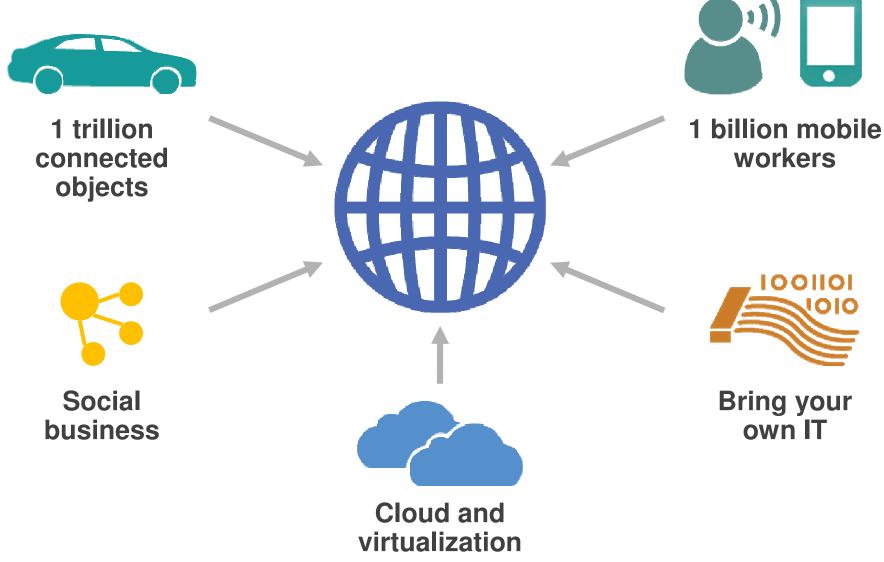


Security Intelligence.

Think Integrated.



Innovative technology changes everything



What is the scale of the problem?

2,641,350

Security Attacks

The Average Company Faces per Week

Who's most at risk?

- 1. Health & Social Services
- 2. Transportation
- 3. Hospitality
- 4. Finance & Insurance
- 5. Manufacturing
- 6. Real Estate
- 7. Mining, Oil & Gas

Top 7 Most Attacked Industries

Recent Increase in Attacks on Pharma

What effect does this have?

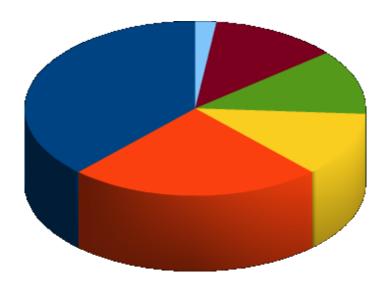
62

Security Incidents

The Average Company Faces per Week

How do attackers attack?

Categories of Attack



- Malicious Code
- Unauthorised Access
- Access Credentials Abuse Denial of Service
- Sustained Probe or Scan
- Low-and-Slow Attack

This is What IBM Sees

How do defenders fail?

- 1.End user didn't think before clicking
- 2. Weak password / default password
- 3.Insecure configuration
- 4. Unpatched hardware / software
- 5. Missing network protection / segmentation

Top 5 Reasons Why Attacks Were Possible

What is good practice?

6

Security Incidents

The Average Mature Company Faces per Week

What type of organisation are you?

Most Mature

Real Estate
Transportation
Hospitality
Finance & Insurance
Health & Social
Services

