IBM SolutionsConnect 2013
Turning Opportunity into Outcomes.

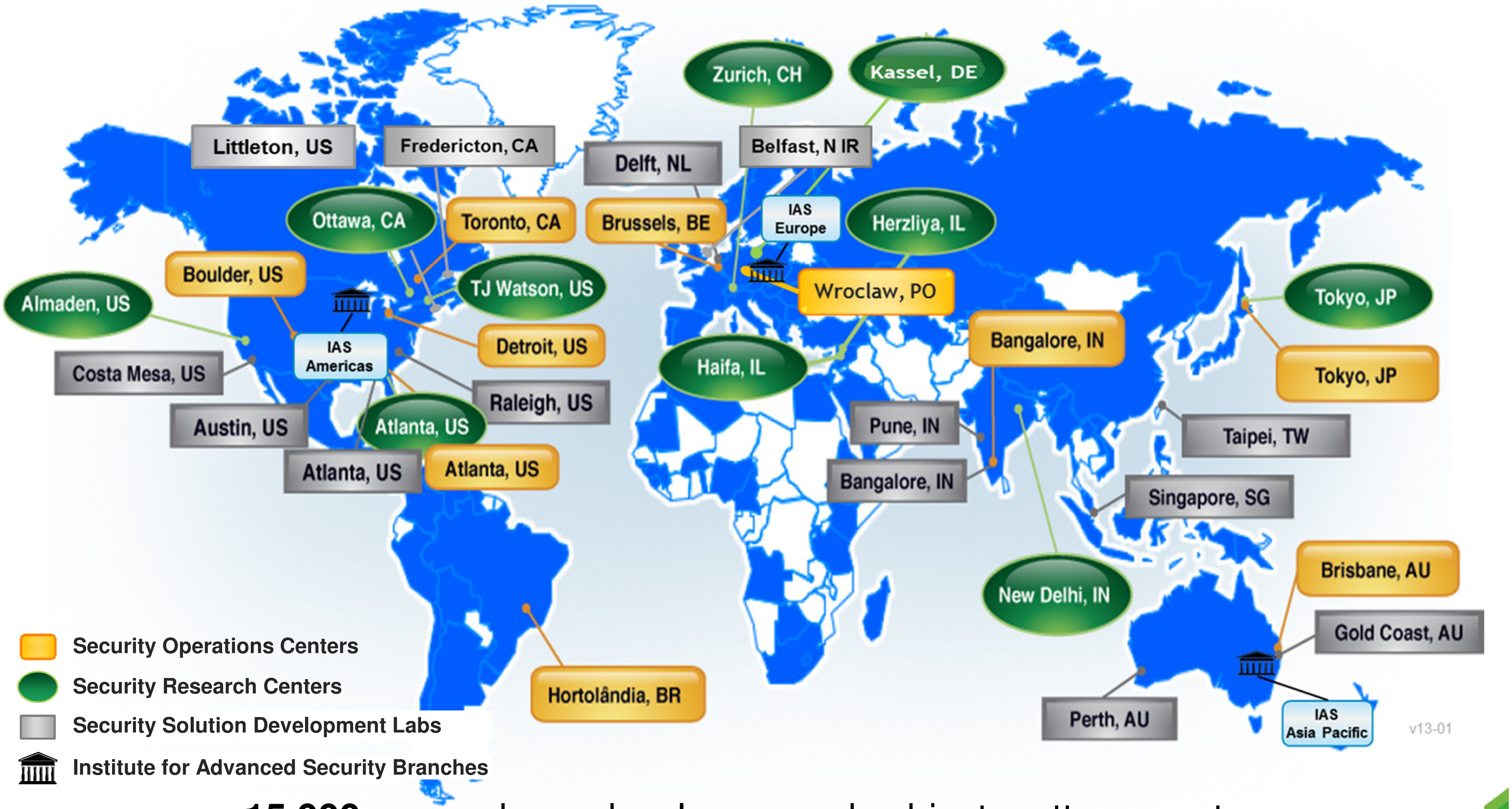
Live demo of current Threat Landscape - Are you ready?

Aurore Gillet, Technical Sales, Security Systems
Johan Beckers, Manager Security EBC & TEC

About the Brussels Security Executive Briefing Center

- The only center in Europe dedicated to security products and services
- Security Briefing Room
  - Available for CxO briefings, customer visits, partner update sessions, ...
  - Seating for 16 people
  - Audio & video conferencing
  - View on both local Security Operations Center (SOC) and Security Demo Lab
- Security Demo Lab
  - Integrated Security Platform Demos
  - Demonstrating the IBM Security Framework in action
  - Remote access to this lab is available for all IBM technical staff upon request

At IBM, the World is our Security Lab



15,000 researchers, developers and subject matter experts working security initiatives worldwide

Collaborative IBM teams monitor and analyze the latest threats

Coverage

20,000+ devices under contract

4000+ managed clients worldwide

19B+ events managed per day

133 monitored countries (MSS)

1,000+ security related patents

X FORCE

IBM Research

Depth

17B analyzed web pages & images

40M spam & phishing attacks

80K documented vulnerabilities

Billions of intrusion attempts daily

Millions of unique malware samples

What are we seeing?

