

Evil on the Internet

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CAMBRIDGE**
Computer Laboratory

Aberystwyth
22nd November 2010



National Physical Laboratory

Outline

NB: these slides were prepared in case the live demonstrations of the wicked websites were unavailable on the day. People are trying to get them removed!

- Phishing websites
- Mule recruitment
- Fake escrow websites
- Fake pharmacy websites
- Fake shopping
- Fake banks
- Post-modern ponzi schemes

The criminal ecosystem

- Botnets key part of criminal infrastructure
 - send email spam, host fast-flux website, used for DDoS attacks
- Botnets are believed to be mainly built by “drive-by” malware
 - eg: email drives traffic to sites where “new” flash player needed
 - also by “worms”, email attachments etc
- “Underground economy” handles sales of goods
 - runs open-outcry on easy-to-find network of IRC servers
 - allows criminals to specialise (cf Adam Smith’s pin factory)
 - trust built by consistent use of “handle” (“rippers” not tolerated)
 - samples available for first time purchasers (a big PR issue)
 - cyberspace means that traditional police techniques limited
- Phishing kits deskill deployment of phishing websites
 - “free” kits have complex backdoors to leak stolen data to builder

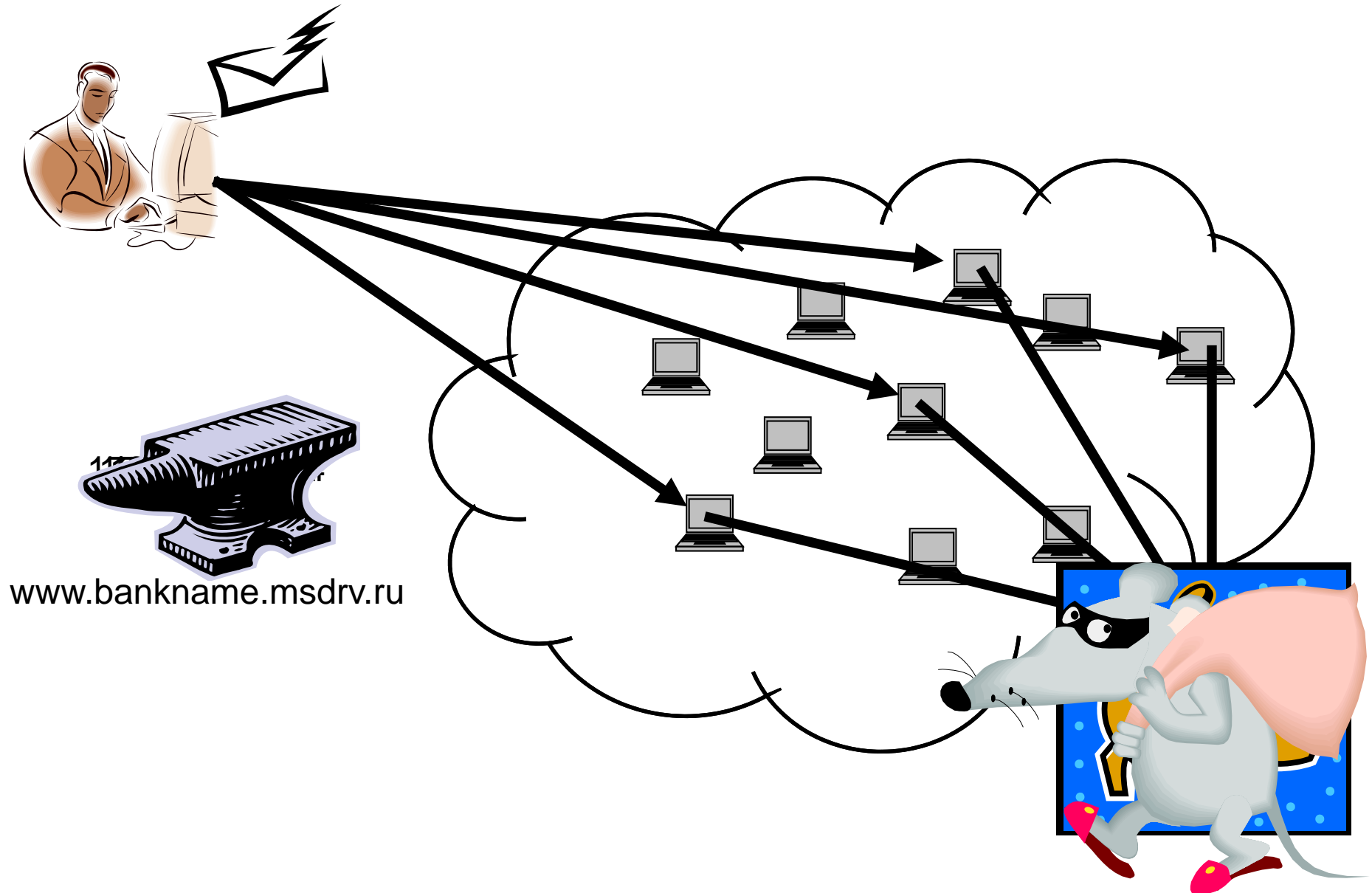
What is phishing?

