

Anonymous vs. Aaron Barr

A Postmortem Study

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Our story begins...



Who is Anonymous?

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Cyberactivists warned of arrest

By Joseph Menn in San Francisco
Published: February 4 2011 23:23 | Last updated: February 5 2011 00:40

An international investigation into cyberactivists who attacked businesses hostile to WikiLeaks is likely to yield arrests of senior members of the group after they left clues to their real identities on Facebook and in other electronic communications, it is claimed.

Supporters of the internet group – known as Anonymous, which gained wide attention after it co-ordinated attacks that crashed the websites of some businesses that had broken ties with **WikiLeaks** – have continued to ambush high-profile targets, recently forcing government sites in Egypt and Tunisia to close.

However, a senior US member of Anonymous, using the online nickname Owen and evidently living in New York, appears to be one of those targeted in recent legal investigations, according to online communications uncovered by a private security researcher.

EDITOR'S CHOICE

Credit card fraud at 10-year low - Mar-09

US probes Anonymous plans for attack on marines - Mar-08

Cyber attackers target G20 documents - Mar-07

Opinion: Stuxnet was about

STATE OF THE UK ECONOMY

Part two of this new series examines how companies in the UK are coping with the threat of a double-dip recession and explores how they are becoming increasingly entrepreneurial.

Kicking the hornet's nest.



February 5 at 11:31pm Report

Our. J Cash has 28 friends...

Yes, very interesting. My methods will have even greater effect if internet access is suddenly restricted... just sayin'.



Julian Goodspeak February 5 at 11:33pm

yeah I have no power or interest in that. You can't trust me...I get it. But look at my twitter account @aaronbarr. I have been focused and talking about social media security for a long time. I am far from anonymous.



February 5 at 11:35pm Report

All the 'you'll know when' actions, many with no papertrail and arranged many years ago, will take effect and be executed, assuming...

Well, Just read the last chapter of Sun Tzu.

Now you've done it.

rootkit.com cleartext passwords

On February 6, 2011, as part of their [attack on HBGary](#), the Anonymous group [social engineered](#) administrator of rootkit.com, Jussi Jaakonaho, to gain root access to rootkit.com. The entire MySQL database backup was then released by Anonymous and announced using HBGary's CEO Twitter account, [@aaronbarr](#): *Sup, here's rootkit.com MySQL Backup http://stfu.cc/rootkit_com_mysqlbackup_02_06_11.gz #hbgary #rootkit #anonymous*. The table below is the list of accounts found in rootkit.com MySQL database backup with passwords in cleartext.

[JtR](#) is used to translate the password to cleartext_password. Most of the passwords were successfully acquired by feeding a [password dictionary](#) (17.5MB) to JtR and the rest are being acquired by using JtR incremental mode. Among the passwords found at rootkit.com, the following are the 10 most used passwords:

Rank	Password	Accounts
1	123456	1023
2	password	392
3	rootkit	341
4	111111	190
5	12345678	181
6	qwerty	175
7	123456789	170

Anonymous has some fun.

HBGary Email Viewer

greg@hbgary.com

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Jump list

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Sender	Subject	Date	Attachments
"John Zee" <zee@aolmail.net>	#> Can You Suggest A Chief Technology Officer? NW Security (LAX)		1
Justi Jaakonaho <justi.jaakonaho@gmail.com>	#> Re: need to ssh into rosbil	Sun Feb 6 2011 20:15:54	
Aaron Barr <aaron@hbgary.com>	#> Re: Google Alert - HBGary	Sun Feb 6 2011 20:06:11	
Martin Pitten <pitten@gmail.com>	#> Aaron's story has hit slashdot and yahoo...	Sun Feb 6 2011 19:31:41	
Karen Burke <karenmaryburke@yahoo.com>	#> Fw: Google Alert - HBGary	Sun Feb 6 2011 19:02:42	
Karen Burke <karenmaryburke@yahoo.com>	#> Slashdot Coverage	Sun Feb 6 2011 19:01:39	
Karen Burke <karen@hbgary.com>	#> Re: RSAC 2011 Podcast HT1-402 - Follow the Digital Trail Using Forensics to Identify Attackers and Malware Authors	Sun Feb 6 2011 17:57:35	
HBGary Inc <support@hbgary.com>	#> HBGary() Password Lost/Changed	Sun Feb 6 2011 17:56:17	
"Penny Leavy-Hoglund" <penny@hbgary.com>	#> Some Stories	Sun Feb 6 2011 17:45:08	
<Stuart_McClure@McAfee.com>	#> RE: iShot	Sun Feb 6 2011 17:08:12	
Karen Burke <karenmaryburke@yahoo.com>	#> Fw: Google Alert - HBGARY	Sun Feb 6 2011 16:54:50	
"Penny Leavy-Hoglund" <penny@hbgary.com>	#> RE: Now we are being directly threatened.	Sun Feb 6 2011 16:51:35	
Aaron Barr <aaron@hbgary.com>	#> Now we are being directly threatened.	Sun Feb 6 2011 16:25:28	1
Karen Burke <karen@hbgary.com>	#> Attachments	Sun Feb 6 2011 15:57:28	
Karen Burke <karen@hbgary.com>	#> Re: Final - for me.	Sun Feb 6 2011 15:53:14	

