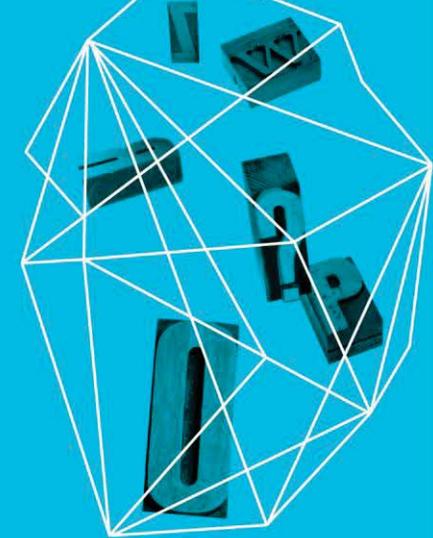


New Ways of
Mitigating
Botnets

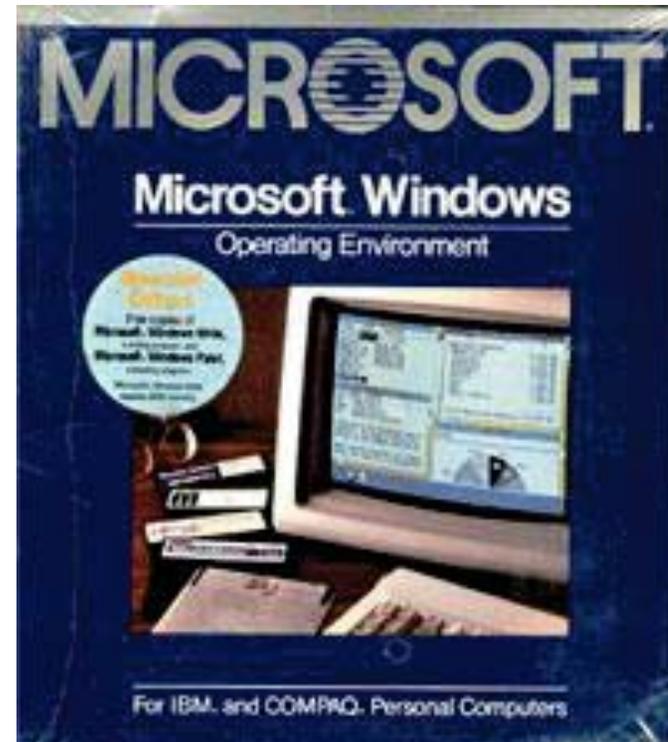
Mikko Hypponen
CRO, F-Secure
@mikko

Security in
knowledge



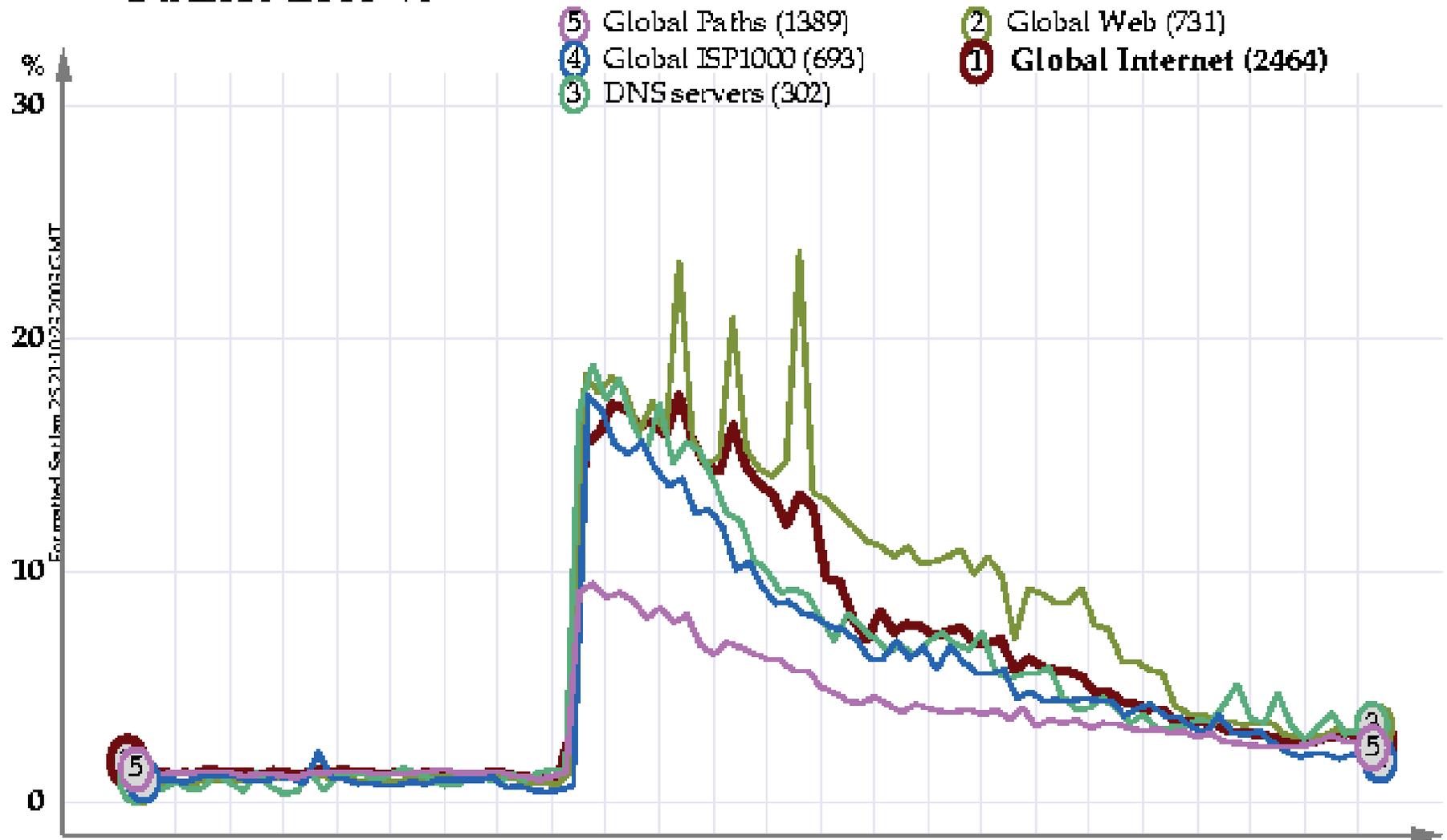
Session ID: BR-R33

Session Classification: Rated R For Adults Only



WinHex - [dump]																	
File Edit Search Position Window Extra Options File Manager Help Tab																	
Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
00000000	04	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000010	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000020	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000030	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000040	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000050	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
00000060	01	DC	C9	B0	42	EB	0E	01	01	01	01	01	01	01	70	AE	.ÜÉ*Bë.....p@
00000070	42	01	70	AE	42	90	90	90	90	90	90	90	68	DC	C9		B.p@B hÜÉ
00000080	B0	42	B8	01	01	01	01	31	C9	B1	18	50	E2	FD	35	01	*B,....1É±.Páy5.
