# Exponential Threats to a Digital Age CISO Forum – Jan. 25, 2011

#### "Hackers costing enterprises billions"

"Computer hackers could disable military" "Hackers breach clusters of U.S. supercomputers"

"St. Pete Breeding Ground for World Class Hackers"

"Telenor takes down 'massive' botnet" "Computer 'phishing' fraud worms way into Kentucky" "Hackers hijack federal computers"

"Eerie virus sweeps through Internet"

"Microsoft hackers had access for weeks"

"Hackers attack U.S. government Web sites"

"MSBlast picks on vulnerable computers. Don't fall prey!"

"Hackers hit Hotmail"

4114 3

"Hackers make the headlines on USAToday"

InfoSec Pros Get Compromised

#### InfoSec Pros Get Compromised

#### Security Gurus Owned by Black Hats

Adjust text size: A- A+ July 30th, 2009, 11:06 GMT| By Lucian Constantin



The Re the first of your friends to like this



The websites and servers of reputed security experts and popular online hacking communities have been compromised by a group called ZFO (Zero for Owned), which released a big text file containing a wealth of info extracted during the hacks. According to its manifesto, ZFO opposes full-disclosure practices and thinks that the security industry is failing.

The file left behind by the black hats, called ZF05.txt, which is supposed to signify issue five of the Zero for Owned zine (magazine), contains attack logs sprinkled with the hackers' comments, as well as personal emails, chats and other data belonging to those compromised.

The hacked security websites include the ones belonging to Kevin Mitnick, Dan Kaminsky, Ralph von der Heyden, Julien Tinnes, as well as darkmindz, elitehackers, hak5, binrey, and blackhat-forums. The group decided to break out the news on the eve of the Black Hat Briefings, one of the biggest security conferences where the industry's elite gathered.

Dan Kaminsky in particular seems to have had it worse, with many of his personal emails and chats with other white hats being exposed, ZFD claims to have 1.5gb of them dating as far back as 2005. "Dan Kaminsky got owned. Everything. Blackhats have been passing around his personal emails for months. He's only famous because his ego is so bloated that he attacks the world with his pointless ramblings," the group writes.

Ads by Google

- InfoSec Pros Get Compromised
- Thousands of new viruses per month

#### Mcafee Threats Report 2010:

Even though spam declined, an average of 60,000 new malware threats were identified each day, nearly four times the 16,000 detected per day in 2007.

- InfoSec Pros Get Compromised
- Thousands of new viruses per month
- Growing complexity of attack vectors
- March 2010
- AV Detects KNOWN attacks.
- AV vendors can't agree on Virus: name, effect, taxonomy or if it is even a virus

#### Tech Center: Vulnerability Manage

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#### Only One In Seven Consumer AV Tools Catch New 'Aurora' Variants

NSS Labs says its new test shows emphasis on antivirus exploit detection flawed, but others disagree

Mar 11, 2010 | 04:20 PM

By Kelly Jackson Higgins DarkReading

Most antivirus products don't detect new variants of the exploit used in the so-called "Operation Aurora" attacks on Google, Adobe, and other U.S. companies, according to a new test conducted by NSS Labs.

- InfoSec Pros Get Compromised
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- Social Networking/Engineering

#### Glut of Stolen Banking Data Trims Profits for Thieves

A massive glut in the number of credit and debit cards stolen in data breaches at financial institutions last year has flooded criminal underground markets that trade in this material, driving prices for the illicit goods to the lowest levels seen in years, experts have found.

For a glimpse of just how many financial records were lost to hackers last year, consider <u>the stats released this week by</u> <u>Verizon Business</u>. The company said it responded to at least 90 confirmed data breaches last year involving roughly 285 million consumer records, a number that exceeded the combined total number of breached records from cases the company investigated from 2004 to 2007. Breaches at banks and financial institutions were responsible for 93 percent of all such records compromised last year, Verizon found.

As a result, the stolen identities and credit and debit cards for sale in the underground markets is outpacing demand for the product, said Bryan Sartin, director of investigative response at Verizon Business.

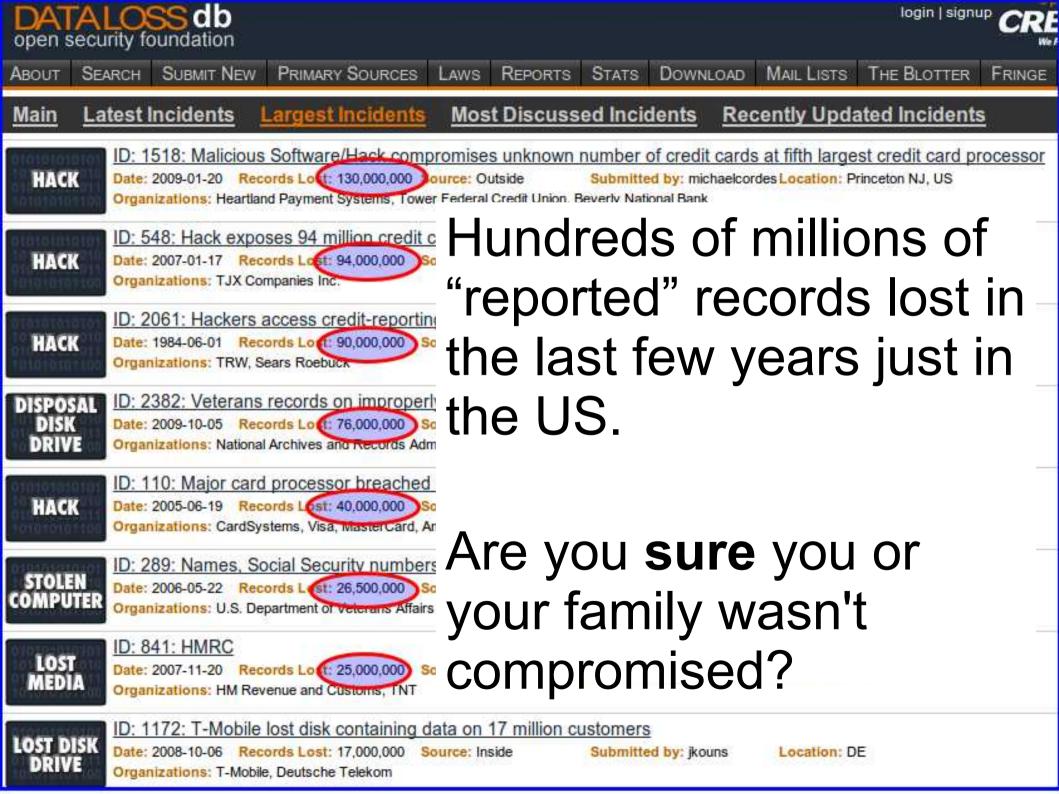
Verizon found that profit margins associated with selling stolen credit card data have dropped from \$10 to \$16 per record in mid-2007 to less than \$0.50 per record today.

- April 2009
  - Our data for sale
  - Stolen credit card profit margins have dropped
    - -2007 \$10-16
    - -2009 \$0.50
    - -2010 \$0.06\*
  - \* Bulk Pricing Available

- InfoSec Pros Get Compromised
- Thousands of new viruses per month
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- Social Networking/Engineering

#### No One Can Keep Up

Who hasn't experienced fraud or loss of an asset or identity for themselves or family?







