Security Intelligence.

Think Integrated.

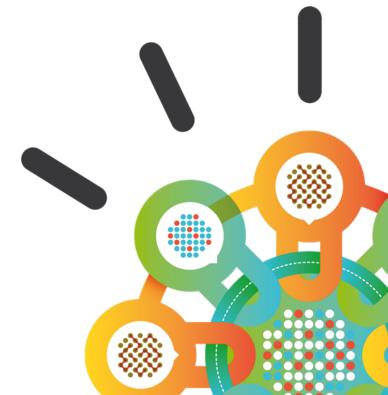
IBM Security Átfogó megoldások a komplex támadások ellen

Csendes Balázs Security Intelligence Leader, CEE IBM

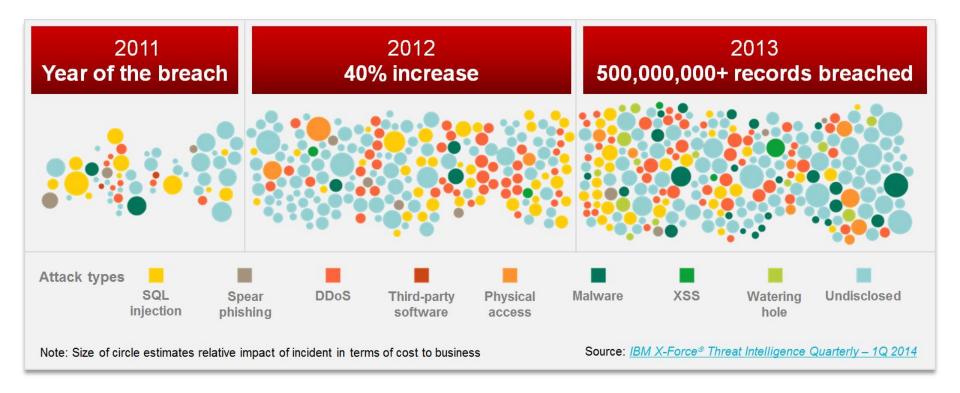
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March 17, 2015



Sophisticated attackers break through safeguards every day



of organizations say
data theft and cybercrime
are their greatest threats

2012 IBM Global Reputational Risk & IT Study



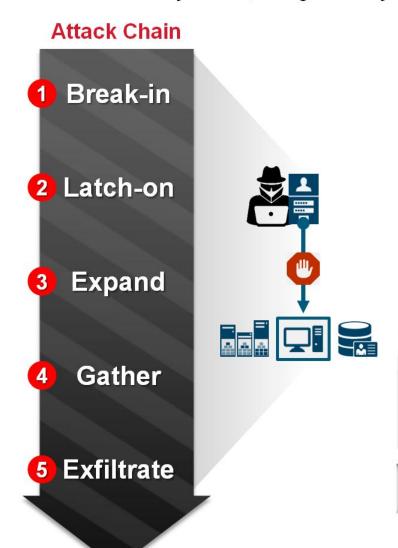
2014 Cost of Data Breach, Ponemon Institute



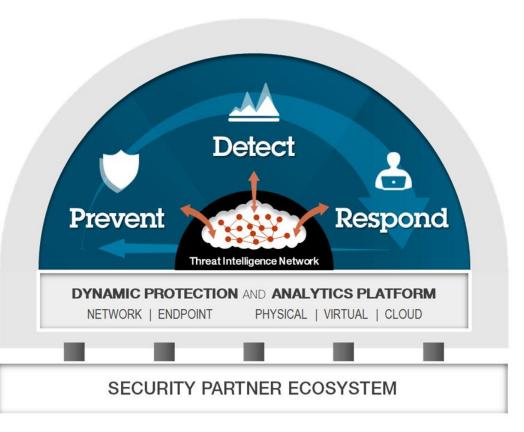
12

Introducing the IBM Threat Protection System

IBM delivers a dynamic, integrated system to disrupt the lifecycle of advanced threats



Prevent. Detect. Respond.