9GB of internal email made public.



Information Operations Recommendation

Subject: US Chamber Watch Information
Operations Recommendation

Date: November 29, 2010

Summary

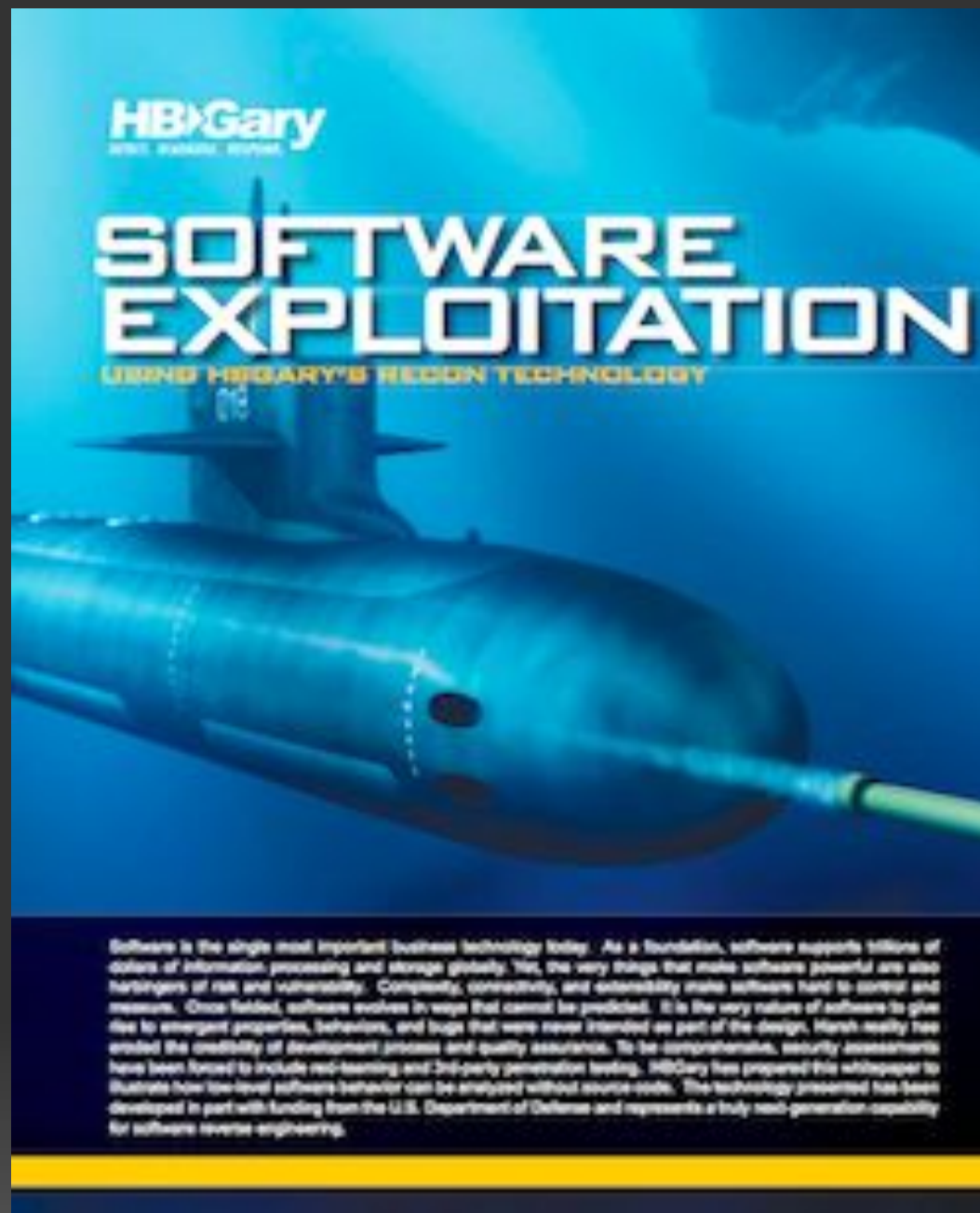
US Chamber Watch is one of the most active members of the opposition to the US Chamber of Commerce (CoC). Unlike some groups, members of this organization are politically connected and well established, making the US Chamber Watch vulnerable to information operations that could embarrass the organization and those associated with it.

