



Real Crimes in a Virtual World

**Don Brackman, Director
NW3C**

Let Me Google That!

**1998
searches**

3,600,000

**2013
searches**

2,161,530,000,000

Let me
Google[™]
that for you

Living in a High-Tech World

- ▶ Nearly 3 billion Internet users worldwide (40% of world population)
- ▶ In the United States, 87% connect to the Internet
 - 81% use computers; 68% use mobile devices
 - 91% of adults & 78% of teens own cell phones
 - 64% of adults & 77% of teens use social media

Living in a High-Tech World

- ▶ 294 billion emails a day
- ▶ 16 billion text messages a day
 - 90% are read within 3 minutes of delivery
- ▶ 644 million websites
- ▶ 1 in 14 couples met online
- ▶ Two-thirds of all Internet users are on social media

Social Media



1 billion active users



4 billion daily views



500 million daily tweets



200 million users

Looking Ahead

In 2018, there will be . . .

- ▶ Over 300 million Internet users in the U.S.
- ▶ Over half of all IP traffic from non-PC devices
- ▶ 11 times more mobile data traffic than in 2013

Cybercrime

A crime involving the use of the Internet

- ▶ Identity theft
- ▶ Email scams
- ▶ Virus distribution
- ▶ Cyberbullying and cyberstalking
- ▶ Phishing
- ▶ Child exploitation
- ▶ Network intrusions

Why Cybercrime?

- ▶ Anonymity
- ▶ Virtually unlimited victim pool
- ▶ Less effort for the offender
- ▶ Little or no regulation
- ▶ Evidence collection challenges

A Global Problem

- ▶ Cybercrime is costly for organizations
- ▶ Cybercrime impacts *all* industries
 - Data breaches exposed over 552 million identities in 2013
 - Mobile cybercrime has affected 38% of mobile users in the last year
 - 1 in 392 emails contains a phishing attack

2014 Global Report on the Cost of Cyber Crime
Ponemon Institute LLC, sponsored by HP Enterprise Security

2014: “The Year of the Breach”

**HOME
DEPOT
HACKED**
56 MILLION CUSTOMER
CREDIT & DEBIT CARD
DATA EXPOSED



Who's Next?

State Governments under Attack

SJ Statesman Journal
A GANNETT COMPANY

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850,000 records hacked at Oregon Employment Department

Hannah Hoffman, Statesman Journal 5:24 a.m. PDT October 14, 2014

483



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ROB McCORD, TREASURER

California DMV reports possible breach of credit card data

David R. Baker Updated 11:24 pm, Sunday, March 23, 2014

Health system that runs 11 Alabama hospitals hacked, compromised info on 4 million patients

Posted: Aug 18, 2014 12:38 PM EDT
Updated: Aug 25, 2014 12:38 PM EDT

By Amber Roberson



Community Health System's SEC Filing
Community Health Systems

BIRMINGHAM, AL - Hospital operator Community Health Systems says it was hit by a cyber attack earlier this year.

The company says it took information on more than 4 million patients sometime between April and June. Hackers did not take medical or credit card records – but they did get names, addresses, birthdates, phone and social security numbers.

The information came from patients who were referred to or received care from doctors tied to the company over the past five years.

Community Health Systems Inc. says it is notifying patients affected by the attack and offering them identity theft protection services.



**“That’s Where
the Money is...”**

— *Willie Sutton*

Be Proactive

- ▶ Invest in resources
- ▶ Policy and procedure
 - Terms of use
 - Internet use
 - Social media
 - Disaster recovery
- ▶ Educate your staff
- ▶ Have a contingency plan

Where Do You Log In?



POTENTIALLY RISKY BEHAVIOR ON UNSECURED WI-FI



56% ACCESS
THEIR SOCIAL
NETWORK ACCOUNT

54% ACCESS
PERSONAL E-MAIL



29% ACCESS
THEIR BANK ACCOUNT

29% SHOP ONLINE



3/10 DO NOT
ALWAYS LOG OFF AFTER
HAVING USED A PUBLIC
WI-FI CONNECTION

39% DO NOT TAKE
ANY SPECIAL STEPS TO
PROTECT THEMSELVES
WHEN USING PUBLIC WI-FI

Protect Yourself

- ▶ Use secure networks
- ▶ Create strong passwords
- ▶ Don't (necessarily) open that!
- ▶ Log off

NW3C Training

1998

Basic Data Recovery and Acquisition (BDRA)

2014

33 Financial and Cybercrime classes
14 online courses

www.nw3c.org/training



Thank You

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