

# Task Report 2

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G O V E R N M E N T P O L Y T E C H N I C U D U P I



## 1.Perform IP Address Spoofing.

Internet Protocol (IP) spoofing is a type of malicious attack in which the threat actor conceals the true source of IP packets in order to make it difficult to determine where they originated. The attacker generates packets by changing the source IP address in order to impersonate another computer system, conceal the sender's identity, or both. The header field for the source IP address in the spoofed packet contains an address that differs from the actual source IP address.

Attackers frequently use IP spoofing to launch distributed denial of service (DDoS) and man-in-the-middle attacks against targeted devices or surrounding infrastructures. DDoS attacks seek to overwhelm a target with traffic while concealing the identity of the malicious source, thereby preventing mitigation efforts.

Attackers can use spoofed IP addresses to prevent authorities from discovering who they are and implicating them in the attack; prevent targeted devices from sending alerts about attacks in which they are unwitting participants; and circumvent security scripts, devices, and services that blocklist IP addresses known to be sources of malicious traffic.

**Command: ifconfig eth0 <IP Address>**

Output:

```
(root@kali)-[/home/kali]
# ifconfig eth0 192.168.115.14

(root@kali)-[/home/kali]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.115.14 netmask 255.255.255.0 broadcast 192.168.115.255
    inet6 fe80::c82:20e8:6b33:b63f prefixlen 64 scopeid 0x20<link>
    ether 5a:61:d9:2a:a7:cf txqueuelen 1000 (Ethernet)
    RX packets 8923 bytes 7434611 (7.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6502 bytes 1016742 (992.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 6 bytes 340 (340.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6 bytes 340 (340.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(root@kali)-[/home/kali]
# echo Darshan Achar
Darshan Achar
```

## 2.Perform Mac Address Spoofing.

MAC spoofing is most commonly associated with the attack method used in Wireless Network Hacking. MAC spoofing is a popular technique for breaking into wireless networks and stealing wireless network credentials. It can also be used to install an unauthorised access point or simulate an access point with a packet sniffer from the same operating system and network segment.

### Commands:

- ifconfig eth0 down
- macchanger -r eth0
- macchanger -s eth0
- macchanger -m <Mac which you to set> eth0
- ifconfig eth0 up

### Output:

```
Current MAC: 00:0c:29:b0:85:64 (VMware, Inc.)
Permanent MAC: 00:0c:29:b0:85:64 (VMware, Inc.)

(root@kali)-[/home/kali]
# ifconfig eth0 down

(root@kali)-[/home/kali]
# macchanger -r eth0
Current MAC: 00:0c:29:b0:85:64 (VMware, Inc.)
Permanent MAC: 00:0c:29:b0:85:64 (VMware, Inc.)
New MAC: 76:e5:58:21:0b:96 (unknown)

(root@kali)-[/home/kali]
# ifconfig eth0 down

(root@kali)-[/home/kali]
# macchanger -s eth0

Current MAC: 76:e5:58:21:0b:96 (unknown)
Permanent MAC: 00:0c:29:b0:85:64 (VMware, Inc.)

(root@kali)-[/home/kali]
# macchanger -m 00:0c:29:b0:85:64 eth0
Current MAC: 76:e5:58:21:0b:96 (unknown)
Permanent MAC: 00:0c:29:b0:85:64 (VMware, Inc.)
New MAC: 00:0c:29:b0:85:64 (VMware, Inc.)

(root@kali)-[/home/kali]
# echo Darshan Achar
Darshan Achar
```

### 3.Whatweb Commands.

Whatweb is a website identification service. It recognises web technologies such as CMS, blogging platforms, JavaScript libraries, and embedded devices. Whatweb has over 900 plugins, each of which recognises a different thing. It also identifies version numbers, email address, account id and more.