00000090	01	01	05	50	89	E5	51	68	2E	64	6C	6C	68	65	6C	33	...P âQh.dllhel3
000000A0	32	68	6B	65	72	6E	51	68	6F	75	6E	74	68	69	63	6B	2hkernQhounthick
000000B0	43	68	47	65	74	54	66	B9	6C	6C	51	68	33	32	2E	64	ChGetTf^llQh32.d
000000C0	68	77	73	32	5F	66	B9	65	74	51	68	73	6F	63	6B	66	hws2_f^etQhsockf
000000D0	B9	74	6F	51	68	73	65	6E	64	BE	18	10	AE	42	8D	45	^toQhsend¼..@B E
000000E0	D4	50	FF	16	50	8D	45	E0	50	8D	45	F0	50	FF	16	50	ÔPÿ.P EàP EÛPÿ.P
000000F0	BE	10	10	AE	42	8B	1E	8B	03	3D	55	8B	EC	51	74	05	¼..@B . =U iQt.
00000100	BE	1C	10	AE	42	FF	16	FF	D0	31	C9	51	51	50	81	F1	¼..@Bÿ.ÿÐ1ÉQQP ñ
00000110	03	01	04	9B	81	F1	01	01	01	01	51	8D	45	CC	50	8B	... ñ....Q E P
00000120	45	C0	50	FF	16	6A	11	6A	02	6A	02	FF	D0	50	8D	45	EÀPÿ.j.j.j.ÿÐP E
00000130	C4	50	62	6C	61	68	20	68	6F	70	73	DB	81	F3	3C	61	ÀPblah hopsÛ ó<a
00000140	D9	FF	8B	45	B4	8D	6E	6F	6E	76	69	72	61	6C	01	C2	Ûÿ E^ nonviral.Á
00000150	C1	E2	08	29	C2	8D	04	90	01	D8	89	45	B4	6A	10	8D	Á.Á . .Ø E^j.
00000160	45	B0	50	31	C9	51	66	81	F1	78	01	51	8D	45	03	50	E^P1ÉQf ñx.Q E.P
00000170	8B	45	AC	50	FF	D6	EB	CA									E~PÿÖeÉ