Details

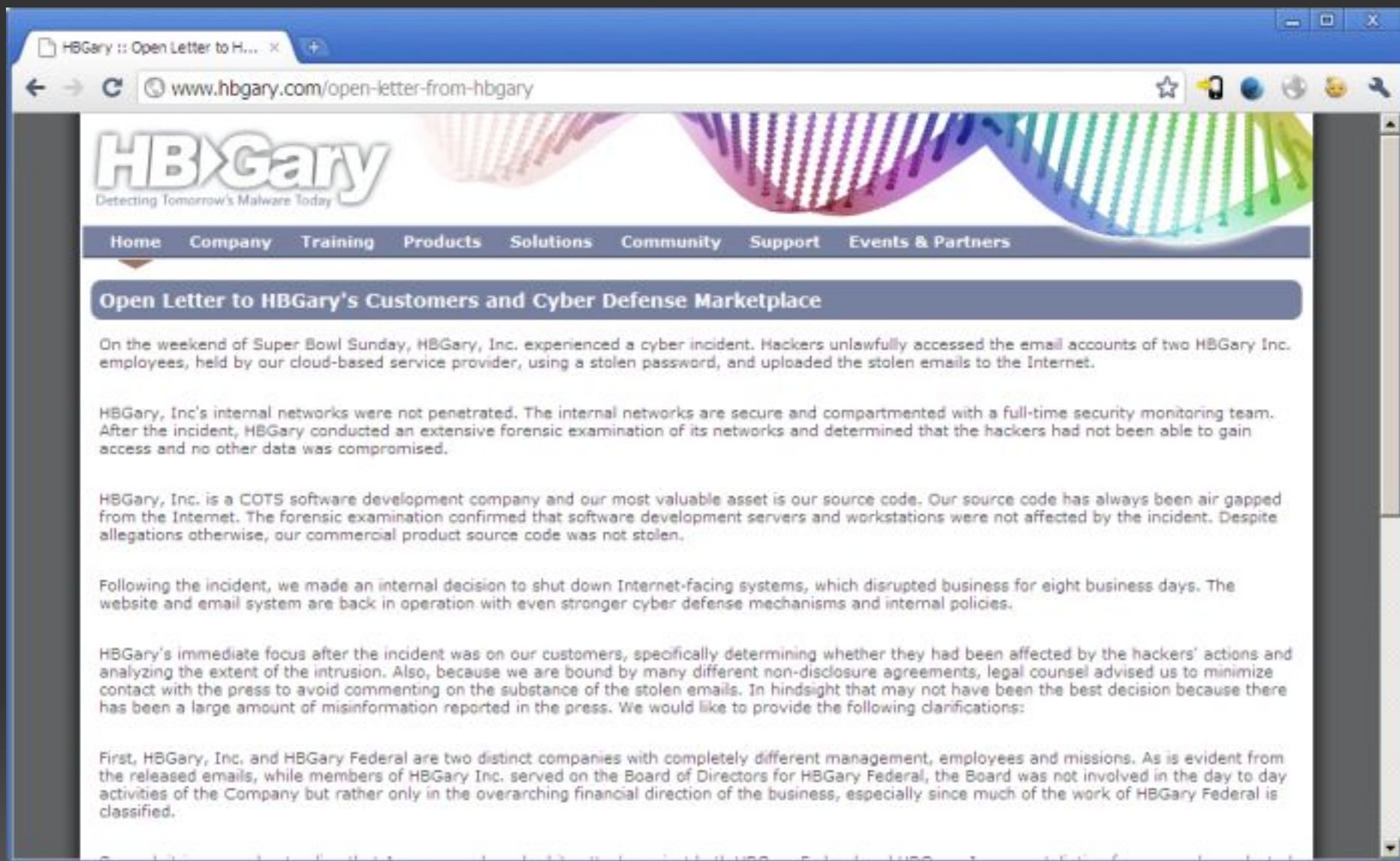
US Chamber Watch is well connected politically, evidenced by the established relationship between CtW and Andy Stern, and is associated with many powerful DC operatives behind the scenes. The organization typically does not use theatrical performances or overt gestures. The people in this case are less important than the organization. Therefore we need to discredit the organization through the following.

