Attacks and Defenses in the Cyber Landscape

Who are the cyber attackers?

Who are the cyber attackers?

- Nation State
- Cyber Criminal Groups
- Script Kiddies

Who are the cyber attackers?

- Nation St
- Cyber Cri
- Script Kid

CYBERSECURITY

TECH | MOBILE | SOCIAL MEDIA | ENTERPRISE | CYBERSECURITY | TECH GUIDE

In India-Pakistan conflict, there's a long-simmering online war, and some very good hackers on both sides

- A longstanding conflict between India and Pakistan escalated Wednesday when the countries said they carried out airstrikes against one another.
- Experts have long warned about a two-decade long cyber rivalry that has also continually escalated into the present day.
- India and Pakistan have carried out increasing cyberattacks against one another.
- The conflict has also been plagued by the rapid spread of inflammatory rumors on Facebook and messaging services, some of which have escalated into real hands-on fighting.

W

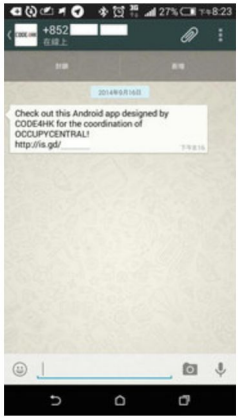
Inbox
https://inbox.google.com

The New York Times

TECHNOLOGY

Protesters in Hong Kong Are Targets of Scrutiny Through Their Phones

By PAUL MOZUR OCT. 1, 2014



An example of a phishing message delivered to Whatsapp users in Hong Kong.

HONG KONG — As tens of thousands of protesters in Hong Kong continued to shut down the city's main arteries on Wednesday in a call for democracy, a quieter struggle was playing out to monitor the demonstrations online.

The most recent salvo came to light on Tuesday, when Lacoon Mobile Security said that it had tracked the spread of a fake mobile application aimed at eavesdropping on protesters' communications. In what is known as a phishing attack, smartphone users in Hong Kong have been receiving a link on WhatsApp to download the software, along with a note: "Check out this Android app designed by Code4HK for the coordination of OCCUPY CENTRAL!"

hands-on fighting.

RELATED COVERAGE

MACHINE LEARNING
Mobile Malware: Small Numbers, but Growing OCT. 1, 2014

SINOSPHERE BLOG
Message for Beijing Hidden in a Hong Kong Street Poem OCT. 1, 2014

Hong Kong Government's Strategy on Protesters: Wait Them Out OCT. 1, 2014

SINOSPHERE BLOG
To Beat China Censorship, Hong Kong Protesters Flock to Off-Grid Messaging App
SEPT. 29, 2014

W

Inbox
https://inbox.google.com

The New York Times

SUBSCRIBE N

TECHNOLOGY

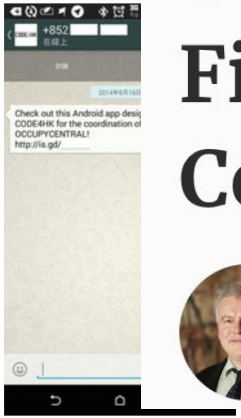
Proteste

By PAUL MOZUR O

867 views | Feb 26, 2019, 12:10pm

Cybercrime & Hackers 'More Devastating' To SMB's Than Fire, Flood & Transit Strike Combined

Roger Aitken Contributor ⓘ
Markets



An example of a phishing message delivered to Whatsapp users in Hong Kong.

Android app designed by Code4HK for the coordination of OCCUPY CENTRAL!"

hands-on fighting.

