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WARNING! SECURITY BREACH!

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THE TOTAL STREET

BusinessConnect 2015

A New Way To Work

Stealing Millions and Hungry for More...

Mark Johnston
Executive Security Architect
IBM Security





Agenda

- Recent security threats & impact
- What is the challenge we are up against?
- How we can work together to defeat Cyber Criminals?

© Randy Glasbergen glasbergen.com



"I can't see your future, but I found your bank files, Social Security number and all of your company passwords."

SONY

Hack Most Serious
Cyberattack Yet
on U.S. Interests

CHASE 🗘

76M
Households
Compromised
- Ehe New York Eimes

O TARGET

Hack Costs
Add
Up to \$148M



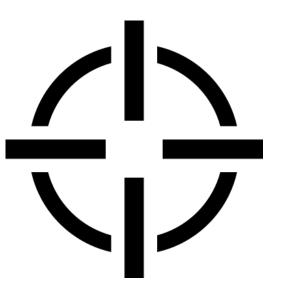
60M Credit Card Numbers Stolen

"There are only two types of companies those that have been hacked, and those that will be"

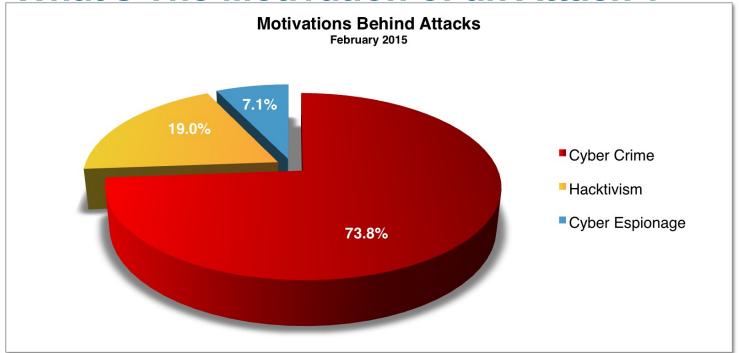
And even they are converging into one category companies that have been hacked and will be hacked again.

Robert Mueller, former Director of the FBI

EVERYONE In This Room Is A TARGET



What's The Motivation of an Attack?



Source: hackmageddon.com

2014 - Advanced Malware is The Weapon of Choice

- From simple RATs to advance malware device takeover was everywhere
- PoS attacks targeted built in remote session solutions
- Citadel's persistent RDP and new targets



By Brian Prince on July 31, 2014





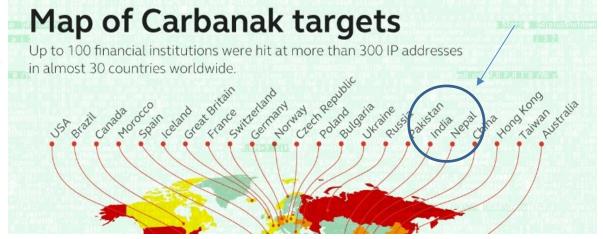
An Example : Heard of Carbanak?



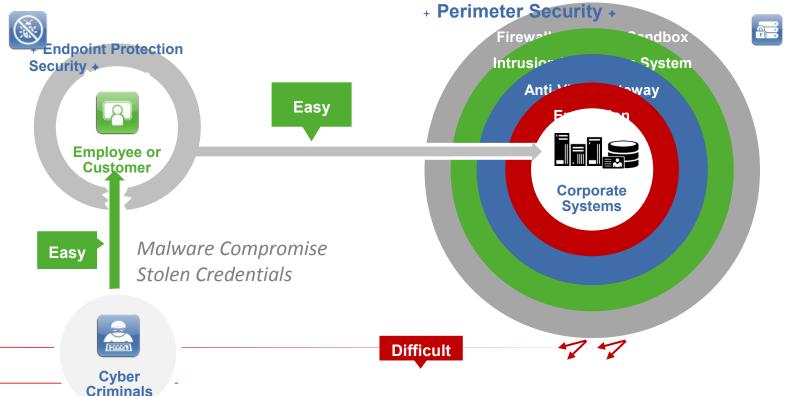
Carbanak: How Would You Have Stopped a \$1 Billion APT Attack?

Kicking off 2015 with a bang, a well-orchestrated advanced persistent...