1. Paint US Chamber Watch as an operative of CtW and the unions, while at the same time highlighting the organization of the unions against the chamber. We should show also the flow of members from unions to CtW as well as the closeness of CtW and US Chamber Watch.
2. Craft a message to combat the messaging propaganda of US Chamber Watch. For example, target how the unions are being an inhibitor to progress by advocating for unrealistic individual benefits, while the Chamber continues its focus on job creation through innovation in order to showcase how the US economy prospers in the global economy. Packaged in the right mediums, such an operation can prove to be powerful.
3. Create a false document, perhaps highlighting periodical financial information, and monitor to see if US Chamber Watch acquires it. Afterward, present explicit evidence proving that such transactions never occurred. Also, create a fake insider persona and generate communications with CtW. Afterward, release the actual documents at a specified time and explain the activity as a CtW contrived operation. Both instances will prove that US Chamber Watch cannot be trusted with information and/or tell the truth.

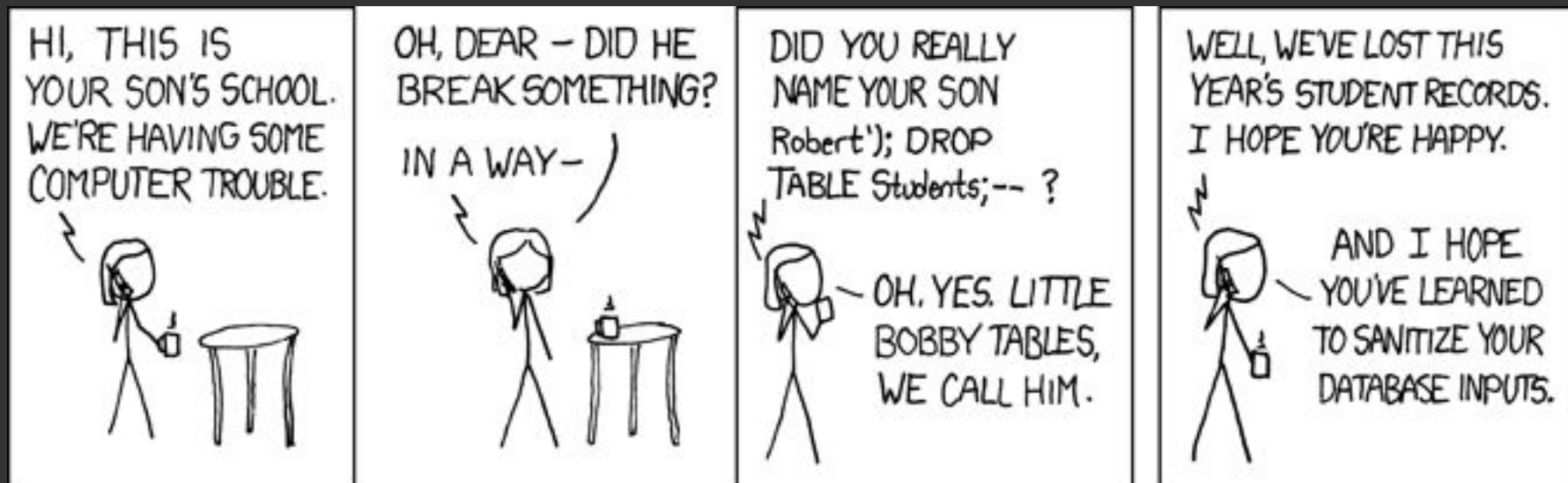
Team Themis' campaign.



Custom rootkits for sale.