Packet Loss %



Timezone ()

(c) Copyright 2003 Matrix NetSystems, Inc. www.matrixnetsystems.com

GMT	Jan 24	Jan	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00
EST	Jan 24	7 PM	9 PM	11 PM	Jan 25	3 AM	5 AM	7 AM	9 AM	11 AM	1 PM	3 PM

	Transportation	Power	Infrastructure	Banks
Slammer	Air traffic control problems in USA	Infected a nuclear power plant in Ohio	911 phone services down in Seattle	Bank of America's ATM network down
Blaster	Air Canada flights grounded, CSX trains stopped	NY ISO power operator's network infected	Numerous RPC-based SCADA networks down	Several Windows-based ATM networks infected
Sasser	Railcorp trains stopped in Australia, Delta flight problems, delays with British Airways flights	Hong Kong government's department of energy networks infected	Infected: Two hospitals in Sweden, EU commission, Heathrow airport, Coastguard UK	Several banks shutting down offices because of internal infections

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AIR CANADA CHECK-IN AND RESERVATIONS SYSTEMS RETURN TO NORMAL OPERATIONS

MONTREAL, August 20, 2003 - Air Canada advises customers that its airport check-in and call centre reservations have returned to normal operations after computer systems were cleared of a worldwide virus impacting many companies including Air Canada.

Customers are requested to arrive at the airport no earlier than regular check-in times in order to avoid contributing to longer queues and wait times :

- 30 minutes for Rapidair flights between Toronto, Montréal and Ottawa, and between Vancouver, Calgary and Edmonton;
- One hour for other domestic Canada flights;
- One and a half hours for transborder U.S. flights;
- Two hours for international flights.

We regret any inconvenience caused to customers and thank you for your understanding.

Air Canada will provide further updates if the situation changes.

AIR CANADA ADVISES CUSTOMERS OF OPERATIONAL IMPACT DUE TO WORLDWIDE COMPUTER VIRUS

**SO HOW COME
WE'RE STILL NOT SAFE?**



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CC image by anonymous9000



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Media Suffix

Deliver What the Mind Can Dream

HOME

Philosophy

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WELCOME TO MEDIASUFFIX...

The internet is widely becoming the hottest advertising and marketing medium in the world.

MediaSuffix focuses extremely in the internet segment of advertising. **MediaSuffix** is ready to show your company how to capitalize on this unbelievable growing market. Don't be left behind.

MediaSuffix is a full one stop service eMedia Solutions. We offer clients an unparalleled range of creative answers to the vary needs of our clients.

We specialize in a broad range of eMedia and integrated marketing services that are customized to build your brand and increase your ecommerce sales.

From media buying and creative to comprehensive ROI tracking, we are professionals experts in



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Viewing 1 - 25 of 80 security clearance jobs

exploit offensive

Date ▼	Job Title	Company Name
02/13/12	Cyber System Engineer 2 - HBSS	NORTHROP GRUMMAN
02/13/12	Cyber Systems Engineer 2 - HBSS	NORTHROP GRUMMAN
02/13/12	Cyber Systems Engineer 3 - HBSS	NORTHROP GRUMMAN
02/13/12	Cyber Systems Engineer 3 - HBSS	NORTHROP GRUMMAN
02/13/12	Cyber Systems Engineer 3 CES	NORTHROP GRUMMAN
02/13/12	Cyber Incident Analyst 3 (LIOT CJ)	NORTHROP GRUMMAN
02/13/12	Vulnerability Analyst 3 (LIOT CJ)	NORTHROP GRUMMAN
02/13/12	Information Systems Security Officer...	NORTHROP GRUMMAN
02/13/12	Security Systems Analyst	NORTHROP GRUMMAN
02/13/12	Cyber Counterintelligence	Raytheon
02/13/12	Sr Cyber Incident Responder (LIOT CJ)	NORTHROP GRUMMAN

