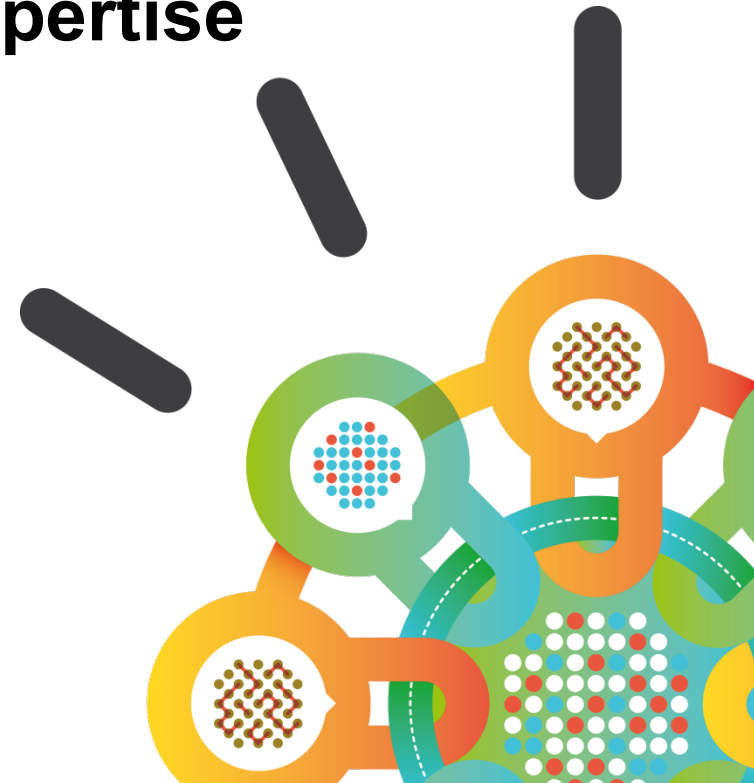


Security Intelligence.  
Think Integrated.

# IBM Security

## Intelligence, Integration and Expertise

IBM Security Systems  
November 2013



# Agenda

- **Welcome and Introductions**
- Latest Security trends and H1 2013 X-Force Report
- Security Intelligence - Understanding your Organizational Security Posture
- Holistic approach to handling Advanced Persistent Threats
- Break
- From Identity & Access Management to Identity Intelligence
- Managing Application Security
- Data Security

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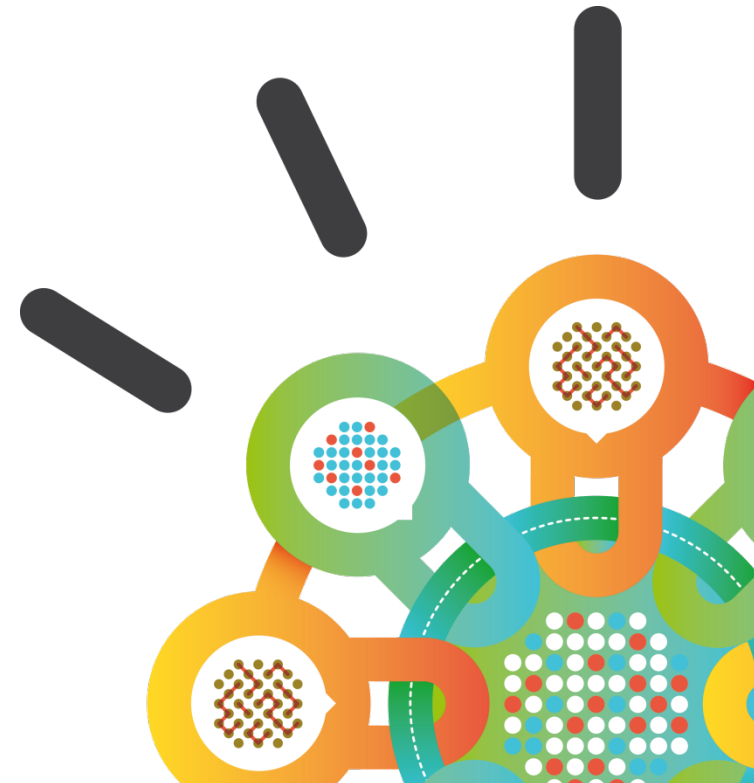
Security Intelligence.  
**Think Integrated.**

# IBM X-Force 2013 Mid-Year Trend and Risk Report

Greg Sinclair, CISSP, PMP

Associate Practice Leader, IBM Security Services

[gregorys@za.ibm.com](mailto:gregorys@za.ibm.com)



# X-Force is the foundation for advanced security and threat research across the IBM Security Framework



The mission of X-Force is to:

- **Monitor** and evaluate the rapidly changing threat landscape
- **Research** new attack techniques and develop protection for tomorrow's security challenges
- **Educate** our customers and the general public

# Collaborative IBM teams monitor and analyze the changing threat landscape

## Coverage

**20,000+** devices  
under contract

**3,700+** managed  
clients worldwide

**15B+** events  
managed per day

**133** monitored  
countries (MSS)

**1,000+** security  
related patents



**IBM Research**

## Depth

**17B** analyzed  
web pages & images

**40M** spam &  
phishing attacks

**76K** documented  
vulnerabilities

**Billions** of intrusion  
attempts daily

**Millions** of unique  
malware samples

Mid-year 2013 theme:

# Attackers Optimize Tactics



## 3 Chapters of this Trend Report presentation

### Targeted Attacks and Data Breaches

Operational sophistication  
Watering hole attacks  
Compromised websites far from home  
DDoS diversions

### Social and Mobile

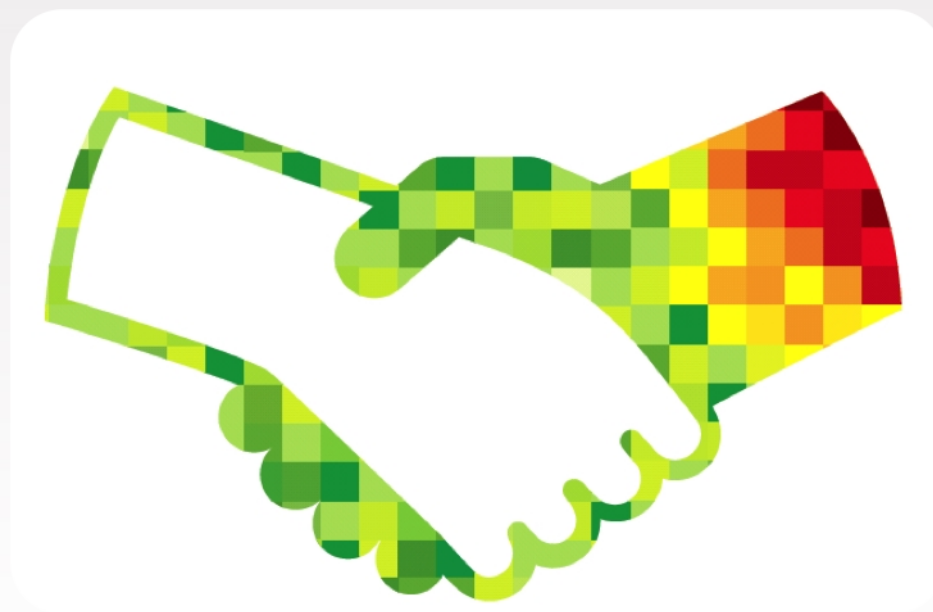
### X-Force by the Numbers



# Exploiting Trust

Security professionals should understand how attackers are taking advantage of trust in relationships to:

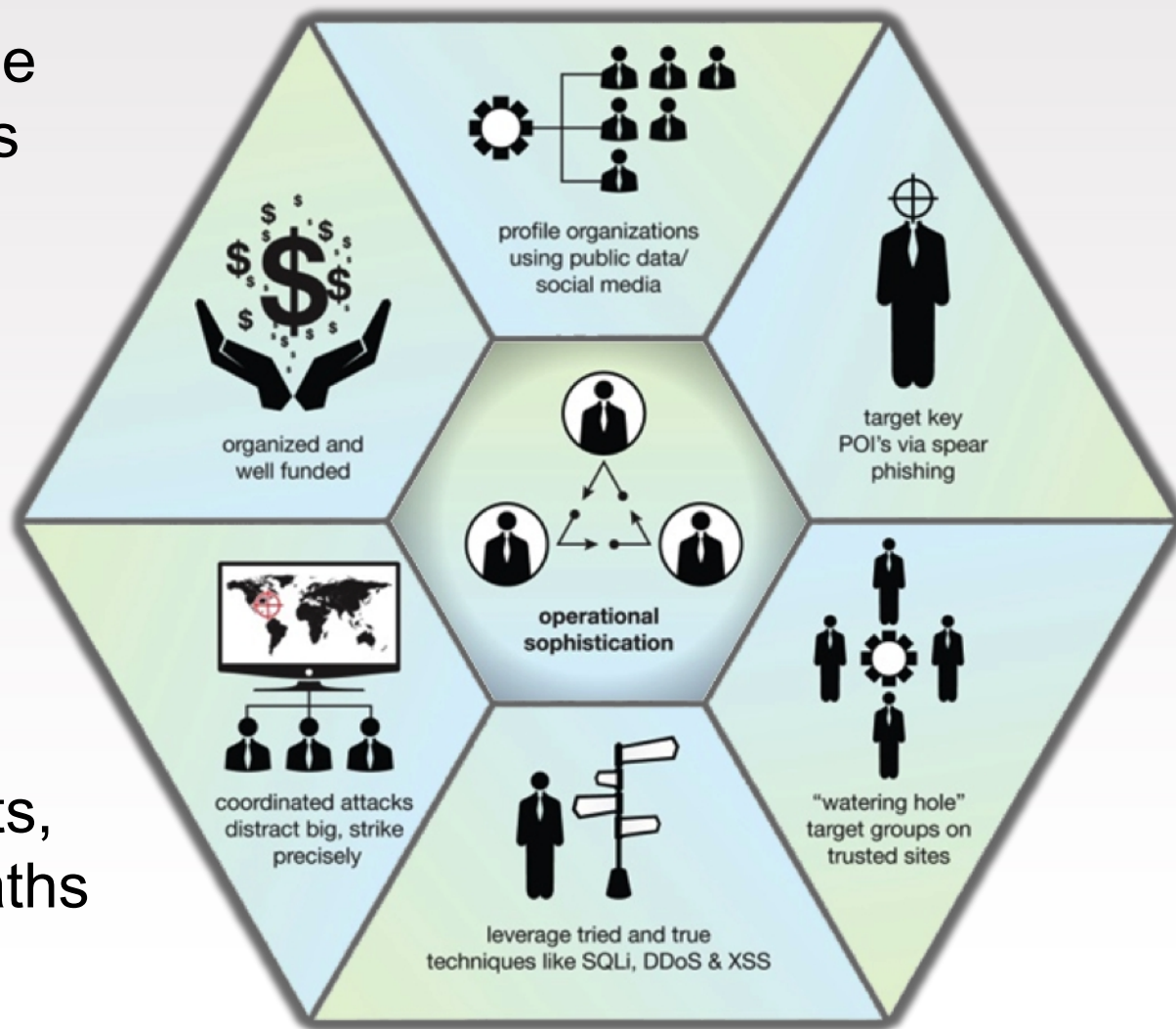
- Breach an organization
- Target groups of users
- Create methods of diversion



# Operational sophistication

Exploiting trust is one example of attackers becoming more operationally sophisticated to breach targets

Many breaches are not the result of custom malware and zero-day exploits, attackers look for paths of least resistance

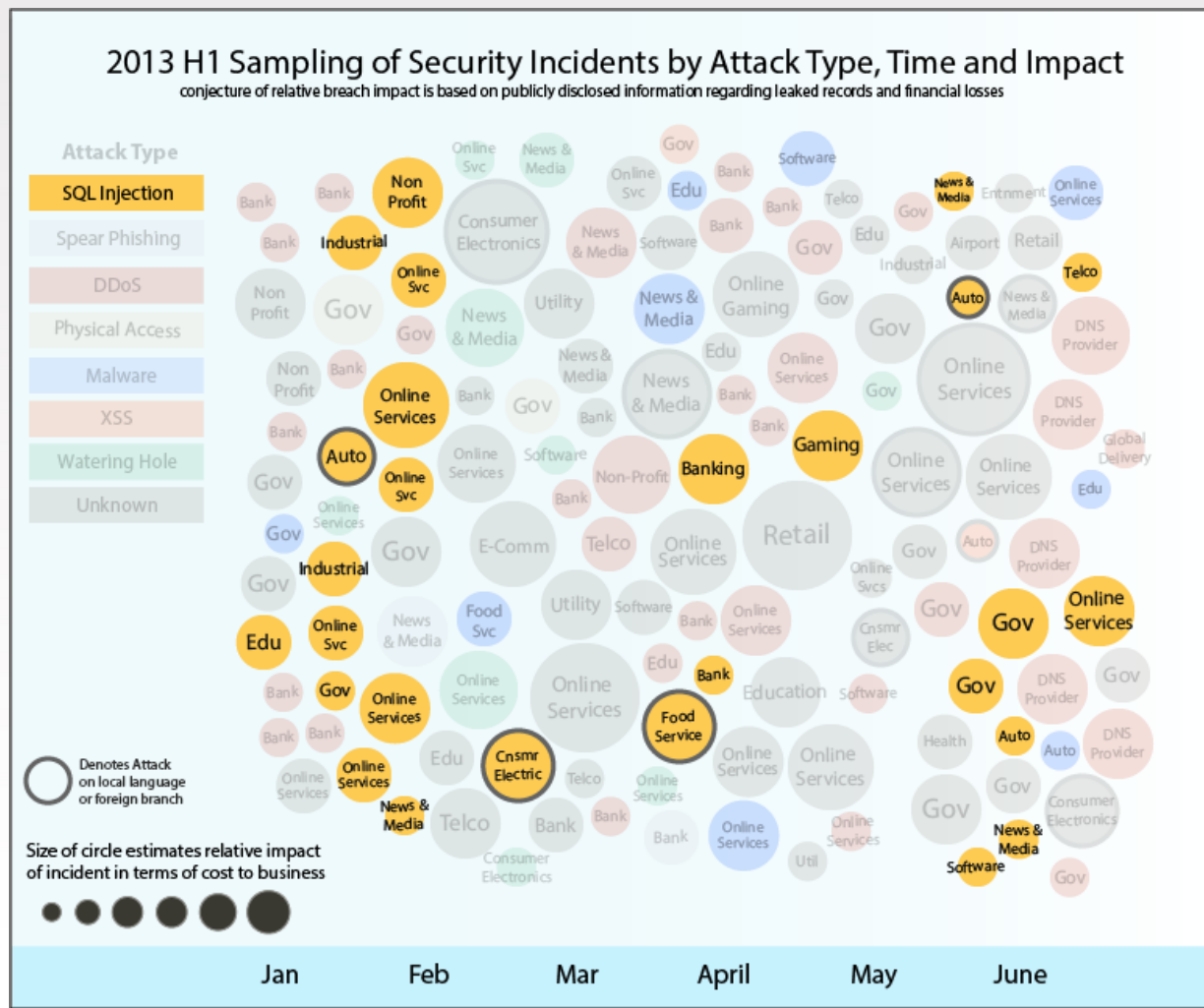


# Security Incidents in the first half of 2013



# SQL Injection

still reliable for breaching databases

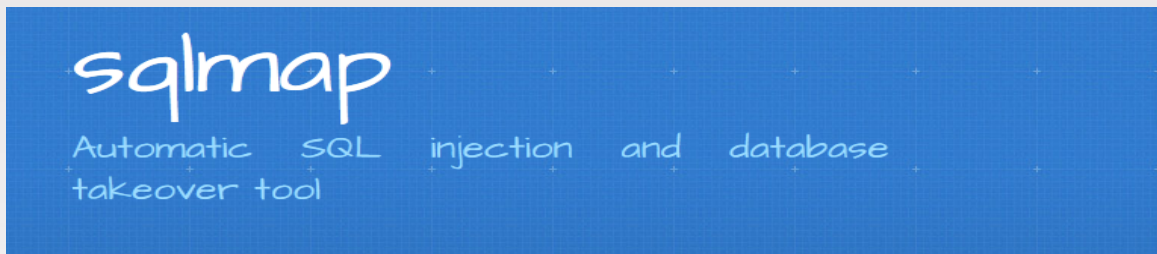


**22%** of tracked disclosed breaches

**Low risk / high reward**

- Old CMS installations
- CMS Plugins
- Forum software
- Other popular 3<sup>rd</sup> party scripts

# Recent local example of SQL Injection



## Introduction

sqlmap is an open source penetration testing tool that automates the process of finding and exploiting SQL injection flaws and taking over of database servers. It features a number of niche features for the ultimate penetration tester such as fingerprinting, over data fetching from the database, commands on the operating system via out-of-band

## Features


- Full support for MySQL, Oracle, PostgreSQL, Microsoft SQL Server, SQLite, Firebird, Sybase and SAP MaxDB databases

PASTEBIN | #1 paste tool since 2002

PASTEBIN Follow @pastebin Like 51k


create new paste trending pastes

Pastebin launched a little side project called [HostCabi.net](#), check it out :-)

 **www.gov.za**

BY: A GUEST ON JUL 11TH, 2013 | SYNTAX: NONE | SIZE: 1.95 KB | HITS: 148 | EXPIRES: NEVER

DOWNLOAD | RAW | EMBED | REPORT ABUSE | PRINT

 0  4

**I Make R3,750 Every Day**  
Work from Home & earn 100,000 Rand a Month

[SEE HOW](#)

```

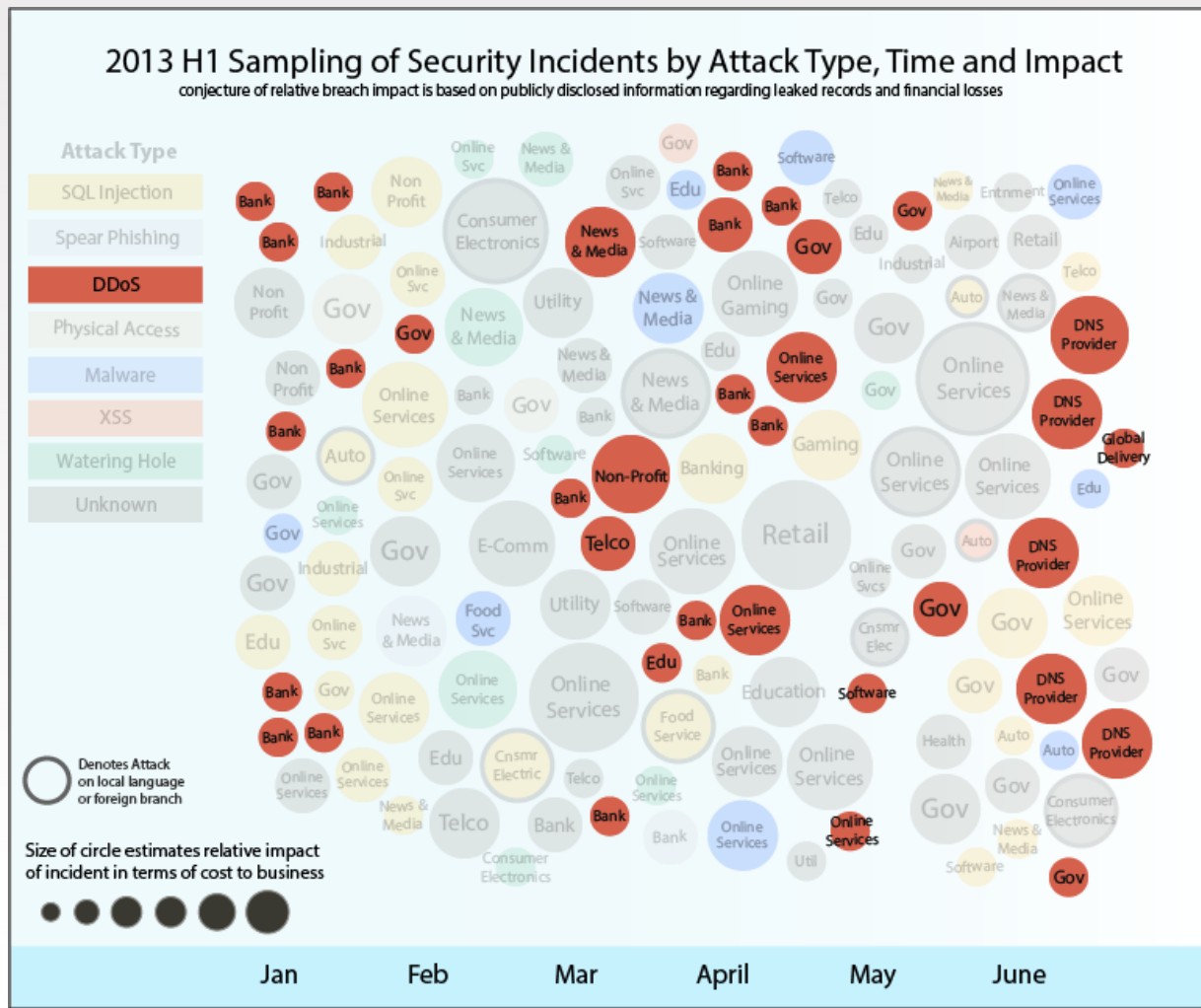
1. Greetz Netizens,
2.
3.     Today's yums is www.gov.za ... yup South Africa's .gov. The server is an Oracle db on the internal
4.     network, yeah got most of the creds but can't get internal access:( too bad cause user: ADMIN1
5.     with ADMIN privs. lol oh well, did "map" most of the db.
6.
7.     For those interested here is the inj point: http://www. [REDACTED] and here
8.     is the sqlmap params I used:
9.
10.    sqlmap -u http://www.i [REDACTED] -dbms=oracle --random-agent --risk=3 --level=5 -o
11.    --eta --threads=10 --technique=beu --text-only --no-cast --drop-set-cookie --batch
12.
13.    Technique might as well just be 'b' since it's only blind injectable and minus the options of
14.    --dbms,--text-only,and drop-set-cookie ,these are what I normally set. Of course with --dbs --passwords --tables
15.    . http://www.sqlmap.org for further info.
16.
17.
18.
19.
20.