Kablooney



How did they break in?
Step 1: SQL Injection



Common Vulnerabilities and Exposures

The Standard for Information Security Vulnerability Names

TOTAL CVEs: **45799**

HOME > CVE > CVE-2010-3847 (UNDER REVIEW)

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CVE-2010-3847

(under review)

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Description

elf/dl-load.c in ld.so in the GNU C Library (aka glibc or libc6) through 2.11.2, and 2.12.x through 2.12.1, does not properly handle a value of \$ORIGIN for the LD_AUDIT environment variable, which allows local users to gain privileges via a crafted dynamic shared object (DSO) located in an arbitrary directory.

References

Note: [References](#) are provided for the convenience of the reader to help distinguish between vulnerabilities. The list is not intended to be complete.

- BUGTRAQ:20110105 VMSA-2011-0001 VMware ESX third party updates for Service Console packages glibc, sudo, and openldap
- URL:<http://www.securityfocus.com/archive/1/archive/1/515545/100/0/threaded>
- FULLDISC:20101018 The GNU C library dynamic linker expands \$ORIGIN in setuid library search path

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ITEMS OF INTEREST

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Step 2: Shared credentials & privilege escalation



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Learn about Google Apps administration

Step 3: Shared credentials & email harvesting

From: Greg
To: Jussi
Subject: need to ssh into rootkit
im in europe and need to ssh into the server. can you drop open up
firewall and allow ssh through port 59022 or something vague?
and is our root password still 88j4bb3rw0cky88 or did we change to
88Scr3am3r88 ?
thanks

From: Jussi
To: Greg
Subject: Re: need to ssh into rootkit
hi, do you have public ip? or should i just drop fw?
and it is w0cky - tho no remote root access allowed

From: Greg
To: Jussi
Subject: Re: need to ssh into rootkit
no i dont have the public ip with me at the moment because im ready
for a small meeting and im in a rush.
if anything just reset my password to changeme123 and give me public
ip and ill ssh in and reset my pw.

From: Jussi
To: Greg
Subject: Re: need to ssh into rootkit
ok,
it should now accept from anywhere to 47152 as ssh. i am doing
testing so that it works for sure.
your password is changeme123

Step 4: Social Engineering



aaronbarr

Today we taught everyone a lesson.
When we actually decide to bite back
against those who try to bring us
down, we bite back hard. [#gameover](#)

23 minutes ago via web

<http://vocaroo.com/?media=vY7n2sXJaoPZVTHGq> Aaron's new
resumé amirite [#hurrhurr](#)

about 1 hour ago via web

Spot the edit: <http://www.linkedin.com/in/tedvera> you Ted
Vera, you're not getting away either! Nom nom nom, who's next?
Penny? [#hbgary](#)

about 1 hour ago via web

Here's my address: [REDACTED]

about 1 hour ago via web

Here's my social security number: [REDACTED]

about 1 hour ago via web

Step 5: Shared credentials & social networking

So what have we learned?