## Luck Favors the Prepared



## Principles to Live By

- Least Privilege
- Need-to-know
- Separation of Duties
- Minimize Threat Surface
  - Defense In Depth
  - Security Awareness
  - Situational Awareness

#### Remember the Cobbler's Kids

- Best-practice principles...are
- Apply similar precautions at home



## Least Privilege

Do some who have access to your sensitive assets shouldn't?

#### 2 Men Accused Of Swiping CC Numbers

Timothy Curley, Michael Thomas At Center Of Secret Service Investigation

Cara Liu Reporter, KPHO.com

POSTED: 11:20 pm MST July 2, 2009 UPDATED: 9:01 am MST July 7, 2009

**PHOENIX** — Two Phoenix men are accused of stealing thousands of American Express card numbers and swindling more than a million dollars from customers.

Timothy Curley, of Phoenix, is at the center of the Secret Service investigation.

Curley was arrested June 24 at Sky Harbor Airport.

Court records obtained by CBS 5 News detail what police confiscated during the arrest: drugs, approximately \$5,000, fictitious Arizona driver's licenses, a laptop computer and more than 100 re-encoded credit cards.

Those bogus ca police.

Police discover who "could hav various banks,"

Investigators le

No one answer

When investiga Detectives also

Michael Thoma

Police said he t Investigators al

A spokeswoma accounts for fra

- July 2009
- AMEX Employee steals cardholder info to forge cards
- AMEX claims few had access to this information, making this a trusted-individual

Related To Story



Video: Secret Service: Investigation Ongoing In CC Fraud Case

d, according to

one of the few machines at

uck last August.

search warrants.

ress customers.

nonitors

A Secret Service spokesperson would only confirm an ongoing investigation.

### **Minimize Threat Surface**

Do you unnecessarily expose your sensitive assets (e.g. SSN, Location, Schedule, Family info)?

- June 2009
- More laptops stolen with no encryption or protection
- This one from a bank.
- Every industry is at risk

#### B B C NEWS

#### Bank's details on stolen laptops

#### A laptop containing bank account details of 75,000 Irish gas board customers, has been stolen in Dublin.

The theft took place almost two weeks ago, but was not publicised until Wednesday because police were following "a particular line of inquiry".

The confidential information was not encrypted and was on one of four stolen laptops taken from Bord Gáis offices and nearby buildings on 5 June.

Bord Gáis said it will contact affected customers next week.

The company added that police and the Irish Data Protection Commissioner were immediately informed.

Bord Gáis, which has recently entered the electricity market, has attracted significant numbers of new customers who have changed their supplier.

The National Consumer Agency has described the lack of encryption as "unacceptable and a poor reflection on Irish business".





#### More Testimonials:

Stop Junk Mail. Stop Credit Offers. Stop Identity Theft. Guaranteed.





#### Lifelock Dinged \$12 Million for Deceptive Jusiness Practices

By Kim Zetter 🖾 🛛 March 9, 2010 | 3:34 pm | Categories: Crime, Cybersecurity



The CEO of Lifelock, Todd Davis, became famous for advertising his Social Security number on television ads and billboards promising his \$10 monthly service would protect consumers from identity theft.

The company also offered a \$1 million guarantee to compensate customers for losses incurred if they became a victim of identity theft after signing up for the service.

But the Federal Trade Commission said Tuesday that the claims were bogus (.pdf) and accused Lifelock, based in Arizona, of operating a scam and con operation. The commission announced, along with 35 state attorneys general, that it had levied a fine of \$12 million against the company for deceptive business practices and for failing to secure sensitive customer data. Of that amount, \$11 million will go to refund customers who subscribed to the service. Consumers will receive a letter from the FTC and their attorney general explaining how to take part in the settlement.

The FTC said that Lifelock, which advertises itself as "#1 In Identity Theft Protection," engaged in false advertising by promising customers that if they signed up with its service their personal information would become useless to thieves.

"In truth, the protection they provided left such a large hole ... that you could drive that truck through it," said FTC Chairman Jon Leibowitz, referring to a Lifelock TV ad showing a truck painted with the CEO's Social Security number driving around city streets.  March 2010
 FTC
 Accused of scam and con operation

 Forced to pay \$12M

#### Defense In Depth Minimize Threat Surface Security Awareness Have you disclosed unnecessary information about yourself/work/etc. online?

## Age of Information

Reconnaissance Takes Just Button Clicks

Entity Cooperations Can't Easily be Identified

 Information Posted on One Site Could be Queried from Another

## Gawker Hack

- Gawker (gossip site) Raided Nov/Dec 2010
- 1.5M Accounts Compromised
- Feud Between Gawker and Gnosis Hackers
- Gnosis Had Access for Weeks
- Gawker Made Many Errors
- Compromised Accounts includes staff from SSA, NASA, FTC, NARA, USDA, FDA, LoC, US Senate, DoD

## What Can We Learn?

- Never Underestimate Your Opponent
- A Site's Insecure cred Mgmt. Can Harm You
- You Never Know a Site's Affiliates or Enemies
- Account and Password Reuse is Dangerous
- There is a Saying: A smart man puts all of his eggs in one basket, then watches that basket

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- How do you watch something that you don't know exists and have no ability to watch?

## What Did "They" Learn?

- Gawker Sourcecode
- Gawker and Affiliate Business Practices
- Admin/Mgmt Accounts for Many Affiliate Sites
- Gawker-Internal Correspondence
- All User Credentials
- Knowledge of How Users Create Passwords

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## The Telegraph

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Technology News

#### Security risk as people use same password on all websites

More than 1.7 million people are at risk of falling victim to internet fraud because they use exactly the same password every time they go online, a new report warns.