```

Source: IBM Security Services - Mr. D. Boshoff

# DDoS Attacks

continue to disrupt businesses



High traffic volume as much as

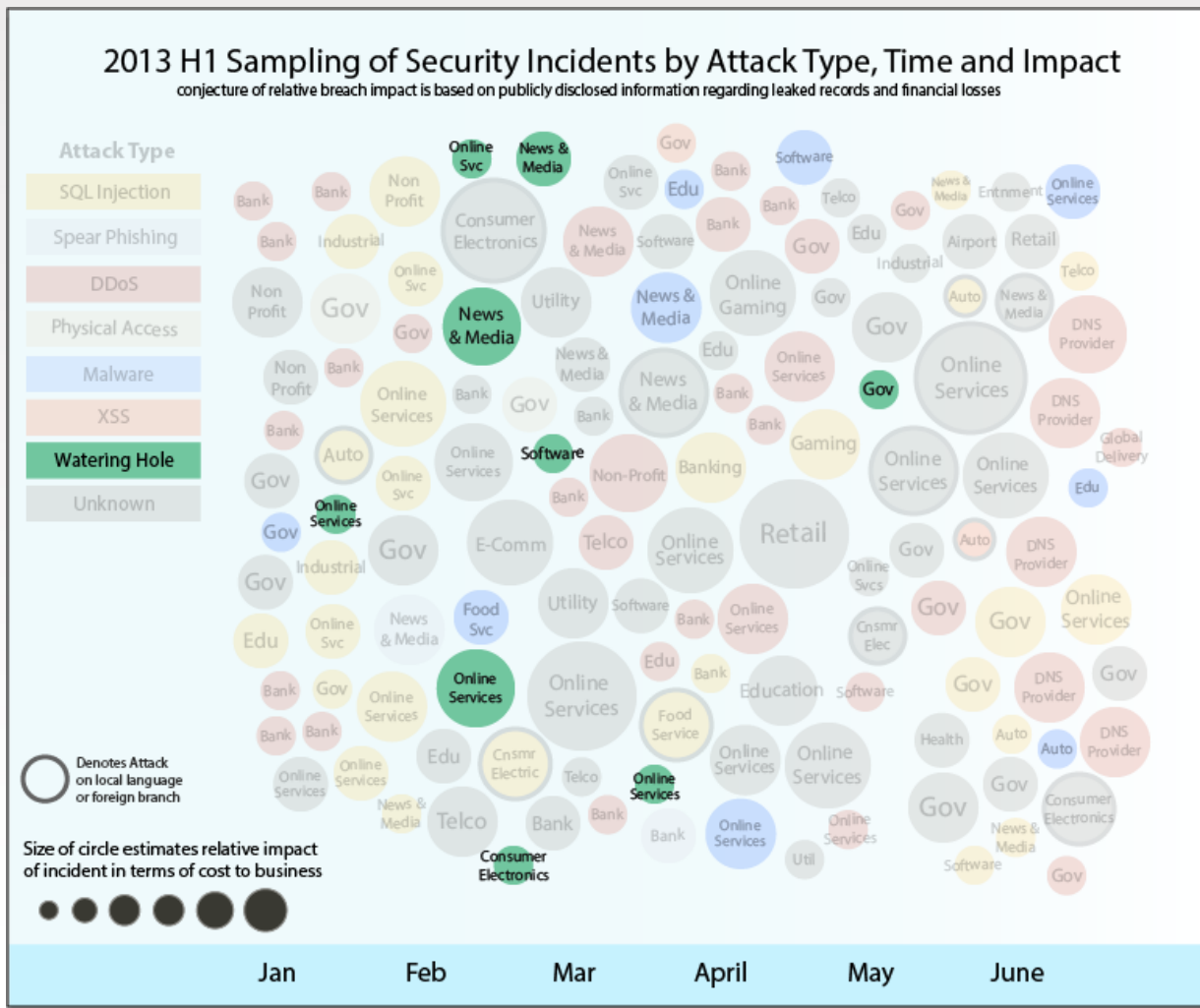
**300Gbps**

**Industries affected:**

- Banks
- Governments
- DNS Providers

# “Watering Hole”

attacks compromise end user trust



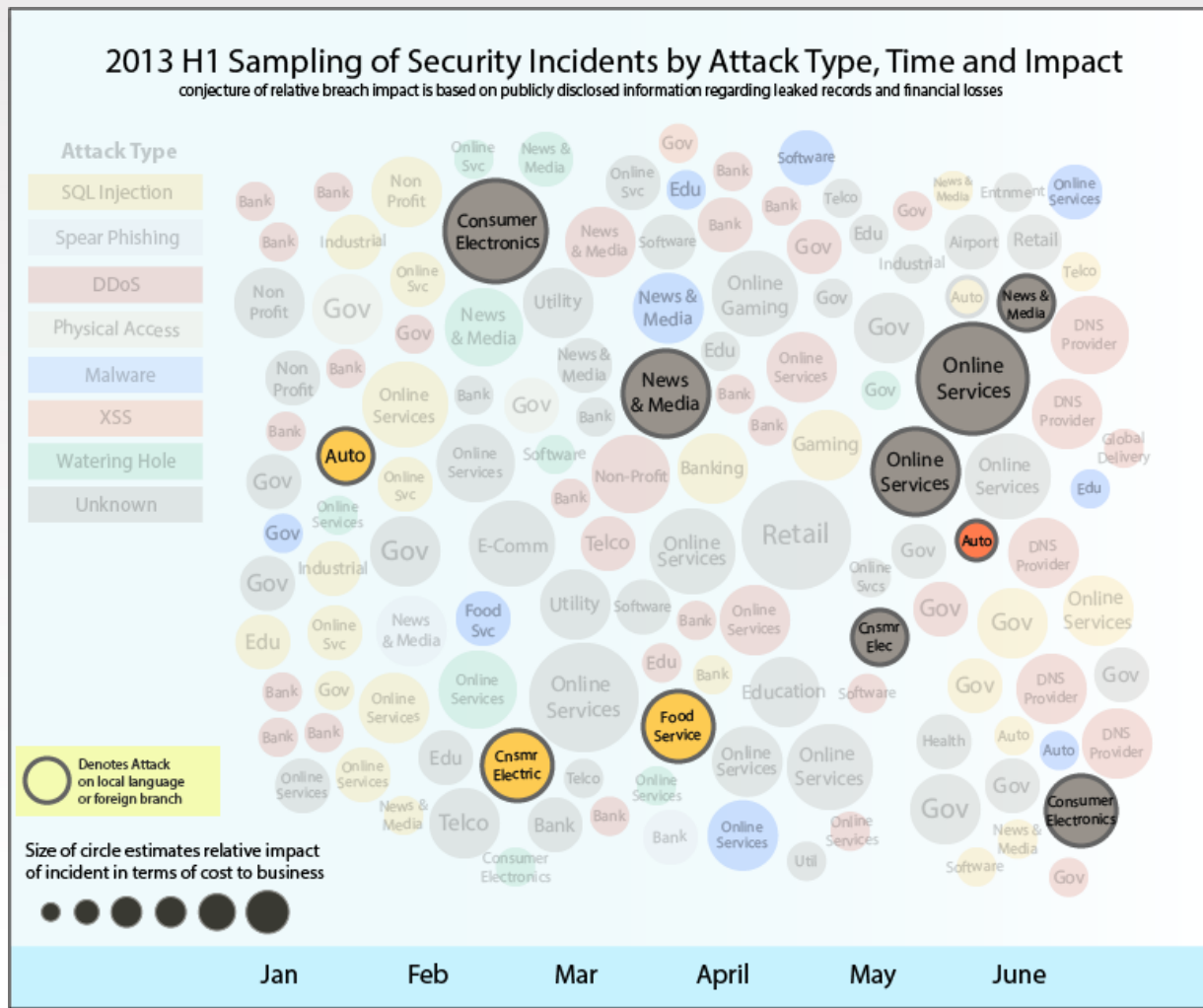
Tainting legitimate sites with zero-day exploits

Targeting Savvy Users

- Tech company developers
- Government Employees
- Unsuspecting viewers of trusted sites

# Disenfranchised

foreign branch or local language sites tarnish brands



**Global brands targeted in foreign countries outside of home office**

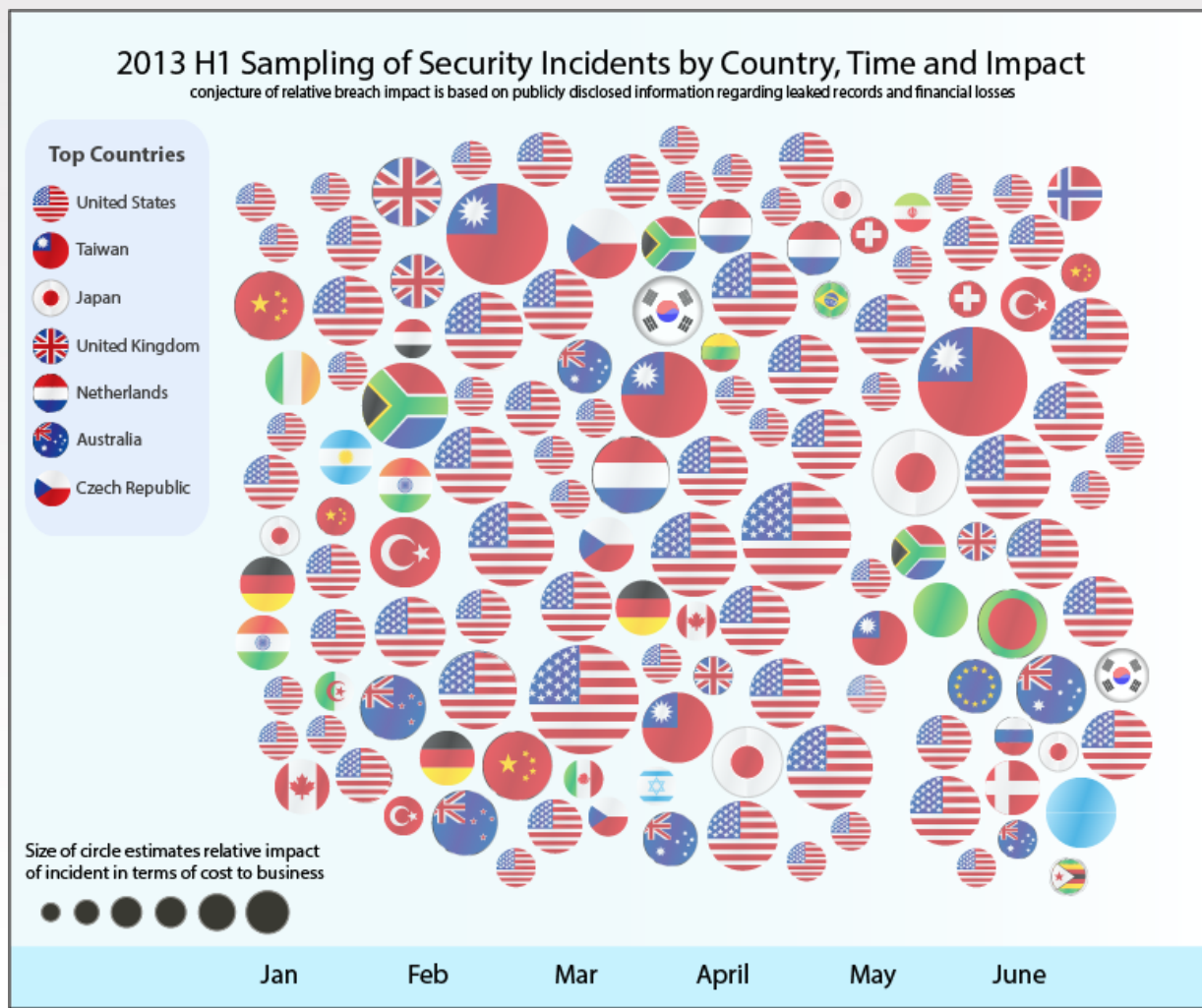
**Attackers rely on**

- Lower security on local language sites
- Temporary micro-sites which gather user data
- Tarnish brands with path of least resistance



# Incidents by Geo

countries most impacted by security incidents



The **United States** most reported breach target location

**Taiwan** was targeted in several foreign branch security incidents

# January 29, 2013 – Ghostshell “Project Sunrise”

PASTEBIN | #1 paste tool since 2002

010110  
110011  
101000  
000104

PASTEBIN

Follow @pastebin

Like 451k

create new paste

trending pastes

Pastebin launched a little side project called [HostCabi.net](#), check it out :-)

#ProjectSunRise - Africa's heart

BY: TEAMGHOSTSHELL ON JAN 28TH, 2013 | SYNTAX: NONE | SIZE: 32.75 KB | HITS: 8,138 | EXPIRES: NEVER

DOWNLOAD | RAW | EMBED | REPORT ABUSE | PRINT

f 75

190

**I Make R3,750 Every Day**  
Work from Home & earn 100,000 Rand a Month

SEE HOW



```

1.
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11.

```

Venturing into the cyber something that the rest o for the time being, South Kenya and Angola.

After two months of investigations, Team GhostShell has finally managed to fingerprint the entire top business infrastructure of South Africa, tracing some of it's activities to other countries across the continent. As always, we will provide you with a glimpse of that world, so that everyone else can do their own research and draw their own conclusions from it. Although this time around, the goal was not to release a large portion of data, we will still provide you with enough non-disclosure accounts and records from a variety of businesses; corporations and governments.

The point of it is to find and see for yourselves the connections these entities have with one another, how they conduct themselves on the financial playing field but also economically speaking, how they actually do business world-wide. The data here ranges from government, banking, mining, petroleum, management, networking, transport services, construction, education/academics, other enterprises.

# 3 Chapters of this Trend Report presentation

Targeted Attacks  
and Data Breaches

**Social and Mobile**

Targeting users and abusing trust  
Economic and reputational impact  
Social media Black Market  
Recent advances in Android malware

X-Force by the Numbers

# Social Media

has become a new playground for attackers

**Social Media top target for attacks and mobile devices are expanding those targets**

- Pre-attack intelligence gathering
- Criminals selling accounts
- Campaigns enticing user to click on malicious links



# Economic and Reputational impact

as widespread adoption promotes both personal and business



**Instead of blocking services, organizations should determine how to monitor and mitigate abuses of these platforms**

-Social Media exploits can impact brand and financial loss

-Effective defense is education and to engender suspicion

# Mobile Threats

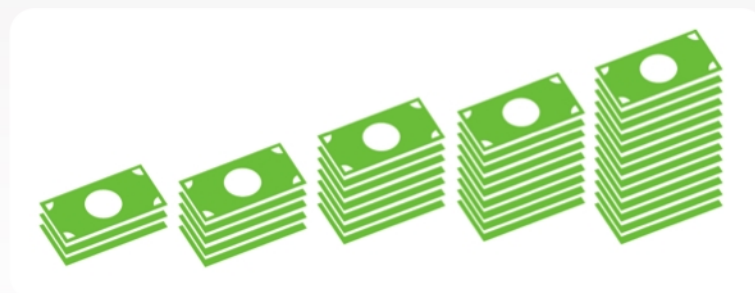
wherever you go, attackers will follow



**Explosive market growth for Android gets attention of malware authors**

Viable targets with strong intent related to specific organizations

ROI: Malware authors are investing more effort into malware that are more resilient and dangerous



# Advances in **Android Malware**

## **Chuli**

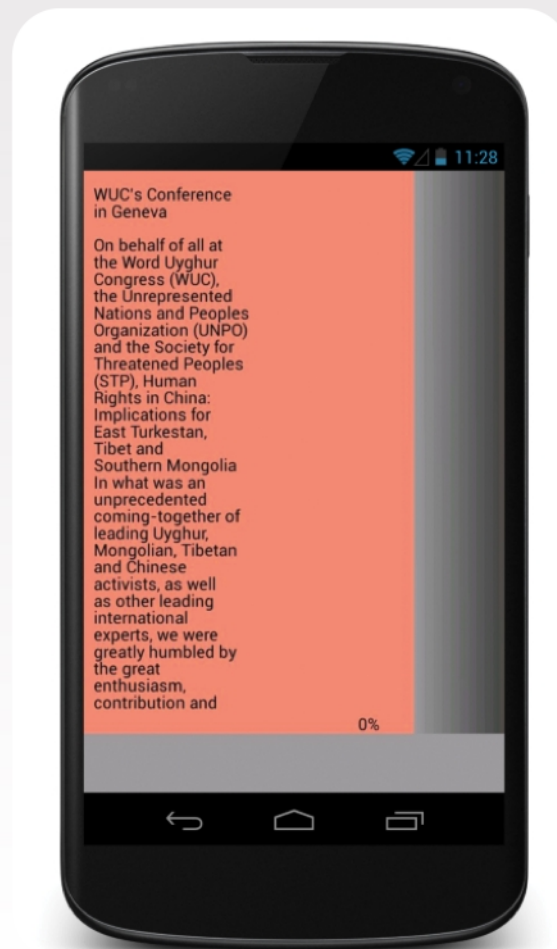
Very targeted attack

- Compromised address book
- Emails sent to targets
- Hooks into Android's SMS service
- Messages routed to remote C&C server