Least Mature

Construction
Education
Utilities
Mining, Oil & Gas
"Extraterritorial"
Activities

Industry Maturity Indicator based on Incidents / 1M Attacks

Motivations and sophistication are rapidly evolving

National Security

Espionage, Activism

Monetary Gain

Revenge, Curiosity



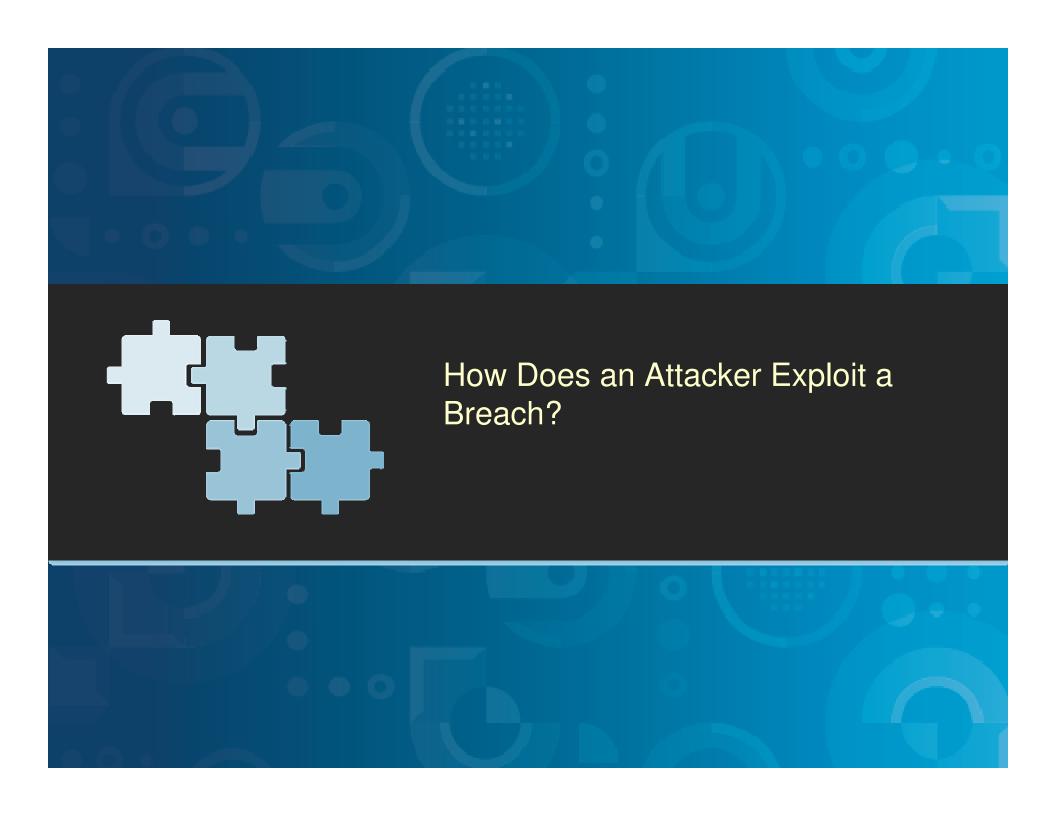
Nation-state actors
Stuxnet

Competitors and Hacktivists **Aurora**

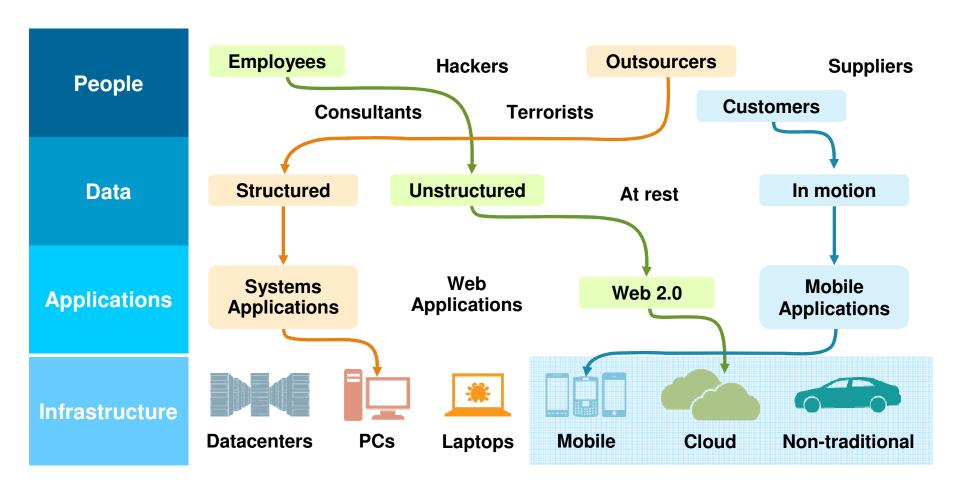


Organized crime **Zeus**

Insiders and Script-kiddies Code Red



Security challenges are a complex, four-dimensional puzzle ...

