 192.168.44.1 239.255.255.250 SSDP 217 M-SEARCH * HTTP/1.1
6 36.706158003 192.168.44.1 239.255.255.250 SSDP 217 M-SEARCH * HTTP/1.1
7 37.706864117 192.168.44.1 239.255.255.250 SSDP 217 M-SEARCH * HTTP/1.1
8 38.707599533 192.168.44.1 239.255.255.250 SSDP 217 M-SEARCH * HTTP/1.1
9 41.221420565 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
10 42.617601478 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
11 43.221490877 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
12 44.217780423 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
13 50.139916639 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
14 50.716892542 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
15 51.714746262 VMware_c0:00:08 Broadcast ARP 60 Who has 192.168.44.2? Tell 192.168.44.1
Frame 1: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits)
Ethernet II, Src: VMware_c0:00:08 (00:50:56:c0:00:08), Dst: IPv4mcast_7
Internet Protocol Version 4, Src: 192.168.44.1, Dst: 239.255.255.250
User Datagram Protocol, Src Port: 57140, Dst Port: 1900
Simple Service Discovery Protocol
0000 01 00 5e 7f ff fa 00 50 56 c0 00 08 08 00 45 00
0010 00 ca 92 5c 00 00 01 11 4a 23 c0 a8 2c 01 ef ff
0020 ff fa df 34 07 6c 00 b6 3a 89 4d 2d 53 45 41 52
0030 43 48 20 2a 20 48 54 54 50 2f 31 2e 31 0d 0a 48
0040 4f 53 54 3a 20 32 33 39 2e 32 35 35 2e 32 35 35
0050 2e 32 35 30 3a 31 39 30 30 0d 0a 4d 41 4e 3a 20
0060 22 73 73 64 70 3a 64 69 73 63 6f 76 65 72 22 0d
0070 0a 4d 58 3a 20 31 0d 0a 53 54 3a 20 75 72 6e 3a
0080 64 69 61 6c 2d 6d 75 6c 74 69 73 63 72 65 65 6e
0090 2d 6f 72 67 3a 73 65 72 76 69 63 65 3a 64 69 61
00a0 6c 3a 31 0d 0a 55 53 45 52 2d 41 47 45 4e 54 3a
00b0 20 47 6f 6f 67 6c 65 20 43 68 72 6f 6d 65 2f 31
00c0 32 37 2e 30 2e 36 35 33 33 2e 37 33 20 57 69 6e
00d0 64 6f 77 73 0d 0a 0d 0a