Annual report gives a view of changes in the threat landscape

Key findings…

IBM X-Force 2012 Trend and Risk Report

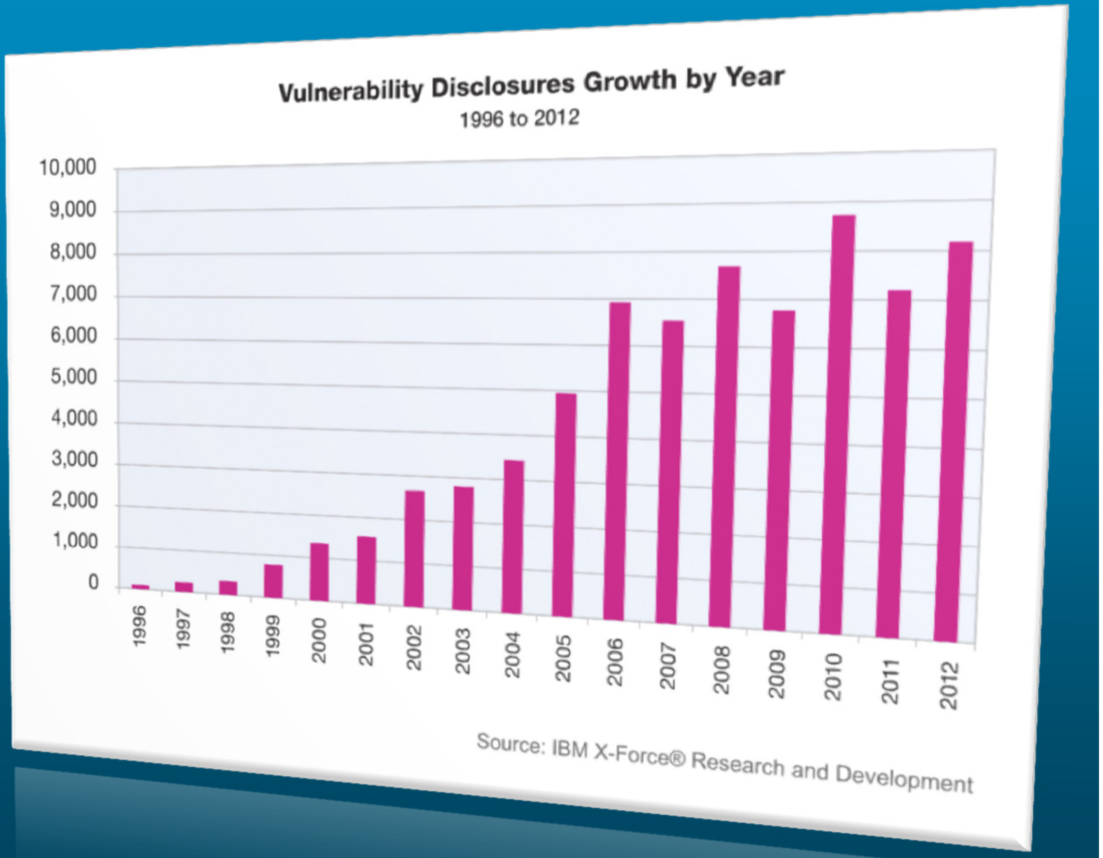
March 2013

Findings from the 2013 X-Force® Trend and Risk Report

8,168

publicly disclosed vulnerabilities

An increase of over 14% from 2011


Vulnerability Disclosures Growth by Year

1996 to 2012

Source: IBM X-Force® Research and Development

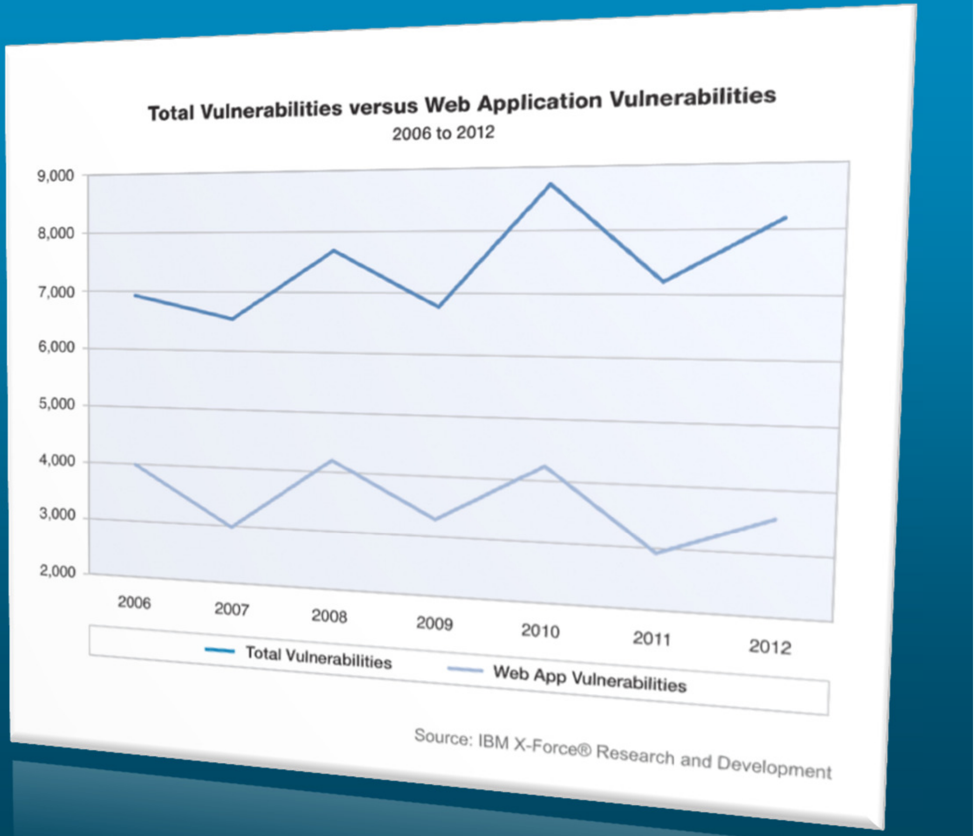
Findings from the 2013 X-Force® Trend and Risk Report