Focus on critical points in the attack chain with preemptive defenses on both the endpoint and network

ENDPOINT

NETWORK

Prevent malware installs

- Verify the state of applications
- Block exploit attempts used to deliver malware

Exploit Disruption

Prevent mutated exploits

- Verify the state of network protocols
- Block unknown exploits with behavioral heuristics

Prevent control channels

- Stop direct outbound malware communications
- Protect against process hijacking

Malware Quarantine

Prevent active beaconing

 Stop malware and botnet control traffic with real-time reputation and SSL inspection

Prevent credential loss

- Block keyloggers
- Stop credential use on phishing sites
- Limit reuse of passwords

User Protection

Prevent malicious apps

- Block access to malicious websites
- Protect against web application misuse

On the Endpoint

Trusteer Apex Malware Protection

On the Network
IBM Security Network Protection XGS



Continuously monitor security-relevant activity from across the entire organization

Pre-Attack Analytics

Predict and prioritize security weaknesses before adversaries

- Use automated vulnerability scans and rich security context
- Emphasize high-priority, unpatched, or defenseless assets requiring attention

IBM Security QRadar Vulnerability Manager



IBM Security QRadar Security Intelligence Platform

Real-time Attack Analytics

Detect activity and anomalies outside normal behavior

- Correlate and baseline massive sets of data
- From logs, events, flows, user activity, assets, locations, vulnerabilities, external threats, and more

IBM Security QRadar SIEM



Respond

Rapidly investigate breaches, retrace activity, and learn from findings to remediate weaknesses

Post-Attack Incident Forensics

Reduce the time to fully discover what happened and when it occurred

- Index and reconstruct attack activity and content from full-packet network data
- Apply search engine technology and advanced visualizations



IBM Security

QRadar Incident Forensics

Rapid Response Integrations

Quickly expand security coverage to prevent further harm

- Share indicators across control points
- Dynamically apply customized rules

IBM Security
Capability Integrations

Emergency Response Services

Help prepare for and withstand security breaches more effectively

 Gain access to key resources that can enable faster recovery and help reduce incident business impact

> IBM Emergency Response Services





The Security Intelligence Life Cycle: Boundaries of QRadar Roadmap

What are the external / internal threats?

Are we configured to protect against these threats?

What is happening right now?

What is the impact?

Vulnerability

PREDICTION / PREVENTION PHASE



7



Pre-Exploit

Risk Management • Compliance Management Vulnerability Management • Configuration Monitoring



REACTION / REMEDIATION PHASE

Remediation



Post-Exploit

SIEM • Network Behavior Anomaly Detection Log Management • Data Loss Capture Packet Forensics • Remediation • Dashboards







IBM Security Intelligence



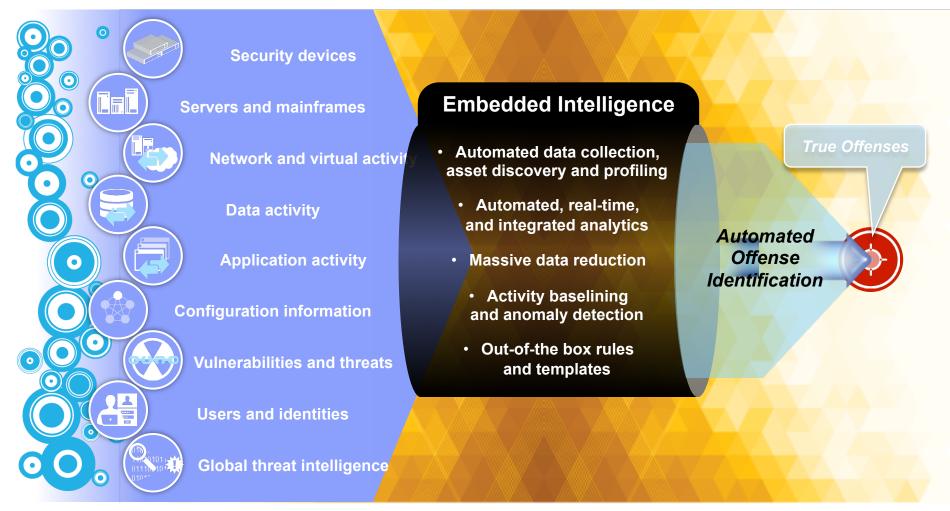




QRadar delivers embedded intelligence to find true offenses

Extensive Data Sources

...Suspected Incidents





QRadar Product Portfolio

Area of Focus

Security Intelligence platform that enables security optimization through advanced threat detection, meet compliance and policy demands and eliminating data silos



Portfolio Overview

QRadar Log Manager

- Turnkey log management for SMB and Enterprises
- Upgradeable to enterprise SIEM

QRadar SIEM

- Integrated log, flow, threat, compliance mgmt
- Asset profiling and flow analytics
- Offense management and workflow

Network Activity Collectors (QFlow)

- · Network analytics, behavior and anomaly detection
- Layer 7 application monitoring

QRadar Risk Manager

- Predictive threat modeling & simulation
- · Scalable configuration monitoring and audit
- Advanced threat and impact analysis

QRadar Vulnerability Manager

- Integrated Network Scanning & Workflow
- · Leverage SIEM, Threat, Risk to prioritize vulnerabilities