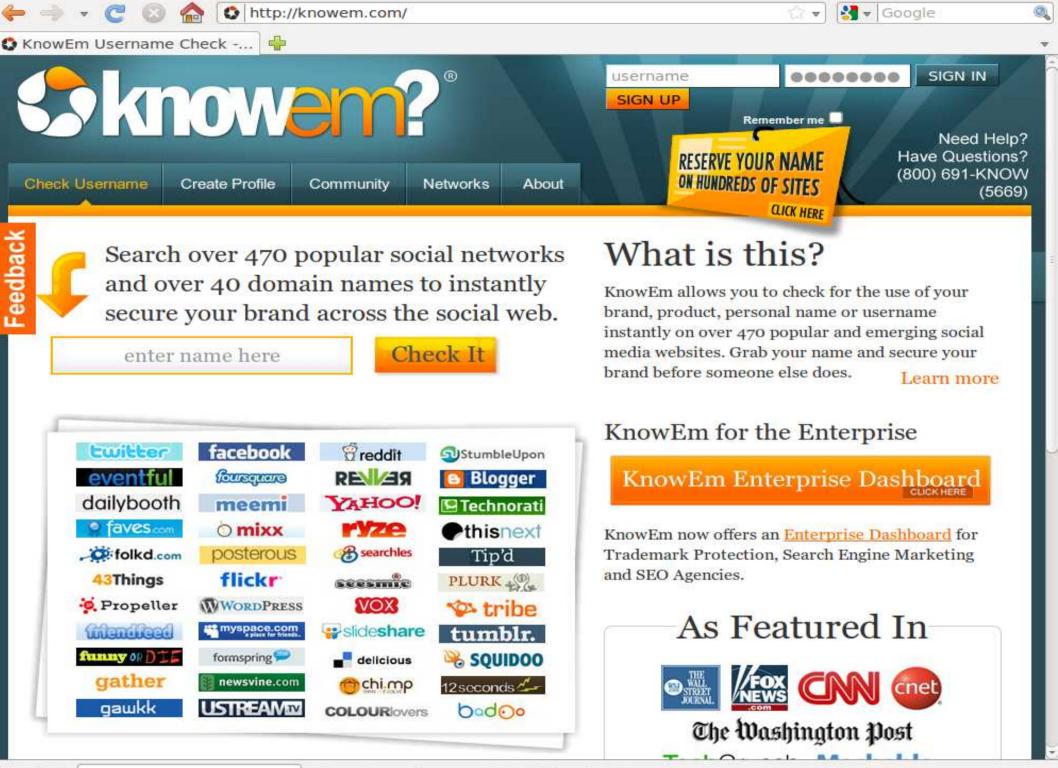


How to choose a secure password Photo: GETTY

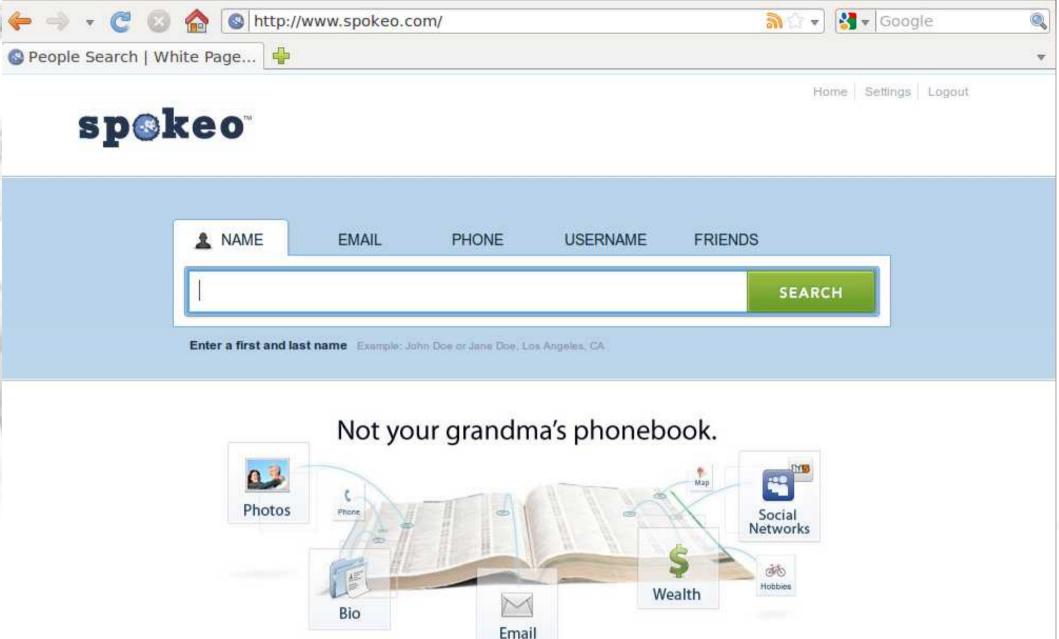
7:05AM BST 02 Sep 2009

The latest research by insurer CPP reveals that many people admit to using use easy-to-guess passwords, such as memorable dates, the names of their children or pets and share them with partners, friends and colleagues. Most People use the Same Password on all Websites What can an attacker do with your username/password recovered from a compromised site? What can an attacker do with your username/password recovered from a compromised site?

# **Reconnaissance!!**



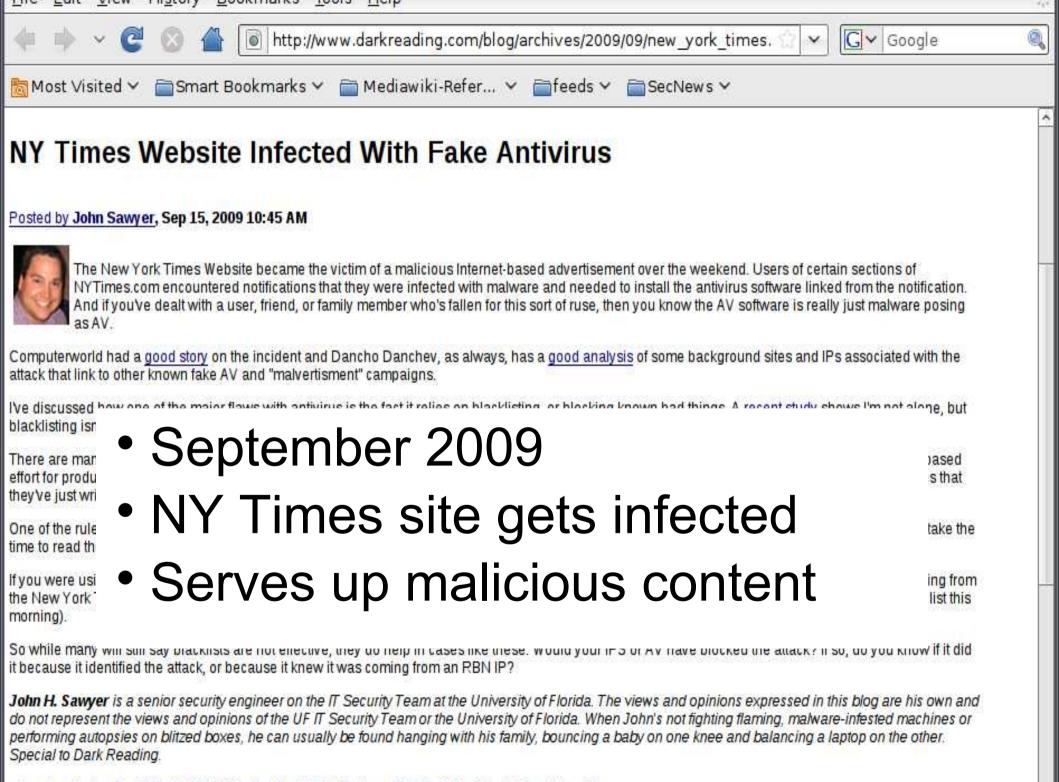
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Facebook	newsvine	Snooth	📴 brightkite
YouTube	6 bebo	ThisNext	Virb
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### Defense in Depth Situational Awareness

Would a single exploit compromise your critical assets (e.g. bank, mortgage-payment, records)?



« Heartless Hackers Exploit Death Of Dirty Dancing Star | Main | Anatomy Of A Client-Side Attack Using Metasploit »

## • March 2010

- Energizer
   Bunny Infects
- Trojan horse grants access
- Company had no idea

#### Energizer Bunny's software infects PCs

USB battery recharger status software contains Trojan, says US-CERT

By Gregg Keizer March 7, 2010 10:17 PM ET 🥏 Comments (23) 🕜 Recommended (17) 🚮 💽 🔀 Share

Computerworld - The Energizer Bunny infects PCs with backdoor malware, the Department of Homeland Security's US-CERT said Friday.

According to researchers at US-CERT (United States Computer Emergency Readiness Team), software that accompanies the Energizer DUO USB battery charger contains a Trojan horse that gives hackers total access to a Windows PC.

The Energizer DUO, a USB-powered nickel-metal hydride battery recharger, has been discontinued, said Energizer Holdings, which late Friday confirmed that the software contains malicious code. The company has not said how the Trojan made its way into the software, however. "Energizer is currently working with both CERT and U.S. government officials to understand how the code was inserted in the software," Energizer said in a statement.