## **Obad**

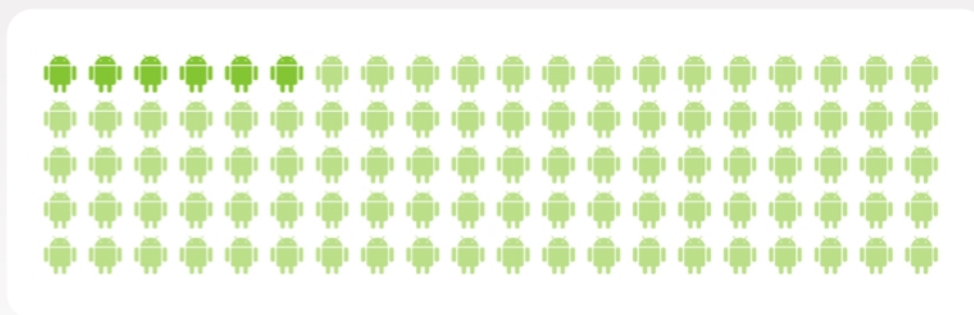
Spread primarily through SMS spam

- Spreading through Bluetooth
- Device Administration
- Anti-analysis techniques
- Code obfuscation



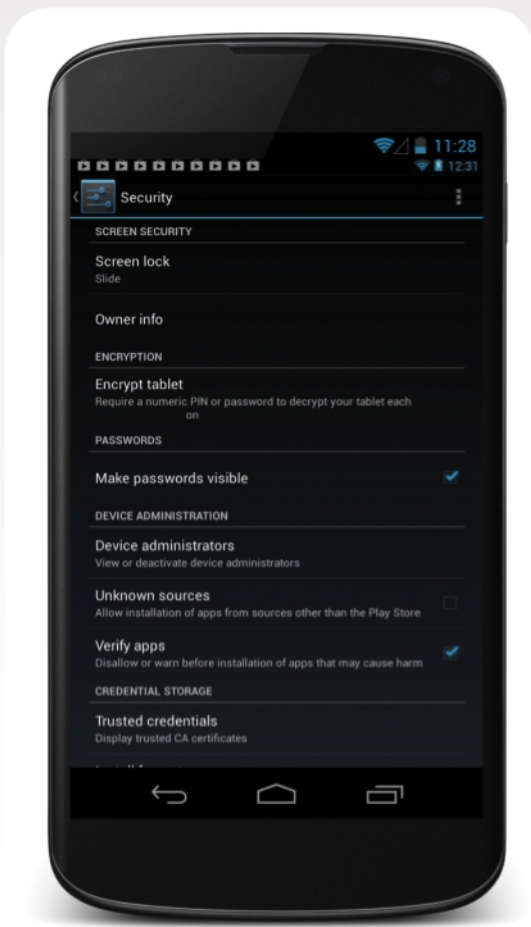
# X-Force expects the number of Android Malware applications to continue rising

**Degree of sophistication** for this malware will eventually rival those found in desktop malware



**Android Security Enhancements**  
Older devices more at risk with only 6% running latest version

Mobile operating system (OS) fragmentation will remain a problem





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Targeted Attacks  
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Social and Mobile

**X-Force by the Numbers**

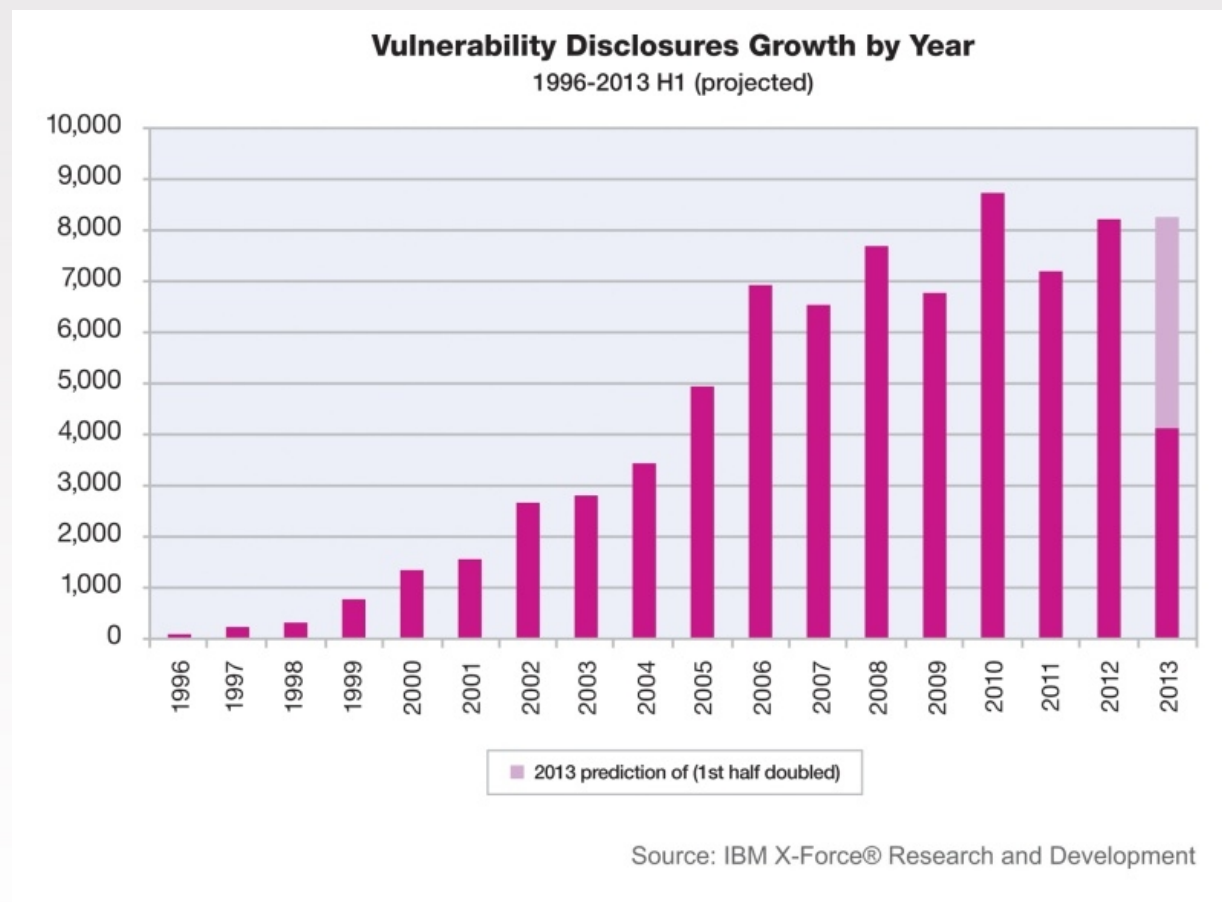
Vulnerabilities  
Exploits  
Web trends  
Spam and Phishing

# Vulnerabilities Disclosures

4,100

publicly  
disclosed  
vulnerabilities

If trend  
continues,  
roughly same  
as 2012



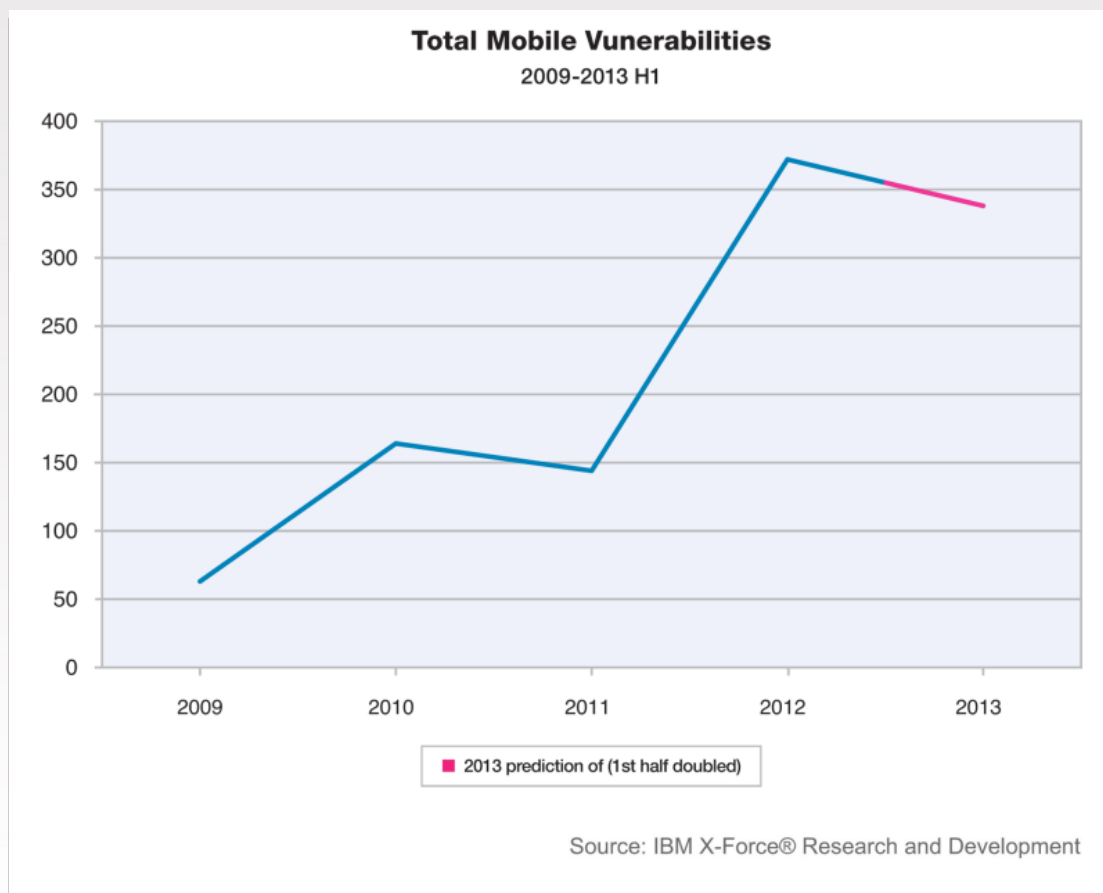
# Vulnerabilities affecting Mobile Software

## Mobile vulnerabilities

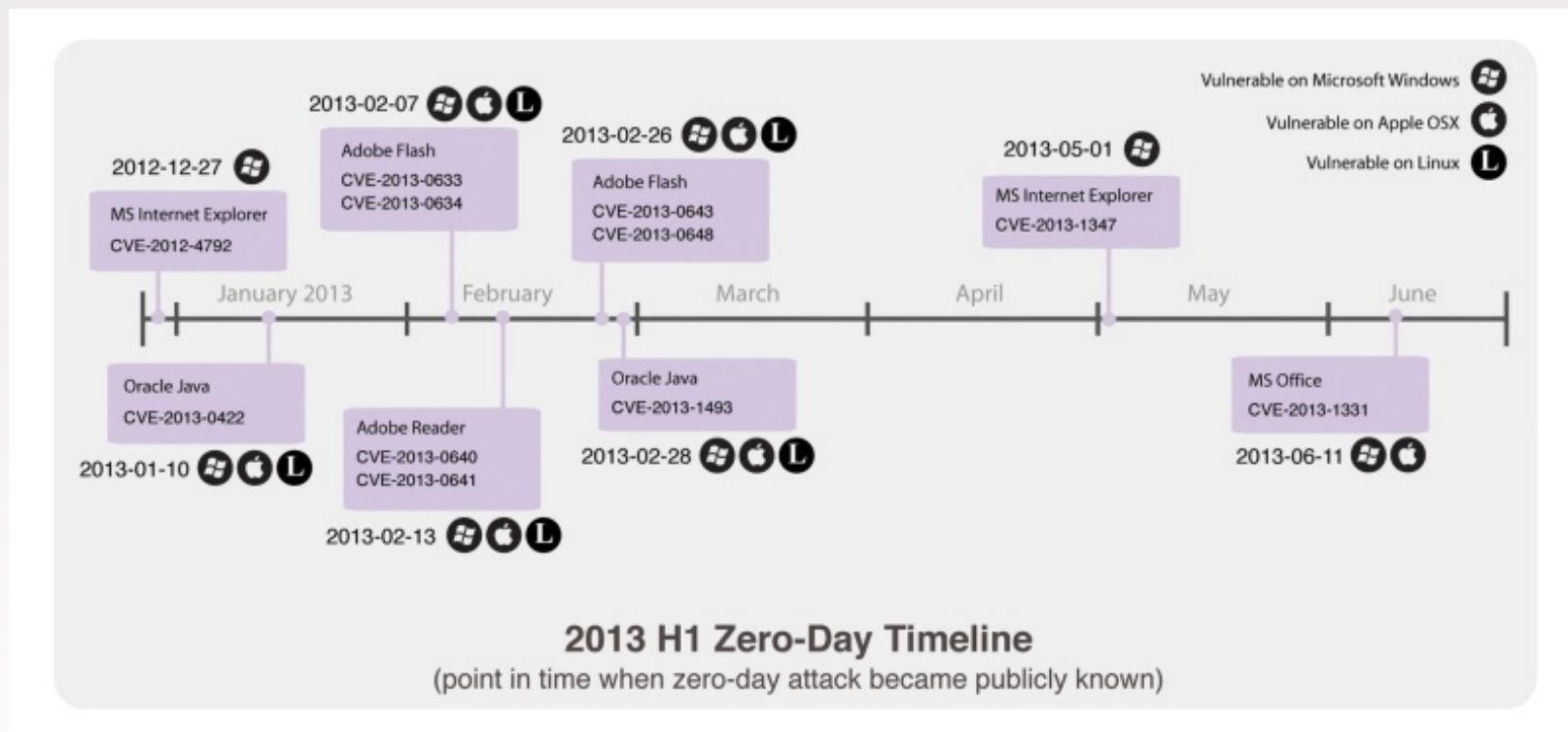
have increased since 2009

Although still small percentage of total overall

Affecting both mobile and desktop software

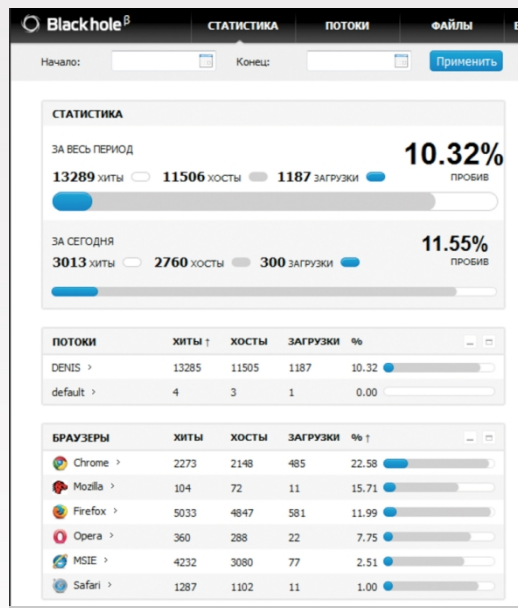


# Zero-Day Vulnerabilities



**80% of zero-day**  
vulnerabilities affect Windows and OSX

# Oracle Java, Adobe Flash, Microsoft IE crucial to protect & patch



## Java

- 0-days quickly utilized in exploit tool kits
- Recent updates allow you to “disable” java
- Default security settings are now “high”

## Adobe Flash

- Most common delivery method, since 2010 Reader sandbox, is via MS Office docs

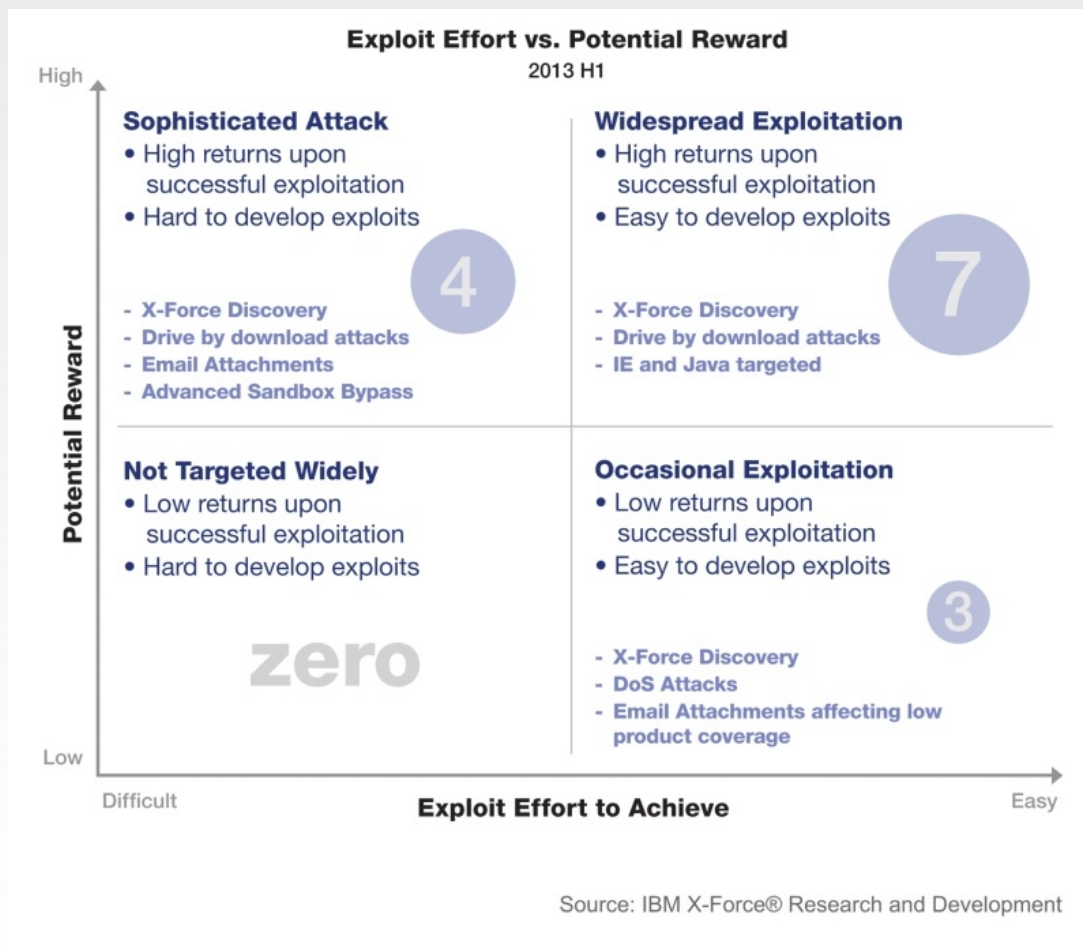
## Microsoft Internet Explorer

- Very targeted attacks and water hole technique

## How to do better:

- Reduce attack surface
- Update installed software
- Get educated on spear-phishing