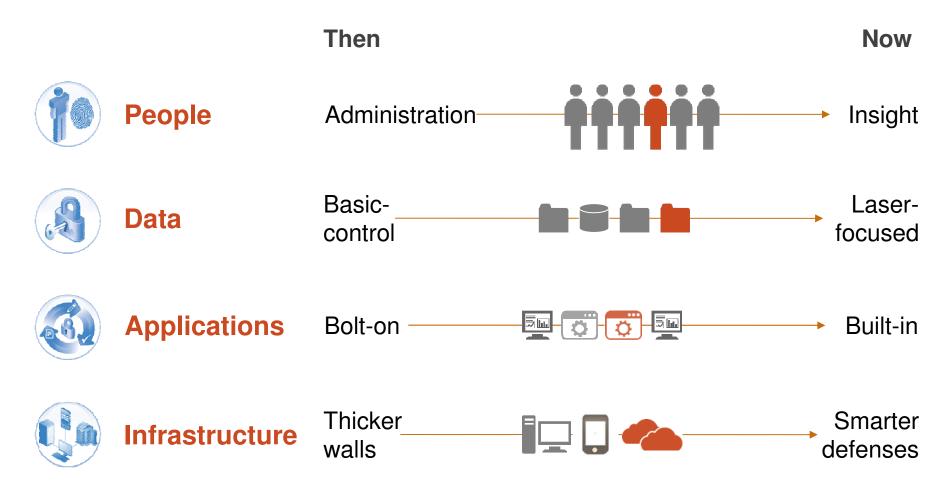


... that requires a new approach

The 5 Steps Used by Attackers

- 1.Break in
- 2.Load Malware
- 3.Expand
- 4. Gather Data
- 5. Exfiltrate

Thinking differently about security



Collect and Analyze Everything



Domain

dogpile.com kewww.com.cn **ynnsuue.com**

IP Address

117.0.178.252 83.14.12.218 94.23.71.55

File Checksum

c69d172078b439545dfff28f3d3aacc1 51e65e6c798b03452ef7ae3d03343d8f 6bb6b9ce713a00d3773cfcecef515e02

Monitor Everything

Then: Reaction

- Read about the latest threats from blogs and news
- Match against known signatures and bad actors

Now: Situational Awareness

- Consume real-time intelligence about the latest threats
- Correlate alerts against external behavior and reputation
- Proactively block bad domains, IP address and malware



Security Intelligence

Logs **Events Alerts** Configuration information **System** Identity audit trails context Network flows and anomalies E-mail and social activity External threat feeds Malware information **Business** process data

Then: Collection

- Log collection
- Signature-based detection

Now: Intelligence

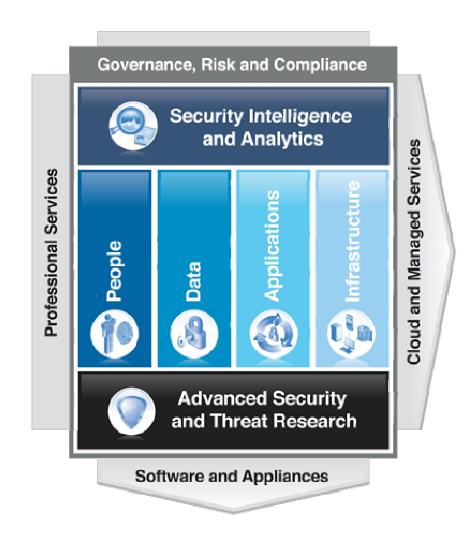
- Real-time monitoring
- Context-aware anomaly detection
- Automated correlation and analytics