14%

increase in web application vulnerabilities

Cross-site scripting represented

53%

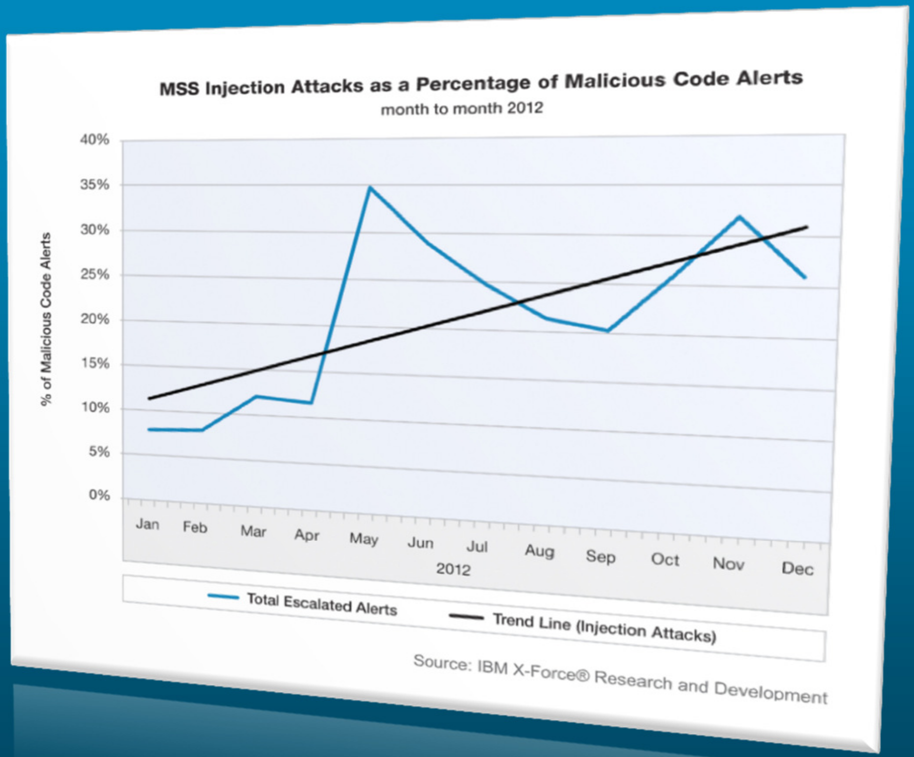


Source: IBM X-Force® Research and Development

Findings from the 2013 X-Force® Trend and Risk Report

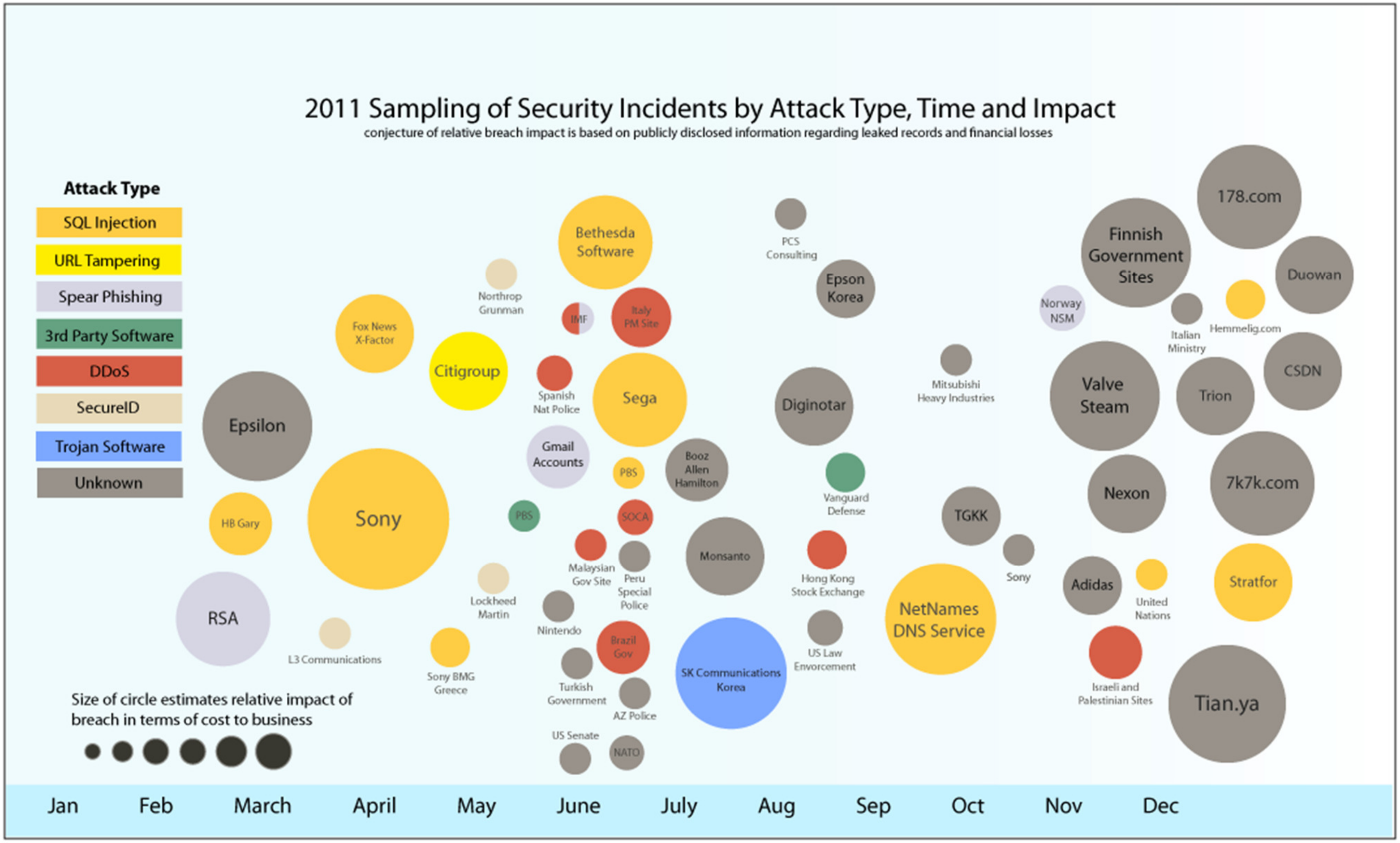
Dramatic and sustained rise in SQL injection-based traffic

Alerts came from all industry sectors, with a bias toward banking and finance targets



Source: IBM X-Force® Research and Development

2011 was a wake-up year



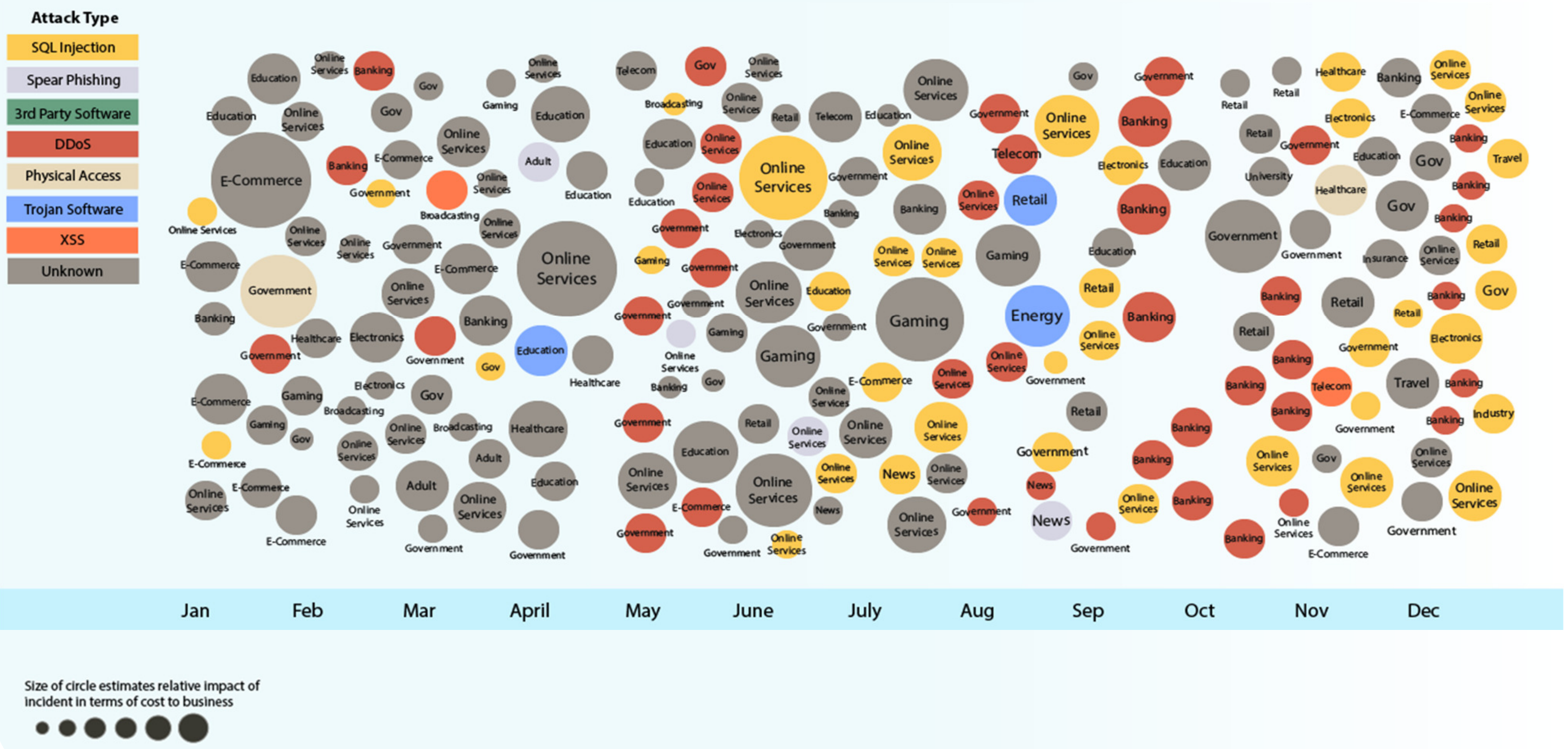
2011 Sampling of Security Incidents by Attack Type, Time and Impact