# Exploit Effort vs. Potential Reward



## Drive-by-downloads

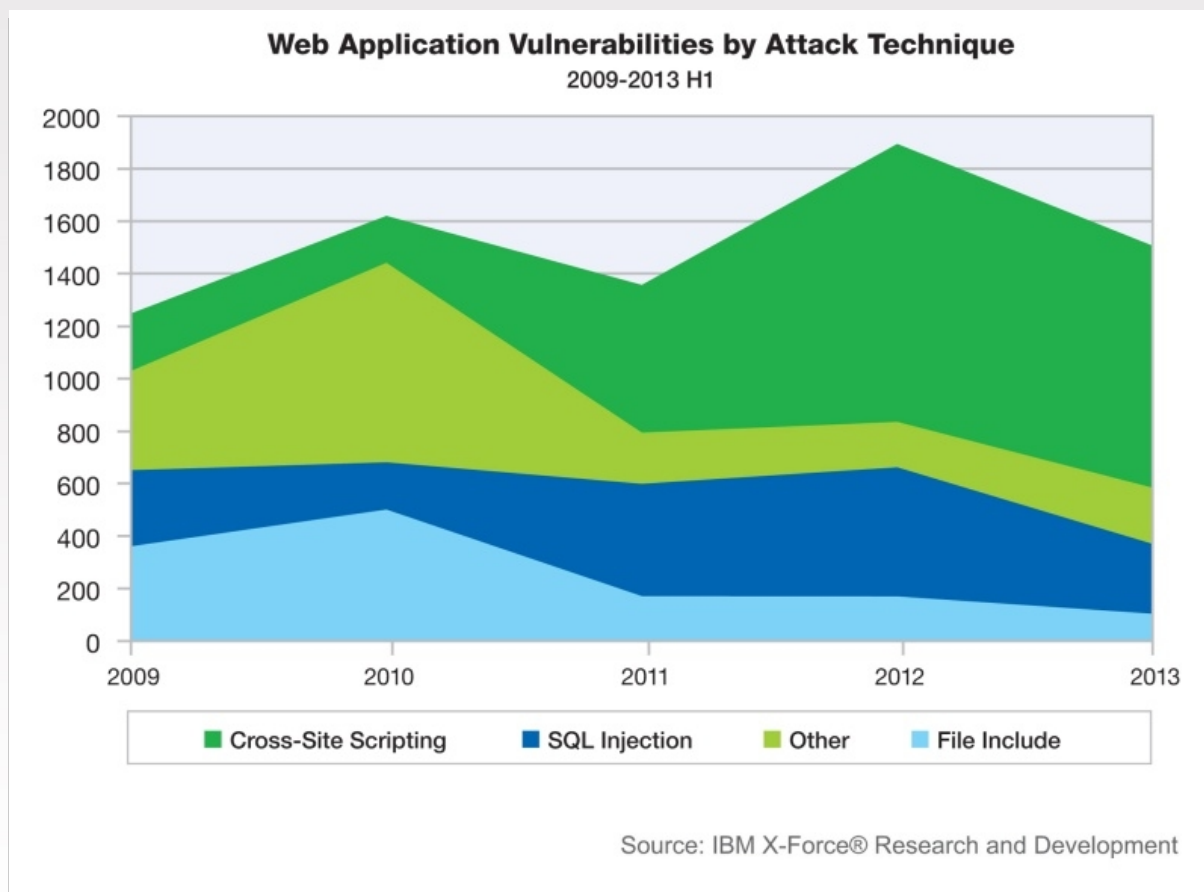
IE & Java targeted

Easy exploitation with high potential reward – still the sweet spot

# Web Application Vulnerabilities

**50%**  
of all web  
application  
vulnerabilities  
are XSS

Total slightly  
down in  
comparison  
to 2012

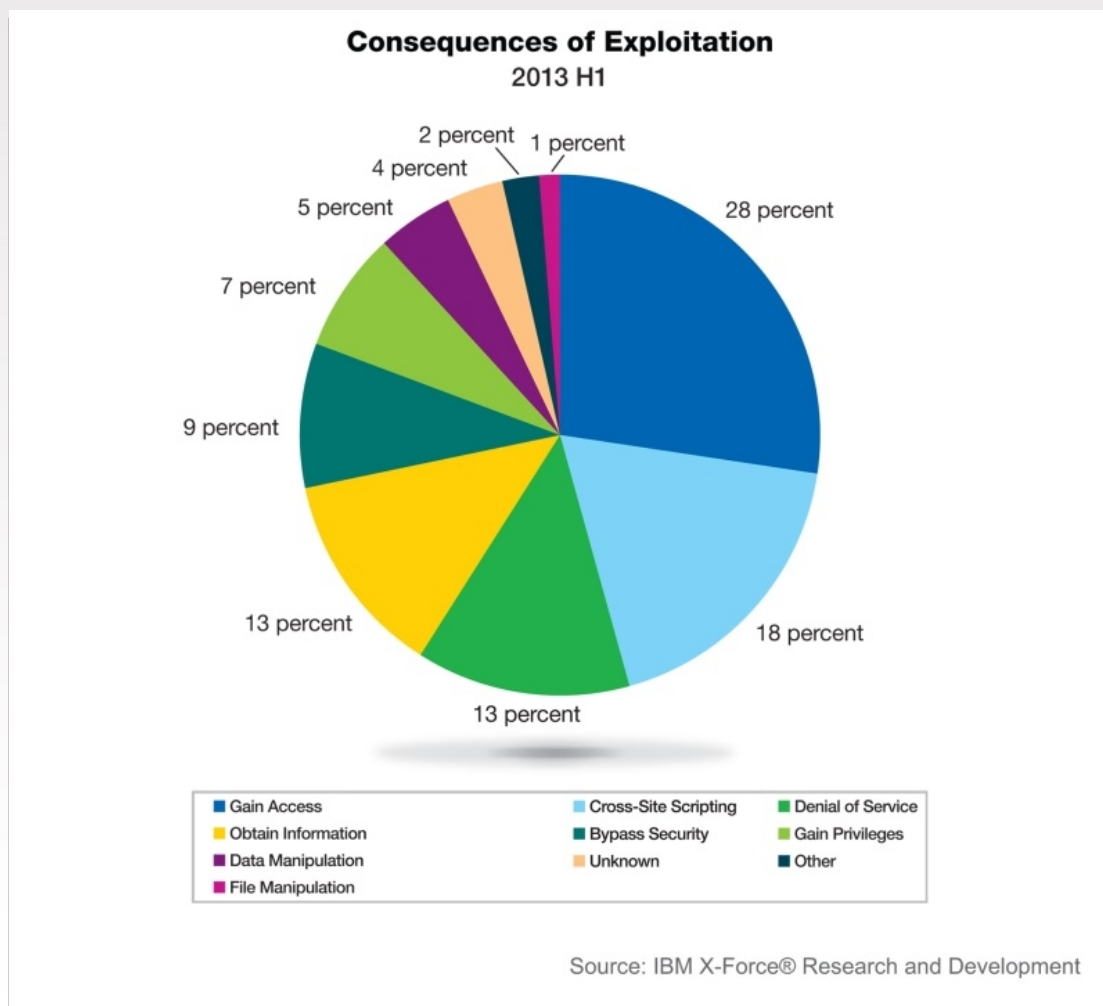


# Consequences of Exploitation

28%

“gain access”

Provides attacker complete control of system to steal data or launch other attacks



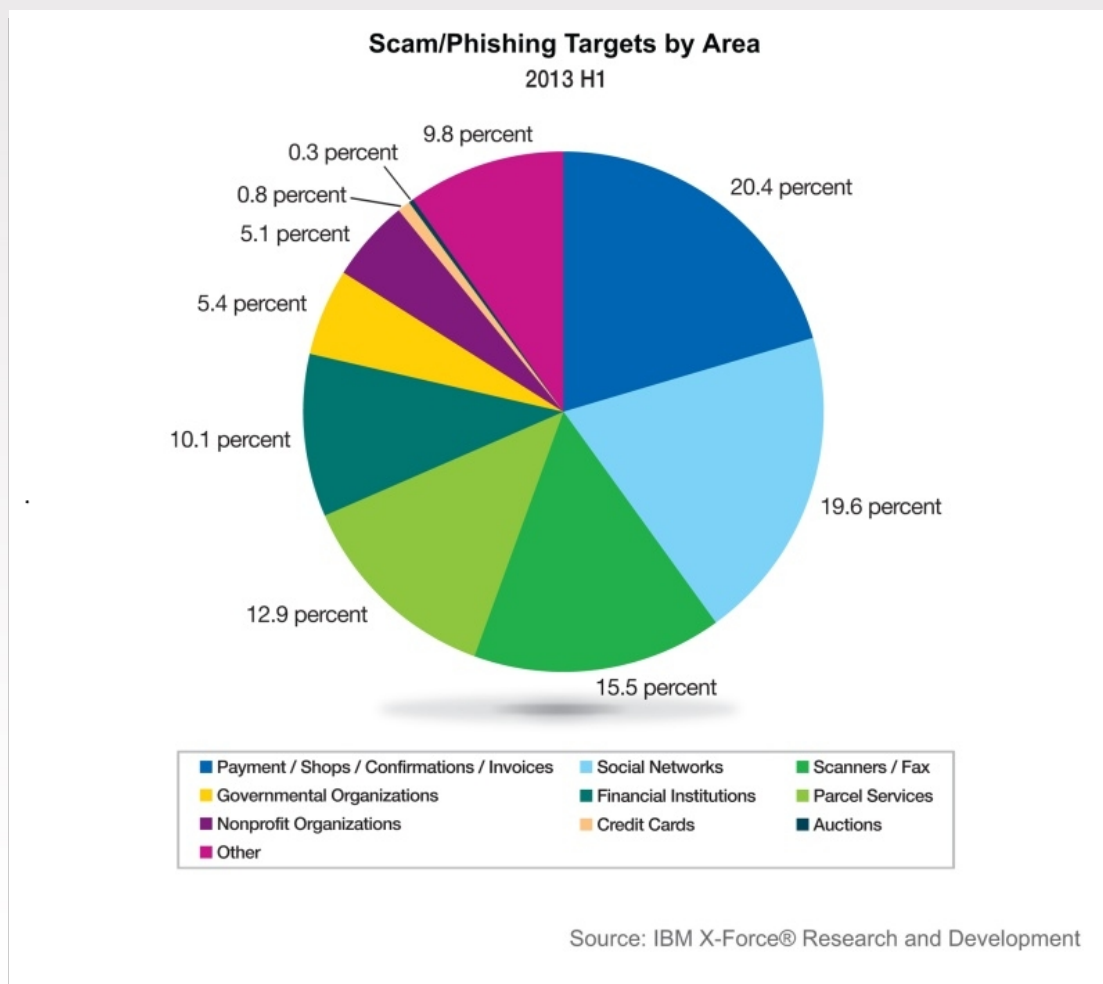


# Scam and Phishing Targets

**55%**

bad links and attachments

- Social networks
- Payment / shops
- Scanners / Fax

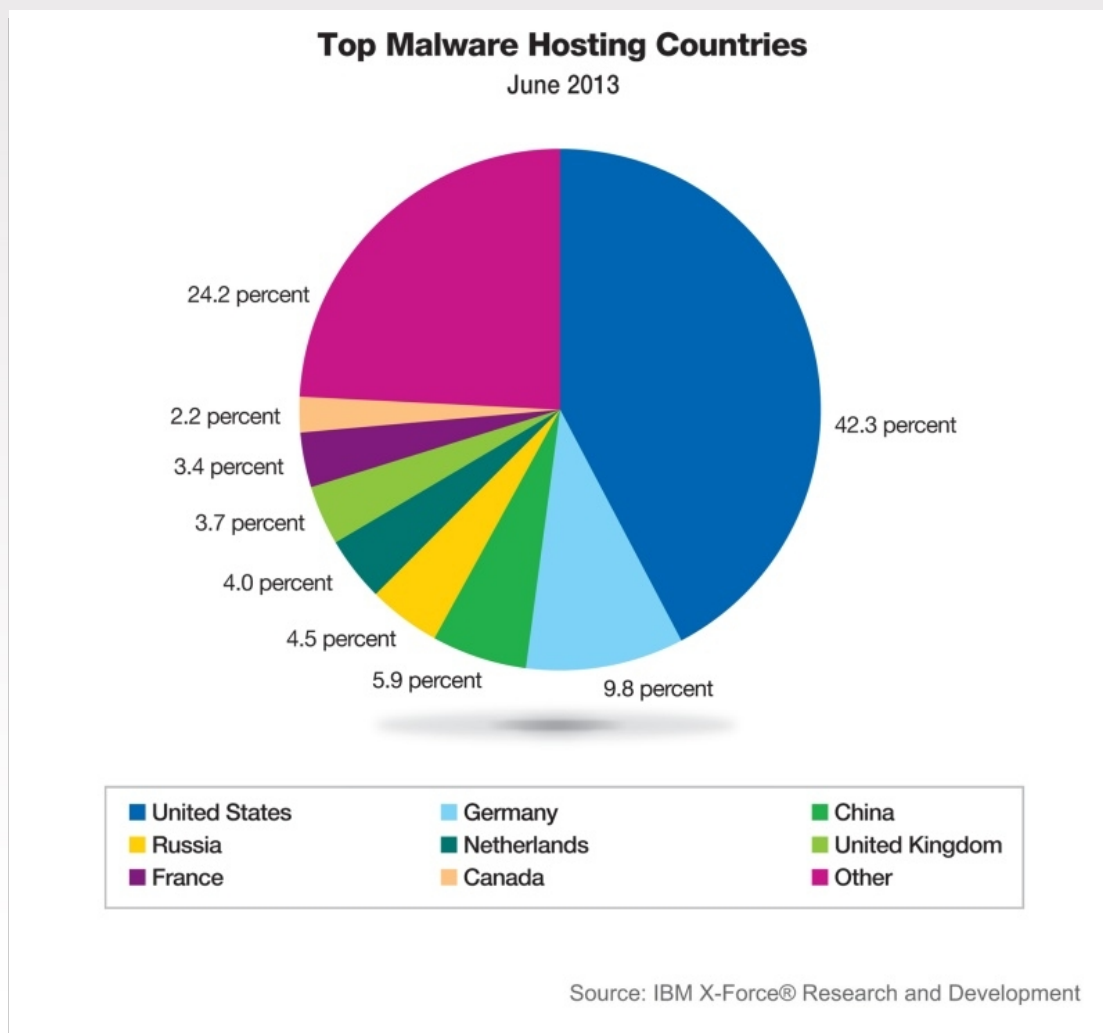


# Malware Hosting

**42%**

malware distributed in U.S.

Germany in second at nearly 10%



# Botnet Command & Control Hosting

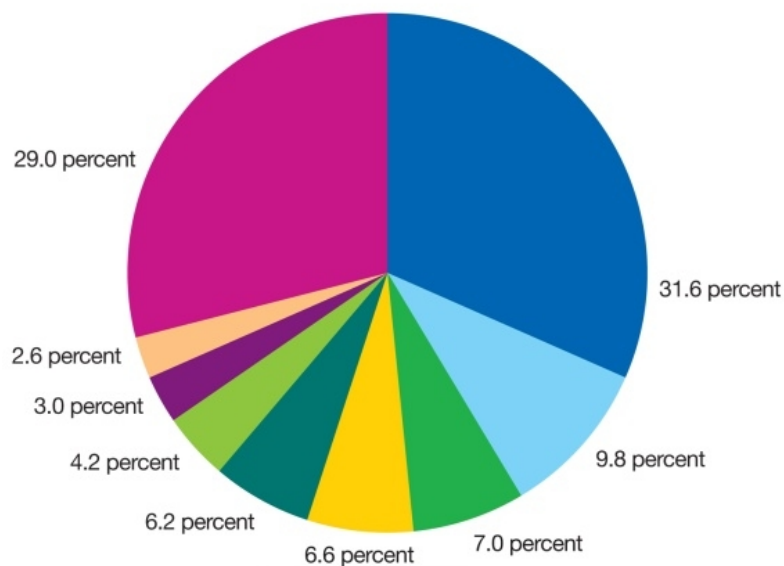
**32%**

botnet C&C servers in U.S.

Russia in second at nearly 10%

**Top Botnet C&C Server Hosting Countries**

June 2013



Credit: Team Cymru

Source: IBM X-Force® Research and Development

# Key takeaways for **CISOs**



## **Don't forget the basics**

scanning, patching, configurations, passwords

## **Social Defense needs Socialization**

educate users and engender suspicion

## **Defragment your Mobile posture**

constantly apply updates and review BYOD policies

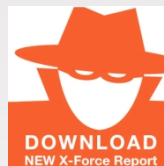
## **Optimize ahead of Attackers**

identify critical assets, analyze behavior, spot anomalies

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Download X-Force security trend & risk reports

<http://www-03.ibm.com/security/xforce/>



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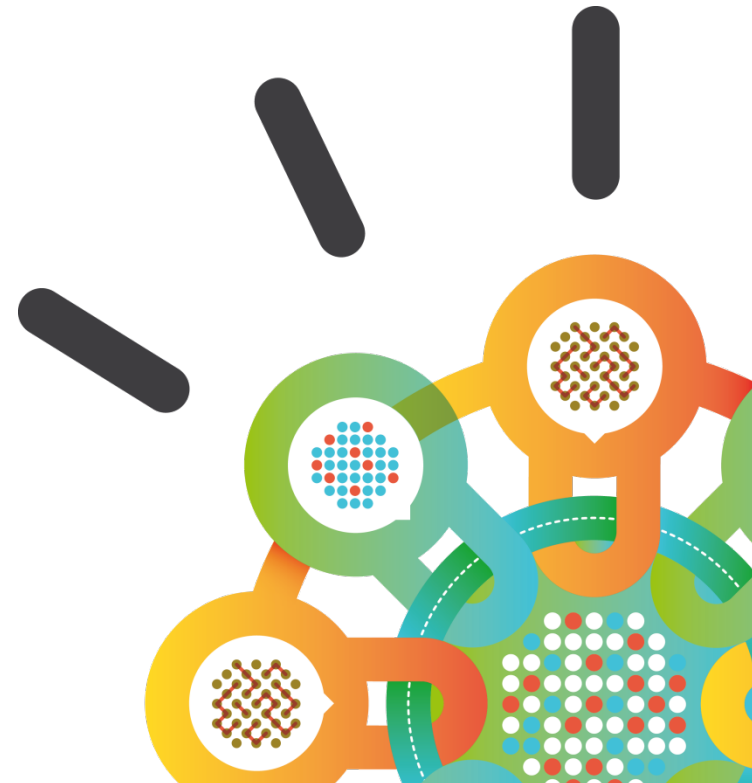
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Security Intelligence.  
Think Integrated.

## Security Intelligence – Understanding your Organizational Security Posture

Nov 2013





# All breaches start with some form of vulnerability

## 2013 H1 Sampling of Security Incidents by Attack Type, Time and Impact

conjecture of relative breach impact is based on publicly disclosed information regarding leaked records and financial losses



Jan

Feb

Mar

April

May

June

## Solving Customer Challenges

<b>Major Electric Utility</b>	<b>Detecting threats</b>	<ul style="list-style-type: none"><li>• Discovered 500 hosts with “Here You Have” virus, which other solutions missed</li></ul>
<b>Fortune 5 Energy Company</b>	<b>Consolidating data silos</b>	<ul style="list-style-type: none"><li>• 2 Billion logs and events per day reduced to 25 high priority offenses</li></ul>
<b>Branded Apparel Maker</b>	<b>Detecting insider fraud</b>	<ul style="list-style-type: none"><li>• Trusted insider stealing and destroying key data</li></ul>
<b>\$100B Diversified Corporation</b>	<b>Predicting risks against your business</b>	<ul style="list-style-type: none"><li>• Automating the policy monitoring and evaluation process for configuration change in the infrastructure</li></ul>
<b>Industrial Distributor</b>	<b>Addressing regulatory mandates</b>	<ul style="list-style-type: none"><li>• Real-time extensive monitoring of network activity, in addition to PCI mandates</li></ul>

# Solutions for the Full Compliance and Security Intelligence Timeline



## Pre-Exploit

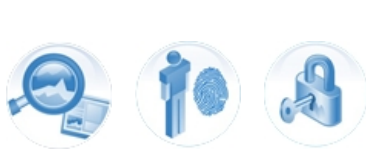
## Post-Exploit

### Prediction & Prevention

### Reaction & Remediation

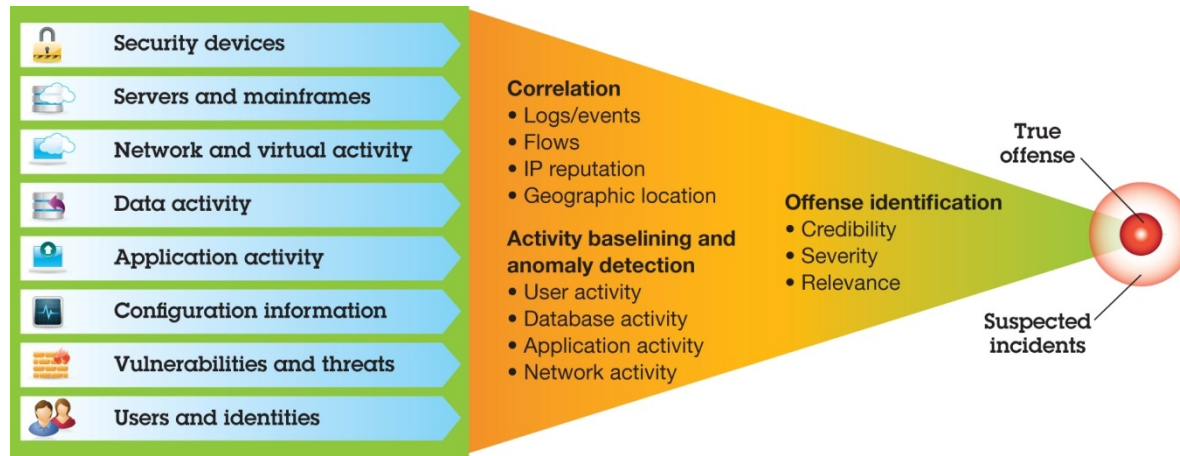
Risk Management. Vulnerability Management.  
 Configuration Monitoring. Patch Management.  
 X-Force Research and Threat Intelligence.  
 Compliance Management. Reporting and Scorecards.