Windows Attack/Exploit Developer

Location: **Ft. Meade**

Job Code: **CIG12-22**

of openings: **2**

Description

ABOUT THE COMPANY:

TeleCommunication Systems, Inc. (TCS) is a leading provider of mission-critical

TCS produces wireless data communications technology solutions that require
communication systems and engineered satellite-based services. Location-based

General Dynamics Information Technology - Ft Meade, Maryland

Wednesday, November 28, 2012

Information Security Analyst (network exploitation) (TS/SCI Polygraph required) in Ft Meade, Maryland

1 At least five (3) years experience in two (2) or more of the following:

- a. Computer Network Exploitation, Computer Network Attack
- b. Vulnerability Assessment,
- c. Penetration Testing,
- d. Incident Response,
- e. Network and/or host forensics
- f. Cryptanalytic work in military or intelligence community organization,
- g. Cryptology work in military or intelligence community organization.

i. Exploit development of personal computer device/mobile device

2 At least three (2) years of experience in three (3) or more of the following:

a. Analysis of host data at rest, including:

- i. Microsoft Windows operating systems, system internals, file attributes
- ii. Executable file analysis (particularly PE files including dynamic linked libraries)
- iii. File Hashing and Fuzzv File Hashing (e.g., ssdeep, fciv, and md5deep)

b.
c.
d.
e.

(e.g., Android, Blackberry, iPhone, and iPad.)

- f. Industry standard system/network tools (e.g., netcat, netstat, traceroute, rpcinfo, nbtscan, snmpwalk, Sysinternals suite).
- g. Exploit development of Microsoft Windows operating systems
- h. Exploit development of Linux operating systems
- i. Exploit development of personal computer device/mobile device operating systems (e.g., Android, Blackberry, iPhone, and iPad.)
- j. Software Reverse Engineering to include use of code disassemblers (e.g., IDA Pro) and debugging unknown code (e.g. Ollydbg)
- k. Analysis of code in memory, including analysis of RAM snapshots, Windows crash dump files, and/or Linux kernel dumps
- l. SID(S2)/NTOC analysis and production working cyber adversary intrusion set/targets, foreign network intelligence analysis or the identification and extraction of digitally transported information

(Active TS/SCI Polygraph required)

Exploitation Developer

Crystal Clear Technologies, Inc

Posted on: 2/6/13

 [View company profile](#)

[APPLY FOR JOB](#)

Minimum Security Clearance

Top Secret/SCI Clearance - \$90,000 plus
based on years of experience

Location

Randolph A F B, Texas 78150 ([map](#))

- Workplace: On-Site/Office
- Travel: No Traveling

Crystal Clear Technologies is looking for an Exploitation Developer to work on a highly classified government cyber program in San Antonio, TX. This program involves the design and development of network exploitation and attack tools.

The candidate needs to have expert level knowledge and experience in x86 Assembly Language, Kernel debugging and reverse engineering. Candidate will run current code and if issues are found, examine the code in depth to fix or alter. Will be looking for unknowns in the code. Primarily apps software on Linux boxes. Need to have mature engineering process knowledge and skills in relation to CNA (Computer Network Attack) and CNE (Computer Network Exploitation).

TS/SCI Clearance required, no exceptions

Cyber Software Engineer 2

NORTHROP GRUMMAN

Posted on: 5/14/12

 [View company profile](#)

NORTHROP GRUMMAN



APPLY FOR JOB

Minimum Security Clearance

Secret Clearance - Secret

Location

Millersville, Maryland 21108 ([map](#))

- Workplace: Not Specified
- Travel: Not Specified

Northrop Grumman Information Systems sector is seeking a Cyber Software Engineer 2 to join our team of qualified, diverse individuals. This position will be located in Millersville, MD, Colorado Springs, CO, or Sacramento, CA. This exciting and fast paced Research and Development project will plan, execute, and assess an Offensive Cyberspace Operation (OCO) mission. This includes the integration of capabilities such as command linkages, data flows, situational awareness (SA), and command and control (C2) tools..