IBM delivers solutions across a security framework

Intelligence Integration

Expertise







Intelligence: A comprehensive portfolio of products and services



New in 2012



Analysts recognize IBM's superior products and

performance Segment / Report **Analyst Recognition** Domain Security Security Information & Event Management (SIEM) 2010 2012 Intelligence, **Analytics and** 2011 Enterprise Governance Risk & Compliance Platforms 2011 GRC Identity & Access Governance 2012 User Provisioning / Administration 2012 Role Management & Access Recertification 2011 People 2011* Enterprise Single Sign-on (ESSO) 2010 2012** Web Access Management (WAM) **Database Auditing & Real-Time Protection** 2011 Data Data Masking 2013 Static Application Security Testing (SAST) 2010 2010 **Applications** Dynamic Application Security Testing (DAST) 2011 Network Intrusion Prevention Systems (NIPS) 2012 2010 Infrastructure EndPoint Protection Platforms (EPP) 2013 Gartner Leader Visionary Niche Player A Challenger V13-05 * Gartner MarketScope (discontinued in 2012) ** Gartner MarketScope

*** 2012 IDC MarketScape ranked IBM #1 in IAM

FORRESTER'

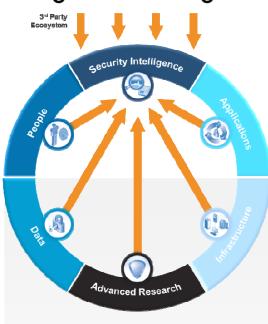
Leader

Strong Performer

Contender

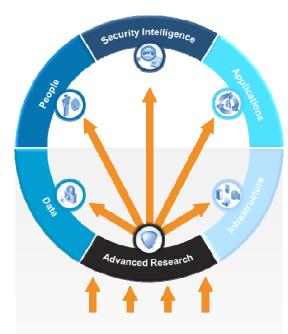
Integration: Increase security, collapse silos, and reduce complexity

Integrated Intelligence.



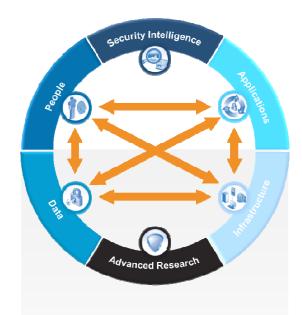
- Consolidate and correlate siloed information from hundreds of sources
- Designed to help detect, notify and respond to threats missed by other security solutions
- Automate compliance tasks and assess risks

Integrated Research.



- Stay ahead of the changing threat landscape
- Designed to help detect the latest vulnerabilities, exploits and malware
- Add security intelligence to non-intelligent systems

Integrated Protection.



- Customize protection capabilities to block specific vulnerabilities using scan results
- Converge access management with web service gateways
- Link identity information with database security

IBM Security - A full range of security capabilities

Consulting Services

- 3700+ security consultants and architects
- Assess security risk and compliance, evolve security program
- Why IBM? Unique, practical approach based on our experience as an enterprise and service provider

Managed Services

- Globally available managed security services platform
- Manage security ops, detect and respond to emerging risk
- Why IBM? IBM's global coverage of security operations centers powered by unmatched cybersecurity analytics

Software Solutions

- Market leading solutions across the IBM Security Framework
- Help secure identities, data, applications, network and endpoints
- Why IBM? Integrated security portfolio, Cloud, mobile, threat security solutions, global threat research, and Security Intelligence

Intelligence

Integration

Expertise

Collaborative IBM teams monitor and analyze the latest threats

Coverage

20,000+ devices under contract

3,700+ managed clients worldwide

13B+ events managed per day

133 monitored countries (MSS)