Command:

- whatweb mitkundapura.com
- whatweb -v mitkundapura.com
- whatweb -a 3 mitkundapura.com
- whatweb --max-redirect 2 mitkundapura.com
- whatweb -v -a 3 mitkundapura.com

Output:

```
(root@kali) ~/home/kali
$ whatweb mitkundapura.com
http://mitkundapura.com [301 Moved Permanently] Country[UNITED KINGDOM][GB], HTML5, HTTPServer[LiteSpeed], IP[217.21.87.244], LiteSpeed, RedirectLocation[https://mitkundapura.com/], Title[301 Moved Permanently][[title element contains noinline(1)]], UncommonHeaders[platform,content-security-policy]
https://mitkundapura.com/ [200 OK] Bootstrap, Country[UNITED KINGDOM][GB], Email[office@mitkundapura.com], HTML5, HTTPServer[LiteSpeed], IP[217.21.87.244], JQuery, LiteSpeed, PHP[7.4.33], PoweredBy[Kedige], Script, Title[MITK- Moodlakarta Institute of Technology & Management, Kundapura Home], UncommonHeaders[platform,content-security-policy,alt-svc], X-Powered-By[PHP/7.4.33]

(root@kali) ~/home/kali
$ echo Darshan Achar
Darshan Achar

(root@kali) ~/home/kali
$ whatweb -v 3 www.mitkundapura.com
http://www.mitkundapura.com [301 Moved Permanently] Country[UNITED KINGDOM][GB], HTML5, HTTPServer[LiteSpeed], IP[217.21.87.244], LiteSpeed, RedirectLocation[https://www.mitkundapura.com/], Title[301 Moved Permanently][[title element contains noinline(1)]], UncommonHeaders[platform,content-security-policy]
https://www.mitkundapura.com/ [200 OK] Bootstrap, Country[UNITED KINGDOM][GB], Email[office@mitkundapura.com], HTML5, HTTPServer[LiteSpeed], IP[217.21.87.244], JQuery, LiteSpeed, PHP[7.4.33], PoweredBy[Kedige], Script, Title[MITK- Moodlakarta Institute of Technology & Management, Kundapura Home], UncommonHeaders[platform,content-security-policy,alt-svc], X-Powered-By[PHP/7.4.33]

(root@kali) ~/home/kali
$ echo Darshan Achar
Darshan Achar
```

```
[ PoweredBy ]
  This plugin identifies instances of 'Powered by x' text and
  attempts to extract the value for x.
  String      : Kedige

[ Script ]
  This plugin detects instances of script HTML elements and
  returns the script language/type.

[ UncommonHeaders ]
  Uncommon HTTP server headers. The blacklist includes all
  the standard headers and many non standard but common ones.
  Interesting but fairly common headers should have their own
  plugins, eg. x-powered-by, server and x-aspnet-version.
  Info about headers can be found at www.http-stats.com
  String      : platform,content-security-policy,alt-svc (from headers)

[ X-Powered-By ]
  X-Powered-By HTTP header
  String      : PHP/7.4.33 (from x-powered-by string)

HTTP Headers:
  HTTP/1.1 200 OK
  Connection: close
  x-powered-by: PHP/7.4.33
  content-type: text/html; charset=UTF-8
  content-length: 10470
  content-encoding: gzip
  vary: Accept-Encoding
  date: Fri, 03 Mar 2023 05:54:46 GMT
  server: LiteSpeed
  platform: hostinger
  content-security-policy: upgrade-insecure-requests
  alt-svc: h3=":443"; ma=2592000, h3-29=":443"; ma=2592000, h3-Q046=":443"; ma=2592000, h3-Q043=":443"; ma=2592000, quic=":443"; ma=2592000; v="43,46"

(root@kali) ~/home/kali
$ echo Darshan Achar
Darshan Achar
```



```

WhatWeb report for https://mitkundapura.com/
Status : 200 OK
Title : MITK- Moodlakatte Institute of Technology & Management, Kundapura Home
IP : 217.21.87.244
Country : UNITED KINGDOM, GB