SINOSPHERE BLOG

To Beat China Censorship, Hong Kong Protesters Flock to Off-Grid Messaging App

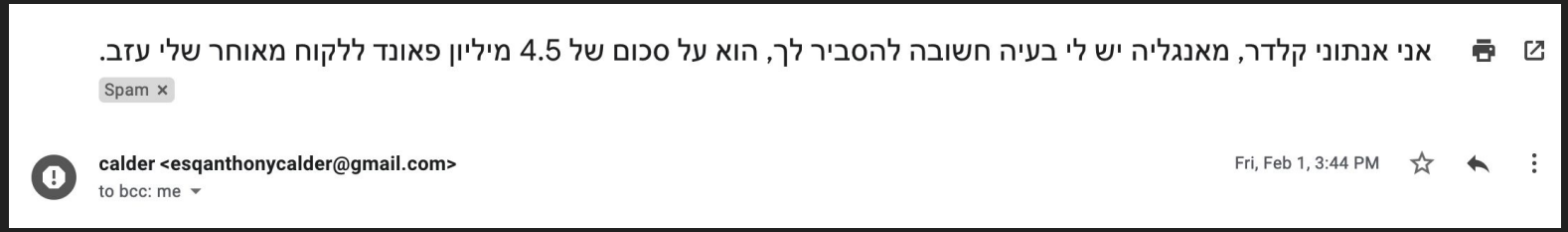
SEPT. 29, 2014

Cyber Attacks - The Basics

- Social Engineering
- Exploits

Cyber Attacks - The Basics

- Social Engineering
- Exploits

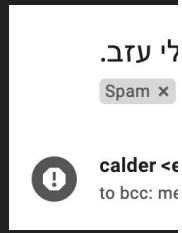


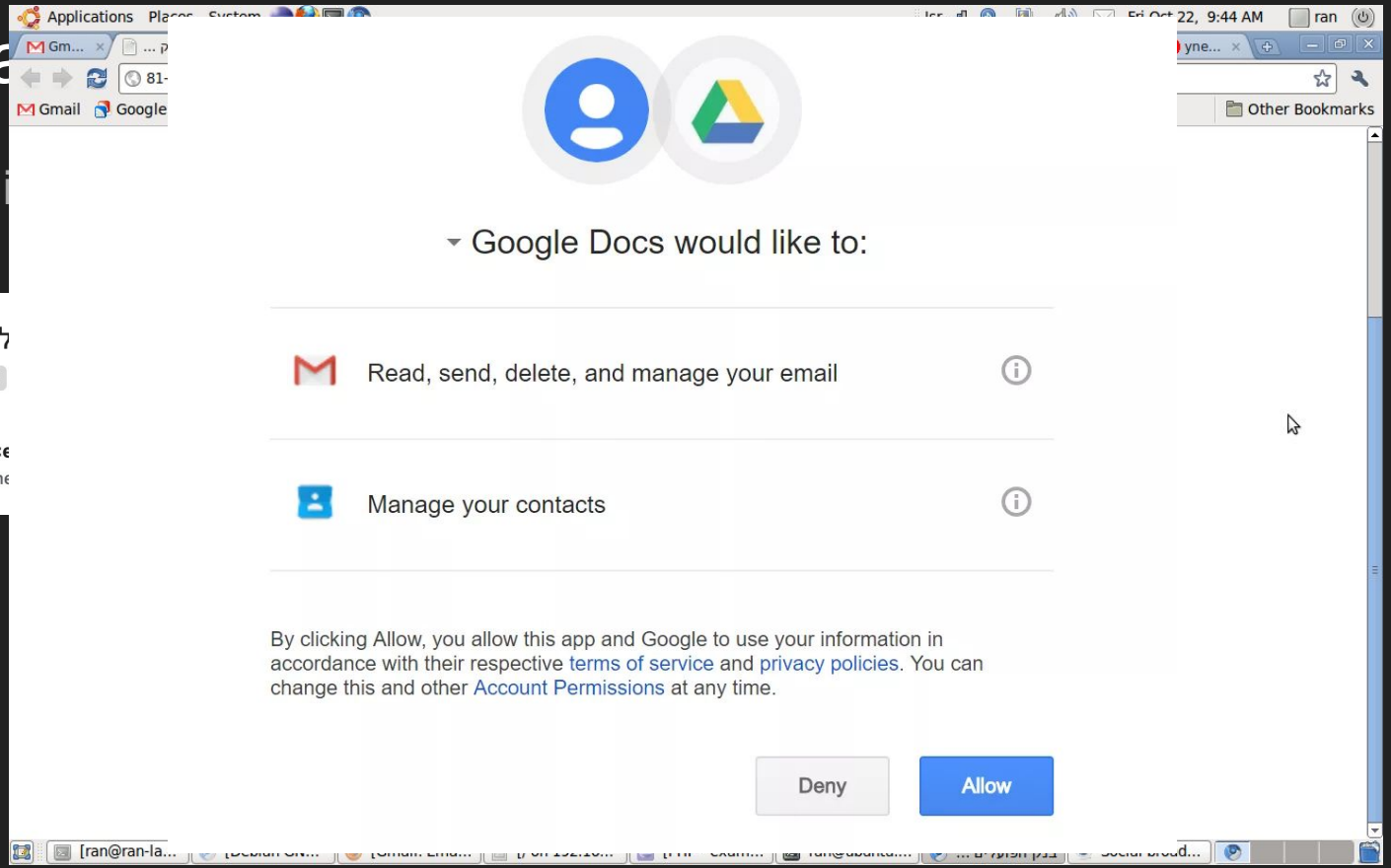
Cyber Atta

- Social Engi
- Exploits

Cyber Atta

- Social Engi
- Exploits



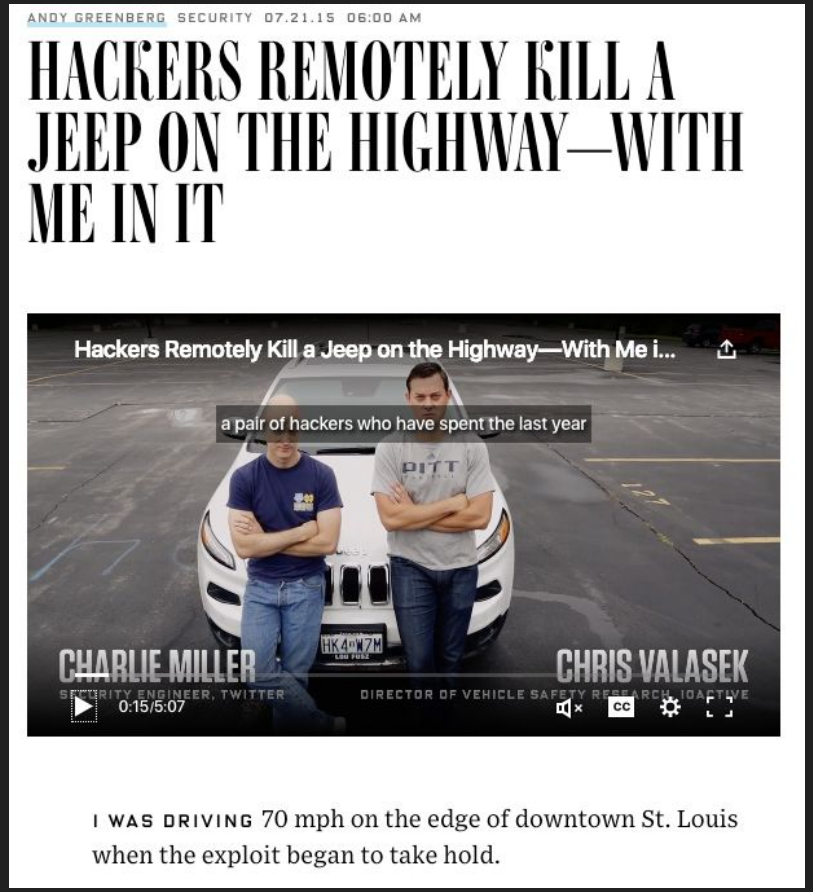


Cyber Attacks - The Basics

- Social Engineering
- Exploits
  - Clickless
  - With social engineering

Cyber Attacks - The Basics

- Social Engineering
- Exploits
  - Clickless
  - With social engineering



ANDY GREENBERG SECURITY 07.21.15 06:00 AM

HACKERS REMOTELY KILL A JEEP ON THE HIGHWAY—WITH ME IN IT

I WAS DRIVING 70 mph on the edge of downtown St. Louis when the exploit began to take hold.

Cyber Attacks - The Basics

- Social Engineering
- Exploits
  - Clickless
  - With social engineering

ANDY GREENBERG SECURITY 07.21.15 06:00 AM

UK bank falls victim to SS7 attacks, allowing cybercriminals to drain accounts and reminding us why SMS two-factor authentication sucks

26

Jason Hahn
Feb 3, 2019

G+ 147 92
Total Shares 239

NEWS

I WAS DRIVING 70 mph on the edge of downtown St. Louis when the exploit began to take hold.

Cyber Attacks - What do They Want?