- Capture of user credentials through impersonation
 - in 1996 this was pretending to be an AOL sysop
 - since 2003 has been the creation of fake bank websites
- “Bank” is merely generic – attackers impersonate auction sites, payment processors, online games, Habbo, IRS etc, etc
 - common theme is that credentials are worth money
- Losses often quoted as over \$2 billion/year
 - loss figures are scaled up from phone interviews
 - Gartner figures included lottery fraud scams
 - UK banks lost £53million in 2008 (£20m-30m in previous years)
- Phishing rare in Germany – attacks are mainly keyloggers
- Some markets use 2-factor (TANs, CAP, SecureID etc)
 - just means that attacks must be done in real-time

Types of phishing website (Jan 2008)

- Misleading domain name (unusual at present)
 - `http://www.banckname.com/`
 - `http://www.bankname.xtrasecuresite.com/`
- Insecure end user or machine (76% of sites)
 - `http://www.example.com/~user/www.bankname.com/`
 - `http://www.example.com/bankname/login/`
- Free web hosting (17% of sites)
 - `http://www.bank.com.freespacesitename.com/`
- Specialist attackers
 - distinctive patterns, often rely on wildcard DNS
 - figures only meaningful after canonicalisation
 - rock-phish 4%, fast-flux 1.4%, "ark" 1.4%

Fast-flux phishing sites



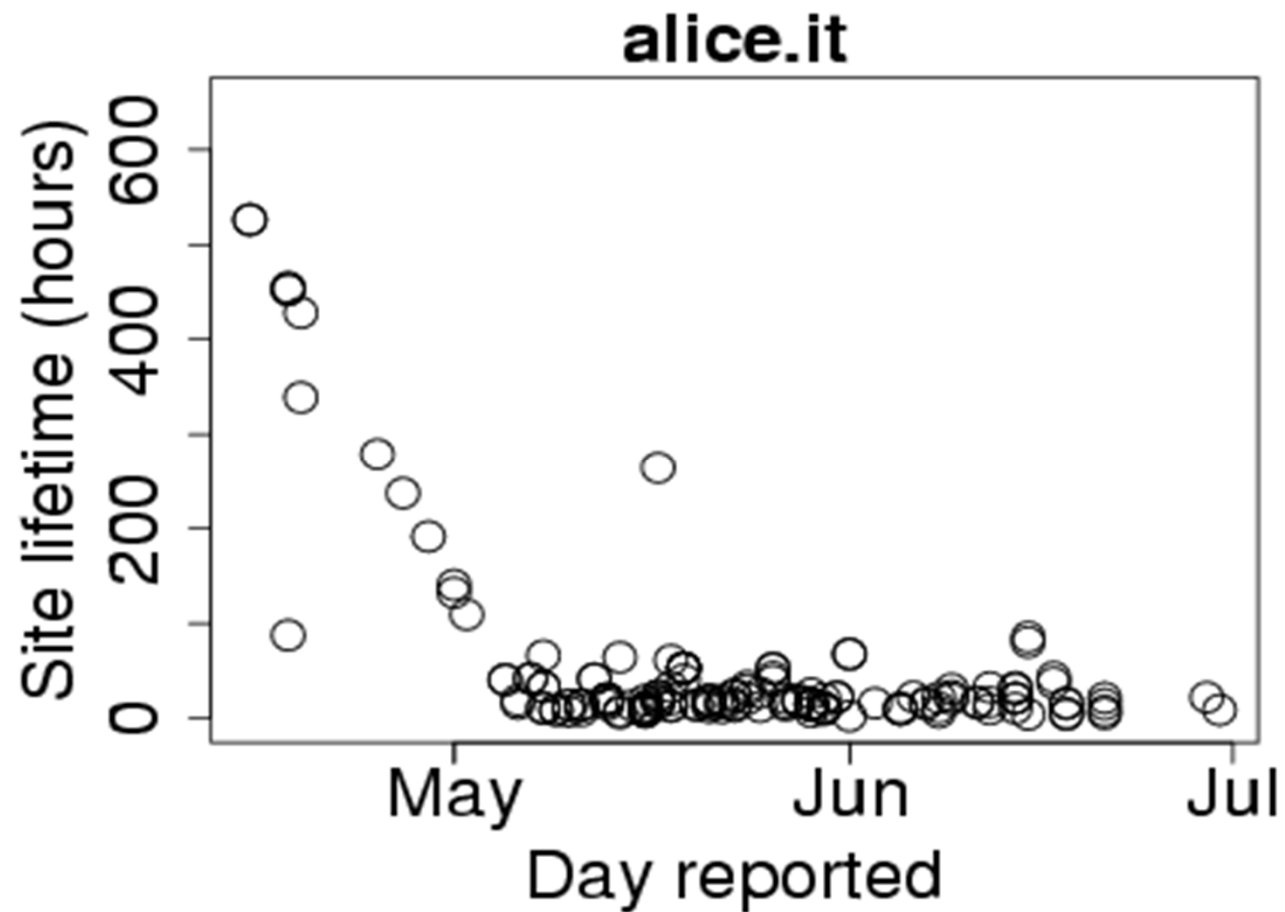
Take-down time measurements (Jan 2008)