Summary : Bootstrap, Email[office@mitkundapura.com], HTML5, HTTPServer[LiteSpeed], JQuery, LiteSpeed, PHP[7.4.33], PoweredBy[edige], Script, UncommonHeaders[platform,content-security-policy,alt-

Detected Plugins:
[ Bootstrap ]
Bootstrap is an open source toolkit for developing with
HTML, CSS, and JS.
Website : https://getbootstrap.com/

[ Email ]
Extract email addresses. Find valid email address and
syntactically invalid email addresses from mailto: link
tags. We match syntactically invalid links containing
mailto: to catch anti-spam email addresses, eg. bob at
gmail.com. This uses the simplified email regular
expression from
http://www.regular-expressions.info/email.html for valid
email address matching.
String : office@mitkundapura.com

[ HTML5 ]
HTML version 5, detected by the doctype declaration

[ HTTPServer ]
HTTP server header string. This plugin also attempts to
identify the operating system from the server header.
String : LiteSpeed (from server string)

[ JQuery ]
A fast, concise, JavaScript that simplifies how to traverse
HTML documents, handle events, perform animations, and add
AJAX.
Website : http://jquery.com/

[ LiteSpeed ]
LiteSpeed web server, which is able to read Apache
configuration directly and used together with web hosting
control panels by replacing Apache

~$ whatweb mitkundapura.com -v
WhatWeb report for http://mitkundapura.com
Status : 301 Moved Permanently
Title : ,301 Moved Permanently
IP : 217.21.87.244
Country : UNITED KINGDOM, GB

Summary : HTML5, HTTPServer[LiteSpeed], LiteSpeed, RedirectLocation[https://mitkundapura.com/], UncommonHeaders[platform,content-security-policy]

Detected Plugins:
[ HTML5 ]
HTML version 5, detected by the doctype declaration

[ HTTPServer ]
HTTP server header string. This plugin also attempts to
identify the operating system from the server header.
String : LiteSpeed (from server string)

[ LiteSpeed ]
LiteSpeed web server, which is able to read Apache
configuration directly and used together with web hosting
control panels by replacing Apache

[ RedirectLocation ]
HTTP Server string location. used with http-status 301 and
302
String : https://mitkundapura.com/ (from location)

[ UncommonHeaders ]
Uncommon HTTP server headers. The blacklist includes all
the standard headers and many non standard but common ones.

WhatWeb report for https://mitkundapura.com/
Status : 200 OK
Title : MITK- Moodlakatte Institute of Technology & Management, Kundapura Home
IP : 217.21.87.244
Country : UNITED KINGDOM, GB

Summary : Bootstrap, Email[office@mitkundapura.com], HTML5, HTTPServer[LiteSpeed], JQuery, LiteSpeed,

Detected Plugins:
[ Bootstrap ]
Bootstrap is an open source toolkit for developing with
HTML, CSS, and JS.
Website : https://getbootstrap.com/

[ Email ]
Extract email addresses. Find valid email address and
syntactically invalid email addresses from mailto: link
tags. We match syntactically invalid links containing
mailto: to catch anti-spam email addresses, eg. bob at
gmail.com. This uses the simplified email regular
expression from
http://www.regular-expressions.info/email.html for valid
email address matching.
String : office@mitkundapura.com

[ HTML5 ]
HTML version 5, detected by the doctype declaration

[ HTTPServer ]
HTTP server header string. This plugin also attempts to
identify the operating system from the server header.
String : LiteSpeed (from server string)