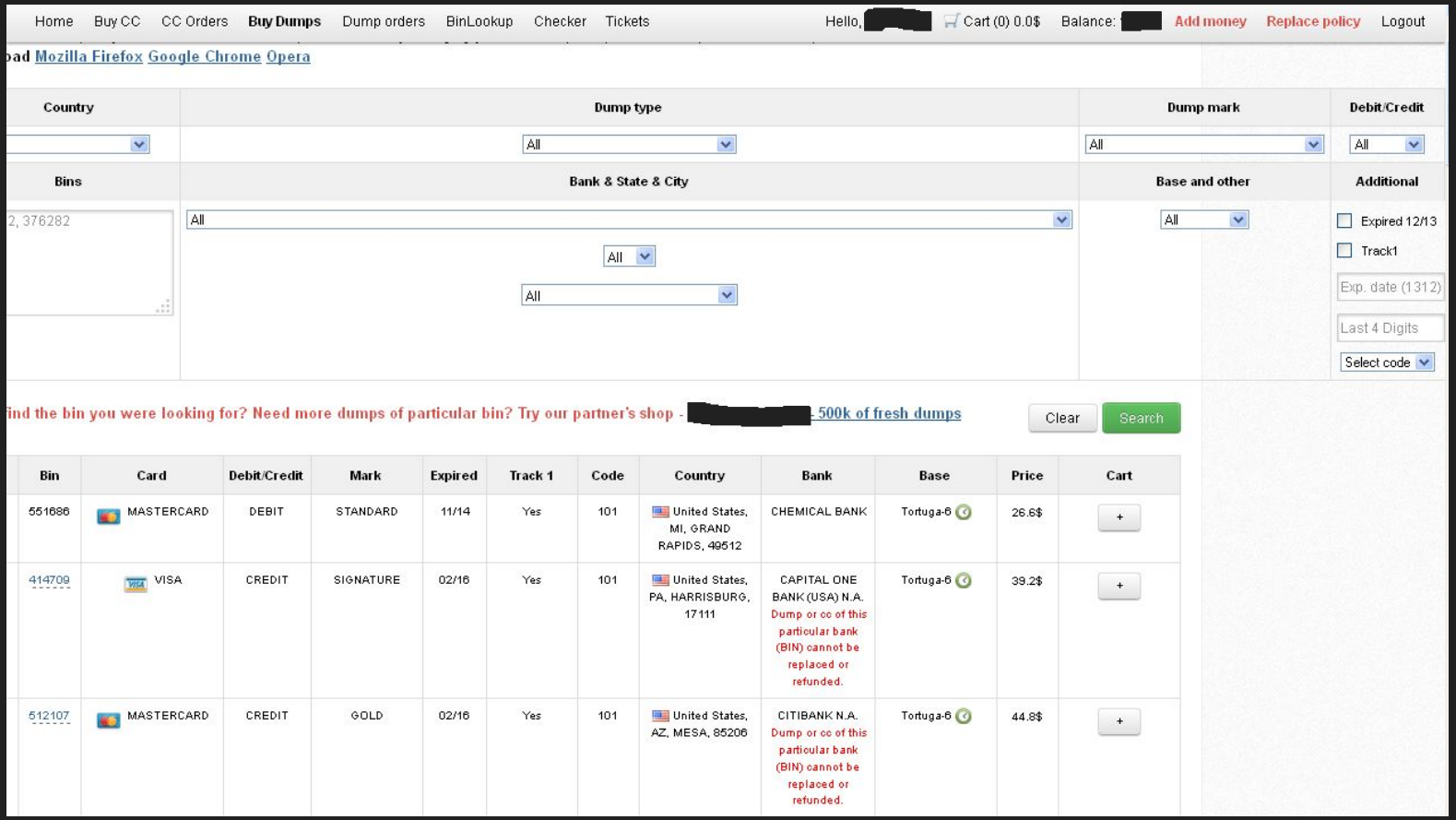
- Money
- Data
- Resources

Ransomware

- Financial Impact (2017)
  - Paid ransom - $25M
  - Indirect damage - $5 Billion

Target Breach - Overview

- Discovered in December 2013
  - Target announced that it had been breached by attackers
- 70M customers PIIs were stolen
- 40M credit cards were stolen


Home Buy CC CC Orders Buy Dumps Dump orders BinLookup Checker Tickets
Hello, [redacted] Cart (0) 0.0$ Balance: [redacted] Add money Replace policy Logout
oad Mozilla Firefox Google Chrome Opera
Country
Dump type
Dump mark
Debit/Credit
All
All
All
Bins
Bank & State & City
Base and other
Additional
2, 376282
All
All
All
All
Expired 12/13
Track1
Exp. date (1312)
Last 4 Digits
Select code
ind the bin you were looking for? Need more dumps of particular bin? Try our partner's shop - [redacted] - 500k of fresh dumps
Clear
Search
Bin
Card
Debit/Credit
Mark
Expired
Track 1
Code
Country
Bank
Base
Price
Cart
551686
MASTERCARD
DEBIT
STANDARD
11/14
Yes
101
United States, MI, GRAND RAPIDS, 49512
CHEMICAL BANK
Tortuga-6
26.6$
+
414709
VISA
CREDIT
SIGNATURE
02/16
Yes
101
United States, PA, HARRISBURG, 17111
CAPITAL ONE BANK (USA) N.A.
Dump or cc of this particular bank (BIN) cannot be replaced or refunded.
Tortuga-6
39.2$
+
512107
MASTERCARD
CREDIT
GOLD
02/16
Yes
101
United States, AZ, MESA, 85206
CITIBANK N.A.
Dump or cc of this particular bank (BIN) cannot be replaced or refunded.
Tortuga-6
44.8$
+