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

Targeted Attacks Shake Businesses and Governments

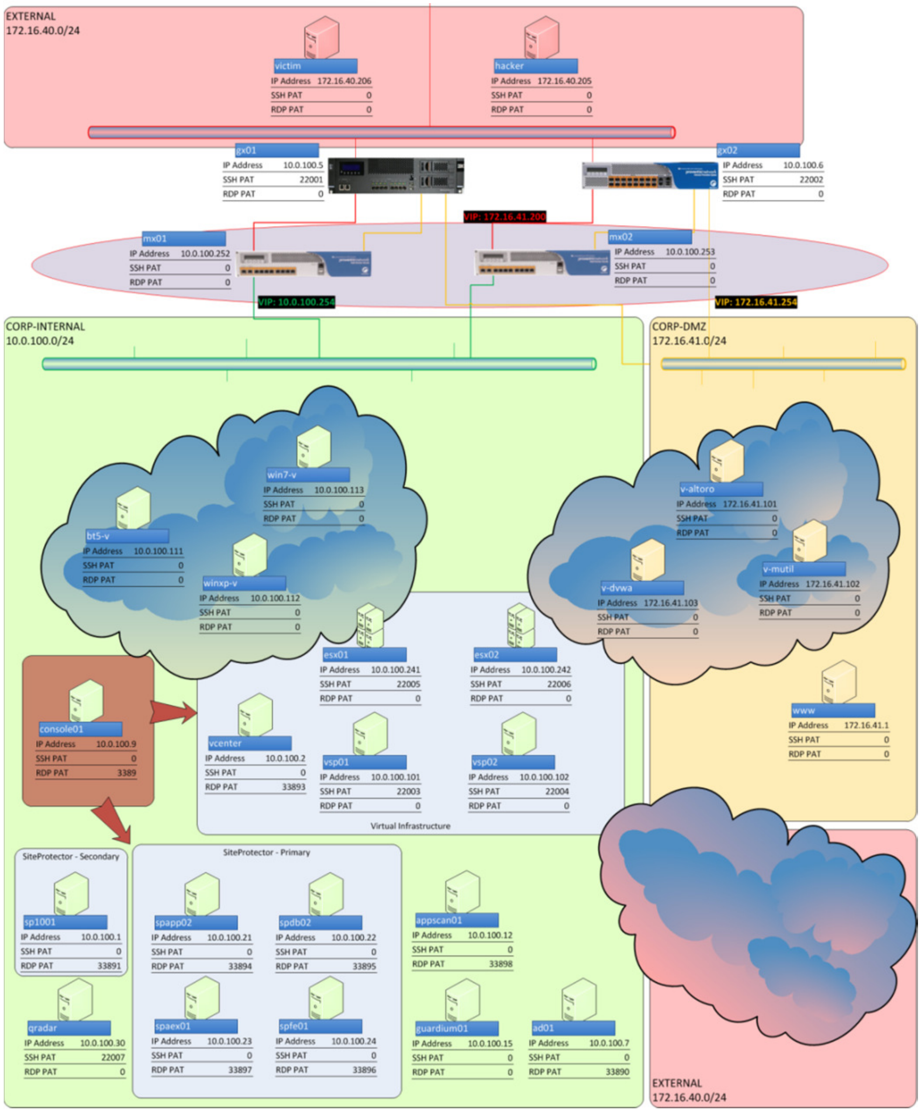
2012 Sampling of Security Incidents by Attack Type, Time and Impact

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



Source: IBM X-Force® Research 2012 Trend and Risk Report

Security Lab Architecture



EXTERNAL
172.16.40.0/24

victim
IP Address 172.16.40.206
SSH PAT 0
RDP PAT 0

hacker
IP Address 172.16.40.205
SSH PAT 0
RDP PAT 0

gx01
IP Address 10.0.100.5
SSH PAT 22001
RDP PAT 0

gx02
IP Address 10.0.100.6
SSH PAT 22002
RDP PAT 0

VIP: 172.16.41.200

mx01
IP Address 10.0.100.252
SSH PAT 0
RDP PAT 0

mx02
IP Address 10.0.100.253
SSH PAT 0
RDP PAT 0

VIP: 10.0.100.254

VIP: 172.16.41.254

CORP-INTERNAL
10.0.100.0/24

win7-v
IP Address 10.0.100.113
SSH PAT 0
RDP PAT 0

bt5-v
IP Address 10.0.100.111
SSH PAT 0
RDP PAT 0

winxp-v
IP Address 10.0.100.112
SSH PAT 0
RDP PAT 0

esx01
IP Address 10.0.100.241
SSH PAT 22005
RDP PAT 0

esx02
IP Address 10.0.100.242
SSH PAT 22006
RDP PAT 0

console01
IP Address 10.0.100.9
SSH PAT 0
RDP PAT 3389

vcenter
IP Address 10.0.100.2
SSH PAT 0
RDP PAT 33893

vsp01
IP Address 10.0.100.101
SSH PAT 22003
RDP PAT 0

vsp02
IP Address 10.0.100.102
SSH PAT 22004
RDP PAT 0

Virtual Infrastructure

SiteProtector - Secondary

sp1001
IP Address 10.0.100.1
SSH PAT 0
RDP PAT 33891

SiteProtector - Primary

spapp02
IP Address 10.0.100.21
SSH PAT 0
RDP PAT 33894

spdb02
IP Address 10.0.100.22
SSH PAT 0
RDP PAT 33895

spaex01
IP Address 10.0.100.23
SSH PAT 0
RDP PAT 33897

spfe01
IP Address 10.0.100.24
SSH PAT 0
RDP PAT 33896

qradar
IP Address 10.0.100.30
SSH PAT 22007
RDP PAT 0

appscan01
IP Address 10.0.100.12
SSH PAT 0
RDP PAT 33898

guardium01
IP Address 10.0.100.15
SSH PAT 0
RDP PAT 0

ad01
IP Address 10.0.100.7
SSH PAT 0
RDP PAT 33890

CORP-DMZ
172.16.41.0/24

v-altoro
IP Address 172.16.41.101
SSH PAT 0
RDP PAT 0

v-dvwa
IP Address 172.16.41.103
SSH PAT 0
RDP PAT 0

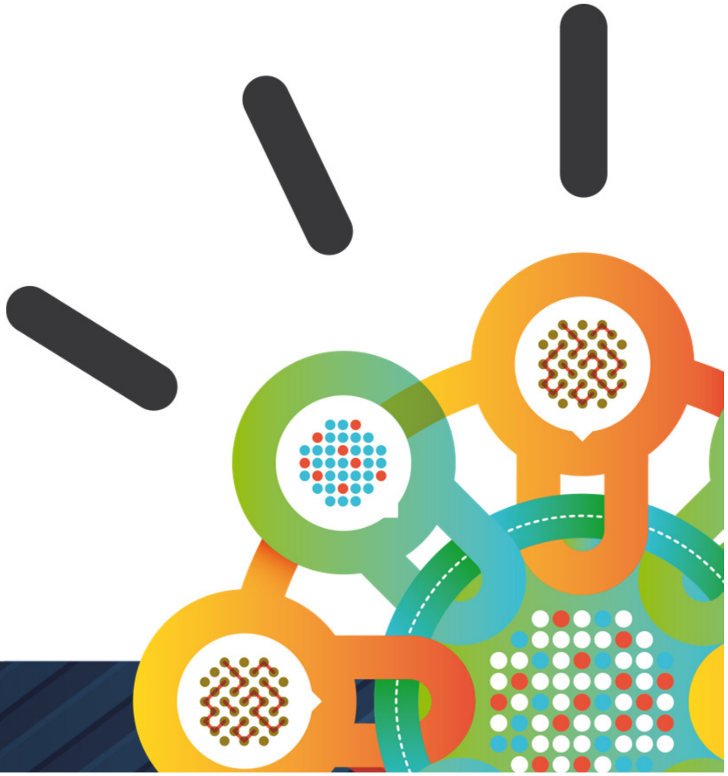
v-mutil
IP Address 172.16.41.102
SSH PAT 0
RDP PAT 0