SIEM. Log Management. Incident Response.  
 Network and Host Intrusion Prevention.  
 Network Anomaly Detection. Packet Forensics.  
 Database Activity Monitoring. Data Loss Prevention.





IBM QRadar SIEM is a market leading solution to provide full visibility and actionable insight to an organization's IT infrastructure to help the organization protect itself from a wide range of advanced security threats and effectively address compliance mandates.



*QRadar SIEM 7.2 continues QRadar's tradition of continually responding to customer and market needs by delivering new capabilities that include improvement of its asset data model, Console usability, license deployment, and support for data privacy, while at the same time significantly enhancing the product to meet SWG globalization requirements, to support QRadar sibling products (QRM & QVM), and to create larger customer values based on integration.*

# Fully Integrated Security Intelligence

Log Management

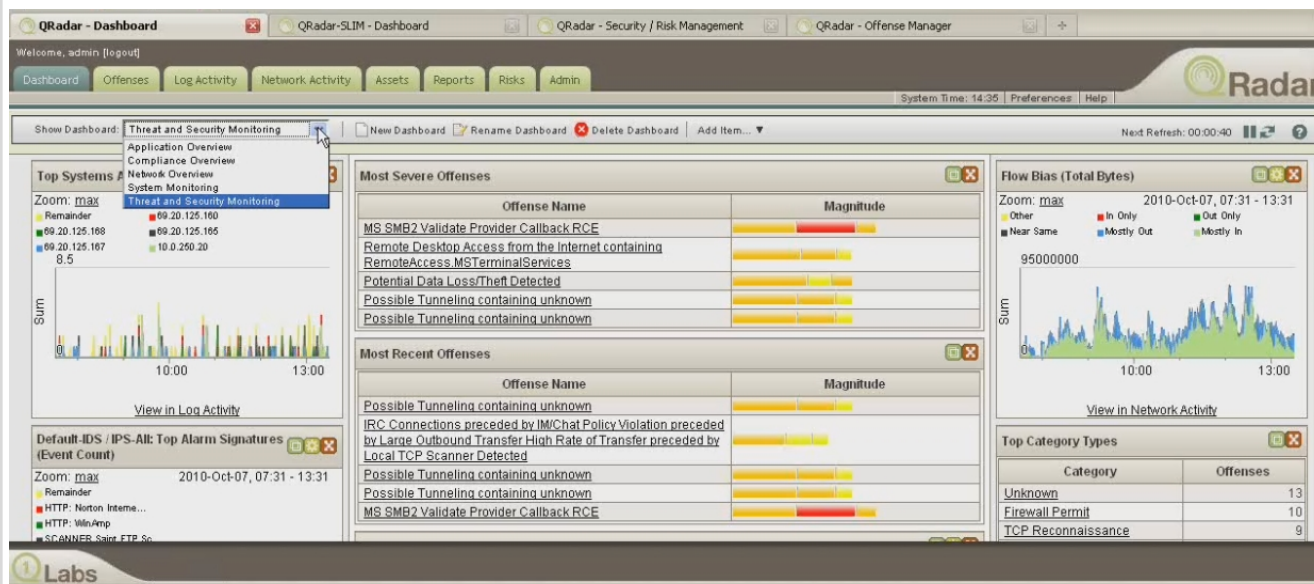
SIEM

Configuration & Vulnerability Management

Network Activity & Anomaly Detection

Network and Application Visibility

## One Console Security

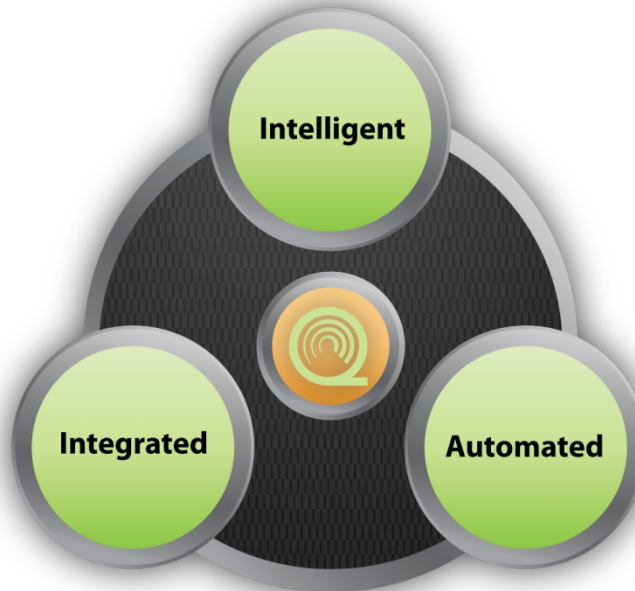


*Built on a Single Data Architecture*

# QRadar: Applying Intelligence, Integration, Automation

- Proactive threat management
- Identifies critical anomalies
- Rapid, extensive impact analysis

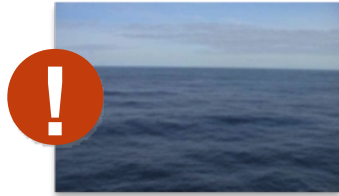
- Bridges silos
- Highly scalable
- Flexible & adaptable



- Easy deployment
- Rapid time to value
- Operational efficiency

# Customer business problems

## Problems in current VM deployments:



**Data overload inhibitor**



**Siloed system limitations**



**Hidden risks remain**



**Leaves unanswered questions**



**Creates security gaps**

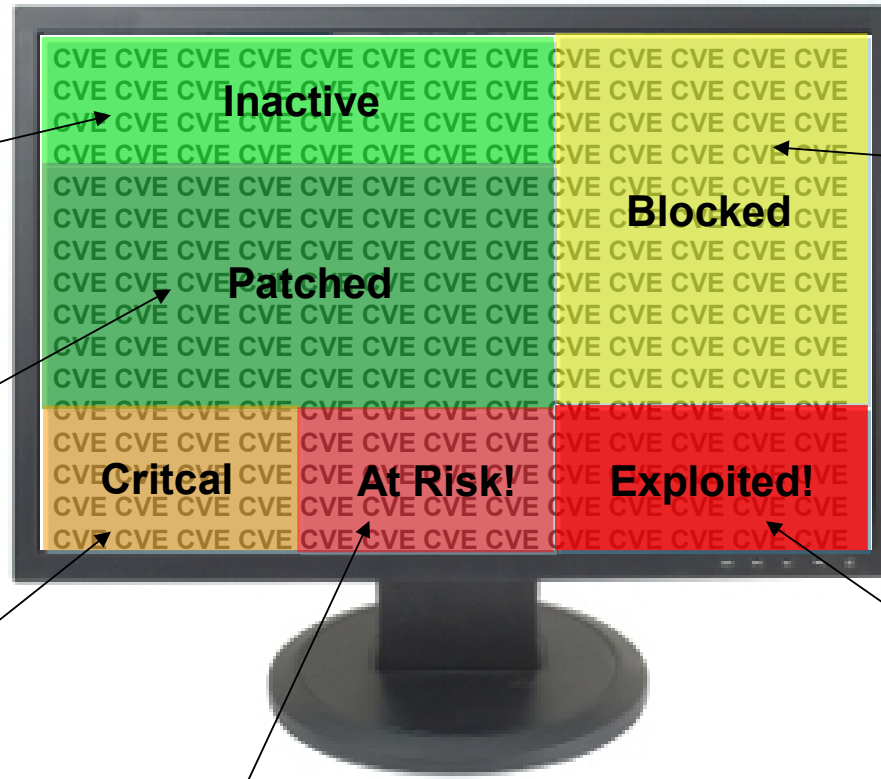
- *Has that been patched?*
- *Has or will it be exploited?*
- *Does my firewall block it?*
- *Does my IPS block it?*
- *Does it matter?*

# QVM enables customers to interpret 'sea' of vulnerabilities

**Inactive:** QFlow Collector data helps QRadar Vulnerability Manager sense application activity

**Patched:** IBM Endpoint Manager helps QVM understand which vulnerabilities will be patched

**Critical:** Vulnerability knowledge base, remediation flow and QRM policies inform QVM about business critical vulnerabilities



**Blocked:** QRadar Risk Manager helps QVM understand which vulnerabilities are blocked by firewalls and IPSs

**Exploited:** SIEM correlation and IPS data help QVM reveal which vulnerabilities have been exploited

**At Risk:** X-Force Threat and SIEM security incident data, coupled with QFlow network traffic visibility, help QVM see assets communicating with potential threats



## Customer roadmap with QRadar Vulnerability Manager

- Upgrade Log Manager to QRadar SIEM
  - Additional security telemetry data
  - Rules-based correlation analysis engine
  - Data overload reduction ‘magic’ compressing millions or even billions of daily raw events to manageable list of issues
- Add QRadar Risk Manager
  - Enables pre-exploit configuration investigations
  - Simplifies security policy reviews for compliance tests
  - Provides network topology depictions and permits attack simulations
- **Implement QRadar Vulnerability Manager**
  - **Extends pre-exploit analysis activities by adding integrated, vulnerability insights**
  - **Reduces magnitude of pre-exploit conditions as QRadar SIEM does for post-exploit conditions**
  - **Helps identify and measure exposures to external threats**
- Inject IBM X-Force Threat Research Intelligence
  - Provides intelligence feed to QRadar
  - Includes vulnerabilities, IP reputations, malware reports and attack histories





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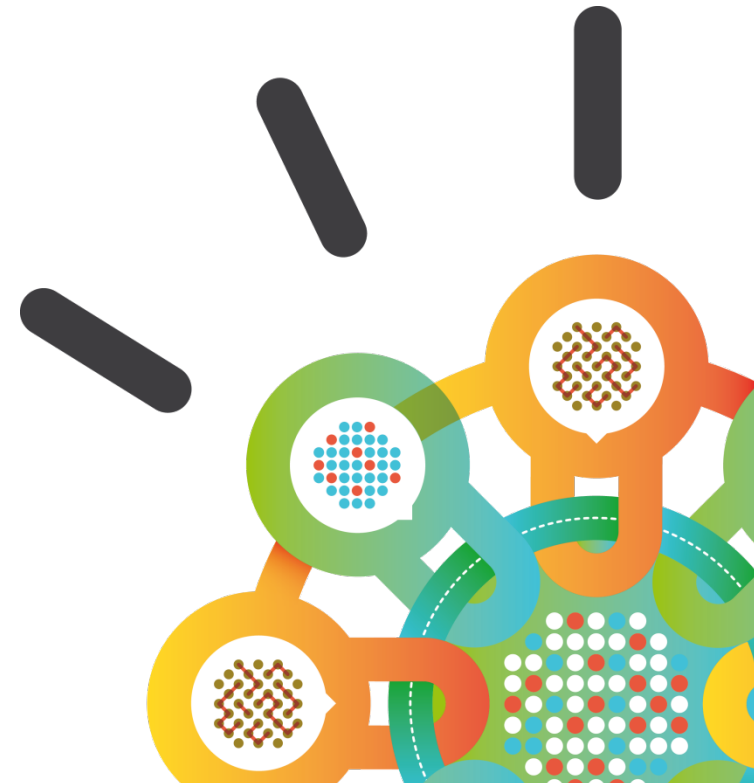
## Agenda

- Welcome and Introductions
- Latest Security trends and H1 2013 X-Force Report
- Security Intelligence - Understanding your Organizational Security Posture
- **Holistic approach to handling Advanced Persistent Threats**
- Break
- From Identity & Access Management to Identity Intelligence
- Managing Application Security
- Data Security

Security Intelligence.  
**Think Integrated.**

# Holistic approach to handling Advanced Persistent Threats

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137,400,000

...Number of cyber-attacks  
witnessed by IBM in 2012

# Most Attacked Industries

<b>Industry</b>	<b>Average weekly attacks</b>
Health and Social Services	10.1 million
Transportation	9.8 million
Hospitality	5.5 million
Finance and Insurance	3.6 million
Manufacturing	2.6 million

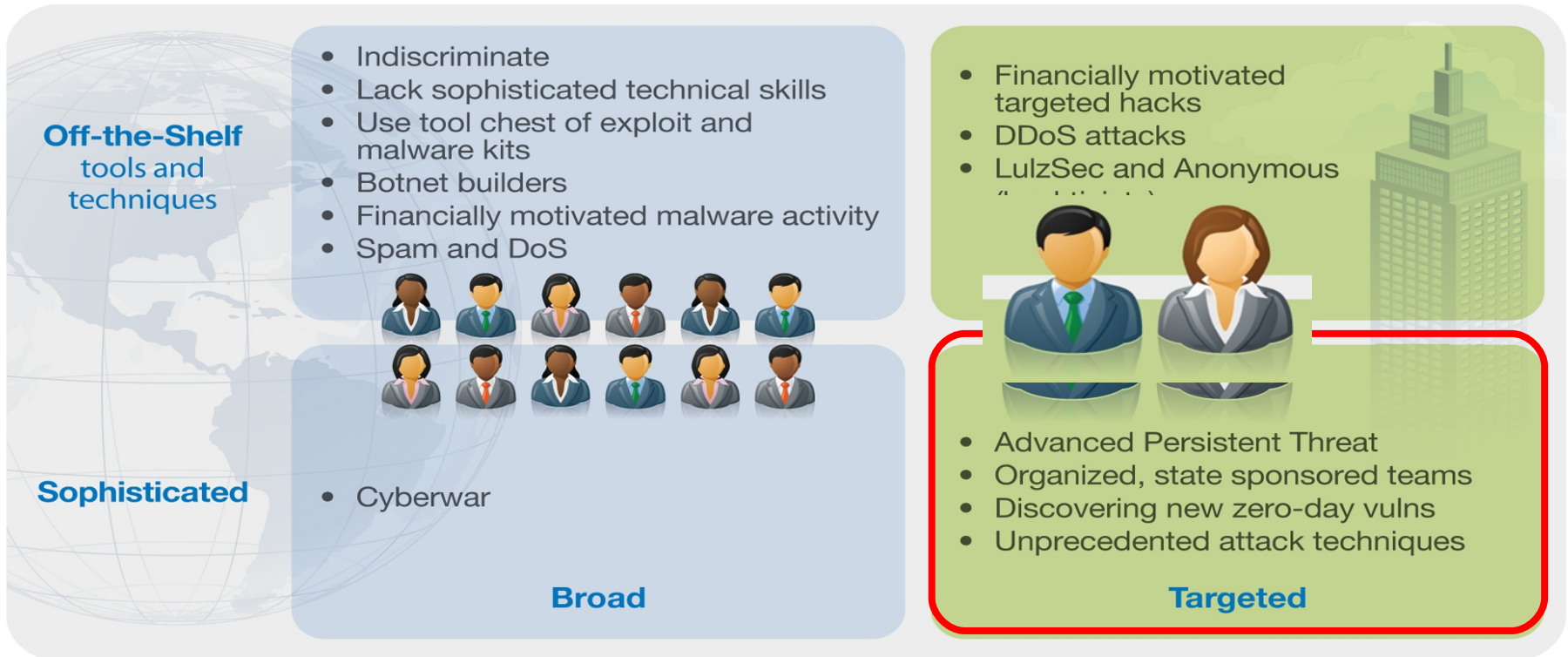


**1.07**

Incidents per  
one million attacks<sup>1</sup>



# Attackers are using sophisticated techniques to bypass defenses



***“Advanced Persistent Threat” is the approach often used by State-Sponsored Entities***

Source: IBM X-Force Research and Development

## Advanced

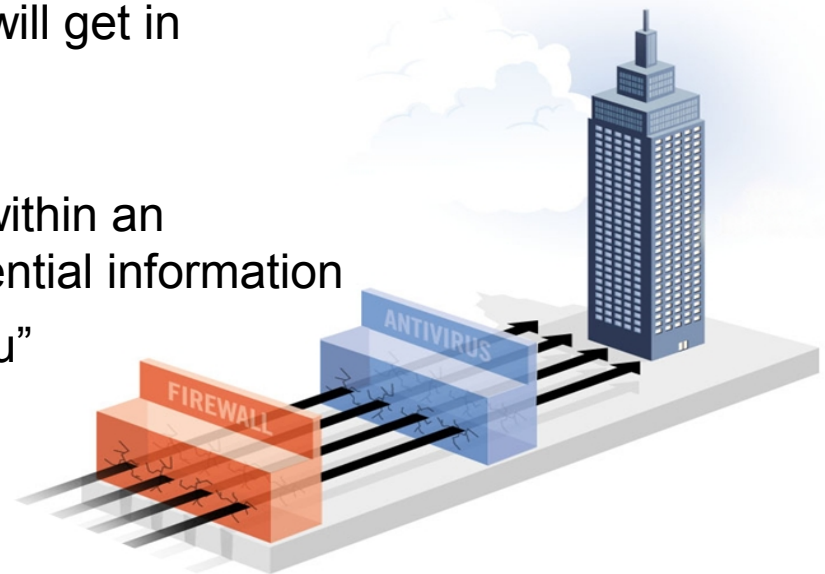
- Exploiting unreported (zero-day) vulnerabilities
- Advanced, custom malware is not detected by antivirus products
- Coordinated, well researched attacks using multiple vectors