Energizer's DUO was sold in the U.S., Latin America, Europe and Asia starting in 2007.

The Windows software included with the charger is designed to show batterycharging status. When the software is installed, it creates the file "Arucer.dll," which is actually a Trojan that listens for commands on TCP port 7777. Upon

#### **Entrusted Handling Theft**

Do you have any protections at all for risks to entrusted handling?

## Why Now?

Entrusted Handling Has Always Been a Risk

Accessibility of Money-Movers Never Higher

Anyone With Physical Access Can Win

# ATM Skimming





#### Howard County Police looking for suspects who have been skimming from an ATM

Ellicott City ATM hit by skimmers





Posted: 11/30/2010

ELLICOTT CITY, Md. - Howard County Police are looking for two men who they believe rigged an Ellicott City ATM so that they could steal thousands of dollars out of the bank accounts of strangers.

Police think the suspects installed a skimming device on the ATM at the Columbia Bank on the 4400 block of Long Gate Parkway and then recorded customer's bank card information and

### **Entrusted Handling Thoughts**

- ATM/Gas-Pump Skimming On the Rise
- Hotel Check-in CC Theft on the Rise
- Restaurant-Server CC Theft on the Rise
- Insecure CC Handling With Websites is STILL a Big Problem
- How Can Best Practice Principles be Applied to Reduce Your Risk of Exposure?

### Security Awareness Situational Awareness

Do your online habits elevate the risk to your employer or friends?

## **Corporate Breach via Facebook**

#### How Facebook phishers breached a corporate network

Posted on | March 4, 2010 | 4 comments



#### By Byron Acohido

USA TODAY P. 1A 04Mar2010

SAN FRANCISCO — "Hey Alice, look at the pics I took of us last weekend at the picnic. Bob"

That Facebook message, sent last fall between co-workers at a large U.S. financial firm, rang true enough. Alice had, in fact, attended a picnic with Bob, who mentioned the outing on his Facebook profile page.

So Alice clicked on the accompanying Web link, expecting to see Bob's photos. But the message had come from

thieves who had hijacked Bob's Facebook account. And the link carried an infection. With a click of her mouse, Alice let the attackers usurp control of her Facebook account and company laptop. Later, they used Alice's company logon to slip deep inside the financial firm's network, where they roamed for weeks. They had managed to grab control of two servers, and were probing deeper, when they were detected.

- March 2010
- Facebook network used to gain access to corporate network
- Corporate Policy?
- Controls?
- Stories like this are becoming common

Sidebar: How the Koobface worm is evolving to keep bad guys ahead

#### Report: Facebook Served As Primary Distribution Channel For Botnet Army

Posted by <u>Raj Dash</u> on February 18th, 2010 4:35 PM

Share @ 2 Comments

Internet security company NetWitness has just published a report that reveals an 18-month-long widespread hacker attack on computers worldwide whose topmost method of malware delivery was Facebook. However, while over 3500 Facebook login credentials were stolen, that's a very tiny percentage given there are <u>over 400 million users</u> of this social media site. Yahoo and Hi5 came in 2nd and 3rd, respectively, for stolen credentials.

A NetWitness engineer found evidence of the hacker operation in late January 2010, while installing security

software for a company. Additional evidence suggests that an Eastern Euro group is possibly behind the attack, and used both German and Chinese cc latter because of the ease of operation and reduced chance of detection. , login credentials — for online banking, social networking sites and email over 2,400 companies and government agencies. The effort likely exposed j corporate data and secrets, including credit card transaction info and intel American companies whose computers were attacked span a range of indu entertainment, technology, finance, energy, Internet providers, and educat currently no indication of how much data was stolen or how it was used.

Initially, it's believed that hackers in Germany started the operation in late : employees of one organization into clicking on links via contaminated websi attachments or "virus cleaning" ads. Part of the also effort involved fooling officials into installing spyware. Computers at as many as 10 U.S. governme compromised, and even one soldier's login info was stolen. At least one onl payments processing server was accessed. In one case, an employee was involved in allowing hackers to gain access to corporate servers.

Number of credentials stolen via the ZeuS spyware virus by site

## • February 2010

- Botnet controlled from facebook app
- 68,000 credentials stolen from 2,400 companies and Gov't agencies



Source: NetWitness

Erik Brynildsen and

The Wall Street Jou

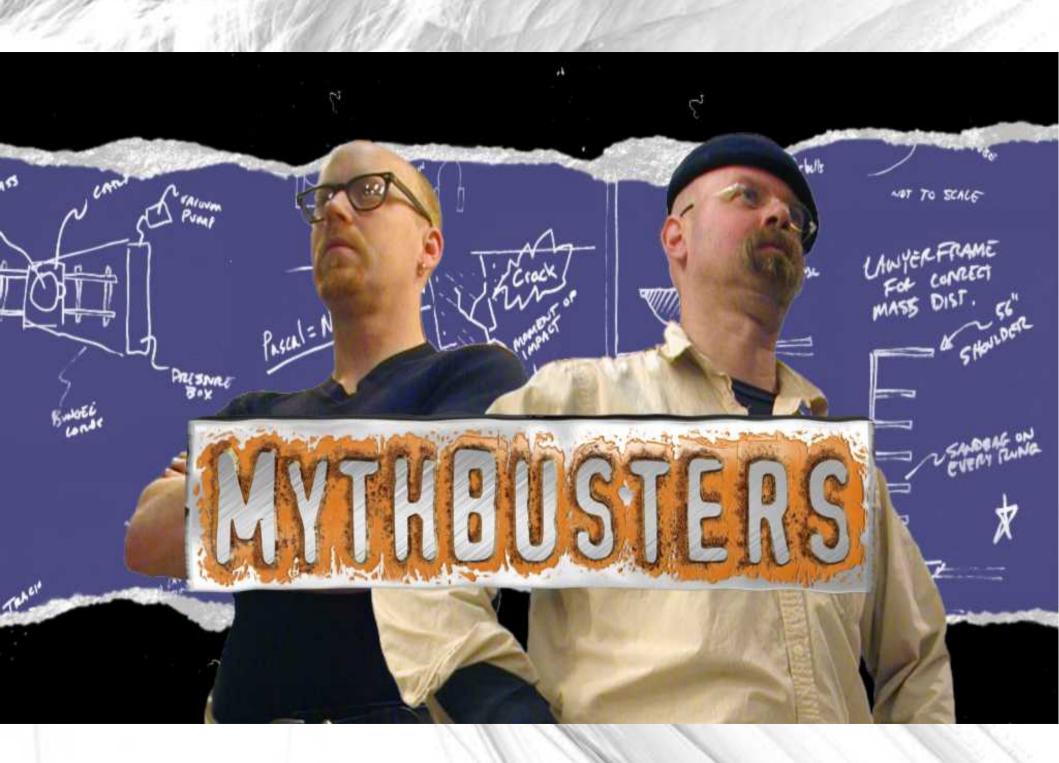
### Need to Know Security Awareness

Do you know what that 'tech' (e.g. your fancy smartphone) is really doing?