	Total	Mean (hours)	Median (hours)
Free webhosting	395	48	0
when brand owner aware	240	4.3	0
when brand owner unaware	155	115	29
Compromised machines	193	49	0
when brand owner aware	105	3.5	0
when brand owner unaware	155	104	10
Rock-phish domains	821	70	33
Fast-flux domains	314	96	25

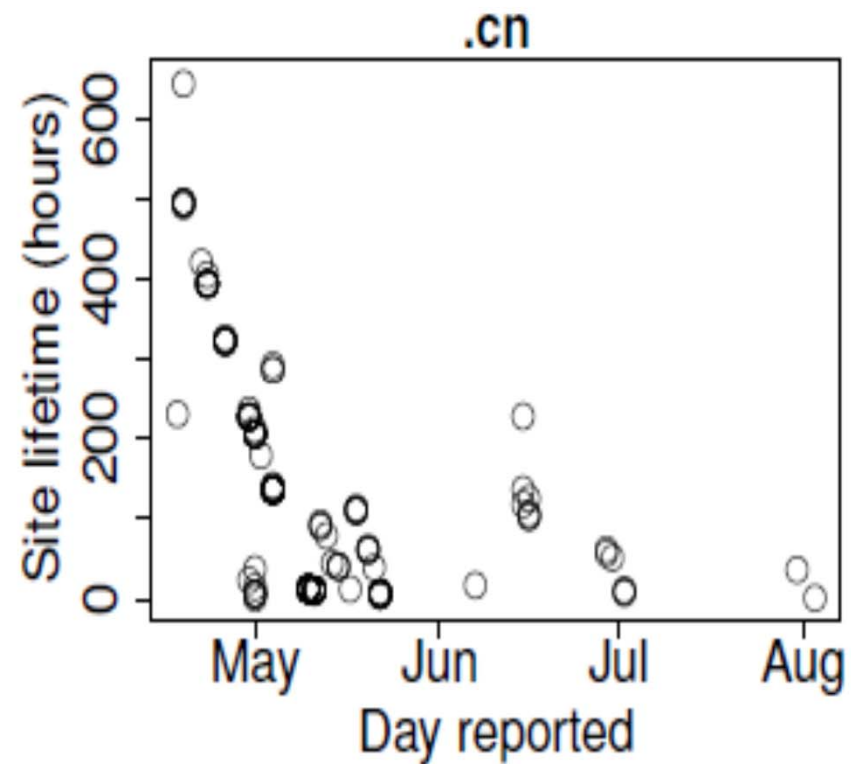
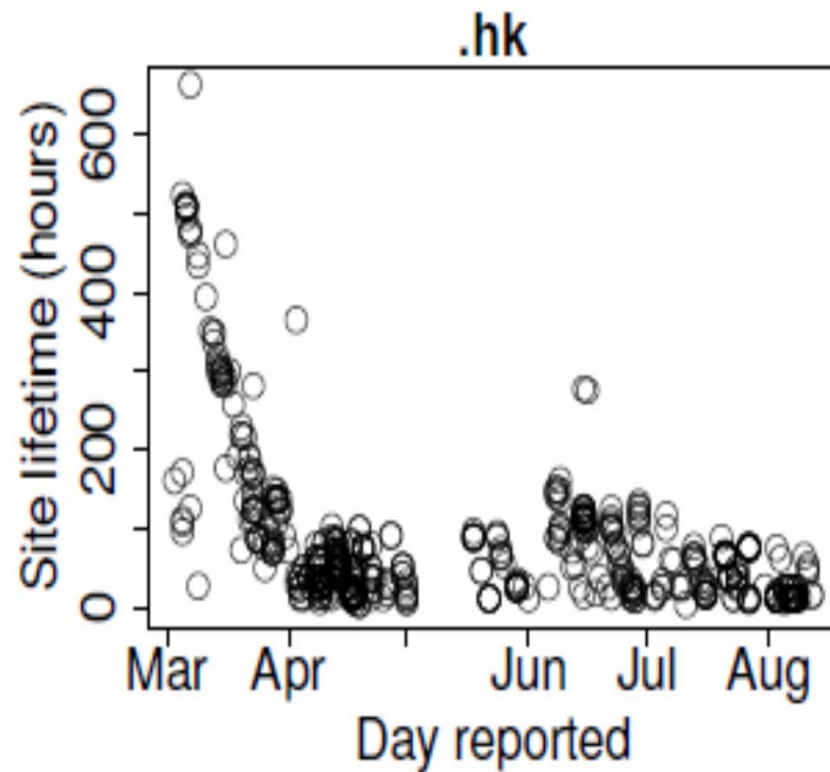
Why are brand owners “unaware”