```

## 4.NsLookUp Commands.

Nslookup (name server lookup) is a useful command for retrieving information from a DNS server. It is a network administration tool that queries the DNS to obtain domain name or IP address mapping information, as well as any other specific DNS record. It is also used to troubleshoot DNS issues.

### Commands:

1.nslookup followed by the domain name will display the "A Record" (IP address) of the domain.

```
# nslookup google.com
```

2.SOA record provides the authoritative information about the domain, e-mail, the serial numbers etc...

```
# nslookup -type=soa google.com
```

3.NS (name server) it will output the name servers which are associated with given domains.

```
# nslookup -type=ns google.com
```

4.MX (mail exchange) record maps a domain name to list of mail exchange servers for that domain.

```
# nslookup -type=mx google.com
```

5.To view information useful for debugging, use the debug option

```
# nslookup -debug google.com
```

Output:

```
(kali㉿kali)-[~]
$ sudo su
[sudo] password for kali:
(kali㉿kali)-[~]
# nslookup -debug mitkundapura.com
Server:      192.168.65.2
Address:     192.168.65.2#53

QUESTIONS:
  mitkundapura.com, type = A, class = IN
ANSWERS:
  -> mitkundapura.com
      internet address = 217.21.87.244
      ttl = 5
AUTHORITY RECORDS:
ADDITIONAL RECORDS:

Non-authoritative answer:
Name:   mitkundapura.com
Address: 217.21.87.244

QUESTIONS:
  mitkundapura.com, type = AAAA, class = IN
ANSWERS:
  -> mitkundapura.com
      has AAAA address 2a02:4780:11:771:0:2d4c:6d7f:1
      ttl = 5
AUTHORITY RECORDS:
ADDITIONAL RECORDS:

Name:   mitkundapura.com
Address: 2a02:4780:11:771:0:2d4c:6d7f:1

(kali㉿kali)-[~]
# echo Darshan Achar
Darshan Achar
```

```

(root@kali)-[/home/kali]
# nslookup google.com
Server:      192.168.19.2
Address:     192.168.19.2#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.183.238
Name:   google.com
Address: 2404:6800:4007:822::200e

(root@kali)-[/home/kali]
# nslookup -type=mx google.com
Server:      192.168.19.2
Address:     192.168.19.2#53

Non-authoritative answer:
google.com mail exchanger = 10 smtp.google.com.

Authoritative answers can be found from:
smtp.google.com internet address = 142.251.10.26
smtp.google.com internet address = 142.251.12.27
smtp.google.com internet address = 142.251.12.26
smtp.google.com internet address = 172.217.194.27
smtp.google.com internet address = 172.217.194.26
smtp.google.com has AAAA address 2404:6800:4003:c0f::1a
smtp.google.com has AAAA address 2404:6800:4003:c11::1b
smtp.google.com has AAAA address 2404:6800:4003:c11::1a
smtp.google.com has AAAA address 2404:6800:4003:c04::1a

(root@kali)-[/home/kali]
# nslookup -type=soa google.com
Server:      192.168.19.2
Address:     192.168.19.2#53

Non-authoritative answer:
google.com
      origin = ns1.google.com
      mail addr = dns-admin.google.com
      serial = 513187717
      refresh = 900
      retry = 900
      expire = 1800
      minimum = 60

Authoritative answers can be found from:
google.com nameserver = ns1.google.com.
google.com nameserver = ns4.google.com.
google.com nameserver = ns2.google.com.
google.com nameserver = ns3.google.com.
ns2.google.com internet address = 216.239.34.10
ns2.google.com has AAAA address 2001:4860:4802:34::a
ns1.google.com internet address = 216.239.32.10
ns1.google.com has AAAA address 2001:4860:4802:32::a
ns4.google.com internet address = 216.239.38.10
ns4.google.com has AAAA address 2001:4860:4802:38::a
ns3.google.com internet address = 216.239.36.10
ns3.google.com has AAAA address 2001:4860:4802:36::a

(root@kali)-[/home/kali]
# nslookup -type=mx google.com
Server:      192.168.19.2
Address:     192.168.19.2#53

Non-authoritative answer:
google.com mail exchanger = 10 smtp.google.com.

Authoritative answers can be found from:
smtp.google.com internet address = 142.251.10.26
smtp.google.com internet address = 142.251.12.27
smtp.google.com internet address = 142.251.12.26
smtp.google.com internet address = 172.217.194.27
smtp.google.com internet address = 172.217.194.26
smtp.google.com has AAAA address 2404:6800:4003:c0f::1a
smtp.google.com has AAAA address 2404:6800:4003:c11::1b
smtp.google.com has AAAA address 2404:6800:4003:c11::1a
smtp.google.com has AAAA address 2404:6800:4003:c04::1a

```



## 6. Whois Command.

The whois command displays information about a website's record. You may get all the information about a website regarding its registration and owner's information.

Command : # whois mitkundapura.com

Output :

```
(root@kali)-[/home/kali]
# whois mitkundapura.com
Domain Name: MITKUNDAPURA.COM
Registry Domain ID: 1656001143_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.registrar.eu
Registrar URL: http://www.openprovider.com
Updated Date: 2022-02-22T08:46:34Z
Creation Date: 2011-05-13T20:28:43Z
Registry Expiry Date: 2023-05-13T20:28:43Z
Registrar: Hosting Concepts B.V. d/b/a Registrar.eu
Registrar IANA ID: 1647
Registrar Abuse Contact Email: abuse@registrar.eu
Registrar Abuse Contact Phone: +31.104482297
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: NS1.DNS-PARKING.COM
Name Server: NS2.DNS-PARKING.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2023-03-03T09:03:28Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar. Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois
database through the use of electronic processes that are high-volume and
automated except as reasonably necessary to register domain names or
modify existing registrations; the Data in VeriSign Global Registry
Services' ("VeriSign") Whois database is provided by VeriSign for
information purposes only, and to assist persons in obtaining information
about or related to a domain name registration record. VeriSign does not
guarantee its accuracy. By submitting a Whois query, you agree to abide
```