Roles and Responsibilities:

- * Supports the integration of applications for full spectrum Cyber Operations and simulations
- * Extends existing simulation tools to include cyberspace components
- * Adapts components to a common data integration framework
- * Designs, develops, documents, tests and debugs applications software and systems that contain logical and mathematical solutions, GUI components, interface adaptations, or other glue code

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F-Secure 





Banking Trojans
Ransom Trojans
Credit Card keyloggers

Bitcoin mining
DDoS botnets
Clickfraud



Carberp Shylock

Clampi SpyEye

Cridex SpitMo

Gataka Torpig

Gozi URLZone

Oddjob Zeus

Ramnit ZitMo

1	4037770002797375	07	2011	779	Donna ; Christensen ; 1224 N 900
2	4477791244970870	04	2011	790	Nancy ; Johnson ; 241 Laurel ; La
5	4888940121718221	07	2011	110	Satyam Khanna 1927 West Harrison St
7	4037840021127939	07	2011	894	paul kimani muigai 2020 sw broadwa
9	4039954003454175	02	2013	128	Doug ; Toburen ; 1125 N. Juniper I
8	4039959477174515	02	2013	125	Brandon D ; Dickey ; 5110 Bob-O-La
7	4870930107935080	10	2011	774	Nyaradzo ;Chademunhu ; 25705 cross
5	4878320074774512	03	2014	922	Dyese Hunt ; 1552 El Dorado Street
0	4427271510931707	04	2011	585	Farid ; jamshidian ; 7573 E. Nortl
7	5291157334242224	05	2015	934	Lesta ; Delaughter ; 1507 Conrad
3	4303270014720591	09	2014	725	Lagleesa ; Harris ; 1109 Apt.-A Qu
4	4257270000917918	12	2014	183	jea s jo ; 275 Bryn Mawr Ave. E70
7	5108430790019749	07	2014	775	jeanell ; burke ; 139 alison dr ;
2	5102754887293703	10	2014	472	Lynn ; Rosa ; 530 12th Ave N ; Sain
2	4303270013801051	08	2014	753	Mark ; albini ; 2 sanford ; Wolcott
8	5300880070310001	04	2011	378	Johnathan ; Pevehouse ; 855 ackern
9	4039959177849993	08	2011	104	Schnell ; Collins ; 2411 BROOKDAL
8	4447972177471032	03	2015	417	Jackie ; Presley ; 3558 E 107 ST
2	4828571377879031	01	2015	902	Vernon ; Harris ; 40 Hunt Club blv
4	4737901117593429	05	2011	489	William ; frazier ; 392 estie gri
3	5291071570942977	11	2014	472	Gerald ; Spears ; 77 Harcourt Ave
1	4509520024074739	07	2015	789	Janusz ; mlt ; 14250 w wigwam blvd
4	4303279025818235	05	2015	184	Tim ; Orwig ; RR1 Box 132 ; Fairme
0	4227093033747050	08	2014	050	carol ; hernandez ; 5017 57st ; lu
2	5108430790019749	07	2014	775	jeanell ; burke ; 139 alison dr ;
0	4737901093032094	10	2014	042	Angelina ; Driver ; P.O. Box 243
8	5151580083747784	09	2014	988	Nancy ; Garcia ; 15 armory st ; Sy
9	4807178990070900	07	2014	044	Lavonda lewis ; 232 Sycamore Avenue
9	4337183017309394	08	2011	513	Jose Vallejos ; 4102 Colonial Road
1	4802137097059872	02	2011	317	Donna ; Cathcart ; 43 Douglas Dr.
3	5111750201482434	03	2014	072	denise ; gardner ; 18435 majestic



YOUR COMPUTER HAS BEEN BLOCKED



THE COMMON LAW IS THE WILL OF *Mankind* ISSUING FROM THE *Life* OF THE *People*

THE UNITED STATES
DEPARTMENT OF JUSTICE

Your IP-address: [Redacted]
Your Provider: [Redacted]
Location: United States, [Redacted]

The work of your computer has been suspended on the grounds of the violation of the law of the United States of America.