## Who is this guy?

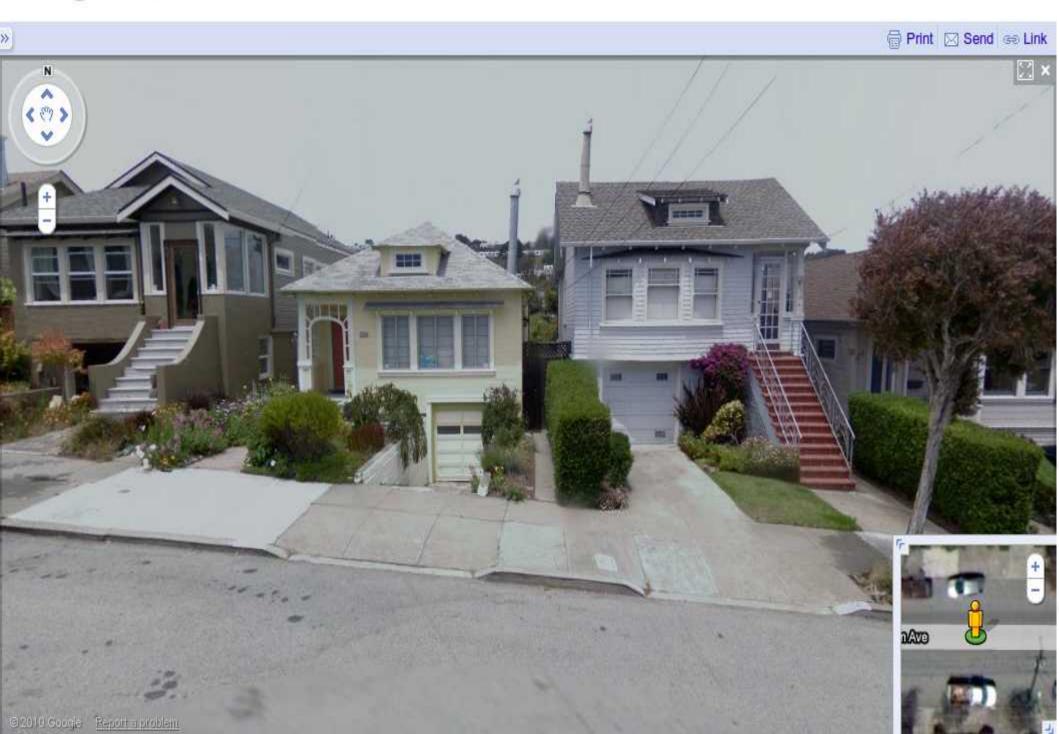






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Show search options





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#### http://twitpic.com/128p1b - Now it's off to work in my beast. Wait... How'd that DOG get in there?

9 Feb via TwitPic 🏠 Favorite 🗱 Retweet 🦘 Reply

#### http://twitter.com/#!/dottrythis/status/886090735

# twitpic

Sign in with Twitter



Now it's off to work in my beast. Wait... How'd that DOG get in there? http://twitpic.com/128p1b

49 Comments



zachamey 156 days ago

nice house adam!! http://yhoo.it/9W6mGD



Posted on February 9, 2010 by donttrythis

Interest Based Ads 🕟

#### More photos by donttrythis





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Views 22,925

Events

Tags



### What's EXIF?



#### This is EXIF -->

Image Properties

#### General Metadata Details Value Tag Camera ▼ Image Data DateTime 2010:02:09 08:26:14 YCbCrPositioning centered **ISOSpeedRatings** 70 DateTimeOriginal 2010:02:09 08:26:14 DateTimeDigitized 2010:02:09 08:26:14 PixelXDimension 800 PixelYDimension 600 Image Taking Conditions Maker Note ▼ Other FlashPixVersion FlashPix Version 1.0 ColorSpace SRGB GPSLongitudeRef W 122.00, 26.71, 0.00 GPSLongitude GPSAltitudeRef Sea level 34.00 **GPSAltitude** GPSTimeStamp 08:26:13.98 GPSDOP 5.00 M GPSImgDirectionRef GPSImgDirection 37.00 XMP Exif

181

Previous

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> Next



And thanks to GeoTagging we have the image's coordinates: 37.728333,-122.445167 Image Properties

Tag	Value	1
▶ Camera		
▼ Image Data		
DateTime	2010:02:09 08:26:14	
YCbCrPositioning	centered	
ISOSpeedRatings	70	
DateTimeOriginal	2010:02:09 08:26:14	
DateTimeDigitized	2010:02:09 08:26:14	
PixelXDimension	800	
PixelYDimension	600	
Image Taking Conditions		
Maker Note		
Other		
FlashPixVersion	FlashPix Version 1.0	
ColorSpace	sRGB	
GPSLongitudeRef	W	
GPSLongitude	122.00, 26.71, 0.00	
GPSAltitudeRef	Sea level	
GPSAltitude	34.00	
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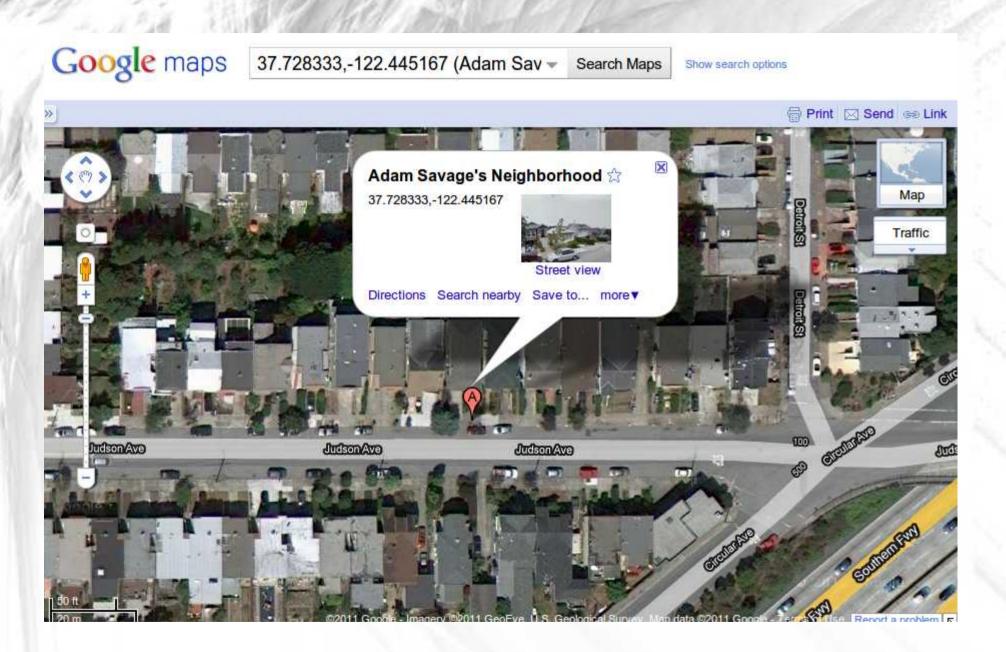
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- GPS Altitude {0x06} = 34/1 m ===> 34 m
- GPS Time Stamp / UTC Time {0x07} = 8/1,26/1,1398/100 [hours, minutes, seconds] ===> 8h 26m 13.98s
- GPS Measure Mode {0x0B} = 5/1
- GPS Image Direction Reference {0x10} = magnetic direction
- GPS Image Direction {0x11} = 37/1 degrees

Done!