1,000+ security related patents



IBM Research

Depth

14B analyzed web pages & images

40M spam & phishing attacks

64K documented vulnerabilities

Billions of intrusion attempts daily

Millions of unique malware samples

IBM's 2012 Chief Information Security Officer Study revealed the changing role of the CISO

Influencers

- Confident / prepared
- Strategic focus

Protectors

- Less confident
- Somewhat strategic
- Lack necessary structural elements

Responders

- Least confident
- Focus on protection and compliance

How they differ

have a dedicated CISO

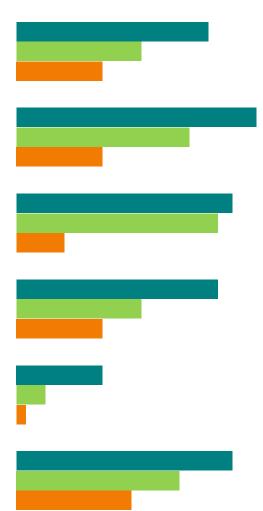
have a security/risk committee

have information security as a board topic

use a standard set of security metrics to track their progress

focused on improving enterprise communication/collaboration

focused on providing education and awareness





IBM Security strategy







IBM Identity and Access Management Vision



Key Themes

Standardized IAM and Compliance Management

Expand IAM vertically to provide identity and access intelligence to the business; Integrate horizontally to enforce user access to data, app, and infrastructure

Secure Cloud, Mobile, Social Interaction

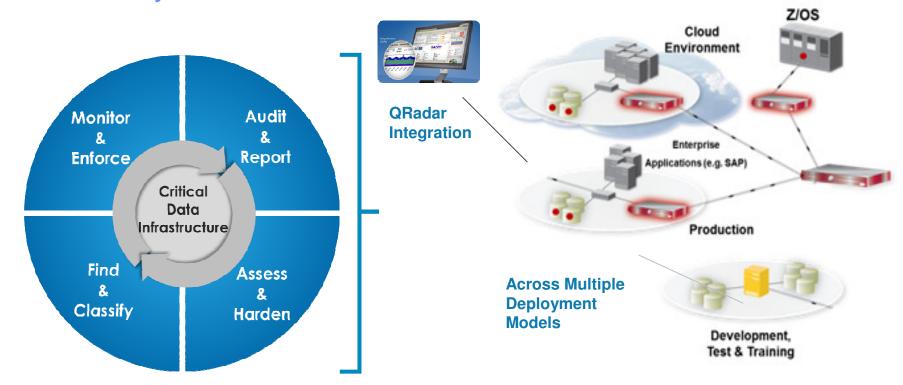
Enhance context-based access control for cloud, mobile and SaaS access, as well as integration with proofing, validation and authentication solutions

Insider Threat and IAM Governance

Continue to develop Privileged Identity Management (PIM) capabilities and enhanced Identity and Role management

2

Data Security Vision



Key Themes

Reduced Total Cost of Ownership

Expanded support for databases and unstructured data, automation, handling and analysis of large volumes of audit records, and new preventive capabilities

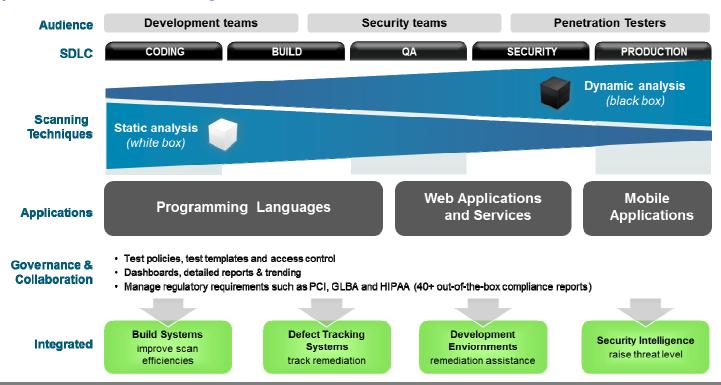
Enhanced Compliance Management

Enhanced Database Vulnerability Assessment (VA) and Database Protection Subscription Service (DPS) with improved update frequency, labels for specific regulations, and product integrations