## Persistent

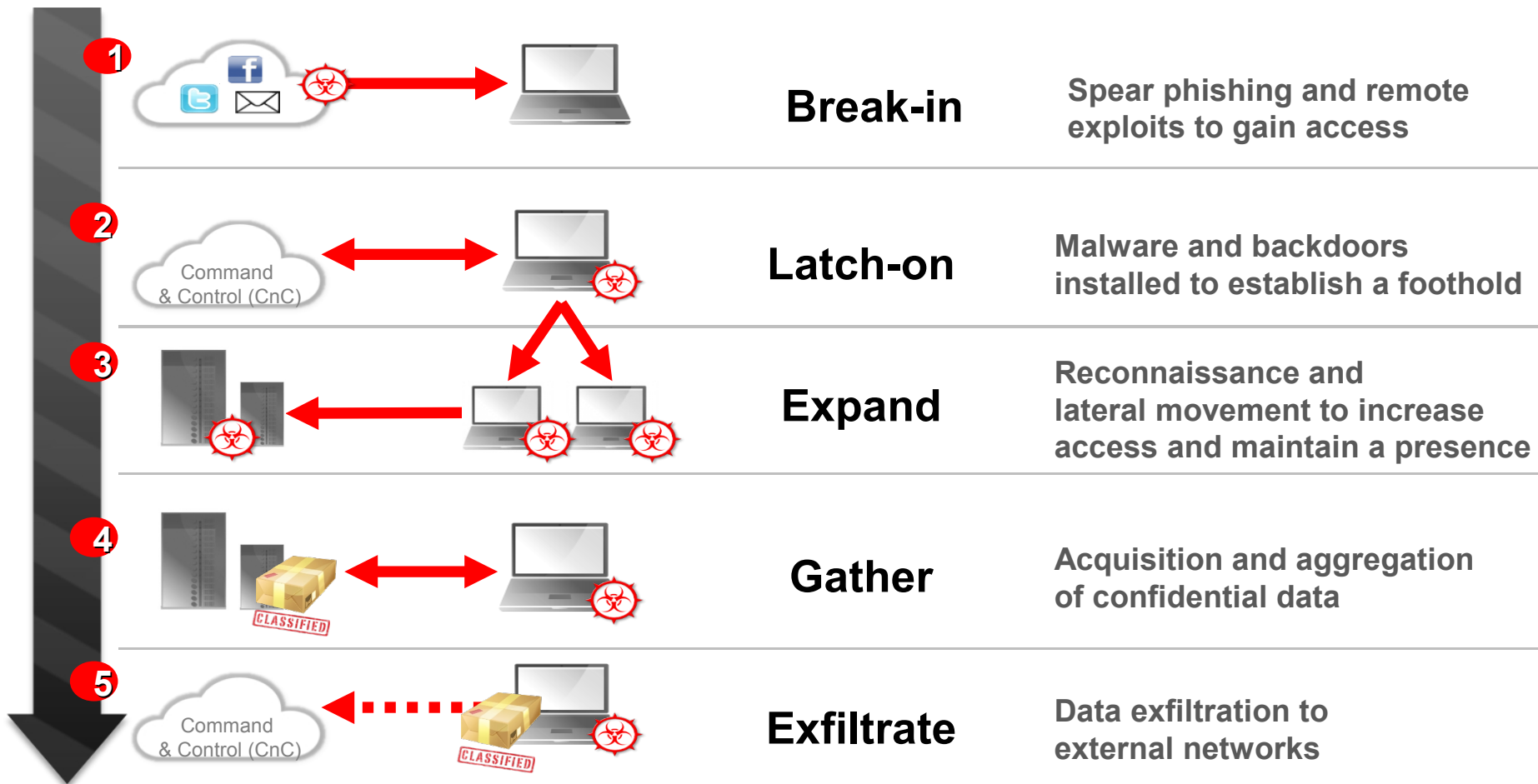
- Attacks last for months or years (average: 1 year; longest: 4.8 years)<sup>1</sup>
- Attackers are dedicated to the target – they will get in

## Threat

- Targeted at specific individuals and groups within an organization; aimed at compromising confidential information
- Not random attacks – they are “out to get you”