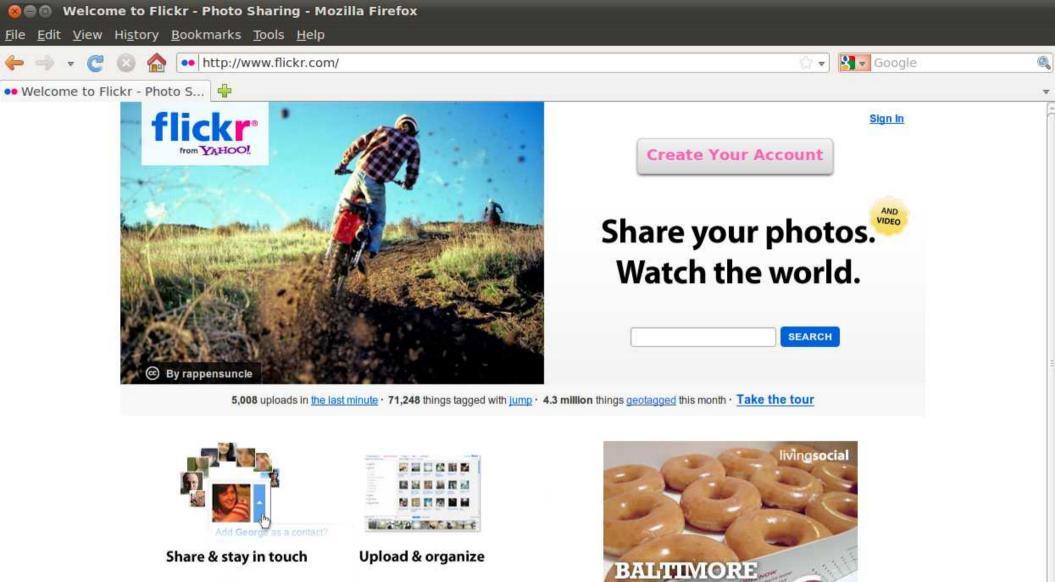
## What Can Any Web User Know?

- Where Adam lives: 37.728333,-122.445167
- Adam's Car: Beige Toyota Landcruiser
- What the house across the street looks like
- That he leaves for work around: 8:26 AM
- That he is a dog-owner
- The dog may or may not be at home all day
- His phone: iPhone 3GS ver:3.1.3

And What is Adam's Address?

After this incident he moved, so we don't know.

Can you afford to move after sending a 140character message to twitter?



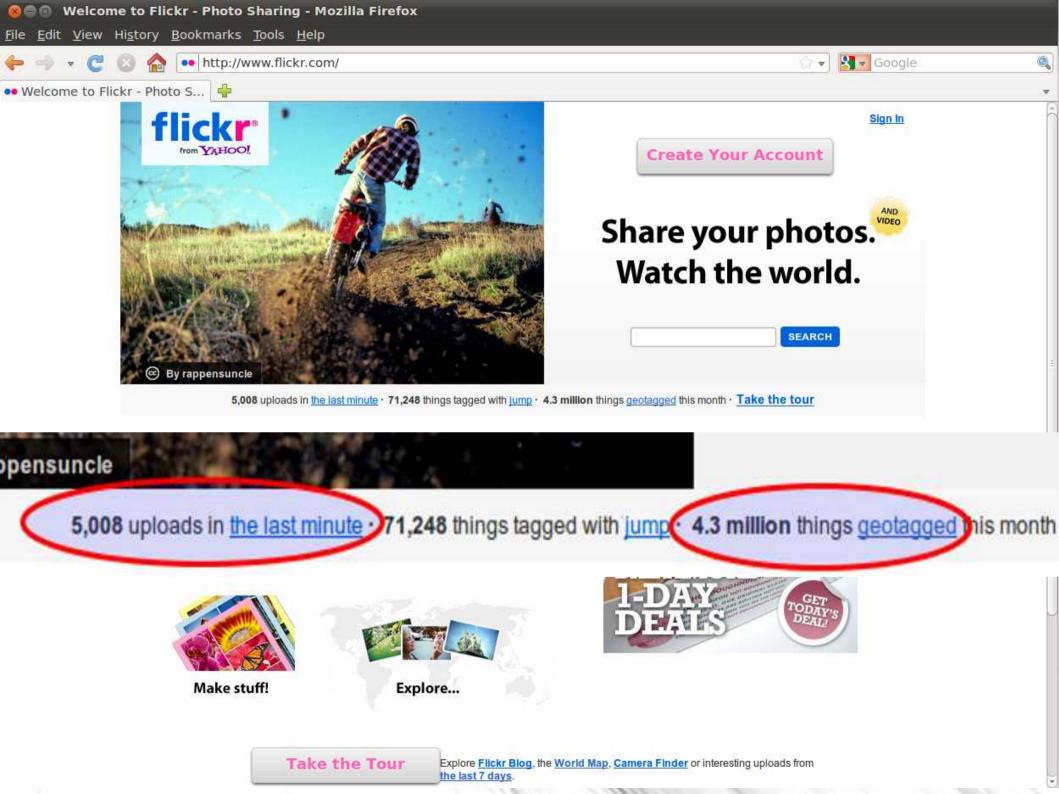


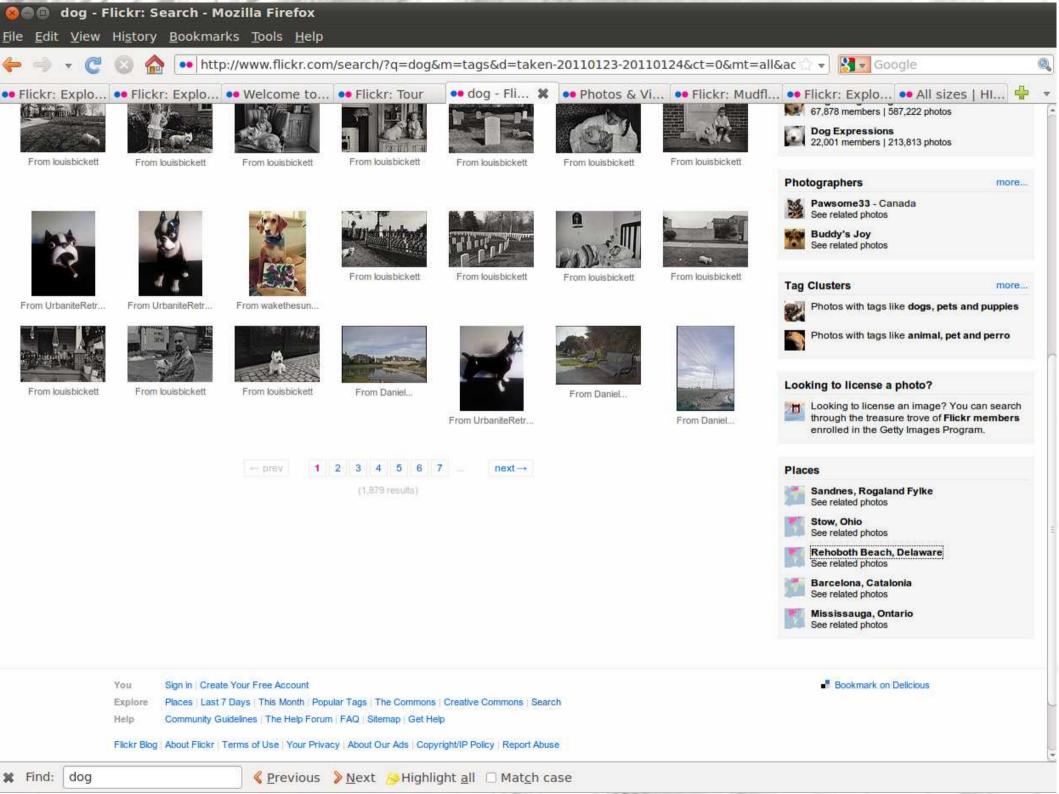
Make stuff!