## 7.Nikto.

Nikto is an open-source command-line vulnerability scanner that looks for potentially dangerous files, outdated versions, server configuration files, and other issues on web servers. It is a well-known, simple-to-use, and extremely powerful pen testing tool.

command: nikto -h mitkundapura

Output :

```
(kali@kali)-[~]
$ nikto -h mitkundapura.com
- Nikto v2.1.6

+ Target IP:      217.21.87.244
+ Target Hostname: mitkundapura.com
+ Target Port:    80
+ Start Time:     2023-03-02 23:46:11 (GMT-5)


+ Server: LiteSpeed
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ Uncommon header 'platform' found, with contents: hostinger
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Root page / redirects to: https://mitkundapura.com/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Server may leak inodes via ETags, header found with file /images, inode: 999, size: 61cb51cf, mtime: 7630b837fa8dd3cc;;
+ ERROR: Error limit (20) reached for host, giving up. Last error: error reading HTTP response
+ Scan terminated: 20 error(s) and 5 item(s) reported on remote host
+ End Time:       2023-03-02 23:46:47 (GMT-5) (36 seconds)

+ 1 host(s) tested
```


## 8.Crypto Configuration Flaw.

A cryptographic failure is a critical web application security flaw that exposes sensitive application data due to a faulty or non-existent cryptographic algorithm. Passwords, patient health records, business secrets, credit card information, email addresses, and other personal user information are examples.

Output :



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**DEMO SITE ONLY**

PERSONAL	SMALL BUSINESS	INSIDE ALTORO MUTUAL
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## 9.NetDiscover.

Netdiscover is a simple ARP scanner that can be used to search a network for live hosts. It can also search for multiple subnets. It simply displays the output in real time (ncurses). This can be used in the early stages of a pentest where you have network access. Netdiscover is a simple initial reconnaissance tool that can be very useful.

Command: To view the usage options.

```
# netdiscover -h
```

·use following command to check the IP Address:

```
# ifconfig
```

- We can scan a specific range with -r option

```
# netdiscover -r 192.168.19.0/24
```

Output :

Currently scanning: 172.19.249.0/16 | Screen View: Unique Hosts

10 Captured ARP Req/Rep packets, from 3 hosts. Total size: 600

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.65.1	00:50:56:c0:00:08	2	120	VMware, Inc.
192.168.65.2	00:50:56:f4:4f:45	6	360	VMware, Inc.
192.168.65.254	00:50:56:ea:b2:7c	2	120	VMware, Inc.

zsh: suspended sudo netdiscover -d -i eth0

(kali㉿kali)-[~]

\$ echo Darshan Achar  
Darshan Achar

File Actions Edit View Help

Currently scanning: (passive) | Screen View: Unique Hosts

3 Captured ARP Req/Rep packets, from 1 hosts. Total size: 180

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.65.2	00:50:56:f4:4f:45	3	180	VMware, Inc.

zsh: suspended sudo netdiscover -p

(kali㉿kali)-[~]

\$ echo Darshan Achar  
Darshan Achar

Currently scanning: 192.168.173.0/16 | Screen View: Unique Hosts

3 Captured ARP Req/Rep packets, from 3 hosts. Total size: 180

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.65.1	00:50:56:c0:00:08	1	60	VMware, Inc.
192.168.65.2	00:50:56:f4:4f:45	1	60	VMware, Inc.
192.168.65.254	00:50:56:ea:b2:7c	1	60	VMware, Inc.

zsh: suspended sudo netdiscover -i eth0

(kali㉿kali)-[~]

\$ echo Darshan Achar  
Darshan Achar

Currently scanning: Finished! | Screen View: Unique Hosts

2 Captured ARP Req/Rep packets, from 1 hosts. Total size: 120

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.65.2	00:50:56:f4:4f:45	2	120	VMware, Inc.