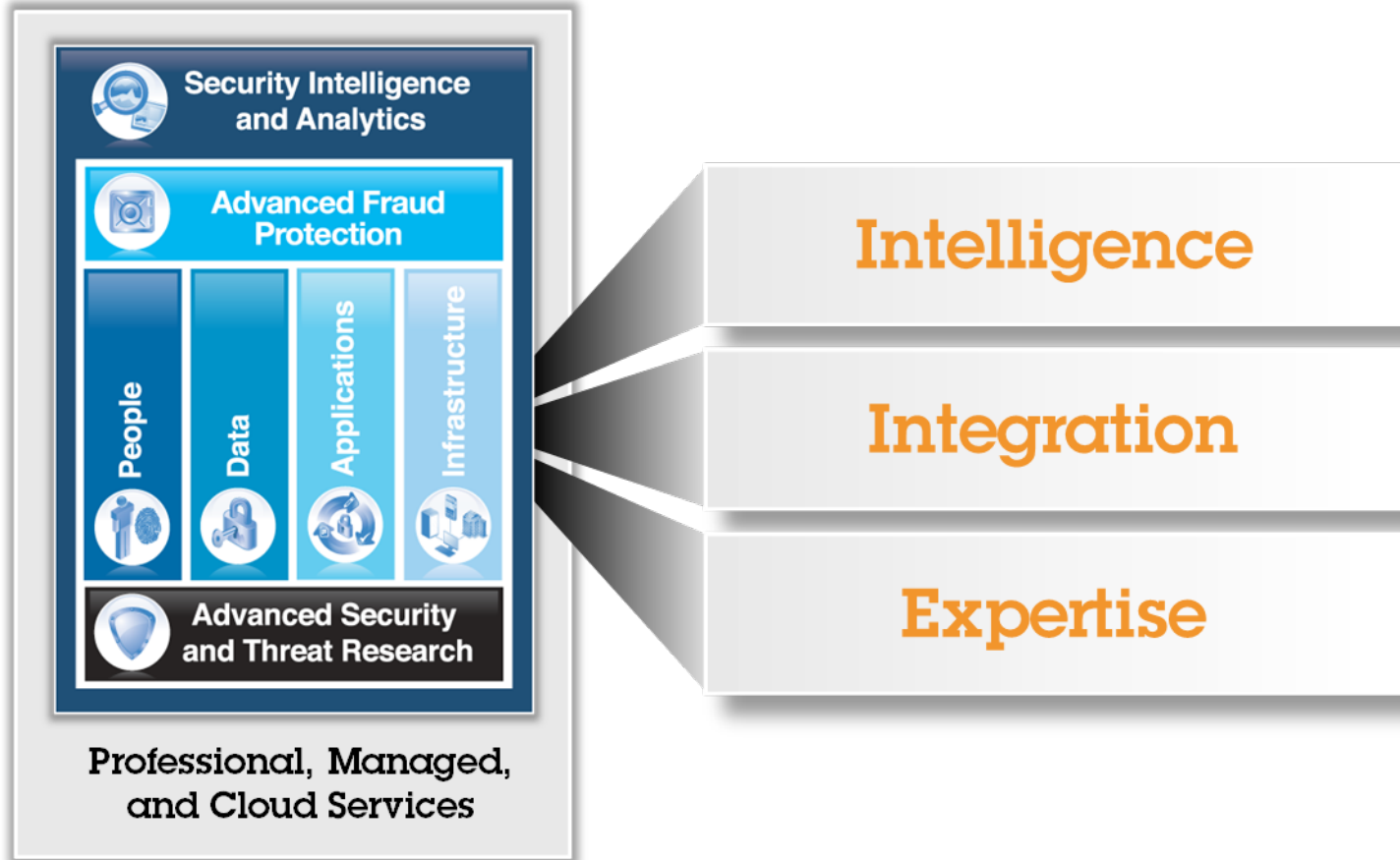


# Attackers follow a 5-Stage attack chain





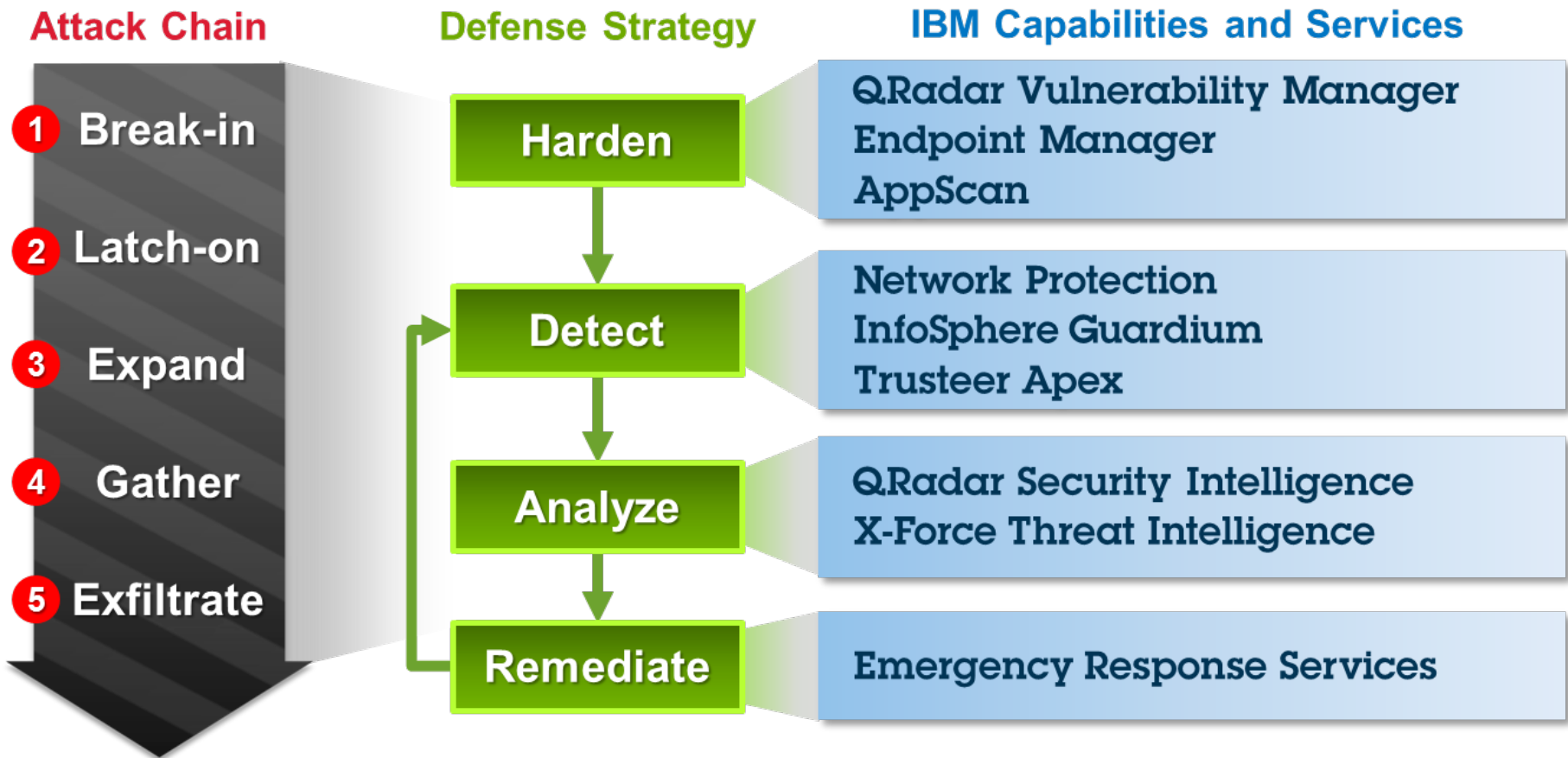
# IBM Security Framework



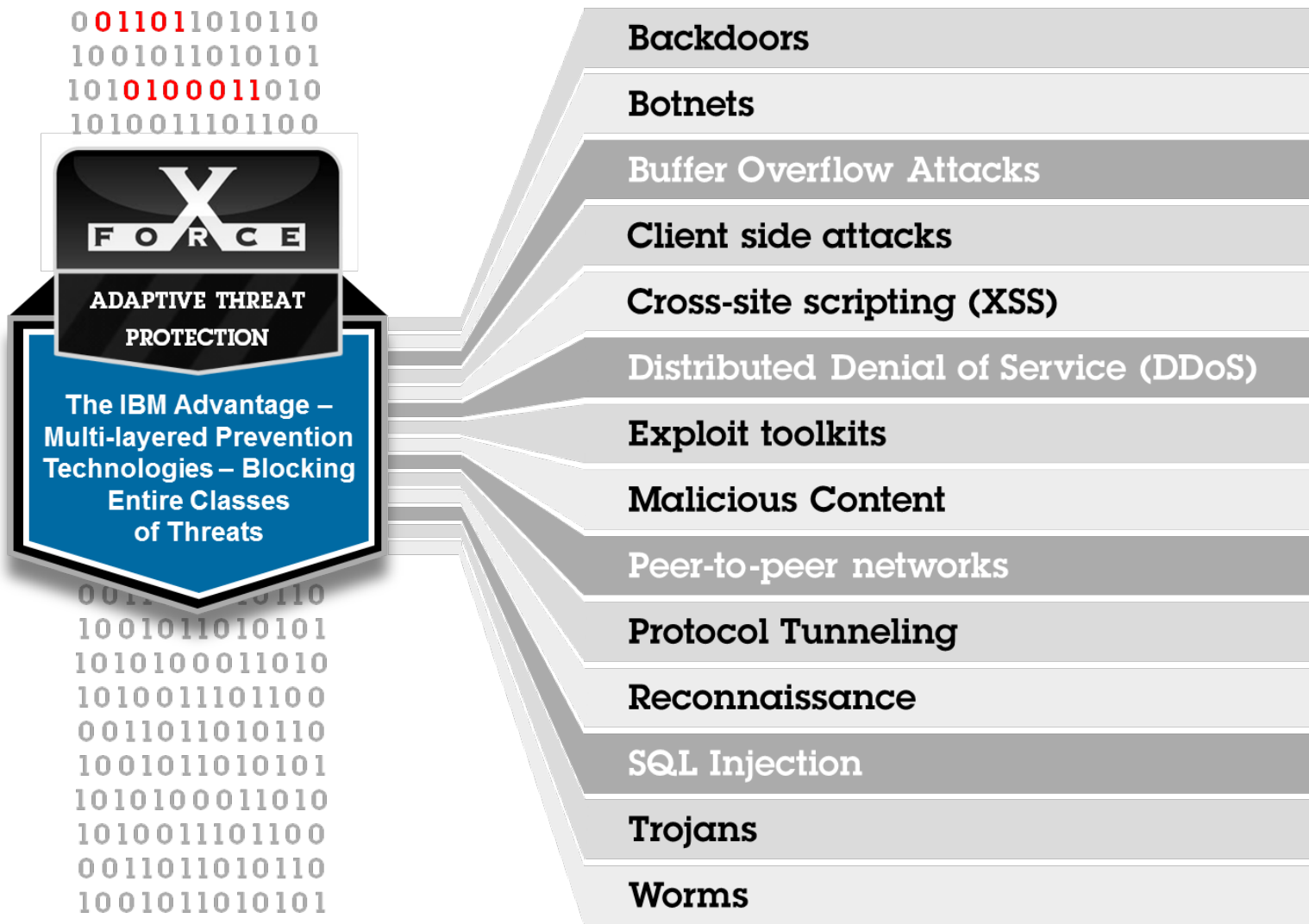


# Advanced Threat Protection

*Staying ahead of sophisticated attacks*



# Staying ahead of the threat with IBM Threat Protection

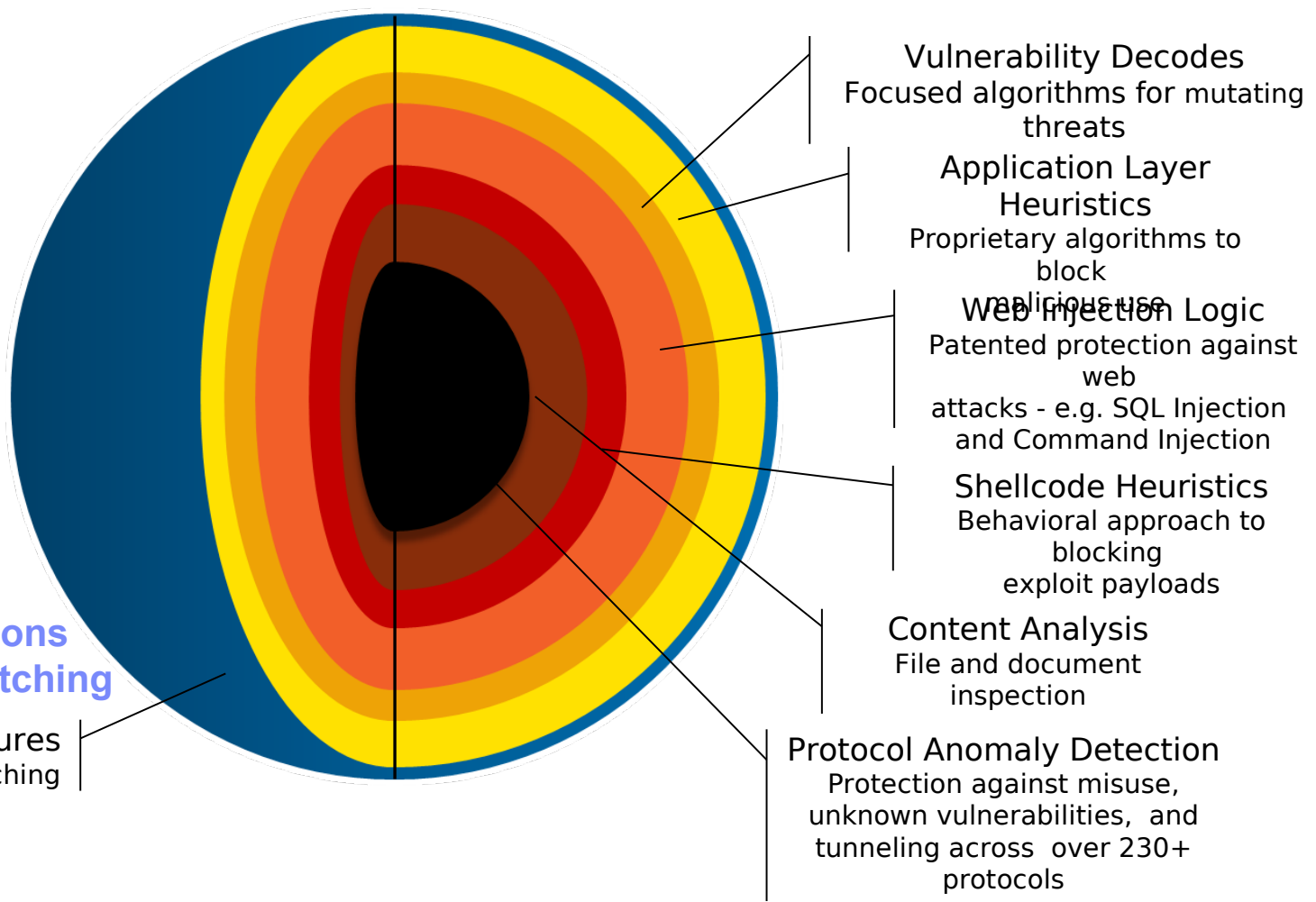


# Multiple intrusion prevention technologies working in tandem

## Multiple intrusion prevention technologies working in tandem

**Spectrum of Vulnerability and Exploit Coverage**

**IBM stays ahead of the threat with these protection engines**

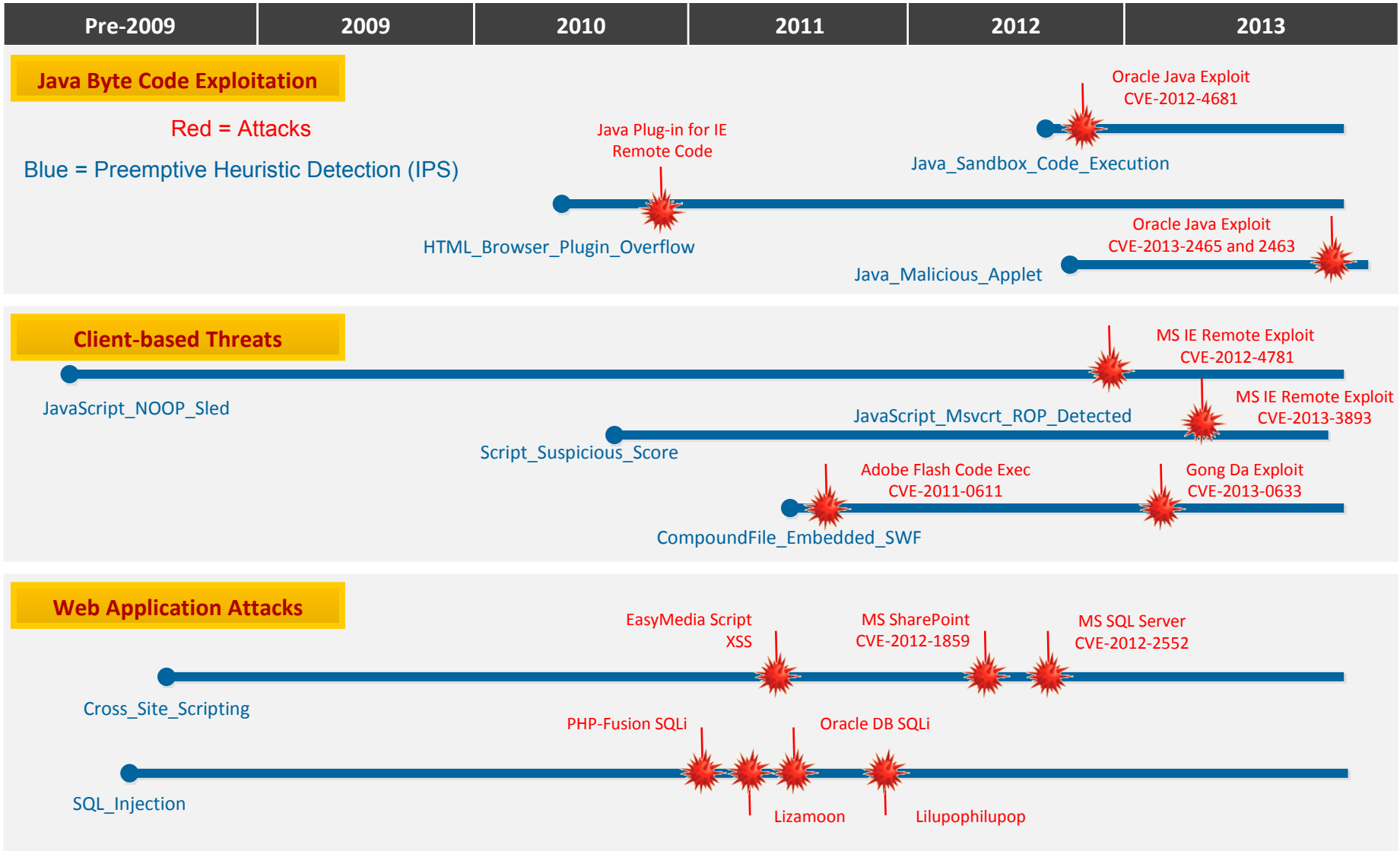


**Some IPS solutions stop at pattern matching**

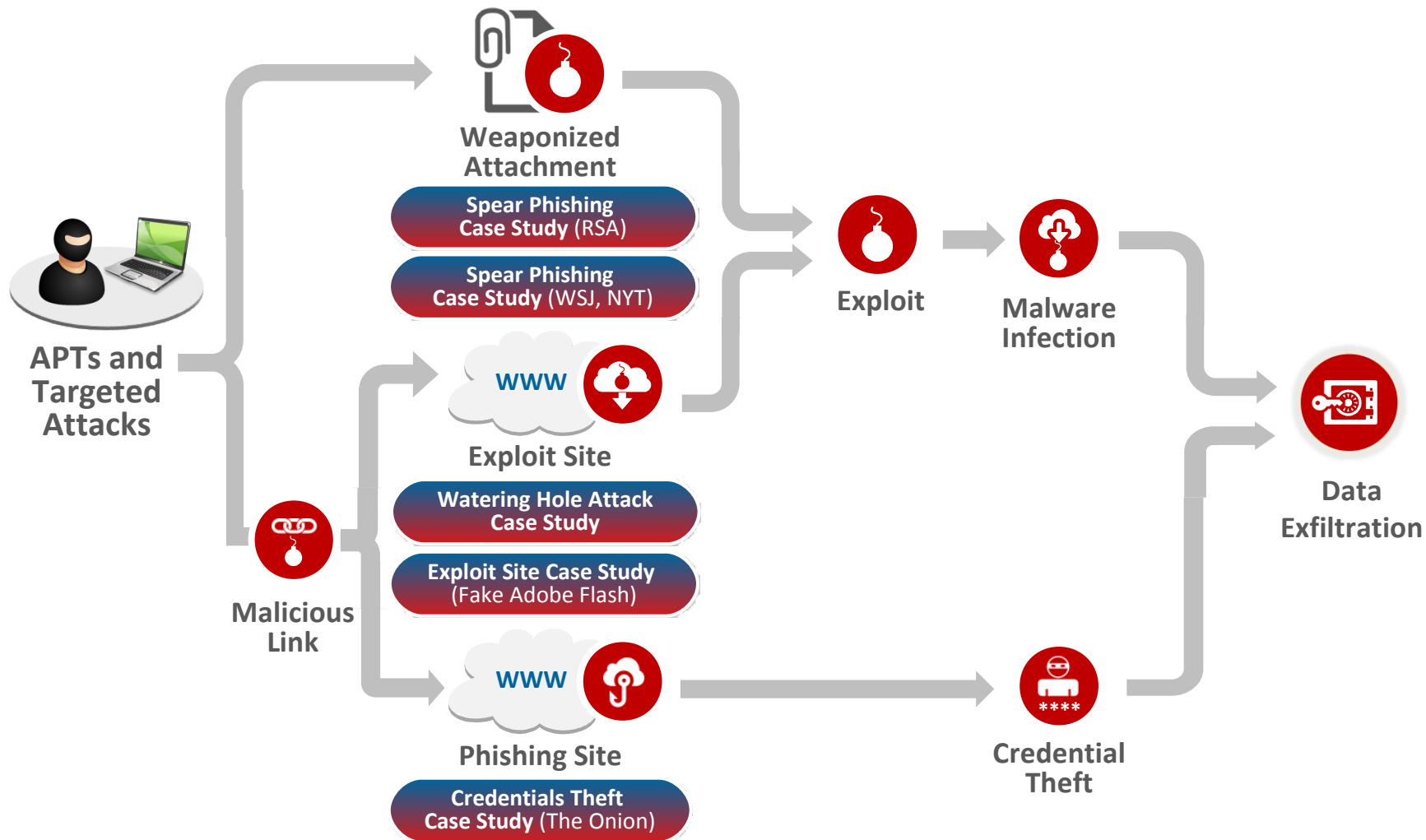
Exploit Signatures  
Attack specific pattern matching

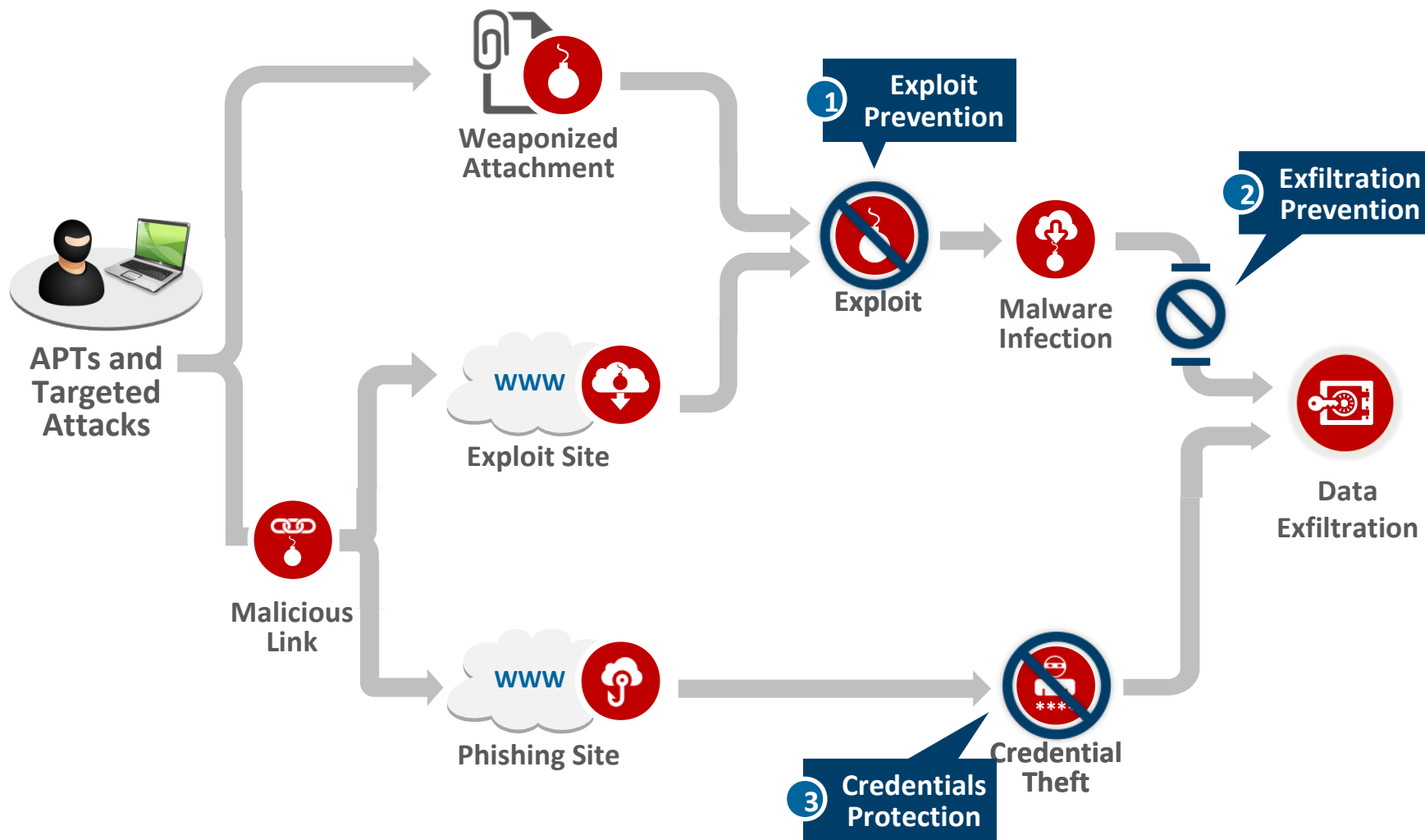
# The Result = Preemptive protection for today's threats

The signatures and examples shown in this slide are for representation of the heuristic coverage available and do not demonstrate the entire listing of attacks from the time the signature was created.

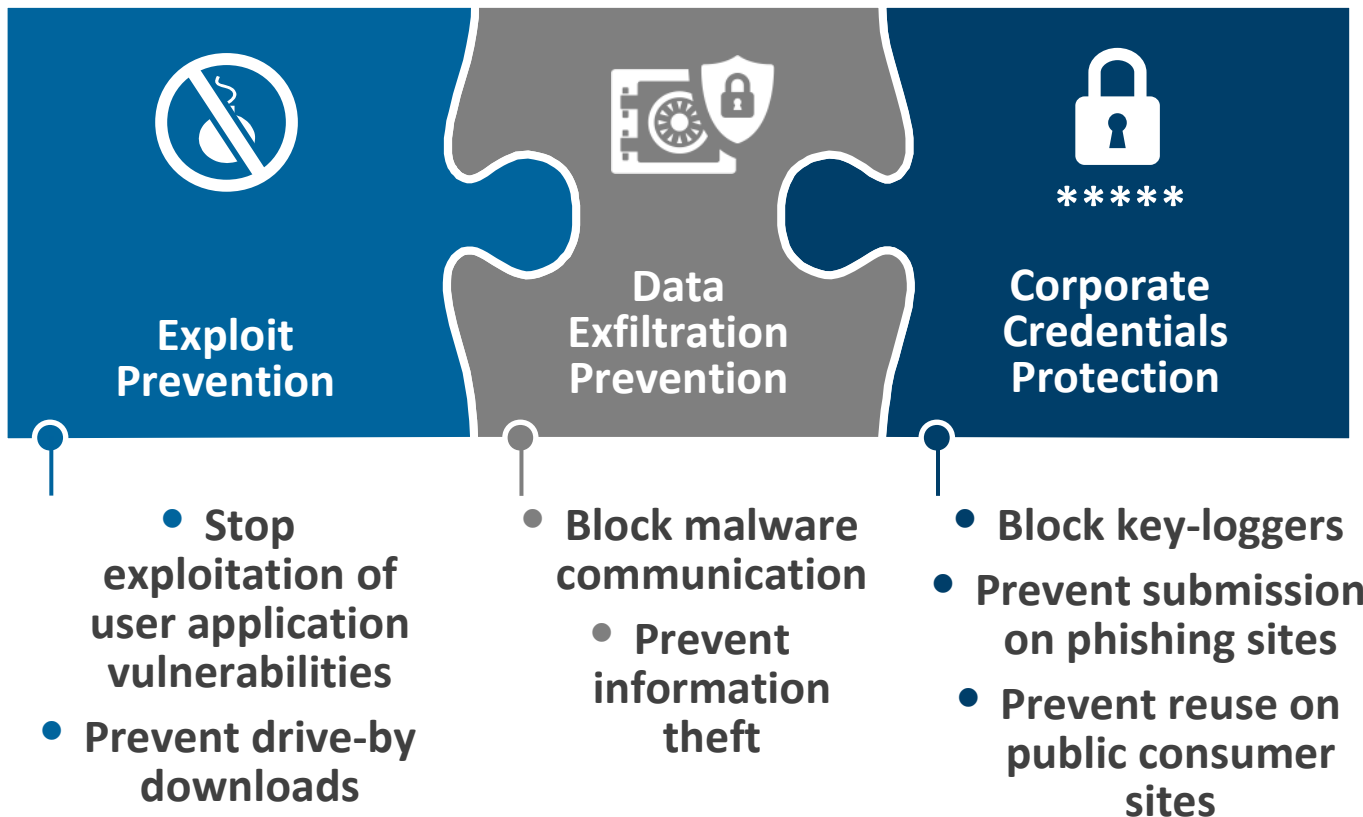








# Trusteer Apex: Three Security Layers





# Trusteer Apex Exploit Prevention

# Stateful Application Control

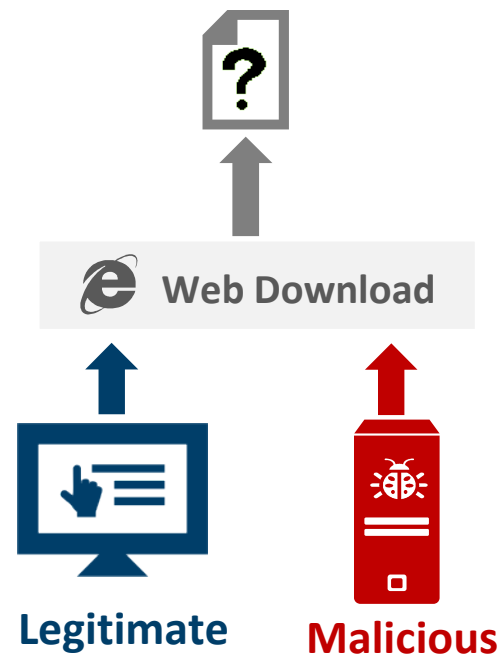
## Analyzing Application Action (What?) + Application State (Why?)

**What** is the application doing?

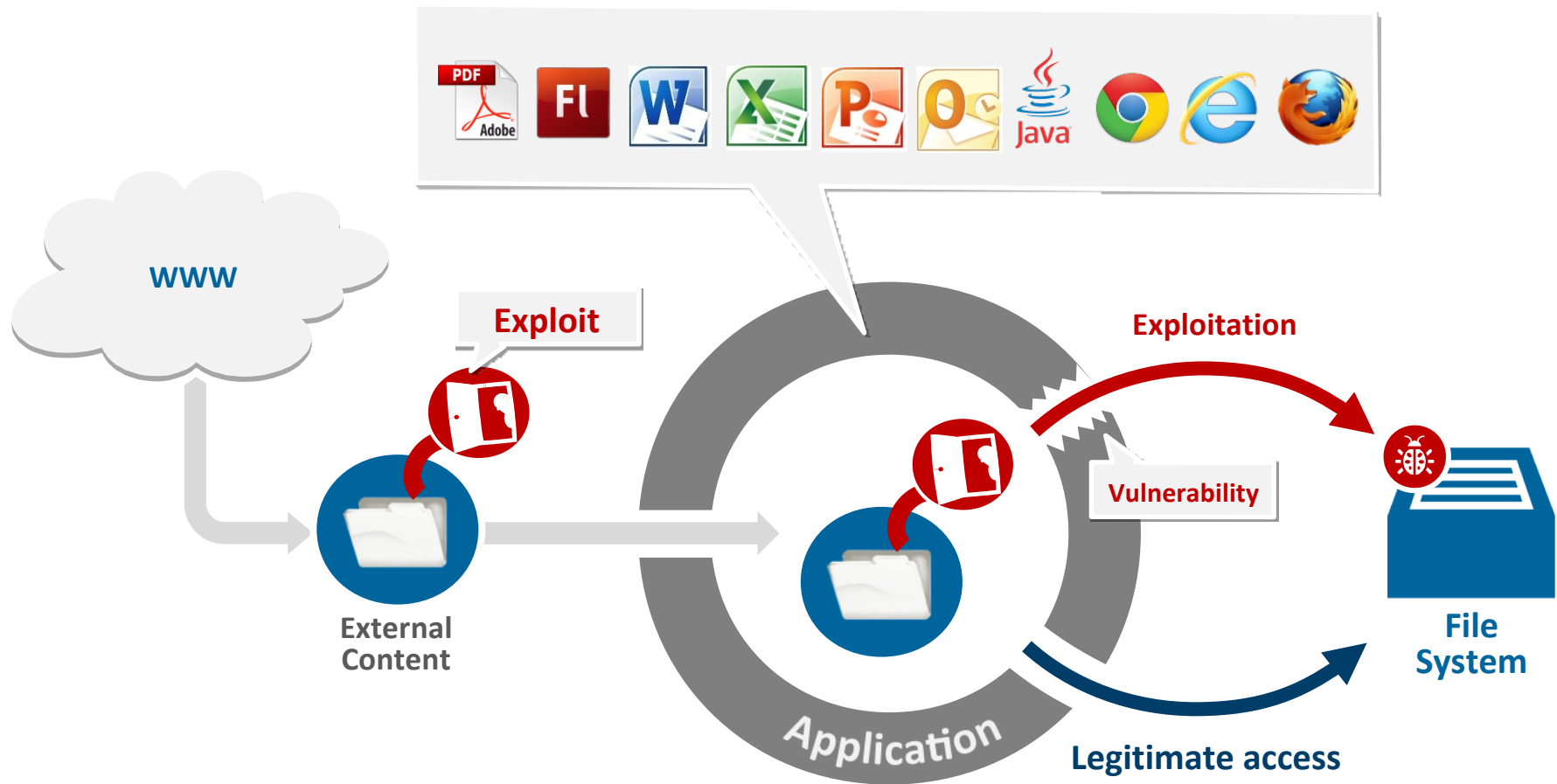
**Action:** a file is written to the file system and executed