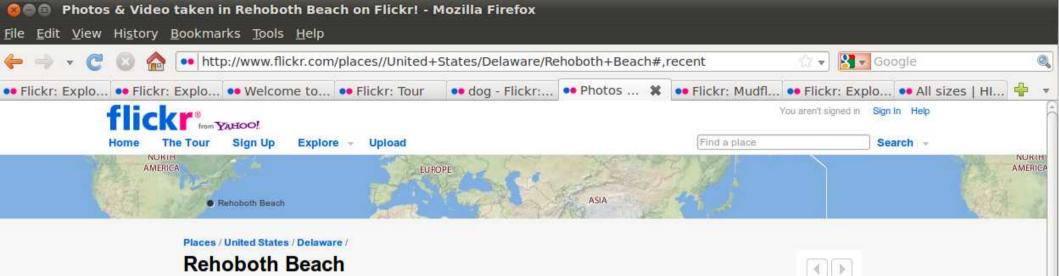


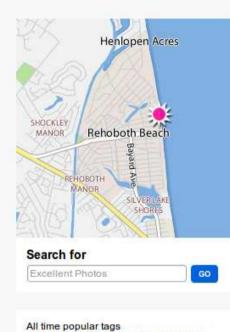
Explore...











beach, delaware, rehoboth, sand, ocean,

boardwalk, fence, dolles, water, sunrise, de,

Local time is 8.25pm Colour provided by Dopplr

waves, carousel, sign

sun, night, bird, summer, oceanbeach, wave,



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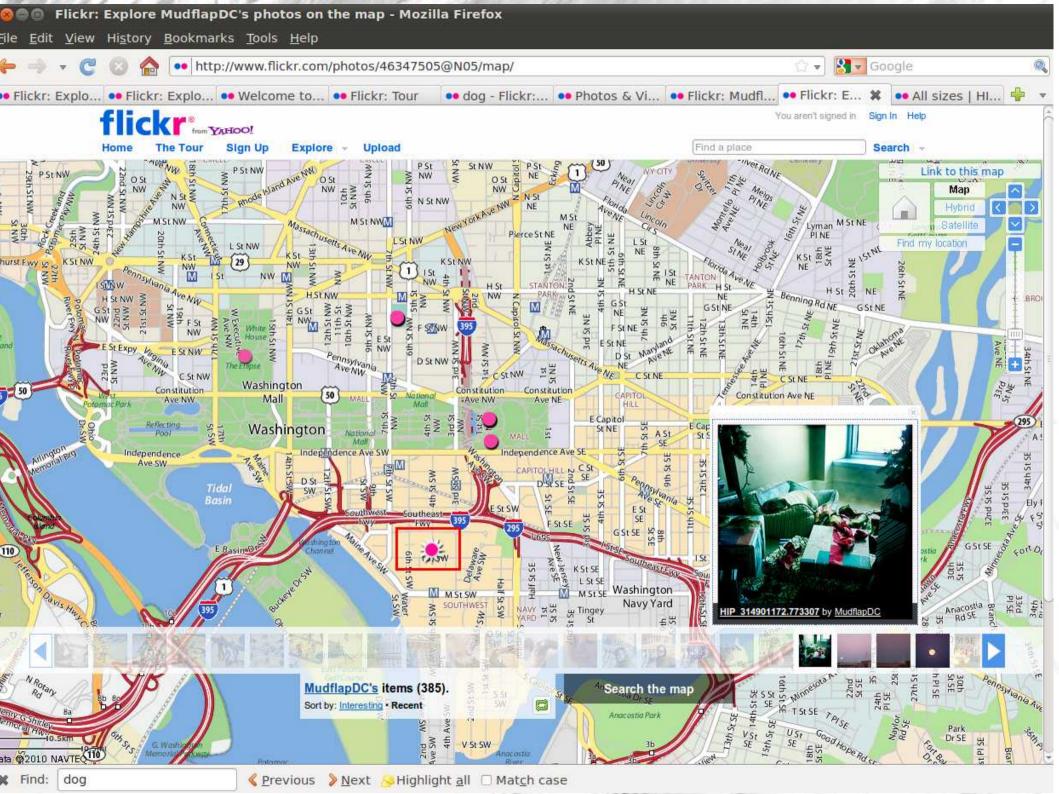
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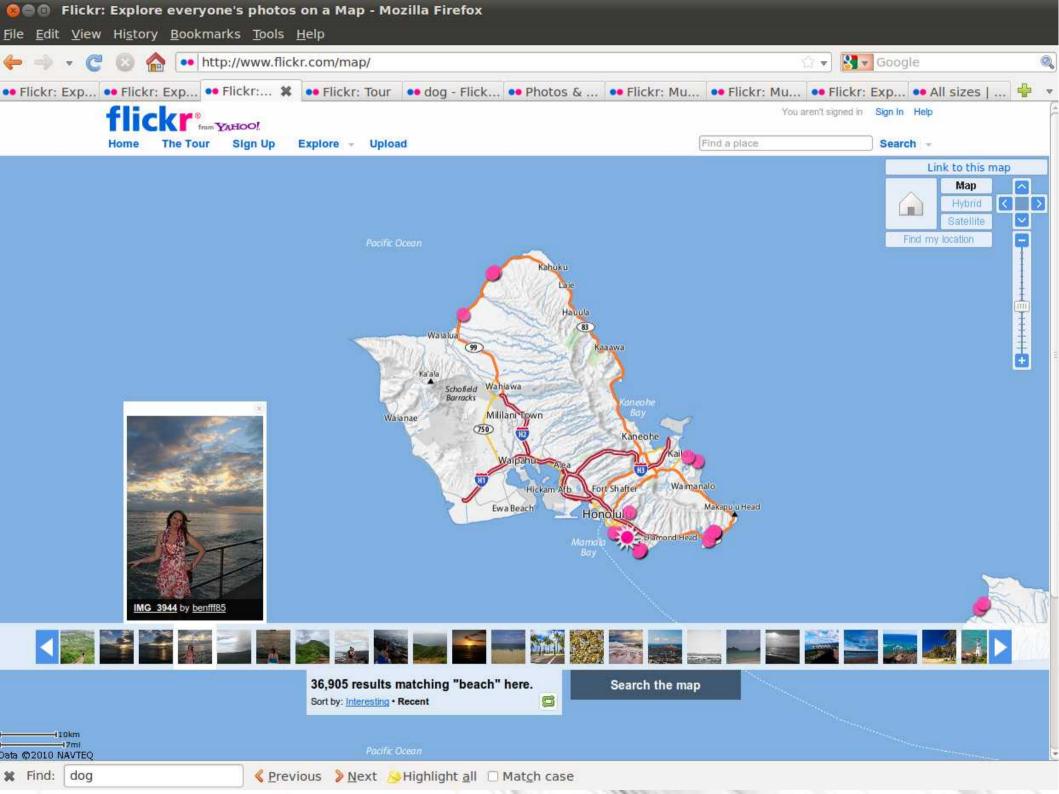
Jump to: GO