QRadar Incident Forensics

- Reconstruct raw network packets to original format
- Determine root cause of security incidents and help prevent recurrences



A Real World Example



About Target Corporation

- Target Corporation is an American retailing company, founded in 1902 and headquartered in Minneapolis, Minnesota. It is the second-largest discount retailer in the United States, Walmart being the largest. The company is ranked 36th on the Fortune 500 as of 2013 and is a component of the Standard & Poor's 500 index. Its bullseye trademark is licensed to Wesfarmers, owners of the separate Target Australia chain, which is unrelated to Target Corporation.
- The first Target store was opened in 1962 in Roseville, Minnesota. Target grew and eventually became the largest division of Dayton Hudson Corporation, culminating in the company being renamed as Target Corporation in August 2000. Target operates 1,916 stores in the United States; it began operations in Canada in March 2013 and operates 127 locations through its Canadian subsidiary. In December 2013, a data breach of Target's systems affected up to 110 million customers.

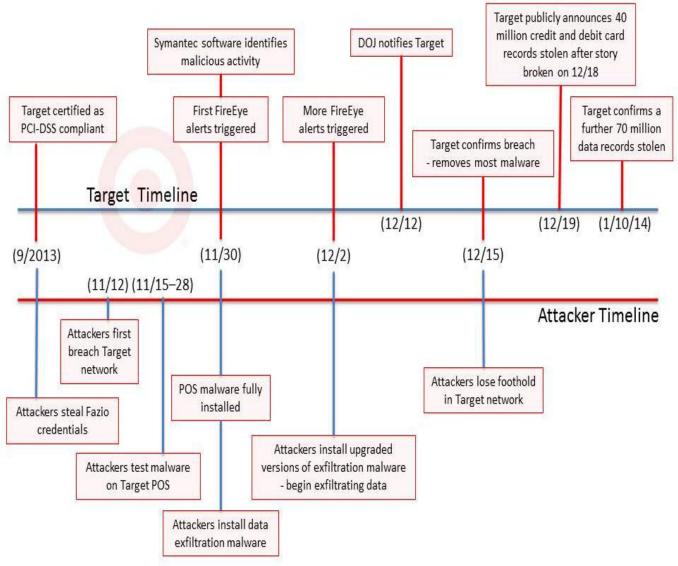
In November and December 2013, cyber thieves executed a successful cyber attack against Target, one of the largest retail companies in the United States. The attackers surreptitiously gained access to Target's computer network, stole the financial and personal information of as many as 110 million Target customers, and then removed this sensitive information from Target's network to a server in Eastern Europe.

John Mulligan, Target's Executive Vice President and Chief Financial Officer, testified that his company "had in place multiple layers of protection, including firewalls, malware detection software, intrusion detection and prevention capabilities and data loss prevention tools." He further stated that Target had been certified in September 2013 as compliant with the Payment Card Industry Data Security Standards (PCI-DSS), which credit card companies require before allowing merchants to process credit and debit card payments.

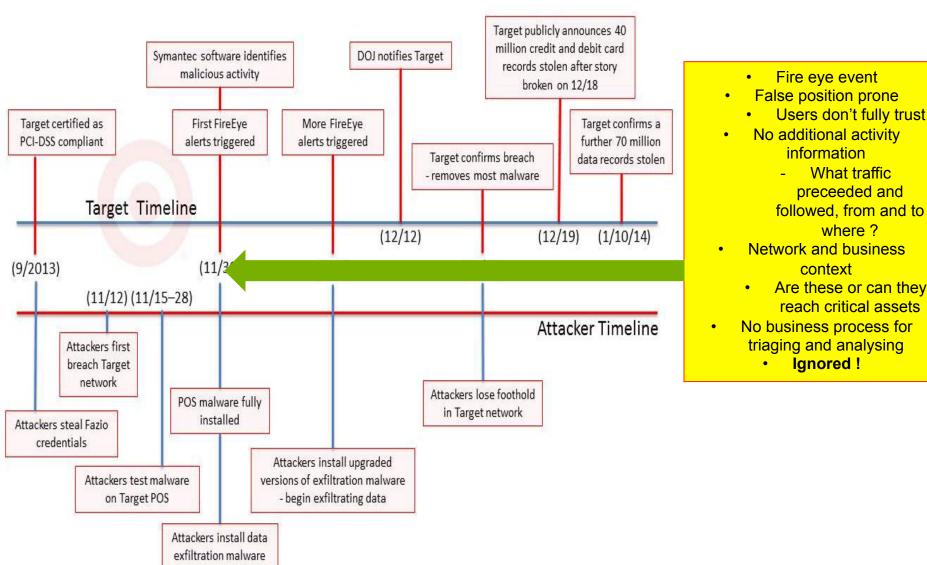
Source: "Kill Chain" Analysis of the 2013 Target Data Breach; Committee On Commerce, Science and Transportation