- Most brand-owners outsource take-down to specialist “brand protection” companies
- These companies compete not only on removal times, but also on how many websites they know of (“the quality of their feed”)
- They get data from “industry” lists (APWG etc) and also from their own spam-traps (old domains, honeypots etc)
- So if Bank X hires company A, but only company B knows about the phishing site then it isn’t removed
- However, as neutral academics we get data from both A and B, we know of the site and measure its (rather slow) removal
- We recommend industry-wide data sharing; the companies buying services from the competition as well!

The gaining of "clue"



Registrars can also have a “clue” issue



How site works?

1. Post and track your vacancies, RFPs and projects
2. Find affordable freelancers or full-time staff
3. Get work done below budget and make profit

About the Company

Welcome to the world of Outsourcing. Never has a phenomenon been so all encompassing and empowering like outsourcing. Transcending beyond an industry's vertical segments, outsourcing has become the "by default" strategy for all profit conscious organizations that struggle to retain their winning streak and high profitability. Today's scenario in the business world is more competitive than what it was in the past. There is a growing realization that wisdom lies in consolidating the core competency functions and outsourcing the supplement. We are an online services marketplace in USA and Australia. Our goal is to empower businesses with the absolute freedom to choose where to outsource their business needs to maximize their competitive advantage. We believe that "money saved due to outsourcing can be effectively and successfully utilized to focus more on strategic and core businesses functions".

Our service

Authorization

Enter to partners area.

Login: *

Password: *

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Latest projects

Payment Processing Assistant

AVAILABLE

Location: USA, Canada (This vacancy is valid for US and Canadian residents ONLY)

Status: Open

Employee Type: Part-Time Employee

Number of employees required: 3

Candidate Requirements:

- not less than 18 years old
- internet access
- availability by phone (1-2 hours a day)
- a bank account to process payments
- good credit history with your bank (new bank account is optional)
- no criminal offense or convictions
- experience in the field of finance is preferred

DUTIES

We are searching for employees to process payments coming from our clients. Millennium Group Inc. will provide an agent with detailed instructions as in regard to payment processing operations, including sender full name and amount total for each separate case. When funds enter employee's bank account, Payment Processing Agent's duty is to withdraw cash and transfer the funds via International Wire Transfer or Western Union/Money Gram money transfer systems. The main advantage of our services is the shortest possible time within which the sender can receive money for the services/goods sold. If this operation is delayed, our clients are entitled to cancel their contract with us and we suffer financial loss. Therefore, successful applicant must be very responsible and careful!

Authorization

Enter to partners area.

Login: *

Password: *

[Registration](#) [Forgot password?](#)

Latest projects

- [UI and App Design for Software Application](#)
04 February 2010
- [Front End Web Designer for Ongoing Work](#)
although will consider)
04 February 2010
- [MODx Revolution Shopping Cart - Freelance](#)
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- [Experienced Wordpress/PHP Developer](#)
04 February 2010

a new employee will be trained and receive online support while working and being paid. A personal supervisor can recommend termination during/after the trial period depending on agent's activity. New employee should be responsible and strictly follow supervisor's recommendations to pass the Probationary Period successfully and be employed by us on a regular basis.

SALARY

During the probationary period we offer USD 2,300 monthly salary plus 8% commission for each payment processing operation. For example, an average \$5,000 payment will entail \$400 commission (but WU/MG fees are paid from this money, please see below for more details). Furthermore, we offer \$500 bonus for each transaction completed by 11 a.m. (local time). With the current number of clients, on average, your overall income will amount to up to USD 4,000 per month. A successful agent may ask for additional tasks and earn more. After the probationary period, base salary goes up to USD 3,000 per month plus 8% commission. Base salary (\$2,300) will be transferred at the end of the month to employee's bank account via Direct Deposit. Commission (8%) is to be deducted from the processed money at the time of the transfer.