Monetization

- Credit card data was sold in the underground market
- Range in price from $26.60 to $44.80 to each card number
- Hackers sold between 1-3 millions cards, profiting around $53M dollars

Aftermath

- Direct financial damages to reported by Target are $252 million
- In March, 2014, Target's CIO, Beth Jacob, resigned
- In May, 2014, Gregg Steinhafel, Target’s CEO resigned
- In the fourth quarter of 2013, Target’s profits dropped 46% compared with the year before
- Estimated dollar cost to credit unions and community banks for reissuing 21.8 million cards stolen in the Target breach is 100$ million

Botnets


CNN BUSINESS
Markets Tech Media Success Perspectives Video
Massive cyberattack turned ordinary devices into weapons
by Samuel Burke @CNNTech
October 22, 2016: 10:37 AM ET
Recommend 0

Smartphones - Why Are They Interesting?

- Sensors
- Data
  - Contain personal information
  - Have access to organizational data
  - Bring Your Own Device (BYOD)

מייסדי NSO רוכשים את השליטה בחברה לפי שווי של 800 מיליון דולר

שלו חוליו ועמרי לביא, בשיתוף הקרן האירופית נובלפינה, רוכשים את השליטה בחברת הסייבר הישראלית מקרן פרנסיסקו פרטנרס. חוליו ולביא צפויים להשקיע במהלך כ-100 מיליון דולר

הגר רבט, כלכליסט פורסם: 14.02.19 , 14:55

מייסדי קבוצת NSO, בשיתוף נובלפינה - קרן פרייבט אקוויטי אירופית, רוכשים את החברה מידי קרן פרנסיסקו פרטנרס בעלת השליטה. עפ"י הערכות העסקה תתבצע לפי שווי של 800 מיליון דולר.

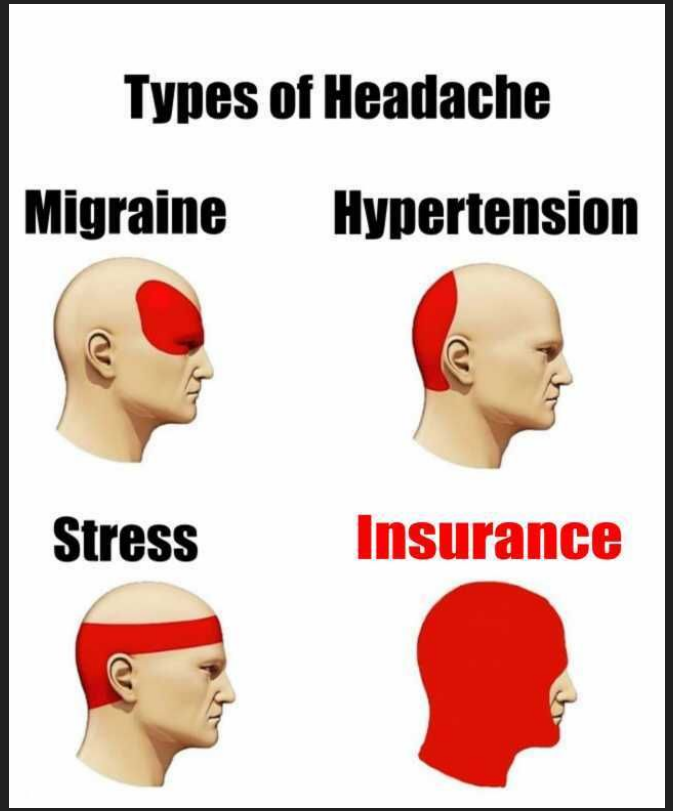
- למ"ס: צניחה במכירת דירות חדשות ב-2018
- נפרדים מהסופר ג'מבו: איירבוס תפסיק לייצר את מטוס ה-A380
- פרסומת להלוואה: בנק ישראל קנס את ישראכרט ב-675 אלף שקל

What can we do?

What can we do?

What are the damages?

- 38% of the businesses breached estimated costs between $1M to $5M+
  - Downtime
  - Records
  - Fines
  - Notification


Types of Headache
Migraine
Hypertension
Stress
Insurance

Thanks!