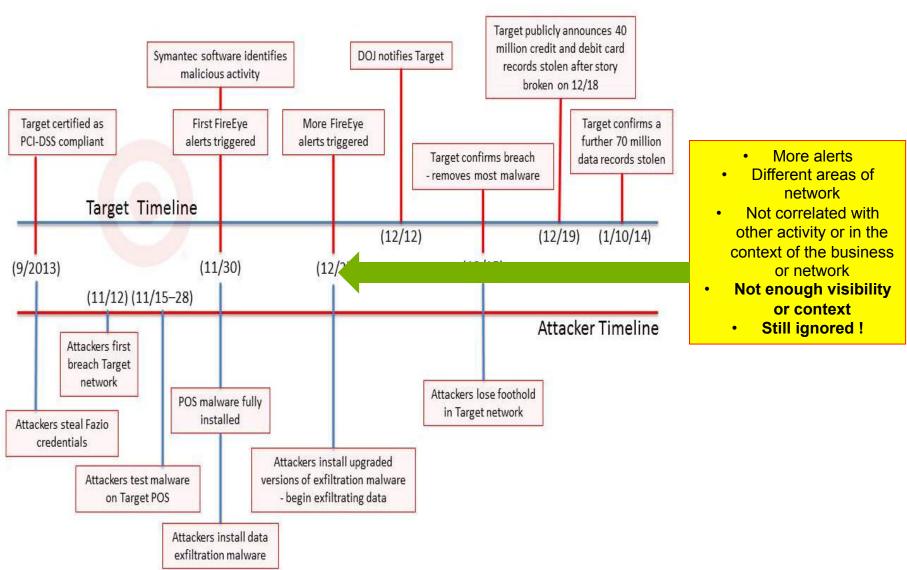
Kill Chain Timeline



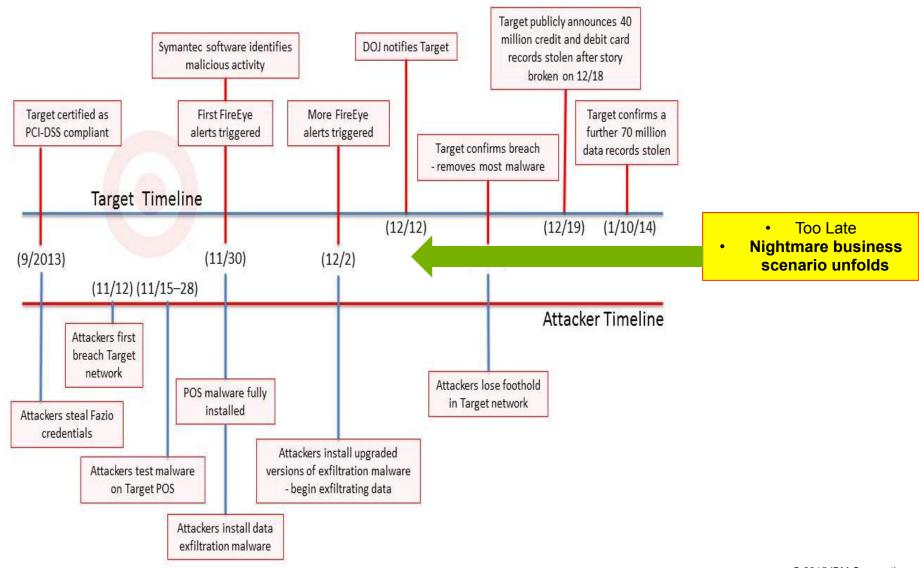
First Trigger – Already Compromised



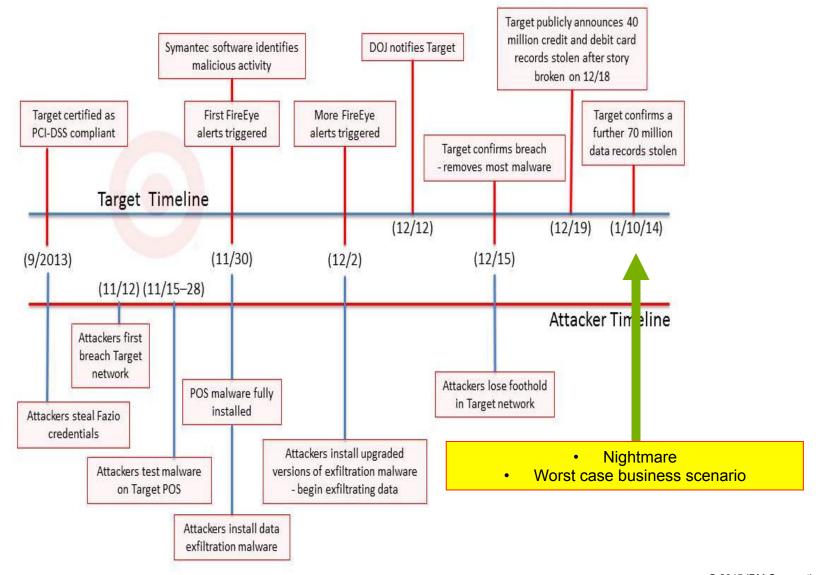
More Alerts – No Linkage



DOJ Notification – 40 Million Records Gone

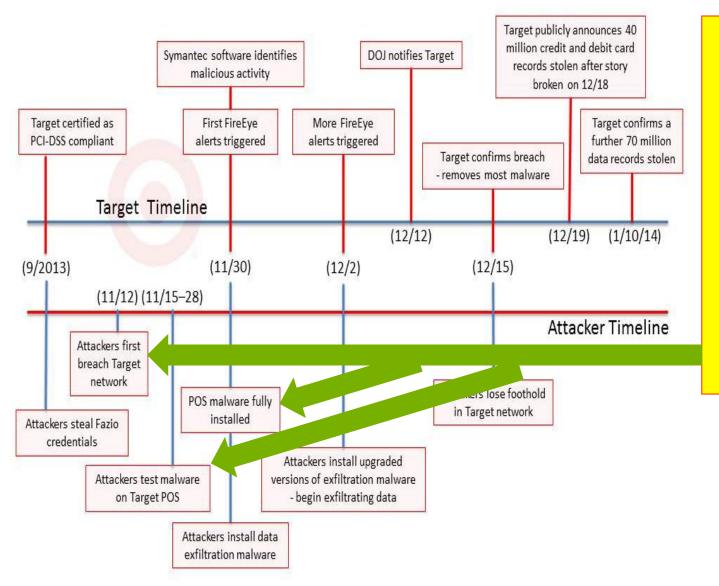


Continued Breaches Undetected









- Security Logs + Events
- Network Flow Data
- Vulnerability Data
- Network Topology
- Asset profile with business context, risk, ownerships
- Correlation Rules
- Behavioural Analysis
- Increased incident relevance
- One incident case and analysis workflow
- Integrated Forensics Rapid confirmation of attack
- Massive reduction of window of exposure



Analysts have noticed

Domain	Market Segment / Report	Gartner Magic Quadrant	Forrester Wave	IDC Market Share / Scape	
Security Intelligence	Security Information and Event Management (SIEM)	Leader 2014		Leader 2013	
Fraud Protection	Web Fraud Detection (Trusteer)	Leader 2013			
Identity and Access Management	Federated Identity Management and Single Sign-On			Leader 2013	
	Identity and Access Governance	Leader 2015	Strong Contender		
	Role Management and Access Recertification		Contender 2011		
	Web Access Management (WAM)	Leader 2013 Market Scope			
	Mobile Access Management	Leader, 20	_eader, 2014 Customer Value, Frost & Sullivan		
	Identity Provisioning Management	Leader, 2014 Leadership Compass, KuppingerCole			
Data Security	Database Auditing and Real-Time Protection		Leader 2011		
	Data Masking	Leader 2014			
Application Security	Application Security Testing (dynamic and static)	Leader 2014	Leader 2014	Leader 2013	
Network, Endpoint and Mobile Security	Network Intrusion Prevention Systems (NIPS)	Challenger 2014			
	Endpoint: Client Management Tools	Leader 2014			
	Endpoint Protection Platforms (EPP)	Visionary 2014	Strong Performer		
	Mobile Security (Fiberlink)	Leader 2014			
Consulting and Managed Services	Managed Security Services (MSS)	Leader 2014 (AP, NA, WW)	Leader 2014 (NA)	Leader 2014	
	Information Security Consulting Services		Leader 2013		
	Public Cloud Service Providers' Security (IBM Bluemix)		Strong Contender		

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, misappropriated or misused or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service or security measure can be completely effective in preventing improper use or access. IBM systems, products and services are designed to be part of a lawful, 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 ANY SYSTEMS, PRODUCTS OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

Thank You

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