www
IP Address 172.16.41.1
SSH PAT 0
RDP PAT 0

EXTERNAL
172.16.40.0/24

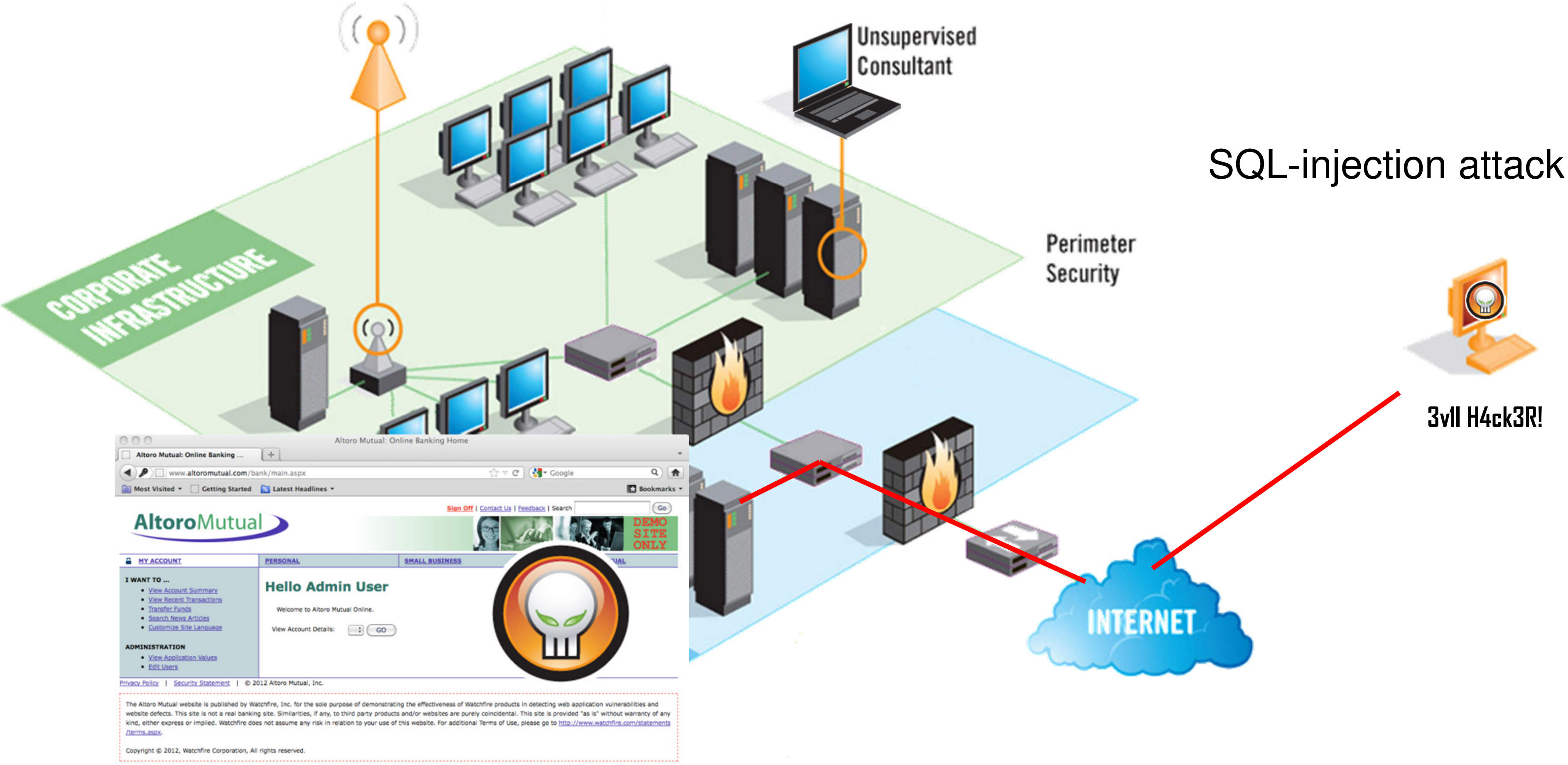
Security Intelligence.
Think Integrated.

Attack Scenario – SQL Injection



Demo : Web Application attack -> SQL-injection

SQL-injection attack



I WANT TO ...

- View Account Summary
- View Recent Transactions
- Transfer Funds
- Search News Articles
- Customize Site Language

ADMINISTRATION

- View Application Values
- Edit Users

Hello Admin User

Welcome to Altoro Mutual Online.