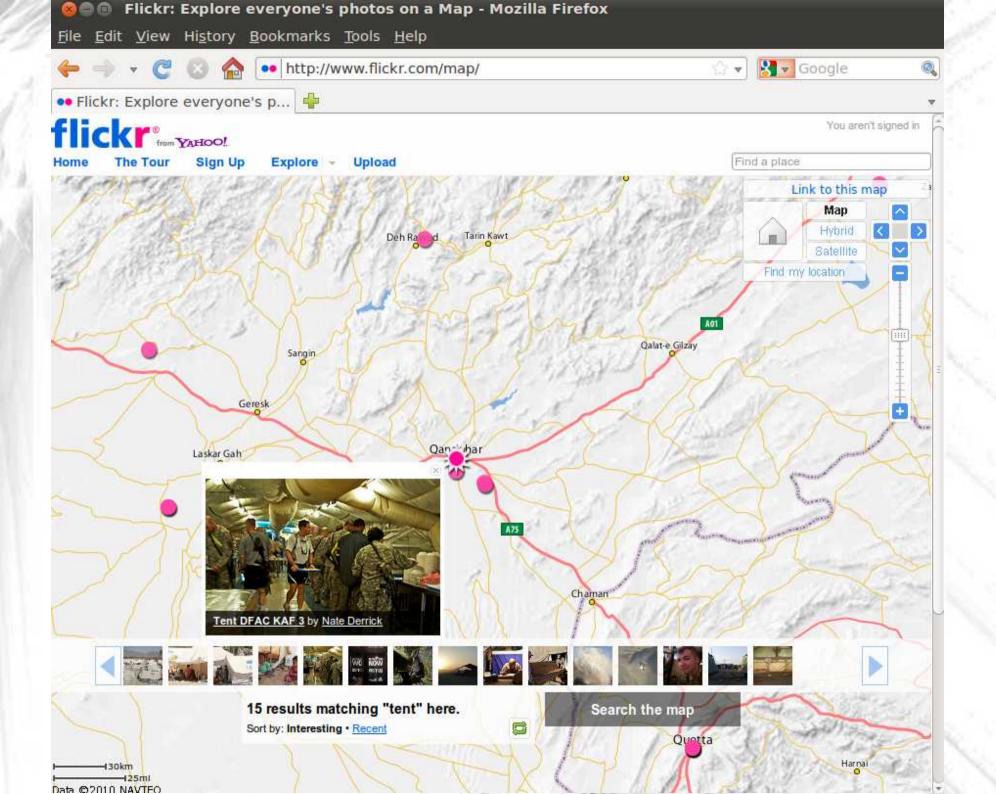
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#### What if The Attacker's Motives Were More Sinister?

#### Could He Find a Mark On Flicker in a Specific Location?

You bet!

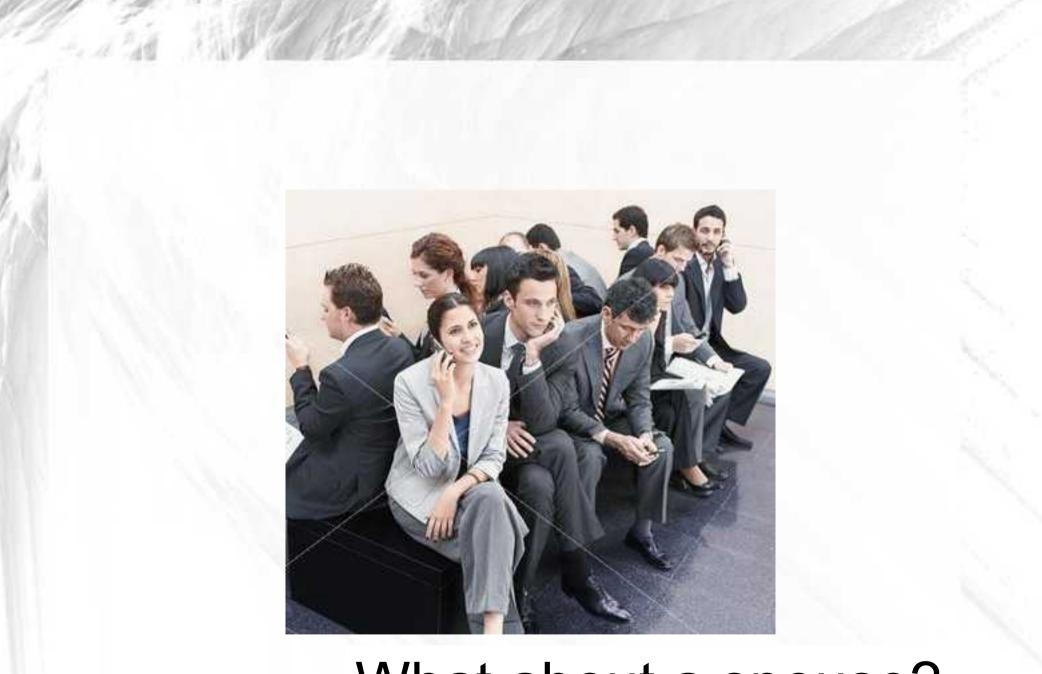




# Who here doesn't use Social Networking, Geotags, or smartphones?

# Do you have kids?





# What about a spouse?

CLOSE WINDON

#### TIMESONLINE

PRINT THIS PAGE

#### From Times Online

July 5, 2009

#### Wife blows MI6 chief's cover on Facebook

#### Nadia Gilani

The wife of the new head of MI6 has caused a major security breach and left his family exposed after publishing photographs and personal details on Facebook.

Sir John Sawers is due to take over as chief of the Secret Intelligence Service in November, putting him in charge of all of Britain's spying operations abroad.

But entries by his wife Shelley on the social networking site have exposed potentially compromising details about where they live and work, their friends' identities and where they spend their holidays. On the day her husband was appointed she congratulated him on the site using his codename "C".

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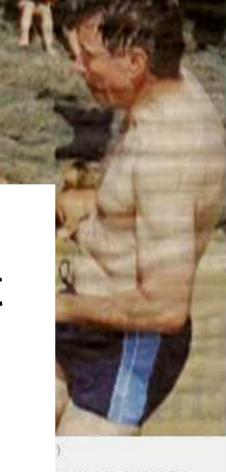
July 2009

chara England's MI6 chief's wife post him la Once

sensitive info on Facebook

 Family, friends, and national security at risk





Sawer on the beach in e family photos

Unintentional Information Disclosure of Sensitive Personal Information Might Come from Those Closest To You

### Are SocNets Evil?

- There are dozens of location-aware social networking services
- There are hundreds of social-networking sites
- · Yes it's nice to stay in touch with friends and family
- But, Understand your role:

### Are SocNets Evil?

- There are dozens of location-aware social networking services
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- But, Understand your role:

You are the **product NOT** the customer

## Don't Live Life in Fear, but...

- Keep Private Information, Private
- Minimize Your Threat Surface
- Evaluate Risks
- Have a Backup Plan (What happens if...?)
- Be Educated
- Be AWARE

### Take Your Work Home With You!

Defend yourself from becoming a victim/statistic

Protect your assets (this includes information)

InfoSec Best-Practice applies just as easily at home as in the office... or the battlefield

Presenter: Sean Wilkerson Aplura, LLC swilkerson@aplura.com Twitter @sdwilkerson