IMPORTANT DETAILS

- Payment Processing Agents is supposed to process received assets during one business day, i.e. from the moment of money entering their bank account to the moment of re-send to our client in accordance with contract terms. If money enters employee's account on a day-off or holiday, all payment processing procedures have to be completed during the next working day.
- Payment Processing Agents receives invoices for each transaction every 14 days. This document is a confirmation of transaction validity and in case of any (if any at all) unforeseen circumstances it will evidence your personal non-participation. All invoices will contain detailed information on money sender and will be both sealed and certified with President's signature.
- After the Probationary Period completion, invoices will be sent every business day.
- Since business transfers can be processed with delays, Payment Processing Agents should specify each transfer as a private transaction. This provision is also applicable in case of a third party interest in the transfer.

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Featured Analytics

[Eastern Europe Makes Its Presence Known on the Global IT Scene](#)

When it comes to exporting IT services India remains the powerhouse with \$17.7 billion in exports during 2006 (the closet contender was China with \$3.6 billion in exports). But other regions in the world are catching up...

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Partners


Mule recruitment

- Proportion of spam devoted to mule recruitment shows that this is a significant bottleneck
- Trend towards avoiding websites, but relying on email drop boxes instead
- But before that were often using web sites
- Aegis, Lux Capital, Sydney Car Centre, etc, etc
 - mixture of real firms and invented ones
 - some “fast-flux” hosting involved
- Only the vigilantes are taking these down
 - impersonated are clueless and/or unmotivated
- Long-lived sites are even indexed by Google

Mule recruitment site takedown is slow!

"Company"	Real	Period	Sites	Mean	Median
Lux Capital	✓	Mar-Apr 07	11	721	1050
Aegis Capital	✓	Apr-May 07	11	292	311
Sydney Car Centre	✗	Jun-Aug 07	14	171	170
Harvey Investment	✓	Sep-Oct 07	5	239	171
Cronos Investment	✗	Oct-Nov 07	12	214	200
Waller Truck	✓	Nov-Feb 08	14	237	3





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Partner sites...

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Shipping line engaged in Worldwide Container Transport and Cruises



GTS is a privately-owned company, founded in 1996, one of the leading global shipping lines of the world

When Buyers and Sellers don't know each other, they need a third-party they can trust to turn to. That's where GTS Global comes in. As the most trusted escrow service on the Internet, GTS Global makes sure transactions are secure and worry-free. GTS Global is also the single point of contact to track and manage all aspects of the transaction, even third-party suppliers.

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www.international-auto-transport.eu/home.php - 9 hours ago

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www.uk-trans.co.uk/index.php-show=solutions&act=business.htm - [Cached](#)

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[Air Expedition®](#)

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As the most trusted escrow service on the Internet, Ultra Fast Shipping makes sure transactions are secure and worry-free. Ultra Fast Shipping is also the ...
auto-total-eu.com/en/index.php-show=solutions&act=business.htm - [Cached](#)

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Quick & Secure. Find out more...
www.moneybookers.com/escrow

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and seller with a simple, 5-step trust process"

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We protect both the buyer and seller with a simple, 5-step trust process. Protect yourself with a third party company. Internet fraud costs victims millions ...

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Internet fraud costs victims millions of dollars each year.**We protect both the buyer and seller with a simple, 5-step trust process.** ...

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Five easy steps to a PPPUrgent. Step 1: Buyer and Seller Agree to Terms Both parties agree to terms of the transaction, which includes a description of the ...

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Privacy Policy. Our Third Party Service takes the privacy of all its users and customers very seriously, and takes great care with user and customer ...

www.pppurgent.com/thrd_privacy_policy.php

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We protect both the buyer and seller with a simple, 5-step trust process. Protect yourself with a third party company. First transaction made is free of ...

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[Escrow.com: Vehicle Services](#)

We protect both the buyer and seller with a simple, 5-step trust process. The Buyer can



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For Buyers

Receive merchandise before the Seller is paid.

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Protect yourself from credit card and payment fraud.



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- All Escrow.com web pages are secure and begin with https://
- **Never download or open** a file or picture from someone you don't know
- Escrow.com does **NOT send emails** with payment or shipping instructions.

Fake escrow sites

- Dozen+ sets of sites used for auction scams
- Typically half a dozen victims a week, but profit is the price of a second-hand car or motorcycle!
- Tracked by “AA419” and taken down by amateur “vigilantes”
 - monitored take-downs during Oct-Dec 2007
 - 696 sites, 222 hours, 24.5 median
- Have tried (2007) searching for 81 unusual phrases
 - average of 9.8 domains/phrase, 2.4 known to AA419
- Many of these phrases still work just as well today
 - Websites often claim copyright from 1996, may mean it!



Canadian Pharmacy

#1 Internet Online Drugstore

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Viagra + Cialis **\$69.99**



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Cialis Professional
Our price **\$4.17**

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- Accutane **\$0.79**
- Clomid **\$0.58**
- Prednisone **\$0.37**
- Doxycycline **\$0.21**
- Zithromax **\$0.51**
- Amoxil **\$0.40**
- Alli **\$1.33**
- Strattera **\$0.74**
- Lasix **\$0.24**
- Prozac **\$0.40**
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g" "blood pressure/cholesterol" "gums new!"

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Web [Show options...](#) Results 1 - 10 of about 56,300 for "**Anti-allergic/asthma**" "**dental whitening**" "**blood pressure/cholesterol**"

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By category, Anti-Acidity, **Anti-Allergic/Asthma**, Anti-Depressant/Anti-Anxiety ... Antibiotics, Bestsellers, **Blood Pressure/Cholesterol**, Body-Building, **Dental Whitening**, Erectile Dysfunction, Female Enhancement, General Health, **Gums New!** ...
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Archive for the **Gums New** Category Posted in Anti-Acidity, **Anti-Allergic(Asthma)**, Anti-Depressant/Anti-Anxiety, Anti-Diabetic, Anti-Fungus, Anti-Herpes, ...
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www.fun-lifestyle.com/theproducts.cfm?cat=106&master... - [Cached](#)



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VIP Price: **160 EUR** Save: **38 EUR (19%)**

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APPLE IPHONE 4 BLACK 16GB BRAND NEW FACTORY SEALED UNLOCKED (This iPhone is currently locked to Fido and Rogers. We'll unlock it for you at no ...

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3.5" TFT capacitive display, Scratch-resistant surface, Multi-touch input method, Accelerometer, Proximity, Three-axis sensor, **32 GB**, Wi-Fi 802.11 ...

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★★★★★ [5,275 reviews](#)



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" *** Please Note this is the Never Locked Version of the iPhone 4 *** *** This iPhone is NOT Jailbroken. It is factory sealed and never opened ...

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msnshop88.com



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Popularity



A few users

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REVIEWER COMMENTS



USER REVIEWS (2) ?

page 1 of 1

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 Rating: This site spams

This site was detected and reported in the spam blacklist maintained by Joe Wein

It is listed at <http://www.joewein.de/sw/spam-bl-m.htm>

Be wary of spammed sites, they are often run by criminals who are out to defraud you

Posted at 18/09/10-08:49:03 by pharma1ert, Experienced Reviewer , [View profile](#) [Reputation score: 9 / 9]

Pills, Penises and Photography

- Canadian Pharmacy &c
 - has been hosted on same fast-flux pools as some of the phishing sites. Links between the gangs remain unclear
- Sites have fake credential pages
 - requires some knowledge to see why they are fake
- Google picks up a proportion of these sites, but by no means all
 - often fairly long lifetimes (think “months”)
- Lots of variants, but key phrases in common
- Some fake shopping sites, which fool some reputation systems, though Google searches often show complaints on the first page
 - “if it’s too good to be true, it probably isn’t true”



ABOUT US

Our mission

We aspire to be one of the most admired financial services organisations in the world, recognised as an innovative, customer-focused company that delivers superb products and services, ensures excellent careers for our people and contributes positively to the communities in which we live and work. What we'll do

Our long-term strategy is to remain a financial services company. We will continue to grow in Europe, and build our business in retail and commercial banking outside Europe, with a bias towards Continental Western Europe. We will develop our services and products for wealthy customers, and we will build our global businesses, such as investment banking and credit cards.

How we'll do it

Our strategy also determines the way in which we will achieve our goals. This includes the way we're organised, our management beliefs and practices, and the way we behave towards our customers and each other. Foremost among our practices is the use of a management framework that shapes the way in which we make business decisions, and ties all of our planning and operations to the creation of economic value.

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- Loans
- Corporate Card Solutions
- Transactional Cards
- Trade Services
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[LOST OR STOLEN CARD SERVICE](#)



ABOUT US

[Annual Financial Statements - year ended 30 June 2008 \(1.23Mb\)](#)

[Abridged Annual Financial Statements Report – year ended 30 June 2008 \(286Kb\)](#)

The First Classic Micro Finance Bank (UK) Ltd Heritage

An international investment holding company, The First Classic Micro Finance Bank (UK) Ltd Group Limited is the largest service company and one of the largest industrial companies by market capitalisation on the JSE Securities Exchange United Kingdom, with a market capitalisation of 13,5 billion at June 30 2003.

The First Classic Micro Finance Bank (UK) Ltd Group Limited has been selected as a component of the Dow Jones Sustainability Indexes World for its policy on corporate citizenship and recognising the importance of economic, environmental and social criteria as long-term success factors for business.

The strategy of the Group is to be invested in companies operating in the fields of service, distribution and trading, which could encompass light manufacturing, using the capacity of its United Kingdom growth engine to develop local operations and drive international expansion.

The Group comprises three umbrella divisions: The Services Division, The Foodservice Products Division and The Commercial Products Division, with operations located in United Kingdom, the United Kingdom, Australia, New Zealand and Europe.

Despite its size, First Classic Micro Finance Bank (UK) Ltd is a highly entrepreneurial, decentralised and incentivised Group with a culture of transparency, accountability, integrity, excellence and innovation. Its 67 000 employees around the world are dedicated to simplifying their customers' lives.



LET'S TALK

Tel: (0) 44 703 47 899

Moneyline: (0) 44 753 38 497

info@fcmfuk.com

Fake banks

- These are not “phishing”
 - So no-one takes them down, apart from the vigilantes
- Pattern of repeated phrases/addresses on each new site
 - so googling finds more examples
 - sometimes old links left in (hand-edited!)
- Sometimes part of a “419” scheme
 - hard to put dictator’s \$millions in a real account!
- Or sometimes part of a lottery scam
 - your winnings are deposited in an interest bearing account...
 - ... unfortunately you have to pay for opening it!



110% AFTER 1 DAY

Welcome to Forex-Inv

Forex-Inv is an independent private investment club - founded in November 2008. We are an experienced and professional management group with huge knowledge in stock and currency trading.

This financial crisis may be the biggest since the 1930s, but it doesn't mean everybody will lose out. Broadly, those who still have cash are sitting pretty, because the price of almost everything, from property to shares, from cars to petrol, is falling fast. The key to success is: Buy Cheap-Sell High!

Every crisis throws up winners and losers. We offer you a chance to be a winner. We manage your investment and offer reasonable returns.

We never send spam and hate spammers. [Click here](#) for log out.

Reasons to join:

- Minimal risk - maximum profit
- We pay profit 7 days a week
- Support 24/7
- No withdraw minimum

Details: [Forex-Inv](#)

[Get button code](#)

Our status

NOT PAYING

Online 120 days
Listed 120 days
Started 8 Oct 2009
Added 8 Oct 2009

104-110% after 1 day
108-120% after 3 days
115-140% after 5 days
120-160% after 1 week
130-200% after 1 week

Deposit Min \$ 5
Deposit Max \$ 20,000
Referral bonus 1-8%
DDos protection Yes
SSL connection No

[Talkgold Forum](#)
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Comments

Forex-Inv is an independent private investment club - founded in November 2009.

Users rating: **+238** Total votes: 244 (+241 -3)

Last votes: 

Email:

Good!

Bad!

Vote!

Post-modern Ponzi schemes

- High Yield Investment Program (HYIP)
 - propose returns of $x\%$ per DAY
- Basically Ponzi (pyramid) schemes that pay initial investors from newly joined mugs
- Often splash out for HTTPS certificates !
- Now some are up-front about Ponzi nature
- Reputation sites document their status
- There are a LOT of them, but little studied



"exempt from the us securities act of 1933"

Search

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The European Human Rights Centre (EHRC) represents over 100 non-governmental and other not-for-profit organisations interested in the promotion of Human Rights throughout Europe and beyond.

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The purpose of the Centre is to contribute to the general advancement of the human rights research by promoting cooperation in Europe between organisation and government officials, and by collaborating with similar associations throughout the world.

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Who we are



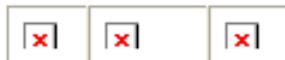
Our Mission Statement

Human Rights First believes that building respect for human rights and the rule of law will help ensure the dignity to which every individual is entitled and will stem tyranny, extremism, intolerance, and violence.

Human Rights First protects people at risk: refugees who flee persecution, victims of crimes against humanity or other mass human rights violations, victims of discrimination, those whose rights are eroded in the name of national security, and human rights advocates who are targeted for defending the rights of others. These groups are often the first victims of societal instability and breakdown; their treatment is a harbinger of wider-scale repression. Human Rights First works to prevent violations against these groups and to seek justice and accountability for violations against them.

Human Rights First is practical and effective. We advocate for change at the highest levels of national and international policymaking. We seek justice through the courts. We raise awareness and understanding through the media. We build coalitions among those with divergent views. And we mobilize people to act.

Human Rights First is a non-profit, nonpartisan international human rights organization based in Strasbourg





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Our Mission

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Tax Exp'd Associate

Job Description

The Birmingham Tax practice delivers high-quality tax consulting and compliance services for businesses in a wide range of industries including consumer and industrial products, pharm... Read More

Country: USA, **Location:** AL Birmingham

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Payroll Supervisor

Position Type: Temporary

A local Birmingham company would like to add a Payroll Supervisor to its staff. The ideal person will have strong organizational, interpersonal and communication skills. Du... Read More

Country: USA, **Location:** AL Birmingham

updated

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Fake Institution

- Sends spam hoping for links to website
- Site has new graphics and layout, but stolen content (lightly) edited for new context
- Point of site seems to be the job adverts
- Ads are by Google!
- A handful of similar sites known to exist...
 - owner appears to be “Nichifor Valentin” from Tulcea in Romania (cyberdomino.com)
- Has fooled many of the major universities of the world!