View Account Details: GO

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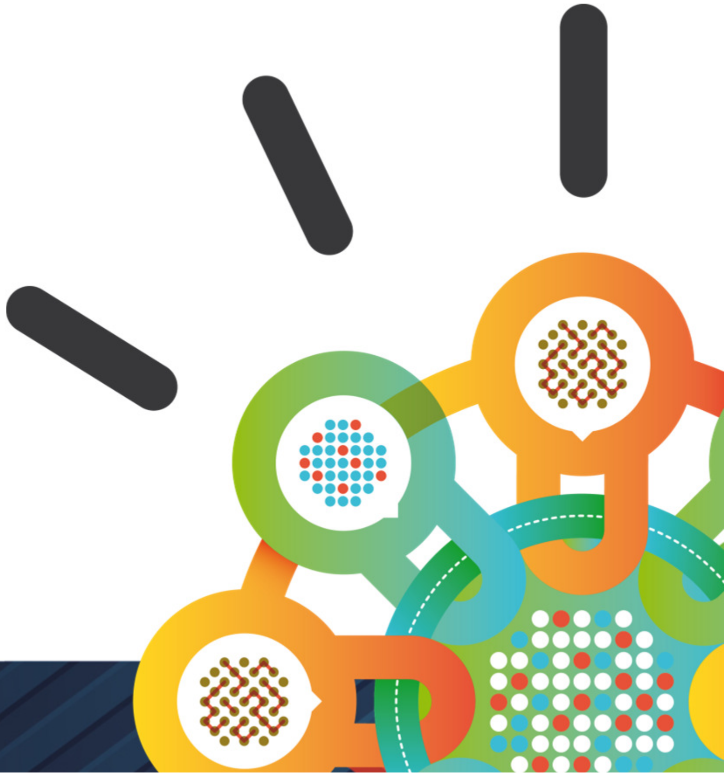
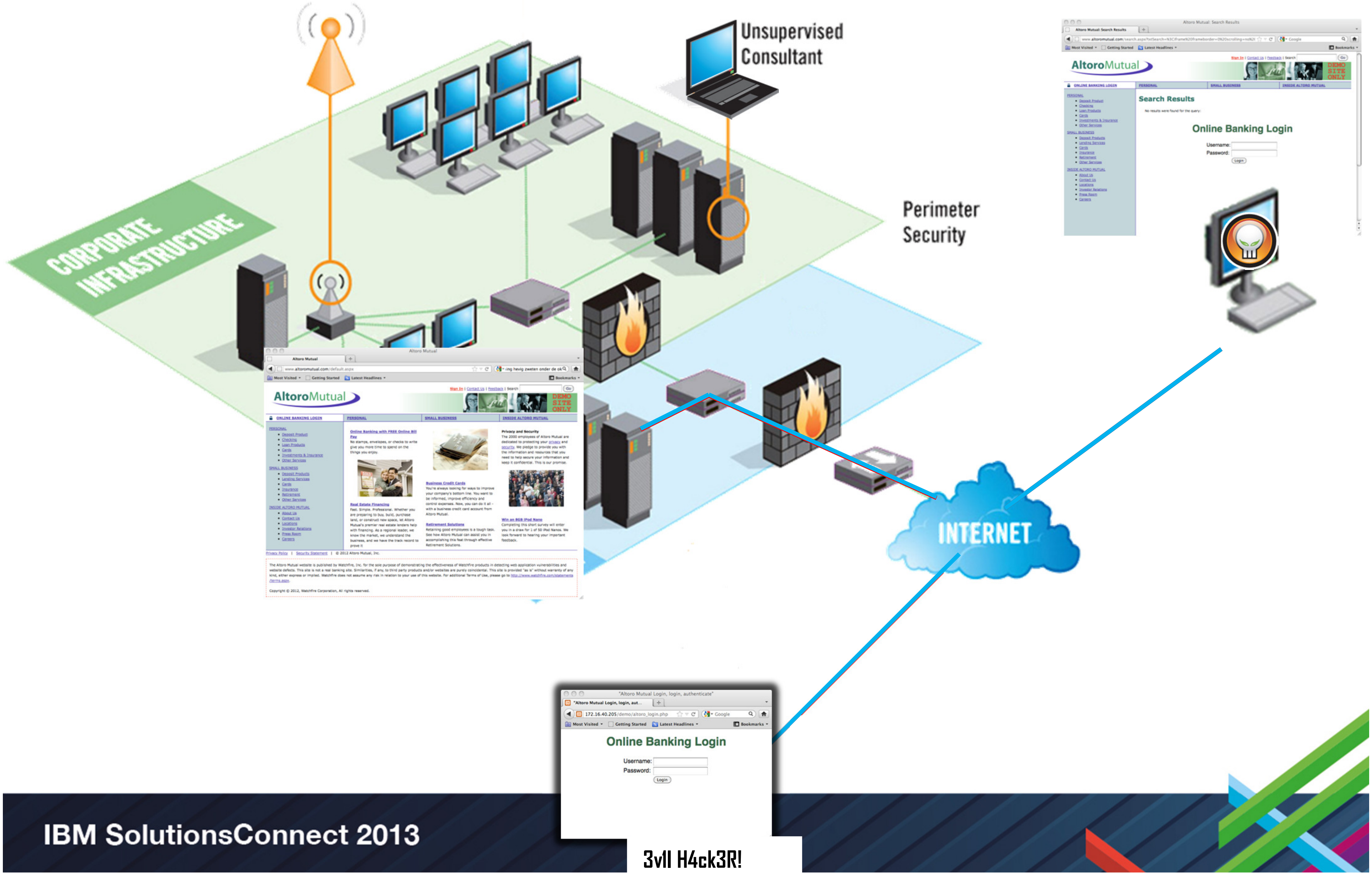
Attack Scenario – Cross-site Scripting



Demo: Web Application Attack -> XSS

XSS attack



Altoro Mutual: Search Results

www.altoromutual.com/search.aspx?txtSearch=%3Ciframe%20frameborder=0%20scrolling=no%2(

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ONLINE BANKING LOGIN | PERSONAL | SMALL BUSINESS | INSIDE ALTORO MUTUAL

PERSONAL
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- Checking
- Loan Products
- Cards
- Investments & Insurance
- Other Services

SMALL BUSINESS
- Deposit Products
- Lending Services
- Cards
- Insurance
- Retirement
- Other Services

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Search Results

No results were found for the query:

Online Banking Login

Username:
Password:
Login

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- Checking
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No stamps, envelopes, or checks to write give you more time to spend on the things you enjoy.

Real Estate Financing
Fast. Simple. Professional. Whether you are preparing to buy, build, purchase land, or construct new space, let Altoro Mutual's premier real estate lenders help with financing. As a regional leader, we know the market, we understand the business, and we have the track record to prove it

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"Altoro Mutual Login, login, authenticate"