Dynamic Data Protection

Data masking capabilities for databases (row level, role level) and for applications (pattern based, form based) to safeguard sensitive and confidential data

Application Security Vision



Key Themes

Coverage for Mobile applications and new threats

Continue to identify and reduce risk by expanding scanning capabilities to new platforms such as mobile, as well as introducing next generation dynamic analysis scanning and glass box testing

Simplified interface and accelerated ROI

New capabilities to improve customer time to value and consumability with out-of-the-box scanning, static analysis templates and ease of use features

Security Intelligence Integration

Automatically adjust threat levels based on knowledge of application vulnerabilities by integrating and analyzing scan results with SiteProtector and the QRadar Security Intelligence Platform

Infrastructure Protection – Endpoint Vision



Key Themes

Security for Mobile Devices

Provide security for and manage traditional endpoints alongside mobile devices such as Apple iOS, Google Android, Symbian, and Microsoft Windows Phone - using a single platform

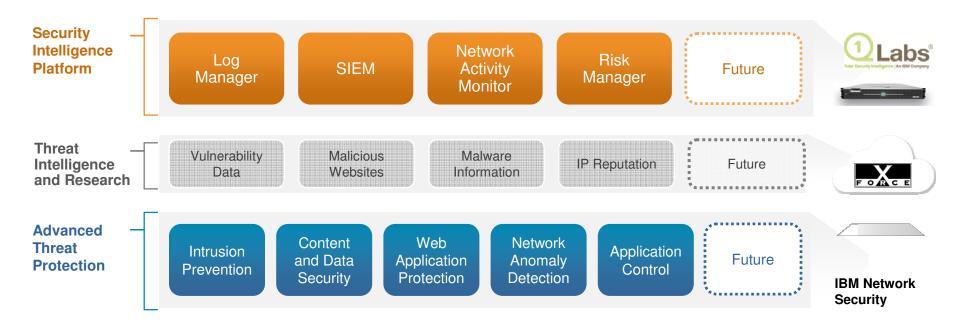
Expansion of Security Content

Continued expansion of security configuration and vulnerability content to increase coverage for applications, operating systems, and industry best practices

Security Intelligence Integration

Improved usage of analytics - providing valuable insights to meet compliance and IT security objectives, as well as further integration with SiteProtector and the QRadar Security Intelligence Platform

Infrastructure Protection – Advanced Threat



Key Themes

Advanced Threat Protection Platform

Helps to prevent sophisticated threats and detect abnormal network behavior by using an extensible set of network security capabilities - in conjunction with real-time threat information and Security Intelligence

Expanded X-Force Threat Intelligence

Increased coverage of world-wide threat intelligence harvested by X-Force and the consumption of this data to make smarter and more accurate security decisions

Security Intelligence Integration

Tight integration between the Advanced Threat Protection Platform and QRadar Security Intelligence platform to provide unique and meaningful ways to detect, investigate and remediate threats