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Financial Consulting Manager (Healthcare)

Job Description:

Plante & Moran, PLLC, the 11th largest accounting and management consulting firm in the nation is proud to be recognized as "One of Fortune Magazine's Top 100 Companies to Work for in... Read More

Country: USA, Location: OH Toledo

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Apply (40)

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First Solar, a high-energy, rapidly growing developer and manufacturer of thin film Photovoltaic (PV) technology in solar modules is seeking a driven, results oriented Payroll/Accounting Specialist to... Read More

Country: USA, Location: OH Perrysburg

updated

Apply (22)

Director Financial Reporting

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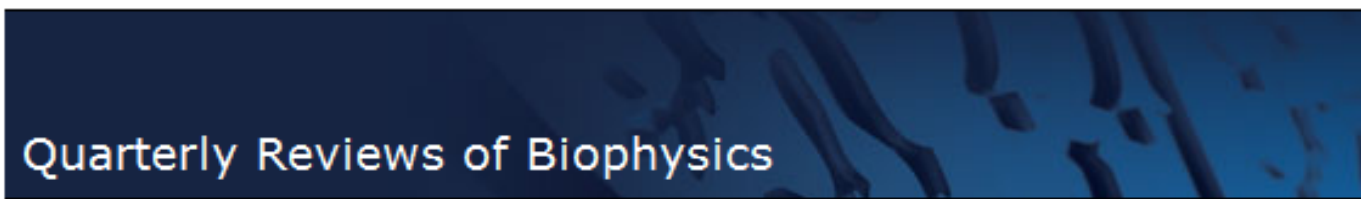
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Link exchange proposal

From: Abbie Richardson <abbie.richardson@berlin-archive.com>

Date: Sun, 5 Apr 2009 21:06:31

To:

Hi

My name is Abbie Richardson. I've just visited your website and I was wondering if you'd be interested in exchanging links with my website. I can offer you a home page link back from my Business and Payroll website which is <http://www.berlin-archive.com/> with page rank 5.

As mentioned, your link would be placed on the site home page, not on any "links" pages which may be buried in the site somewhere. I'm sure this exchange would be beneficial for both of our sites, helping towards increasing our visibility in search engines.

If you are interested, please add the following information to your website and kindly let me know when it's ready. I'll do the same for you in less than 24 hours, otherwise you can delete my link from your site.

Title: Payroll Software

URL: <http://www.kcspic.com>

Description: KCS Rightsource provides integrated HR and Payroll Software to mid sized UK businesses.

Owner: richard Access: public Tags... no tags

Link spammers

- Low volume spam sent
 - if you have a high page-rank you'll be targeted
 - googling usually finds a few examples, but not many
- Site to be linked to is generally "Made for AdSense"
 - They make money from people clicking on adverts
 - They attract people by having a high page rank
 - Your link to them increases their page rank!
- Content of websites is somewhat variable
 - may be stolen content
 - may be translated content
 - may be ezinearticles
 - content for filling up your blog/website
 - terms of service say you must provide a source credit

Comparing take-down times

- Defamation – believed to be quick (days)
- Copyright violation – also prompt(ish)
 - experimentally “days”
 - albeit with prompting, suggesting perseverance matters
- Fake escrow agents
 - average 9 days, median 1 day
 - note that AA419 aware of around 25% of sites
- Mule recruitment sites (Sydney Car Center etc)
 - average 13 days, median 8 days
 - doesn't attack any particular bank, so they ignore the issue
 - Slower than escrow sites (vigilantes more motivated ?)
- Fake pharmacies
 - No vigilante groups – so lifetime is ~2 months

Child sexual abuse images (CAI)

- Provided with anonymised data by IWF
 - Jan–Dec 2007 there were 2585 different domains
 - ignoring 8 (free-web?) domains with >100 reports
- Computed initial take-down time (ignored recompromise)
 - mean 21 days, median 11 days
- If include sites with no removal at all
 - mean 30 days (and growing), median 12 days
- Fast in UK : IWF checks with police and then contacts the ISP
 - but “not authorised” to act internationally
 - passes data via UK police to foreign forces
 - also pass to another INHOPE member
- Confusion of aims (removal/catch criminals)

Evil on the Internet

BLOG: <http://www.lightbluetouchpaper.org/>

<http://www.cl.cam.ac.uk/~rnc1/>



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