## 1、虚拟机IP

## # 答案

172.16.165.165

### # 分析过程

虚拟机IP为本地DHCP服务器进行分配的,所以直接过滤"dhcp",获取使用dhcp的虚拟机通信数据包;虚拟机IP一般为内网的,172或者192开头的,也可以通过这个来看

dhcp	dhop										
No.	Tine	Source	Destination	Protocol	Length Status Code	Info					
2	442 62.202238	172.16.165.165	255.255.255.255	DHCP	342	DHCP Inform	- Transaction ID 0x92e7cbf7				
2	446 62.202616	172.16.165.254	172.16.165.165	DHCP	342	DHCP ACK	- Transaction ID 0x92e7cbf7				
3	020 469.160328	172.16.165.165	172.16.165.254	DHCP	350	DHCP Request	- Transaction ID 0xd71286ce				
3	021 469.161347	172.16.165.254	172.16.165.165	DHCP	342	DHCP ACK	- Transaction ID 0xd71286ce				

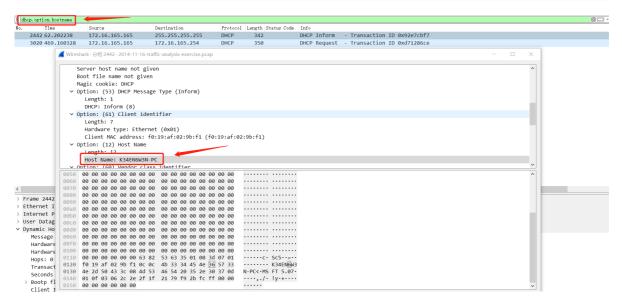
# 2、虚拟机主机名

### # 答案

K34EN6W3N-PC

### # 分析过程

过滤"dhcp.option.hostname",直接查看到dhcp协议主机的hostname



# 3、虚拟机MAC

### # 答案

f0:19:af:02:9b:f1

## # 分析过程

直接点击虚拟机相关的数据包,在数据链路层可以看到MAC地址

# 4、被入侵网站IP

### # 答案

82.150.140.30

### # 分析过程

前面信息收集,采用过滤器进行跳包。这里从头开始追包,前面基本都是本机与bing网站的交互,直到这里出现了一段DNS解析,随后出现了一个陌生的IP,之后频繁与该IP产生交互,初步确定该IP为被入侵的网站IP。且可还原出画像为,用户通过访问bing网站搜索到了该网站IP并产生交互。

133 4.983881	204.79.197.200	172.16.165.165	TCP	462	[TCP Retransmission] 80 → 49429 [PSH, ACK] Seq=1 Ack=808 Win=64240 Len=408
134 4.983902	172.16.165.165	204.79.197.200	TCP	54	49429 → 80 [ACK] Seq=808 Ack=409 Win=63832 Len=0
135 5.021797					
136 5.021798					
137 5.121860				69	
138 5.121860			TCP		[TCP Retransmission] 80 → 49432 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460
139 5.169421	172.16.165.2	172.16.165.165	/ JNS	94	Standard query response 0x1db1 A www.ciniholland.nl A 82.150.140.30
140 5.170000	172.16.165.165	82.150.140.30	TCP	66	49437 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
141 5.221857	204.79.197.200	172.16.165.165	TCP	60	[TCP Retransmission] 80 → 49433 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460
142 5.221857					
143 5.322359					

# 5、被入侵网站域名

### # 答案

www.ciniholland.nl

### # 分析过程

过滤"ip.addr == 82.150.140.30 and http", 定位关于被入侵IP的HTTP数据包



# 6、提供恶意软件的域名

### # 答案

stand.trustandprobaterealty.com

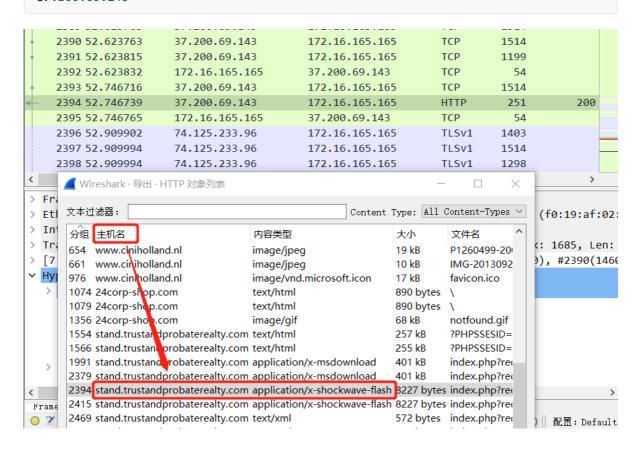
### # 分析过程

提供恶意软件的地址,首先定位到恶意软件,点击导出对象"HTTP"。发现其中存在一些不寻常的文件,如"application/x-msdownload"类型的文件,代表dll文件,"application/x-shockwave-flash"代表swf文件,"application/java-archive"代表jar文件,比较可疑。下载并分析,发现swf文件为恶意软件



### # 分析过程

定位该文件的数据包,发现恶意软件的域名为stand.trustandprobaterealty.com, IP为 37.200.69.143



# 二级

1、指向恶意软件登陆页面的重定向URL

### # 答案

http://24corp-shop.com/

### # 分析过程

已知恶意软件的IP为37.200.69.143,那么找重定向URL时,只需要找到第一次与37.200.69.143交互的HTTP数据包,并找到该数据包中的Referer,即重定向前的URL。过滤语法"ip.addr == 37.200.69.143 and http"

	ip.addr == 37.200.69.14	3 and http	—————————————————————————————————————						
No.	Time	Source	Destination	Protocol	Length	Status Code	_		
-	1212 23.664538	172.16.165.165	37.200.69.143	HTTP	695				
	1213 23.664644	172.16.165.165	37.200.69.143	HTTP	695				
-	1554 28.006873	37.200.69.143	172.16.165.165	HTTP	302	20	0		