Possible violations are described below:

Article – 184. Pornography involving children (under 18 years)
Imprisonment for the term of up to 10-15 years
(The use or distribution of pornographic files)

Article – 171. Copyright
Imprisonment for the term of up to 2-5 years
(The use or sharing of copyrighted files)

Article – 113. The use of unlicensed software
Imprisonment for the term of up to 2 years
(The use of unlicensed software)

ALL ILLEGAL ACTIVITIES CONDUCTED THROUGH YOUR COMPUTER HAVE BEEN RECORDED IN THE POLICE DATABASE, INCLUDING PHOTOS AND VIDEOS FROM YOUR CAMERA FOR FURTHER IDENTIFICATION. YOU HAVE BEEN REGISTERED BY VIEWING PORNOGRAPHY INVOLVING MINORS.

Video-recording: ON



In connection with the decision of the Government as of October 11, 2012, all of the violations described above could be considered as criminal. If the fine has not been paid, you will become the subject of criminal prosecution. The fine is applicable only in the case of a primary violation. In the case of second violation you will appear before the Supreme Court of the USA.

Amount of the fine is **\$300**. Payment must be made within 48 hours after the computer blocking. If the fine has not been paid, you will become the subject of criminal prosecution

AN ATTEMPT TO UNLOCK THE COMPUTER BY YOURSELF WILL LEAD TO THE FULL FORMATTING OF THE OPERATING SYSTEM. ALL THE FILES, VIDEOS, PHOTOS, DOCUMENTS ON YOUR COMPUTER WILL BE DELETED.

The first violation may not entail the criminal liability if the payment of the fine in connection with the law of loyalty to the people, on 5 December 2012. In repeated violations of criminal responsibility is inevitable.

To unlock your computer and to avoid other legal consequences, you are obligated to pay a release fee of **\$300**.

How do I unlock computer using the MoneyPak?

1. Find a retail location near you.
2. Look for a MoneyPak in the prepaid section. Take it to the cashier and load it with cash. A service fee of up to \$4.95 will apply.
3. To pay fine, you should enter the digits MoneyPak resulting code in the payment form and press Pay MoneyPak.



Code:

1 2 3 4 5 6 7 8 9 0

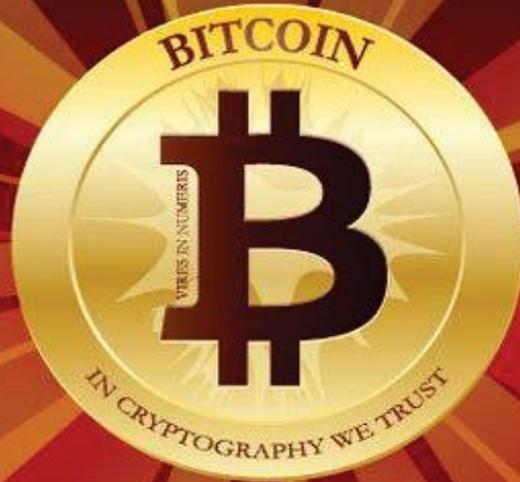
Status: Waiting for Payment **47:56:13**

SUBMIT

Where can I buy MoneyPak



Please note: This fine may only be paid within 48 hours, if you let 48 hours pass without payment, the possibility of unlocking your computer expires. In this case a criminal case against



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WWW.BITCOIN.ORG

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CLOUD COMPUTING



Dashboard

[Dashboard](#) [Pools](#) [Workers](#) [About](#)

Last updated on : Tuesday, 24th of April 2012 at 16:52:44

Recent work submissions

Worker	Pool	Result	Time
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:42 CEST

Recent failed work submissions

Worker	Pool	Time
user	BTCguild	24-04-2012 18:52:13 CEST
user	BTCguild	24-04-2012 18:52:12 CEST
user	BTCguild	24-04-2012 18:52:12 CEST
user	BTCguild	24-04-2012 18:52:08 CEST
user	BTCguild	24-04-2012 18:52:04 CEST