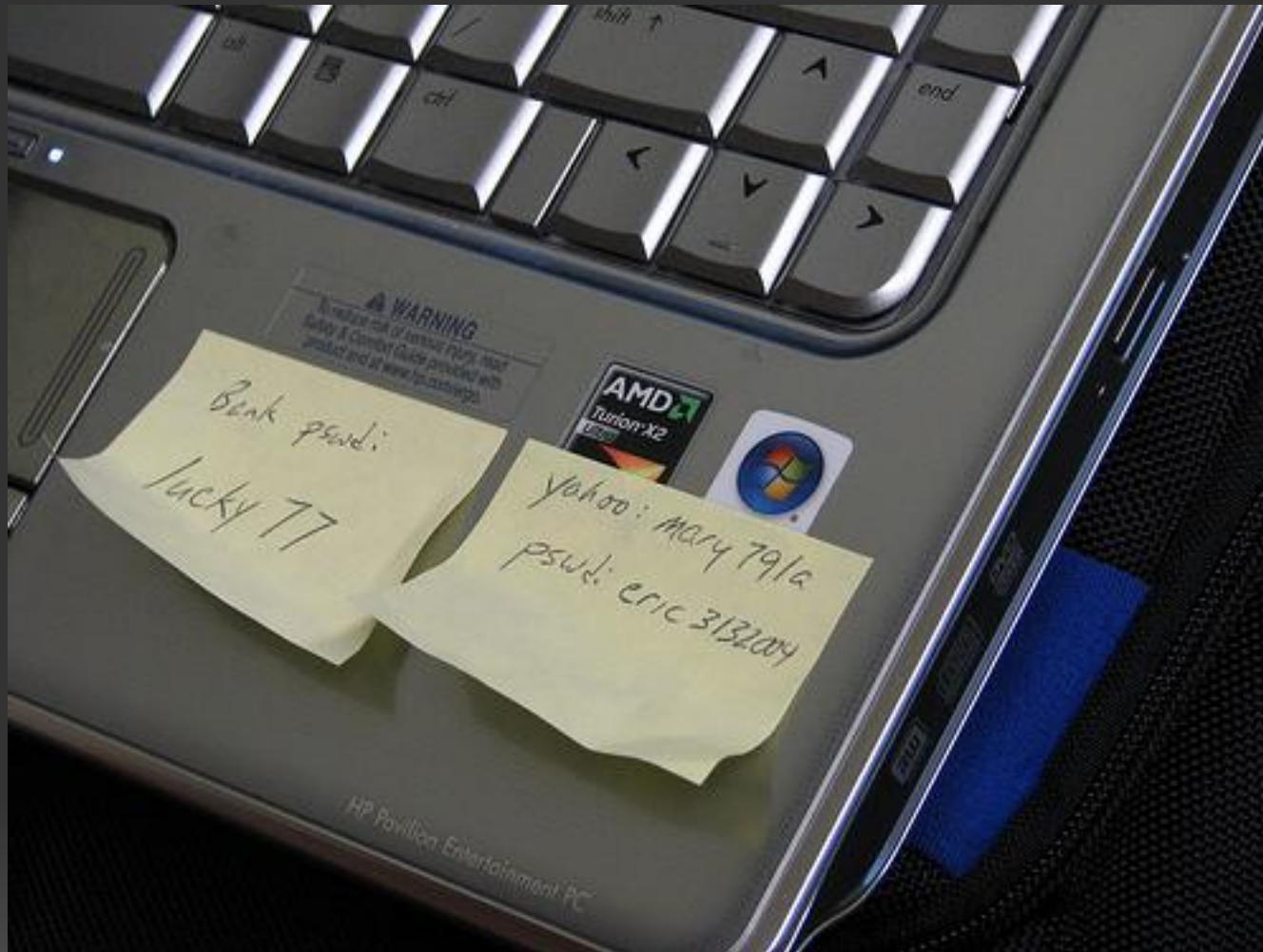
The Internet is still the wild west.



Be careful with your security research.



Develop your organization's security program.



NEVER use shared credentials!

From:	Greg Hoglund <greg@hbgary.com>
To:	John Verducci <john@studioem.com>, "Penny C. Hoglund" <penny@hbgary.com>, Aaron Barr <aaron@hbgary.com>, Karen Burke <karen@hbgary.com>
Date:	Wed, 29 Sep 2010 23:08:44 -0700
Subject:	viral marketing idea involving rap
click here to show full headers	
Attachments:	This e-mail does not have any attachments.
<p>Team,</p> <p>Please watch this video. It has the F word be warned. http://www.youtube.com/watch?v=VgvM7av1o1Q</p> <p>This is CCP. They are a customer of HBGary's. They are a game company, which might explain their off-the-wall antics.</p> <p>I watch this and imagine our people at HBGary talking shit about Chinese Hackers and how Mandiant can't touch us. And yes, we use their First Name. Guidance too.</p> <p>Maybe too bold, but I can't help but think the Jim's and Jeffrey's of the world would watch this and think "Holy Shit HBGary is Core". They would. And it would be viral. I can't help but think this would translate into more sales.</p> <p>Can we organize a music video like this? Is this too left-field for a "security company". Why not - we are on the frontier - we are on the edge?</p> <p>Can we have something like this developed for less than \$20,000 ?? Is this just a dumb idea?</p> <p>-Greg</p> <p>ps. here is their outtake video - give you an idea how this was a real production (http://www.youtube.com/watch?v=g9E-iTpJ3U8)</p>	

Know what's in your email.



BEHIND CLOUDS

Satan Hides

Be careful with cloud services.



Derek

If you're gonna text in the bathroom, at least turn your volume down. It's bad enough I have to poop in a public restroom, I don't need to hear "beep, beep, beep beep."



41 minutes ago via Mobile Web · Like · Comment



Jesse

Are you sure it wasn't a robot taking a dump?

34 minutes ago · Like



Derek

Robots don't do number 2, only 0 and 1.

32 minutes ago · Unlike · 👍 2 people

Know your public exposure.

Questions?

justin.hall@cbts.cinbell.com