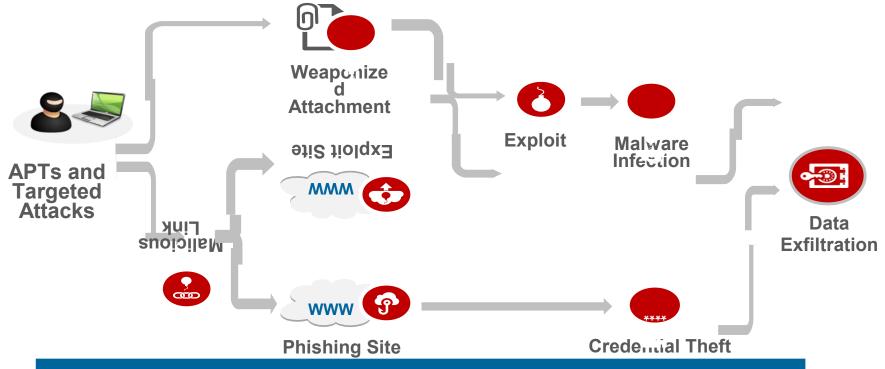
compromising individual online banking sessions with malware, the brazen Carbanak gang targeted banks' internal systems and operations, resulting in a multichannel robbery that averaged \$8 million per bank.



Carbanak - The Path of Least Resistance



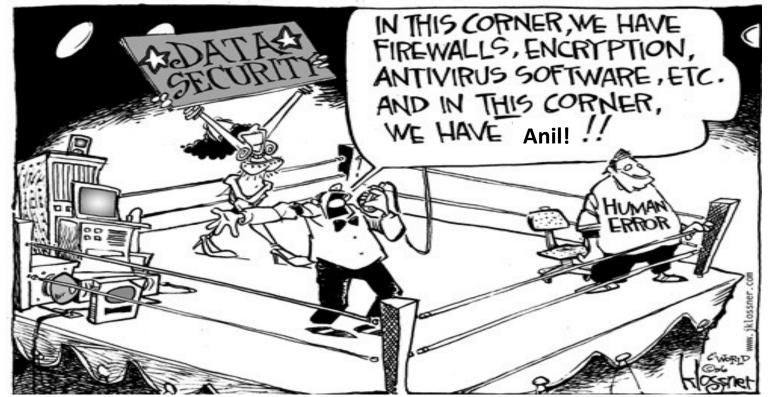
How does Malware get on my devices?



1:500 PCs infected with Advanced Evasive APT malware!

IDIVI ITUSLEEL RESEALCIT

Users will always make mistakes!



Defenses have always been and will always

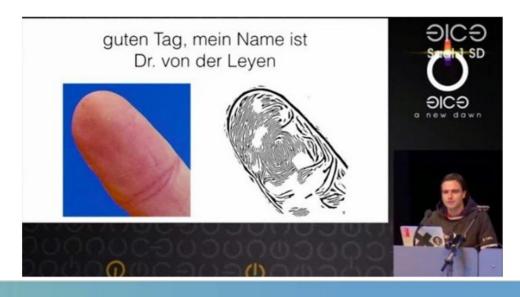
be bypassed

It can be easy to breach biometric authentication as shown in late 2014 by a Hacker

Whatever we use to protect our systems will eventually be attacked.

Hacker Clones German Defense Minister's Fingerprint Using Just her Photos

III Monday, December 29, 2014 🙎 Swati Khandelwal



Can we really fight this?

Advanced Malware DEFEATS

- Anti-Virus
- Multi-factor
 Authentication
- Sandbox Technologies
- Behavioral Anomaly engines
- Humans





What can we do?

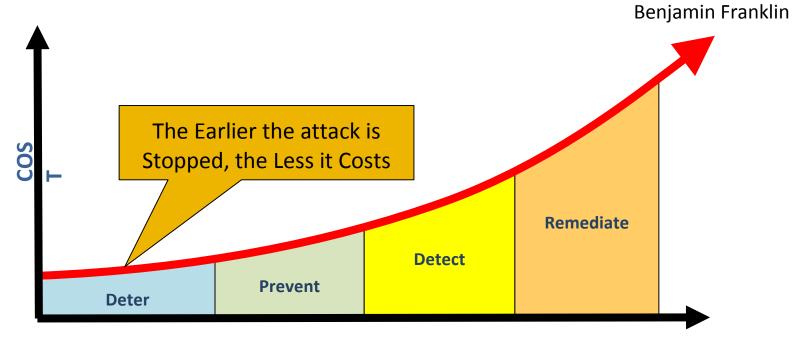
Be prepared Take action **Know your Critical Business Assets**

BusinessConnect 2015



Why you need to act NOW!

"An ounce of prevention is worth a pound of cure."



IBM X-Force Threat Exchange ...

You are part of the SOLUTION



IBM X Force Threat Exchange : A collaborative platform

threats via peer collaboration

- **Connect** with industry peers to validate findings
- **Share** a collection of Indicators of Compromise (IOCs) to aid in forensic investigations

Add context to the state of the **SECURITY INCIDENT ANALYST** RESPONDER **IBM X-Force** Exchange CIS **IBM X**-

FORCE

Current Threat Activity



LEVEL THE PLAYING FIELD

With IBM threat research and X-Force Threat Exchange Monitoring of more than...

23B web pages and images

83K vulnerabilities

8M spam and phishing attacks

860K malicious IP addresses

1,000 malware samples collected

xforce.ibmcloud.com

securityintelligence.com