zsh: suspended sudo netdiscover -r 192.168.1.0/24

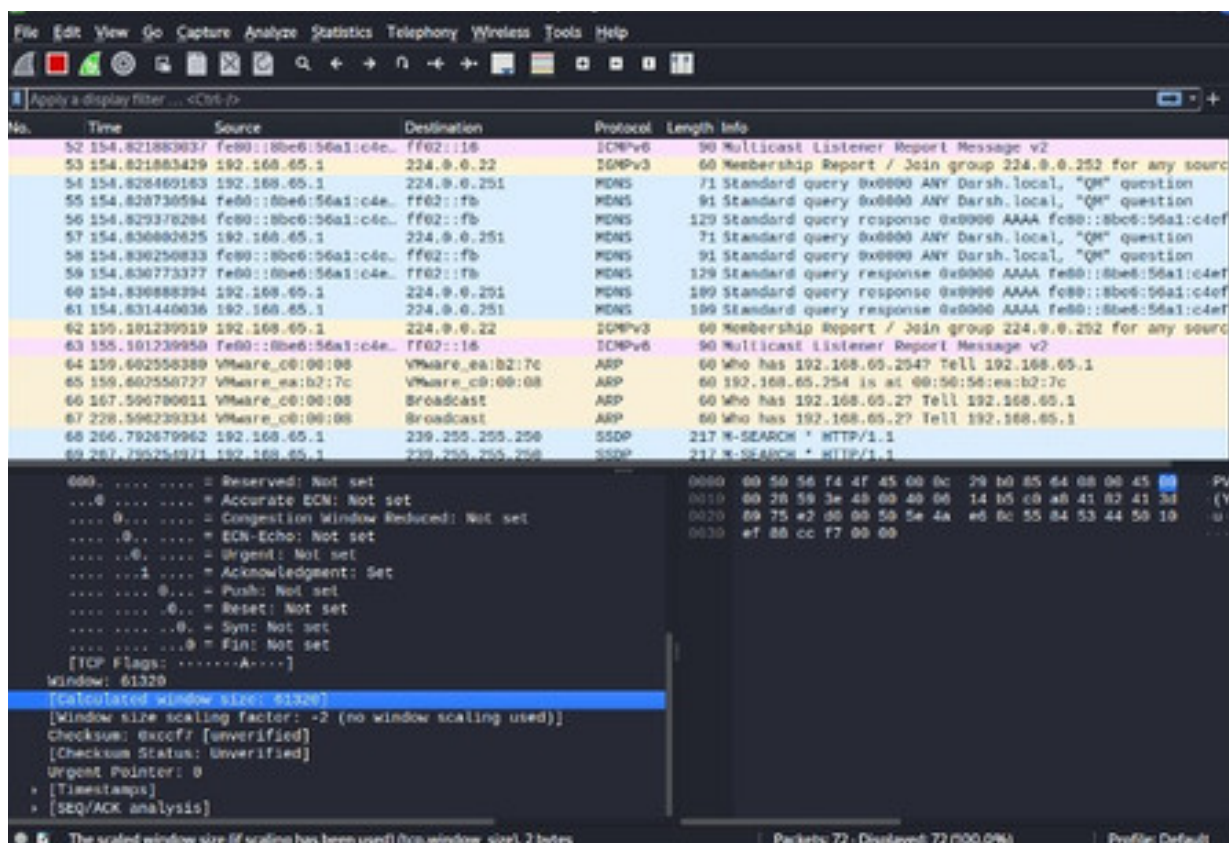
(kali㉿kali)-[~]

\$ echo Darshan Achar  
Darshan Achar

## 9. Finding Data Packets using Wireshark.

Wireshark is a network protocol analyzer, or an application that captures packets from a network connection, such as from your computer to your home office or the internet. Packet is the name given to a discrete unit of data in a typical Ethernet network. Wireshark is the most often-used packet sniffer in the world.

Output:



Currently scanning: 172.19.249.0/16 |  
10 Captured ARP Req/Rep packets, from 3

IP	At MAC Address	Count
192.168.65.1	00:50:56:c0:00:08	2
192.168.65.2	00:50:56:f4:4f:45	6
192.168.65.254	00:50:56:ea:b2:7c	2



## 10. Finding XML pages in website using Dirbuster.

Dirbuster is used once you have scanned an IP address and found any vulnerabilities. DirBuster will help you map out the application. Building a directory of the target site is useful in finding as many potential points of entry to the target.

Output:

