# Searching for Evil

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### Joint work with Tyler Moore, Steven Murdoch & Shishir Nagaraja



Cambridge 16<sup>th</sup> January 2008

### Traffic analysis

- Traffic analysis was always critical in electronic warfare – call-signs hid identities, but you'd recognise a radio operator from his 'fist'
- Most of the information from police wiretaps is who called whom, not what was said
- We got interested circa 1995 (the crypto wars)
- When people developed online anonymity systems, traffic analysis became the big threat
- Traffic analysis is about to become a really big issue for online services such as Google!

### Security and economics

- Electronic banking: UK banks were less liable for fraud, so ended up suffering more internal fraud and more errors
- Distributed denial of service: viruses now don't attack the infected machine so much as using it to attack others
- Health records: hospitals, not patients, buy IT systems, so they protect hospitals' interests rather than patient privacy
- Why is Microsoft software so insecure, despite market dominance?
- Problems like these led us to start studying security economics at the turn of the century
- Now there are 100+ active researchers

## Security economics (2)

- Microeconomics can help explain phenomena like adverse selection and moral hazard (why do Volvo drivers have more accidents?)
- Application to search: Ben Edelman, "Adverse selection on online trust certifications"
- The top Google advert is about twice as likely as the top free search result to be malicious
- Conclusion: 'Don't click on ads'
- What can be done about this?

## Topology and vulnerability

- Many real-world networks can be modeled as scale-free social contacts, disease spread, spread of computer viruses
- Power-law distribution of vertex order, often arising from preferential attachment
- Highly-connected nodes greatly enhance connectivity
- ... and also vulnerability if you attack them, the network is rapidly disconnected

## Topology and vulnerability (2)

- Example: Sierra Leone HIV/AIDS program treated prostitutes first – only 2% of population infected (vs 40% in Botswana)
- Example: if you conquer a country, subvert or kill the bourgeoisie first
- What about the dynamic case, e.g. insurgency? Police keep arresting, insurgents keep recruiting
- This work: we apply evolutionary game theory to study this dynamic case

### Simulation methodology

- After Axelrod's work on iterated prisoners' dilemma
- Scale-free network of 400 nodes
- At each round, attacker kills 10 nodes their selection is his strategy
- Defender recruits 10 more, then reconfigures network how he does this is his strategy
- Iterate search for defense, attack strategy



- Basic vertexorder attack – network dead after 2 rounds
- replenishment 3

## Evolving defense strategies



- Black scale free replenishment
- Green replace high-order nodes with rings
- Cyan replace high-order nodes with cliques
- Cliques work very well against the vertex-order attack

### Evolving attack strategies



- Centrality attacks are the best counter we found to cliquebased defenses
- Rings: G, B cliques: C, M
- Vertex-order attack: B, G, C
- Attack using centrality: R, B, M

### Part II

Searching for .....

phishing other criminals sharp practice and "MFA"

## Types of phishing website

• Misleading domain name

http://www.banckname.com/

http://www.bankname.xtrasecuresite.com/

• Insecure end user

http://www.example.com/~user/www.bankname.com/

• Insecure machine

http://www.example.com/bankname/login/
http://49320.0401/bankname/login/

• Free web hosting

http://www.bank.com.freespacesitename.com/

### Rock-phish is different!

- Compromised machines run a proxy
- Domains do not infringe trademarks
   name servers usually done in similar style
- Distinctive URL style
   http://session9999 bank.com lof80.info/signon/
- Some usage of "fast-flux" from Feb'07 onwards – viz: resolving to 5 (or 10...) IP addresses at once

Phishing website lifetimes (hours)	# sites (8 weeks)	Mean lifetime	Median lifetime
Non-rock	1695	62	20
Rock-phish domains	421	95	55
Fast-flux rock-phish domains	57	196	111
Rock-phish IP addresses	125	172	26
Fast-flux rock-phish IP addresses	4287	139	18

### Free web-hosting take-down data

Site lifetime (in hours)	# sites	mean	median
yahoo.com	174	23.8	6.9
doramail	155	32.8	18.1
pochta.ru	1253	33.8	16.8
alice.it	159	52.4	18.8
by.ru	254	53.1	38.2

BUT: almost all sites (except on Yahoo!) were eBay (65 hour average; this is 1/3 of their total)







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#### 1. Regional Sales Manager

Status: Part-time

Job description:

 Work as a member of a group, helping to enlarge a base of customers in countries all over the world and liaise with head office on a daily basis;

Deliver high stanuards of customer service ensuring high delivery speed and quality of orders;

 Manage a part of a sales cycle – ensure fast remittance of payments through your bank account and then - through world wide Western Union system and calculate fees at each step;

Create and maintain positive relationships with existing clients that result in new customers. lead to and

maximise opportunities for expansions and renomale to enhance revenue scream. Employees should be able to perform:

- · Excellent spoken English & communication skills (oral and written).
- Professional approach on the phone conversations
- PC literate: Microsoft Outlook and Word as a minimum
- Proven ability to communicate effectively at all levels in a relaxed confident manner.
- Extroverted and outgoing, with a positive outlook.
- Significant attention to detail.
- Excellent organisational skills.
- Customer focused,
- · Focused on own personal goals, integrating the achievement of company objectives.

 Ability to work unsupervised No previous sale or accounting experience is necessary, though it will be valued.

Your Personal situation must allow you to travel around your place 1-2 hours a day on company assignments( that would be particularly trips to the bank and Western Union branches)

### Apply for this Position

#### WE OFFER:

 A base salary with generous commissions (10% out of each payment you've dealt with) and expenses.

· Flexible timetable - allows you to chose the mest suitable time to deal with company appignments

 Benefits, including Contributory Pension, Life Assurance, Private medical Insurance, Birthday holiday Day and Childcare vouchers

### 2. Warehouse supervisor

#### Status: full-time

Job description:

- Provide health and safety of all staff and visitors to the warehouse and goods in area;
- Make accounting for quality and storing of incoming goods;
- Make stock records of all stock in warehouse;
- · Correct assembly of orders against shipping documents;
- Supervise cleanliness of the warehouse and production area;
- Monitor loading of vehicles to meet shipping dates;
- Inspect maintenance of all mechanical handling equipment within the Company.
- Supervise and manage all staff reporting to you.

#### Employees should be able to perform:

- 1 Knowledge of Warehouse Operations
- 2 Stock Control skills
- 3 Knowledge Warehouse IT Systems
- 4 Supervision of Staff
- 5 Professional approach on the phone and in face-to-face meetings.
- 6 PC literate: Microsoft Excel, Outlook & Word as a minimum

### Mule recruitment

- Proportion of spam devoted to recruitment shows that this is a significant bottleneck
- 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 usually indexed by Google

### Mule recruitment site takedown is slow!

Mule website lifetimes (hours)	# domains	Mean lifetime	Median lifetime
Lux Capital	10	751	1058
Aegis Capital Group	11	292	311
Sydney Car Centre	17	182	135
Waller Truck	24+	ongoing	5 –



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"register for a safe transaction" "who we are"

#### Search Advanced Search

#### Web

#### HOW IT WORKS

WHO WE ARE? ... TO GET STARTED, JUST CLICK THE REGISTER FOR A SAFE TRANSACTION BUTTON FROM THE HOME PAGE AND YOU WILL BE TAKEN STEP-BY-STEP THROUGH THE ... ganaza.eu/a/how.htm - 18k - <u>Cached</u> - <u>Similar pages</u>

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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 inspect the motor vehicle before the Seller is paid. ... www.escrow.com/solutions/vehicle/index.asp - 16k - Cached - Similar pages

Escrow.com Protect yourself with Escrow.com! We protect both the buyer and seller with a simple, 5step was process. Read How It Works... How Much Does It Cost? ...

### Fake escrow sites

- Large number (a dozen or so) of sets of fake escrow sites used for auction scams
- Typically getting half a dozen victims a week, but profit in each case is the price of a second-hand car or motorcycle!
- Tracked by "AA419" and taken down by amateur "vigilantes"



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Blood Pressure/Cholesterol - Tricor Ismo Imdur Trandate Liv.52 Lasix Vasodilan Vasotec .... Licensed by The College of Pharmacists of British Columbia. ... antoncool.freehostia.com/viagra17.html - 45k - Cached - Similar pages

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#### Vimax Patch - Science Behind Vimax Patch!

You'll continue adding inches and thickness to your penis even while you sleep! ... Eastern and Western herbalists recommend Fo-Ti as a tonic to maintain ... www.vimax-patch.org/about.html - 9k - <u>Cached</u> - <u>Similar pages</u>

#### Penis Enlarge Patch Rx. Natural Penis Enlargement Patch. Increase ...

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page 1 of 1

## Pills, Penises and Photography

- Canadian Pharmacy &c
  - hosted on same fast-flux pools as some of the phishing sites. Links remain unclear
- Google picking up a proportion of these sites, but by no means all
- Some fake shopping sites, which fool some reputation systems, though Google searches show complaints on the first page.
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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.

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Trade Services						-	
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Commercial Banking	to take a	dvantado ot	invectment annor	tunities around the			

# Fake banks

• These are not "phishing"

– no-one takes them down, apart from the vigilantes

- Usual pattern of repeated phrases on each new site, so googling finds more examples
   sometimes old links left in (hand-edited!)
- Sometimes part of a "419" scheme
  - inconvenient to show existence of dictator's\$millions in a real bank account!
- Or sometimes part of a lottery scam



# 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

BestForexWorld	Status: WAITING	Added: Jan 4th, 2008
Our Rating:	User Votes: 0.0 - 0 votes	Support: 🧟 📰 👥
Our Investment: <b>\$40.00</b> Payout Ratio: <b>0%</b>	Minimal Spend: <b>5 USD</b> Maximal Spend: <b>10,000 USD</b> Referral: <b>5%</b> Withdrawal: <b>Manual</b>	11.5-12.5% Daily for 10 Trading Days 5-6% Daily for 30 Trading Days 3.7-4.7% Daily for 60 Trading Days 3-4% Daily for 100 Trading Days e-gold
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	Maximal Spend: <b>30,000 USD</b> Referral: <b>5%-10%</b> Withdrawal: <b>Manual</b>	5% for 25 days
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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.

Visit EHRC websites for more information on EHRC and its activities.

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 goverment officials, and by collaborating with similar associations throughout the world.

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### **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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- 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)

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# Privila

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### **Privila Internship Program**

Welcome to the Privila Intern webpage! Thank you for your interest in interning with Privila. The Privila Internship Program provides a unique opportunity to gain experience in many areas of Internet Development.

To discover which internship area would best match your qualifications, please reference the following: <u>Telecommute Journalist</u>, <u>In-House Journalist</u>, <u>Software Engineer</u> and <u>Graphics Design</u>.

Privila Internships are unpaid positions and participants are responsible for arranging their own transportation and housing. Approximately 25 interns are chosen each spring, summer, and fall to participate in this unique program.

### **INTERNSHIP PROGRAM**

Internship Program Internship Perks Positions Telecommute Journalist In-House Journalist Software Engineer Graphics Design General Information FAQ Privila Environment Internship Experience

We invite you to apply. Interns will be selected based on their application and demonstrated interest in their chosen field of study.

Thank you for your interest in the Privila Internship Program. We look forward to hearing from you.

Internship Coordinator

Privila, Inc.

# Privila Inc

- Purchasing abandoned domain names
  - creating content to match the domain
  - avoiding cross-linking etc so "pukka"
- Using interns to create content
  - college kids who want a "journalism" CV
  - much is at the High School term paper level  $\otimes$
- Now have over 100 authors, over 250 sites and a LOT of Google Ads – which are in many cases the main value of the site ☺

	Phishing	Fake Escrow	Pills Penis &c	Fake Bank	Fake Institute	Privila Inc
Number per month	thousands	dozens	dozens	handful	few	dozens
Trying to hide?	yes	no	no	no	no	no
Self-similar	yes	yes	yes	a bit	yes	no
Removal	banks & experts	vigilantes	vigilantes	vigilantes	no	no
Adverts	no	no	no	no	yes	yes

# Our research questions

- How do we fix the incentives to prevent phishing from being so effective ?
- What algorithms can detect reputation traders, and other covert communities?
- Can community reputation sites make a long-term contribution?
- Is advertising distorting the web?
- What other cool things are there at the boundary of technology and economics?

# Searching for Evil

### http://www.lightbluetouchpaper.org