Worker status

Worker	Last work request	Last accepted submission	Shares*	Rejected*	Hashing speed*	Actions
user	At 24-04-2012 18:52:43 CEST from BTCguild	At 24-04-2012 18:52:43 CEST to BTCguild	1483	25 (1.69%)	10615.727 MHash/s	  
Totals			1483	25 (1.69%)	10615.727 MHash/s	

Worker Shares Distribution

DARKNESS

PREMIUM DDoS Bot

With premium admin-panel "Optima"
[From Russia with love]

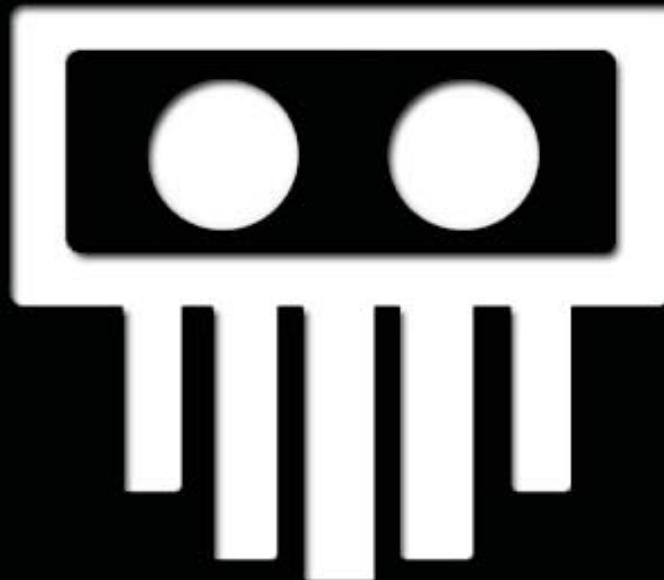
PIRAX WEB DDOOS

Have an enemy you want to take out?
Or a server you desperately need DDoSed?

Then this service is perfect for you.

Prices are negotiable, depending on server strength
and DDoS time.

Message me at Pirax@TorPM
Or add me on MSN - Pirax@hotmail.com



3673

— Click fraud





	Bots
	Phishing
	Spam
	Malware
	Worms

Ring0 bundle (Zerokit) for control million-strong botnet

Goto page 1, 2, 3, 4 Next

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Ring0 bundle (Zerokit) for control million-strong botnet

Author

Message

ring0

Ring0 bundle (Zerokit) for control million-strong botnet

QUOTE

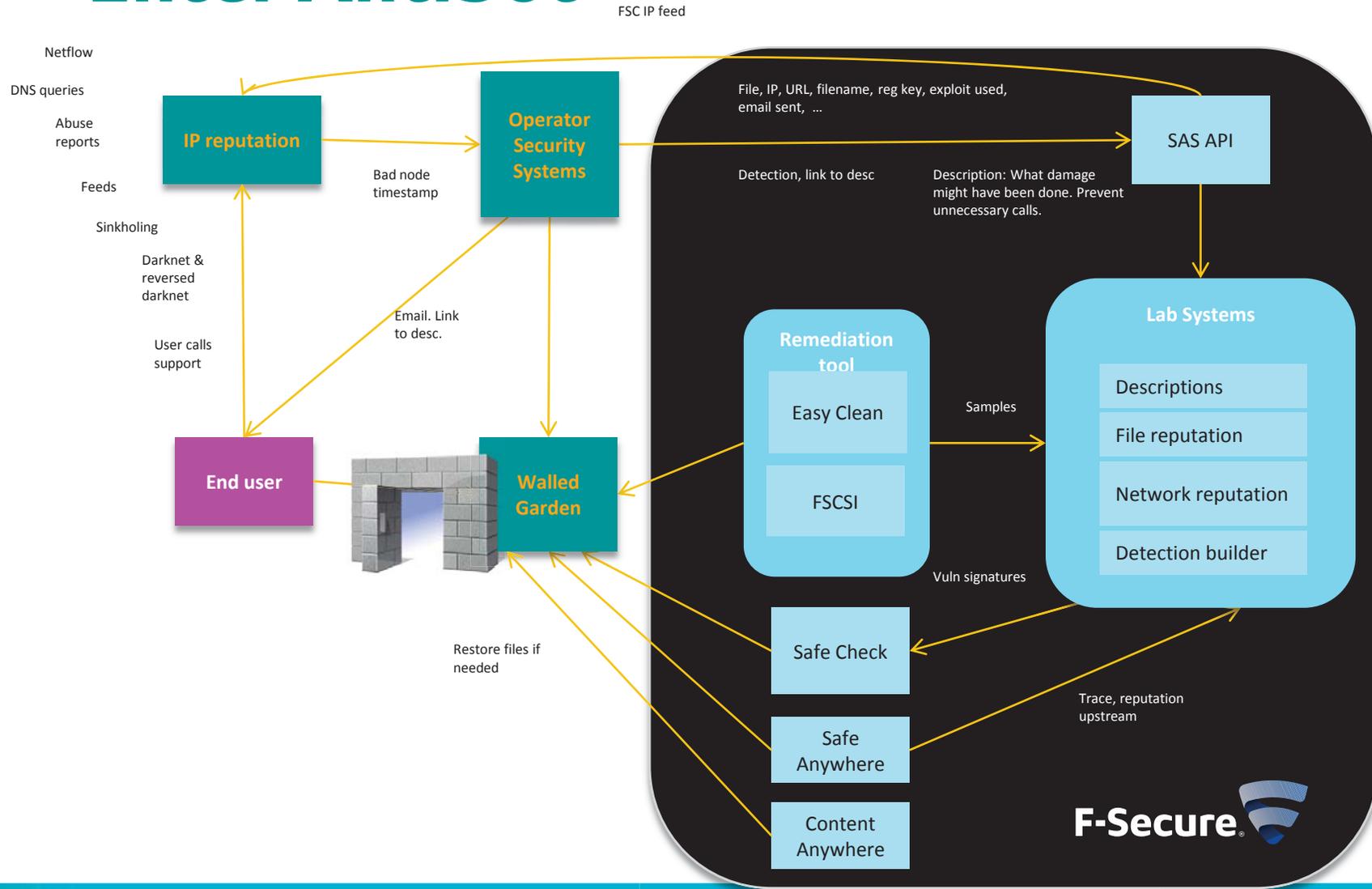
The bundle consists of:

- **Bootkit.** It is responsible for the start of the basic modules at a stage of loading of OS.
- **Driver.** It is responsible for all infrastructure and implements componental business-logic on the basis of so-called mod (functional unit). That is, the driver is not a legacy driver (monolithic), and consists of the set of mods that allows to operate the bundle with maximum of flexibility, and to protect (hard to reverse), update and expand it.
- **Dropper.** At the current moment it brake out all machines with the patches till January, 8th, 2011, except for XP x32/x64 where reloading is initiated. If the systems distinct from XP have latest updates reloading is initiated as well.
- User friendly Admin Panel.

system without need of crypt.

- Survivability of the bundle, down to a reinstallation of the system.
- All the components are stored outside of a file system and are invisible to OS.
- Intuitively clear interface of admin-panel.
- Protection against the abstraction of Admin Panel.
- Impossibility of detection of the bundle in the working system by any of known AV/rootkit scanner, owing to the use of author's technologies of concealment. The unique opportunity of detection exists only at loading with livecd or scanning of a disk from the other computer. Thus the opportunity of detection is also extremely improbable, as own algorithms of a mutation are used.

Enter Antibot



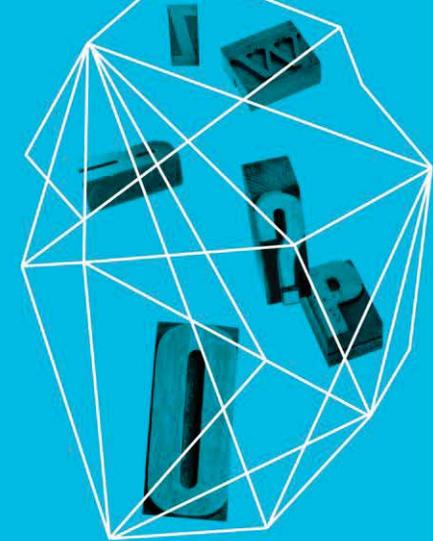
DEMO TIME!



New Ways of
Mitigating
Botnets

Mikko Hypponen
CRO, F-Secure
@mikko

Security in
knowledge



Session ID: BR-R33

Session Classification: Rated R For Adults Only