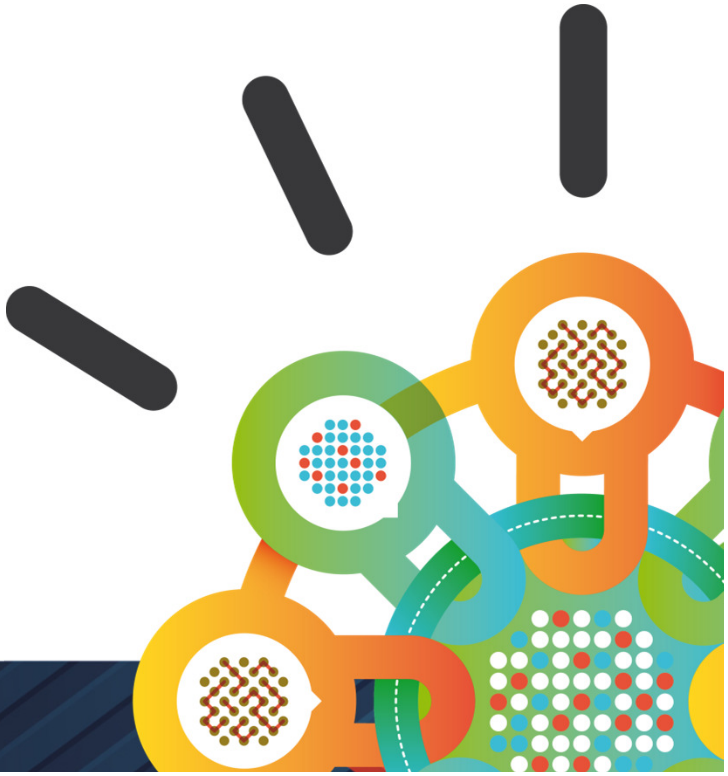
172.16.40.205/demo/altoro_login.php

Online Banking Login

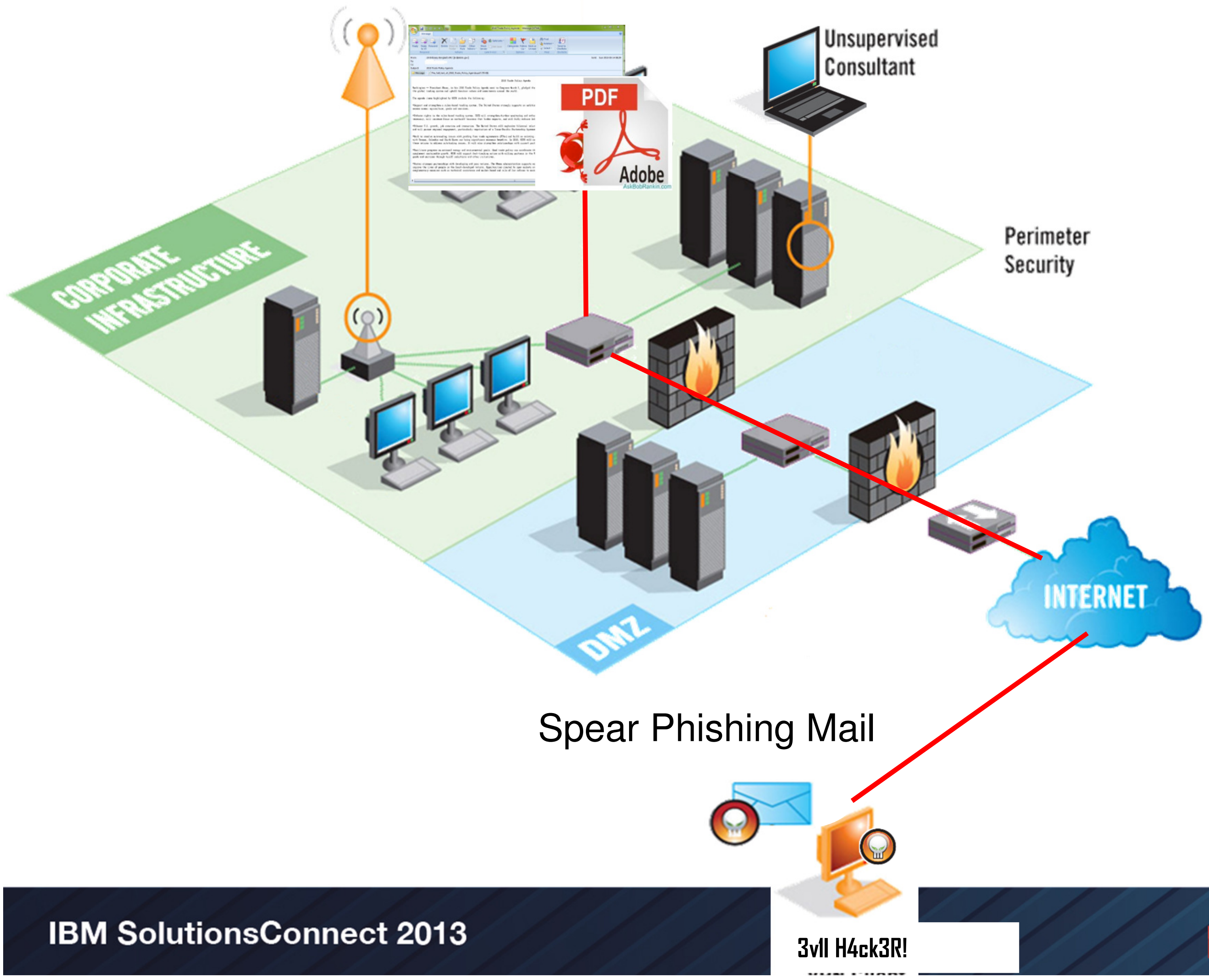
Username:
Password:
Login

3vIl H4ck3R!