X-Force Threat Intelligence: The IBM Differentiator

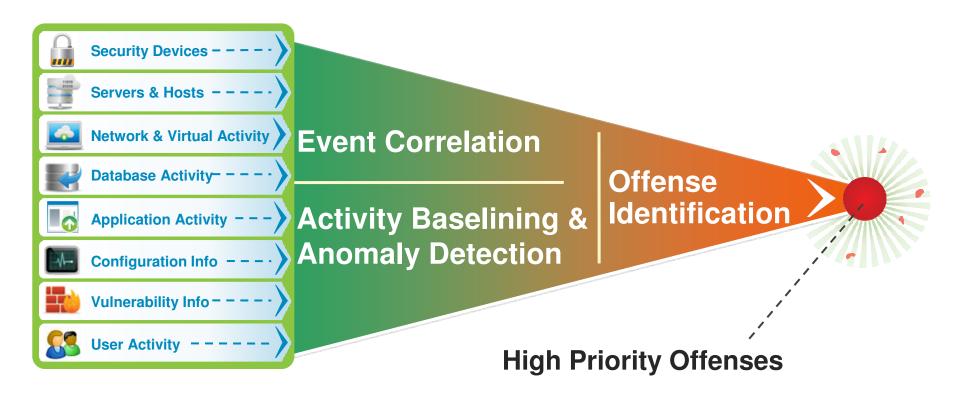


X-Force database - extensive catalog of vulnerabilities
 Web filter database - malicious or infected websites
 IP Reputation - botnets, anonymous proxies, bad actors
 Application Identification - web application information
 Vulnerability Research - latest vulnerabilities and protections
 Security Services - manage IPS for 3000+ Customers





Security Intelligence: Integrating across IT silos



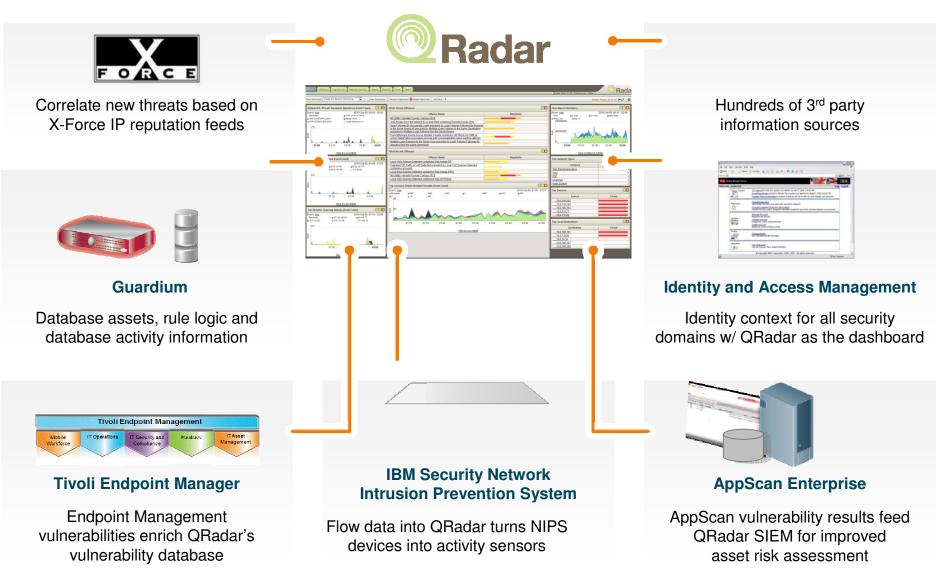
Extensive Data Sources

Deep Intelligence

Exceptionally Accurate and Actionable Insight



All domains feed Security Intelligence



In 2013 we will continue to focus on solving the big problems

Advanced Threats

Sophisticated, targeted attacks designed to gain continuous access to critical information are increasing in severity and occurrence



Advanced Persistent Threats
Stealth Bots Targeted Attacks
Designer Malware Zero-days



Enterprise Customers

Cloud Computing

Cloud security is a key concern as customers rethink how IT resources are designed, deployed and consumed



Regulation and Compliance

Regulatory and compliance pressures are mounting as companies store more data and can become susceptible to audit failures





Mobile Computing

Securing employee-owned devices and connectivity to corporate applications are top of mind as CIOs broaden support for mobility