【 Wireshark · 分组 1212 · 20 4-11-16-traffic-analysis-exercise.pcap

> Transmission Control Protocol, Src Port: 49451, Dst Port: 80, Seq: 1, Ack: 1, Len: 641

Hypertext Transfer Protocol

> GET /?PHPSSESID=rirMNruDMhvJFIPGKuXDSKVbM07PThnJko2ahe6JVg|ZDJiZjZiZjI5Yzc5OTg3MzE1MzJkMm Accept: application/x-ms-application, image/jpeg, application/xaml+xml, image/gif, image/ Referer: http://24corp-shop.com/\r\n

Accept-Language: en-US\r\n

User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2;

Accept-Encoding: gzip, deflate\r\n

Host: stand.trustandprobaterealty.com\r\n

Connection: Keep-Alive\r\n

\r\n

[Full request URI: http://stand.trustandprobaterealty.com/?PHPSSESID=njrMNruDMhvJFIPGKuXD

[HTTP request 1/3]

2、出来登陆页面 (CVE-2013-2551) 之外,还发送了哪些其他漏洞利用

### # 答案

CVE-2012-0507

### # 分析思路

将恶意文件下载下来,放入病毒检测平台中检测,发现存在swf文件存在CVE-2014-0569漏洞,jar文件存在CVE-2012-0507漏洞

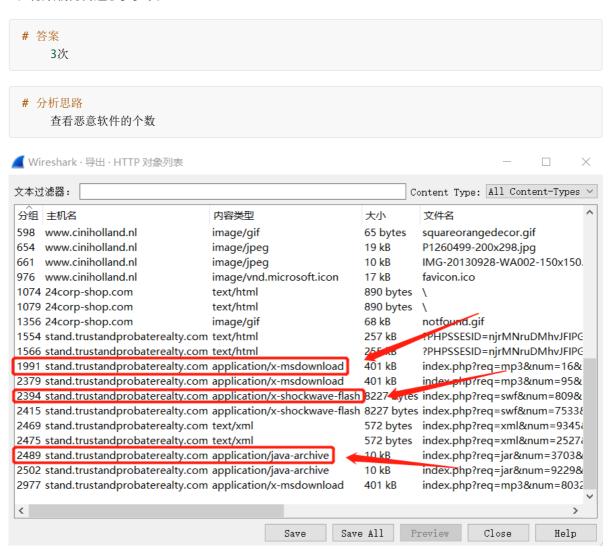
### | 多引擎检测

最近检测时间: 2018-08-09 20:21:30 检出率: 10/25 引擎 引擎 微软 (MSE) Trojan:Win32/Ceevee **ESET** SWF/Exploit.ExKit.G 卡巴斯基 (Kaspersky) Exploit.SWF.Papaka.a 小红伞 (Avira) EXP/SWF.Agent.sff 大蜘蛛 (Dr.Web) Exploit.CVE-2014-0569.1 SWF:CVE-2014-0569-A [Expl] Avast SWF:CVE-2014-0569-A [Expl] **GDATA** Script.SWF.C96 NANO Exploit.Swf.CVE20140569.dxkqyf 腾讯 (Tencent) Win32.Exploit.Swf.Ahyp IKARUS ✓ 无检出 K7 ✓ 无检出

查看全部 ♡



3、有效载荷传递了多少次



4、将pcap提交给Virus Total并找到触发了哪些snort警报, Suricate警报中显示的EK名称是什么

### # 答案

- ET INFO JAVA Java Archive Download By Vulnerable Client [2014473]
- ET CURRENT\_EVENTS Cool/BHEK/Goon Applet with Alpha-Numeric Encoded HTML entity [2017064]
  - ET CURRENT\_EVENTS GoonEK encrypted binary (3) [2018297]
  - ET CURRENT\_EVENTS Goon/Infinity URI Struct EK Landing May 05 2014 [2018441]
  - ET CURRENT\_EVENTS RIG EK Landing URI Struct [2019072]
  - ET CURRENT\_EVENTS RIG EK Landing Page Sept 17 2014 [2019193]
  - ET CURRENT\_EVENTS RIG EK Landing March 20 2015 M2 [2020726]
- ET CURRENT\_EVENTS Possible IE MSMXL Detection of Local SYS (Likely Malicious) [2021430]

### # 分析过程

直接将该pcap拖到Virustotal网站,查看DETAILS模块

### Suricata Alerts

- + Potentially Bad Traffic
- + Attempted Information Leak
- + Not Suspicious Traffic
- A Network Trojan was Detected
  - ET INFO JAVA Java Archive Download By Vulnerable Client [2014473]
  - ET CURRENT\_EVENTS Cool/BHEK/Goon Applet with Alpha-Numeric Encoded HTML entity [2017064]
  - ET CURRENT\_EVENTS GoonEK encrypted binary (3) [2018297]
  - ET CURRENT\_EVENTS Goon/Infinity URI Struct EK Landing May 05 2014 [2018441]
  - ET CURRENT\_EVENTS RIG EK Landing URI Struct [2019072]
  - ET CURRENT\_EVENTS RIG EK Landing Page Sept 17 2014 [2019193]
  - ET CURRENT\_EVENTS RIG EK Landing March 20 2015 M2 [2020726]
  - ET CURRENT\_EVENTS Possible IE MSMXL Detection of Local SYS (Likely Malicious) [2021430]
- + Potential Corporate Privacy Violation
- + Attempted Administrator Privilege Gain
- + Misc activity
- + Detection of a Non-Standard Protocol or Event