**Why** is it doing it?

**State:** user initiated download



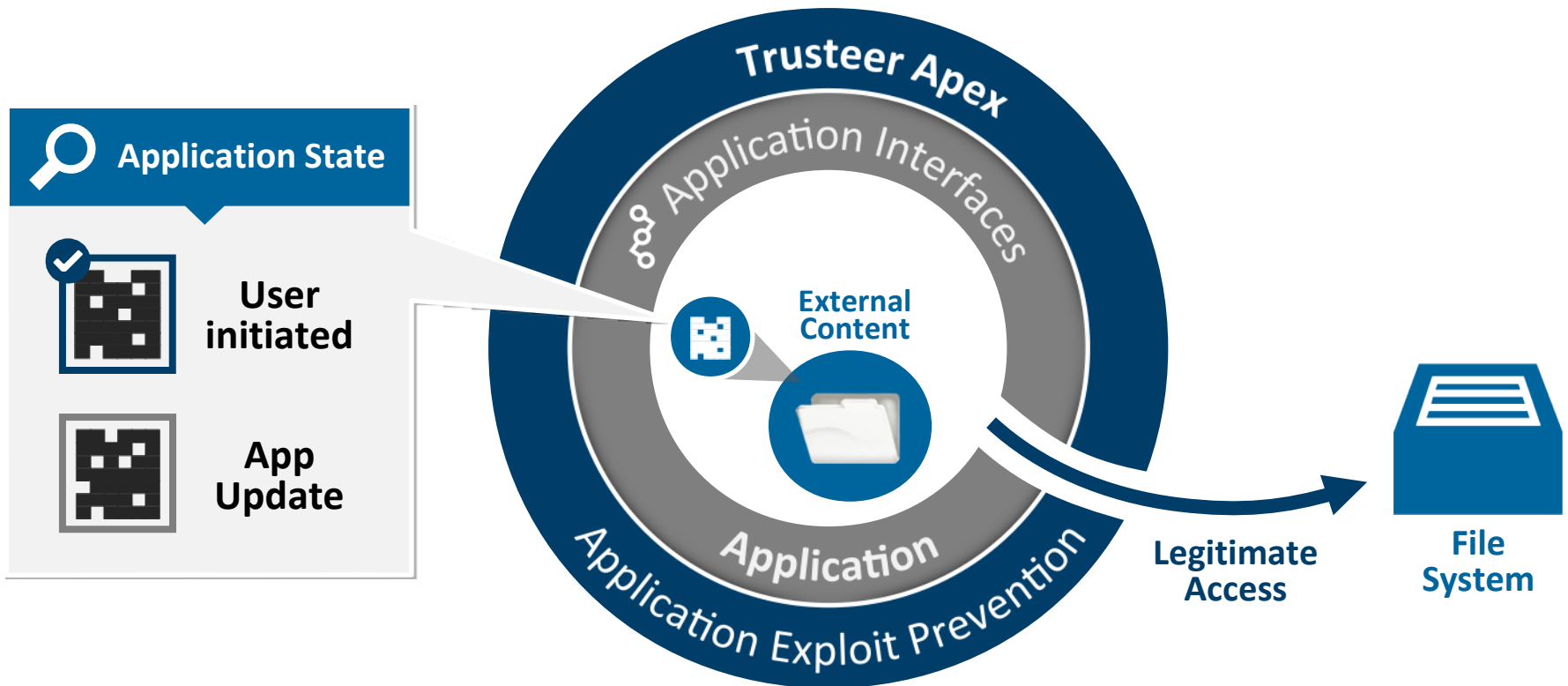
# Application Exploit Prevention: What is an exploit?



**An exploit is a piece of software that uses an application vulnerability to cause unintended application behavior**

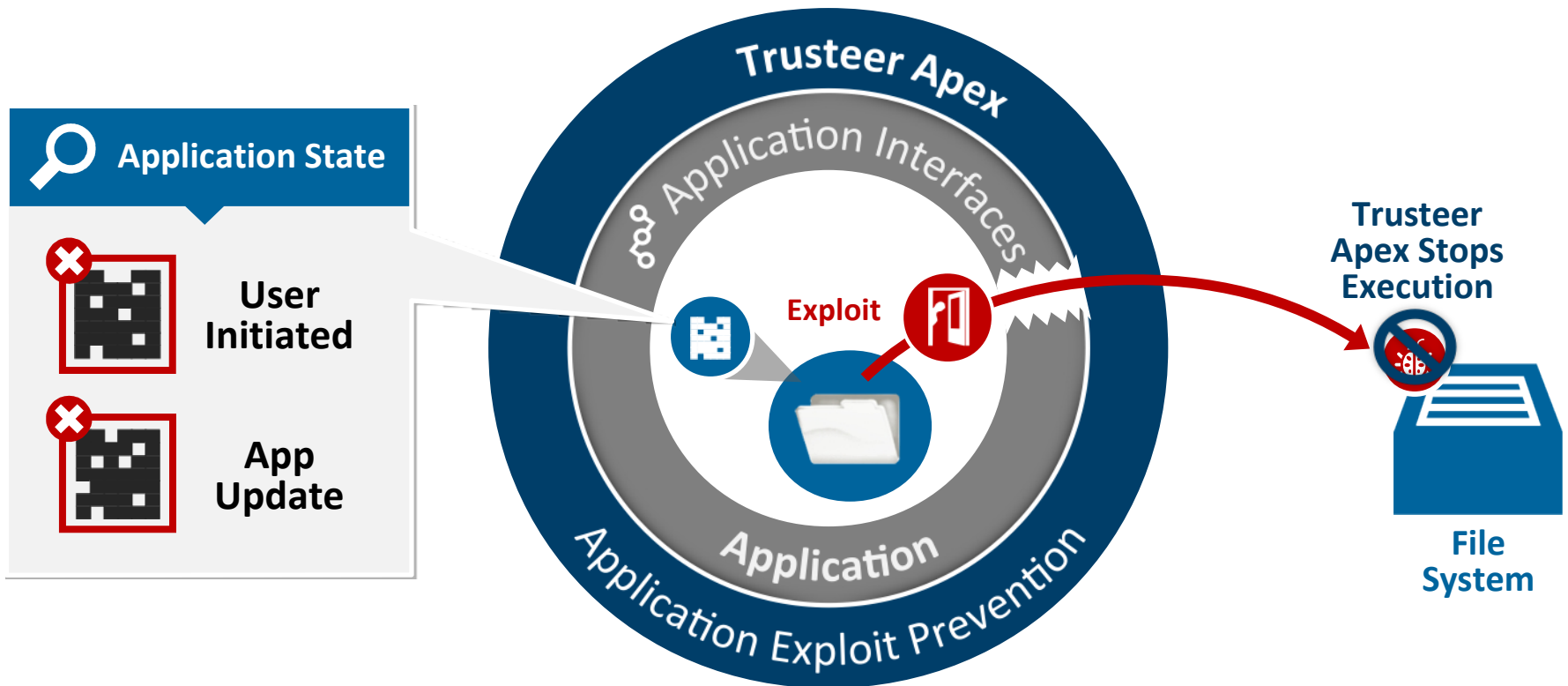
# Application Exploit Prevention: Verify Application State

Allow application action with a approved state



# Application Exploit Prevention: Verify Application State

Stop application actions with unknown state



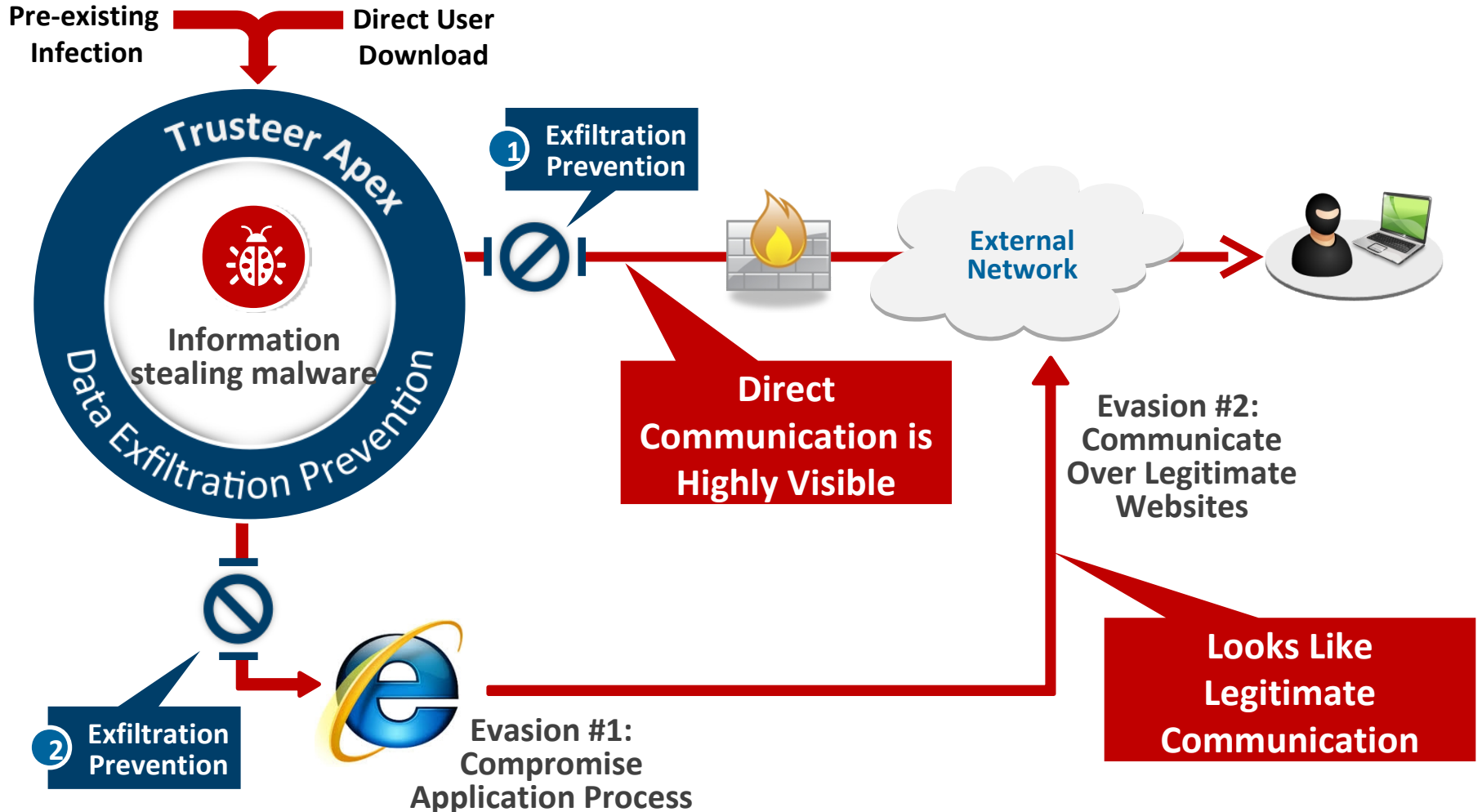




# Trusteer Apex Data Exfiltration Prevention

# Data Exfiltration Prevention: Block Malicious External Communication

**Block suspicious executables that open malicious communication channels**

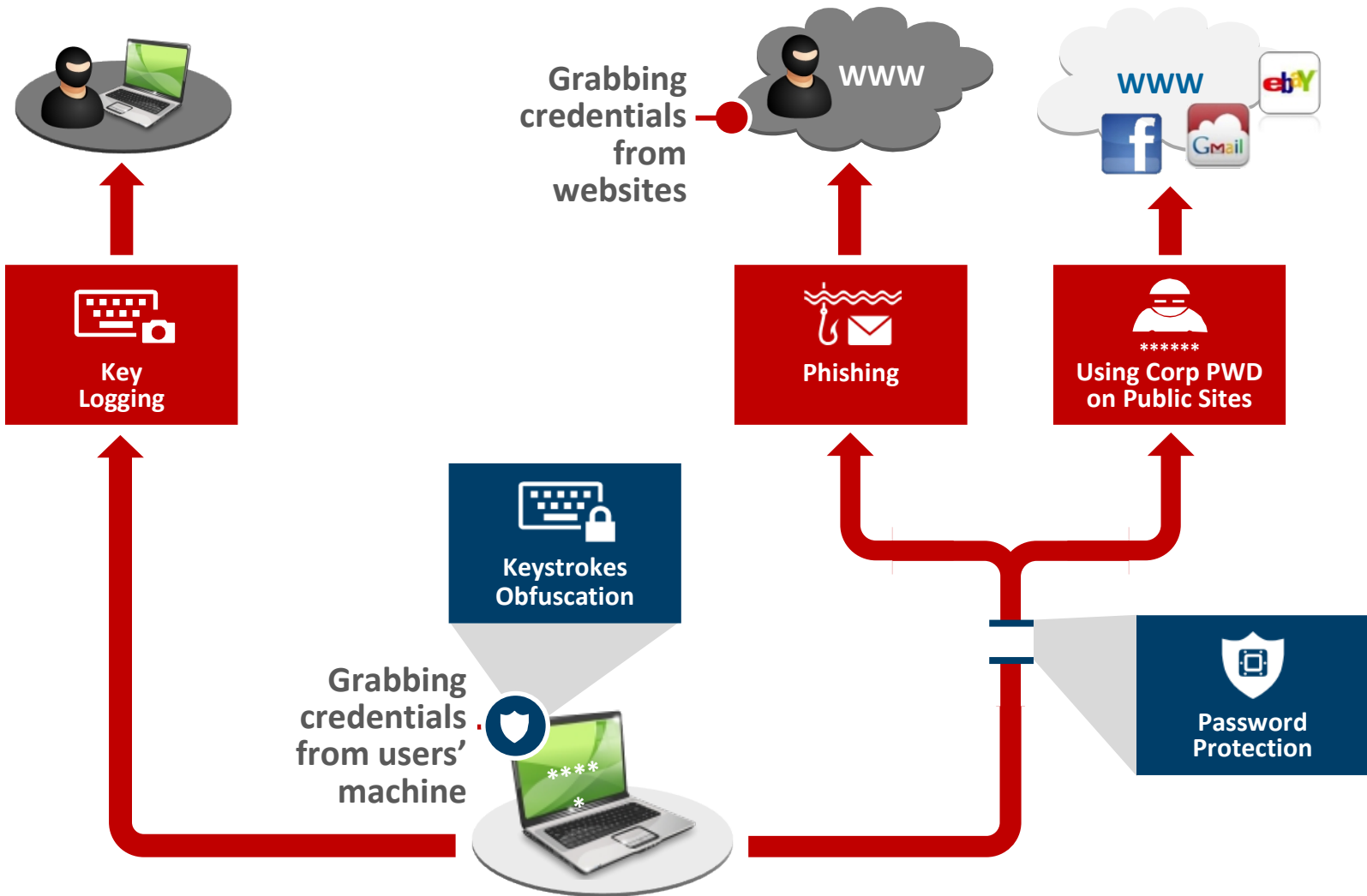




# Trusteer Apex Enterprise Credentials Protection

# Data Exfiltration Prevention

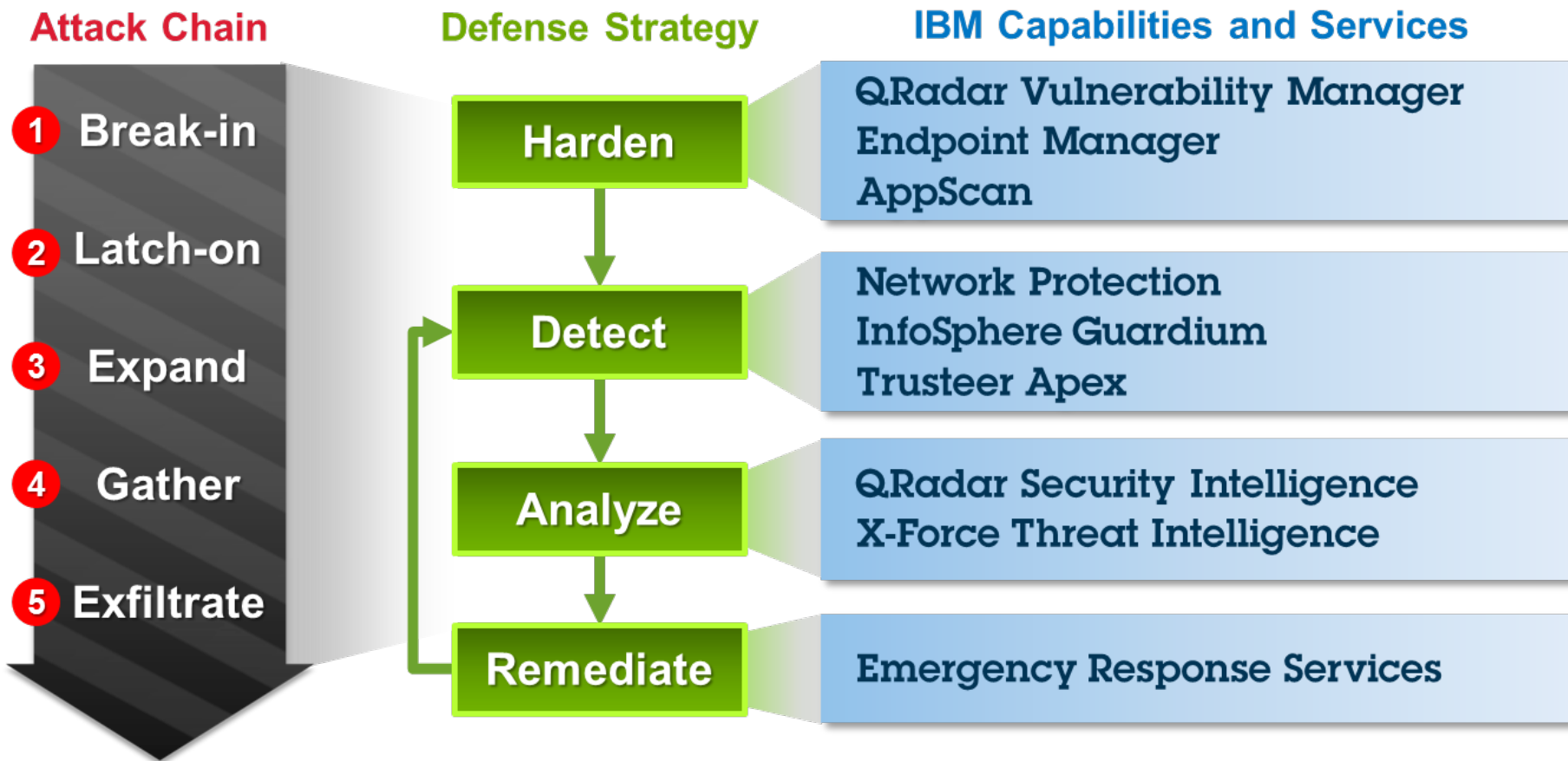
## Prevent Credentials Theft





# Advanced Threat Protection

*Staying ahead of sophisticated attacks*



# What to do if you have been breached

1. Call IBM Emergency Response Services (24x7):



**The (cyber)storm is coming. ARE YOU READY?**

**Emergency? Call:** (US) +1.888.241.9812 | (WW) +1.312.212.8034

Or get started with a [penetration test](#) or an [incident response plan](#)

2. Proactively assess risk and reduce future breach likelihood:

- Cyber Incident response training and simulated exercises to determine level of preparedness
- Incident Response Program gap assessment to ensure enterprise readiness and responsiveness when an incident occurs
- Active Threat Assessment as a preemptive service to determine weaknesses requiring remediation
- X-Force threat analysis service is available from IBM experts **24x7**

## Key Features

**24x7x365 Hotline** for clients to call from anywhere worldwide for assistance if they believe they are experiencing an incident

**Incident Case Managers** who maintain calm, focus, and manage the incident and environment to completion and satisfaction

**Advanced tools, expertise and scale** for any platform, size client, and location worldwide

**Globally collected intelligence** applied to each engagement to improve outcomes and efficiencies

**Unlimited emergency declarations**

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Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed or misappropriated or can result in damage to or misuse of your systems, including to attack others. No IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT SYSTEMS AND PRODUCTS ARE IMMUNE FROM THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.



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