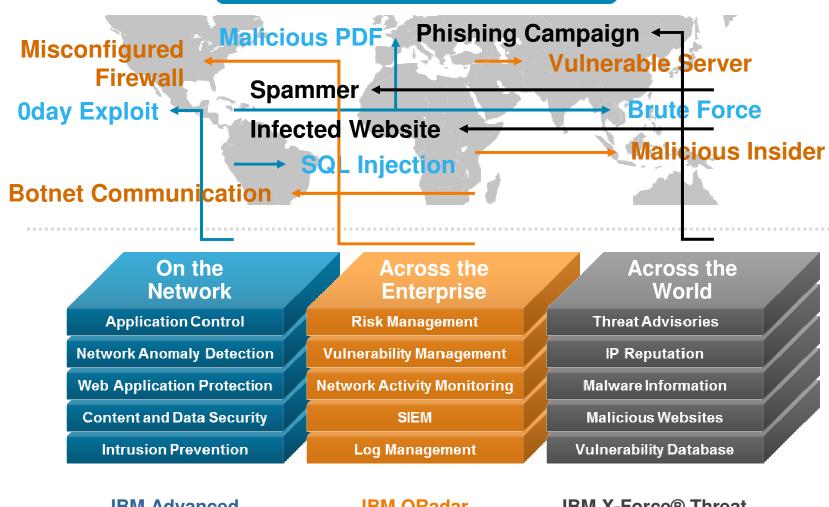






Better protection against sophisticated attacks

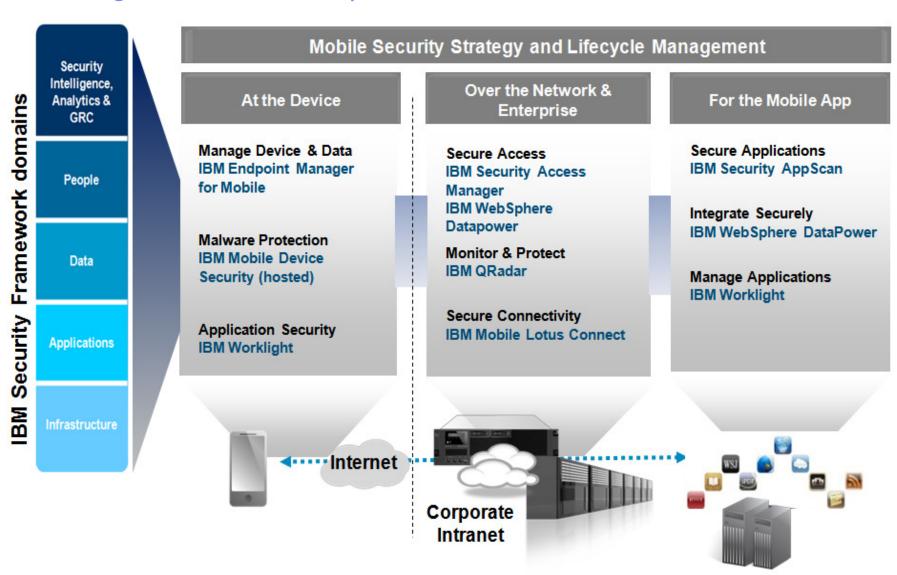
IBM Advanced Threat Protection Platform



IBM Advanced
Threat Protection

IBM QRadar Security Intelligence IBM X-Force® Threat Intelligence

Securing the Mobile Enterprise with IBM Solutions





Security Intelligence is enabling progress to optimized security

				•	•
Security Intelligence		Security Intelligence: Flow analytics / predictive analytics Security information and event management Log management			
	Optimized	Identity governance Fine-grained entitlements Privileged user management	Data governance Encryption key management	Fraud detection Hybrid scanning and correlation	Multi-faceted network protection Anomaly detection Hardened systems
	Proficient	User provisioning Access management Strong authentication	Data masking / redaction Database activity monitoring Data loss prevention	Web application protection Source code scanning	Virtualization security Asset management Endpoint / network security management
	Basic	Directory management	Encryption Database access control	Application scanning	Perimeter security Host security Anti-virus
'		People	Data	Applications	



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