Attack Scenario – Client Side Attack

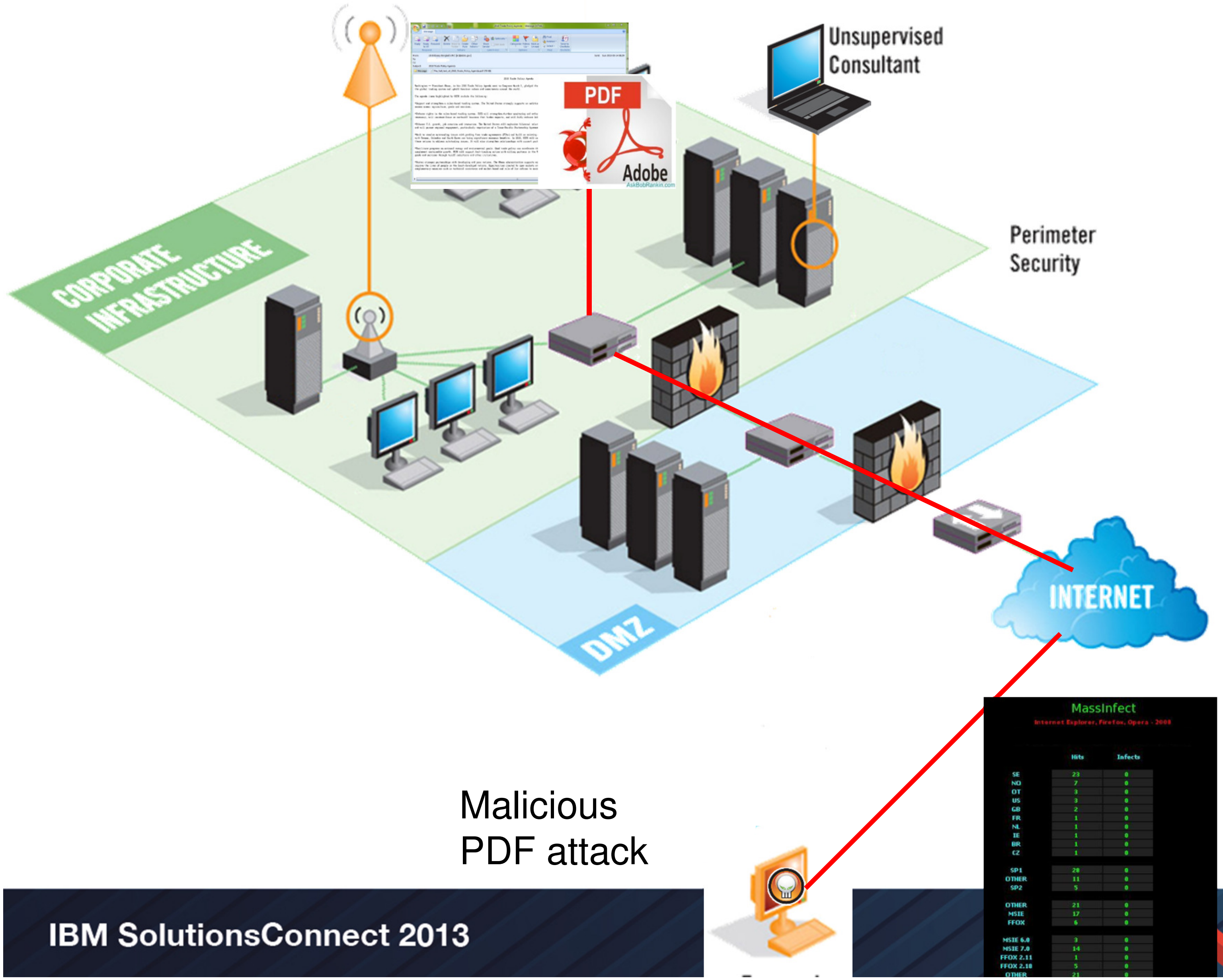


Demo : Targeted attack -> Spear phishing mail



Spear Phishing Mail

Demo: Targeted Client Side Attack -> Malicious PDF



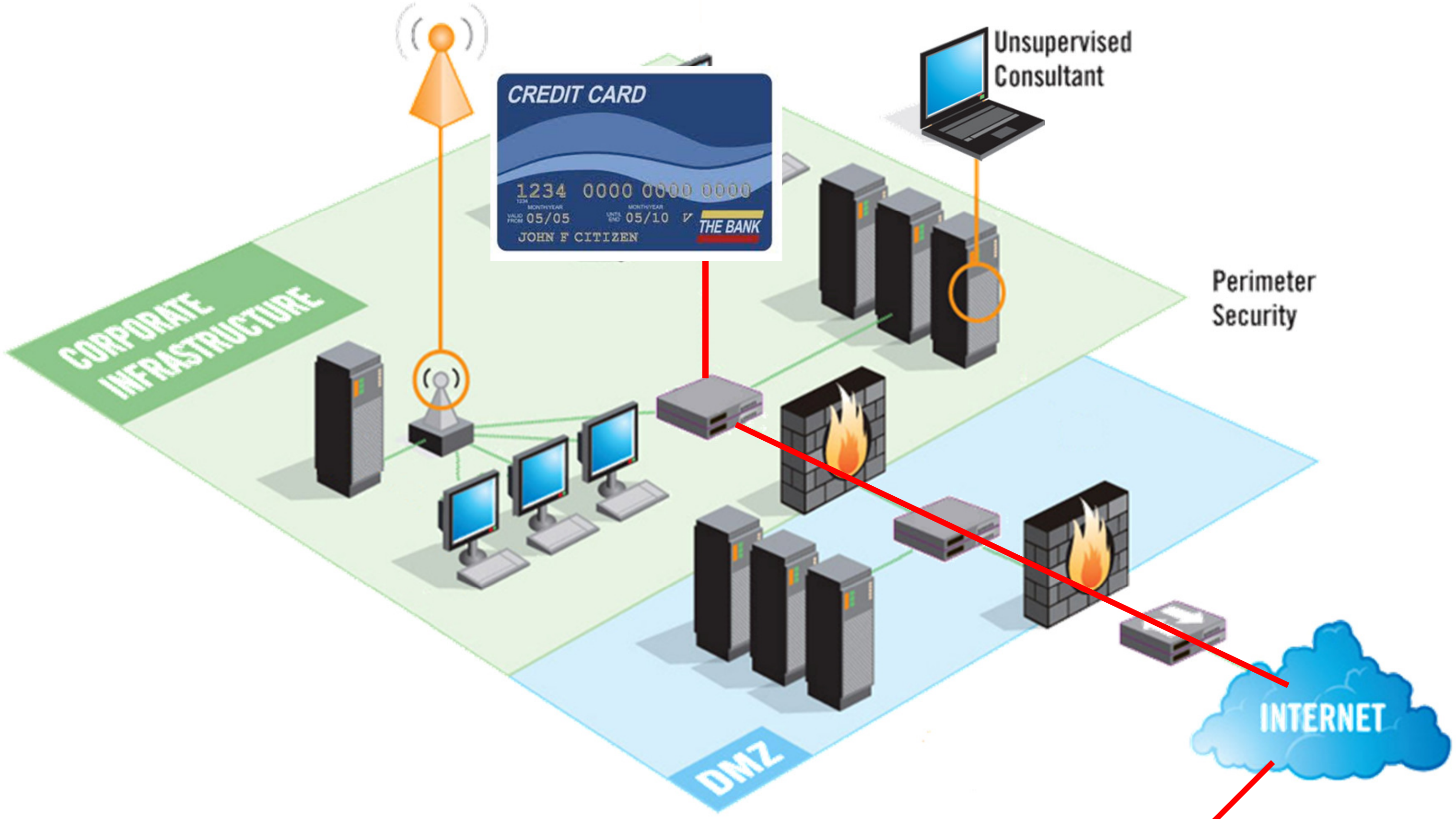
MassInfect

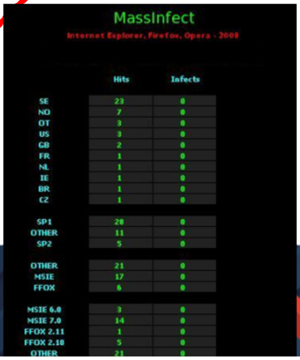
Internet Explorer, Firefox, Opera - 2008

	Hits	Infects
SE	23	0
NO	7	0
OT	3	0
US	3	0
GB	2	0
FR	1	0
NL	1	0
IE	1	0
BR	1	0
CZ	1	0
SP1	28	0
OTHER	11	0
SP2	5	0
OTHER	21	0
MSIE	17	0
FFOX	6	0
MSIE 6.0	3	0
MSIE 7.0	14	0
FFOX 2.11	1	0
FFOX 2.18	5	0
OTHER	21	0

Malicious
PDF attack

Demo: Targeted Client Side Attack -> Data Leakage of Credit Card info



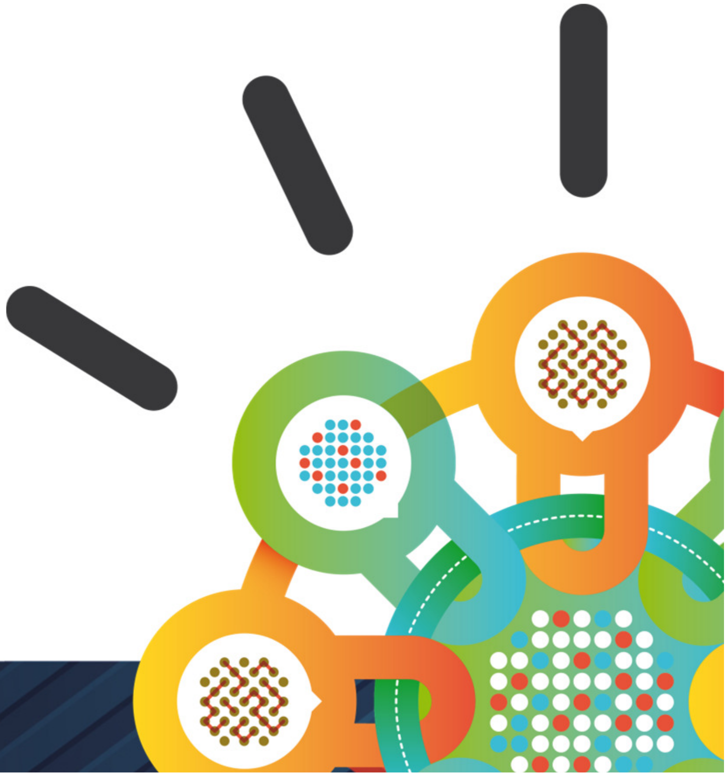


MassInfect

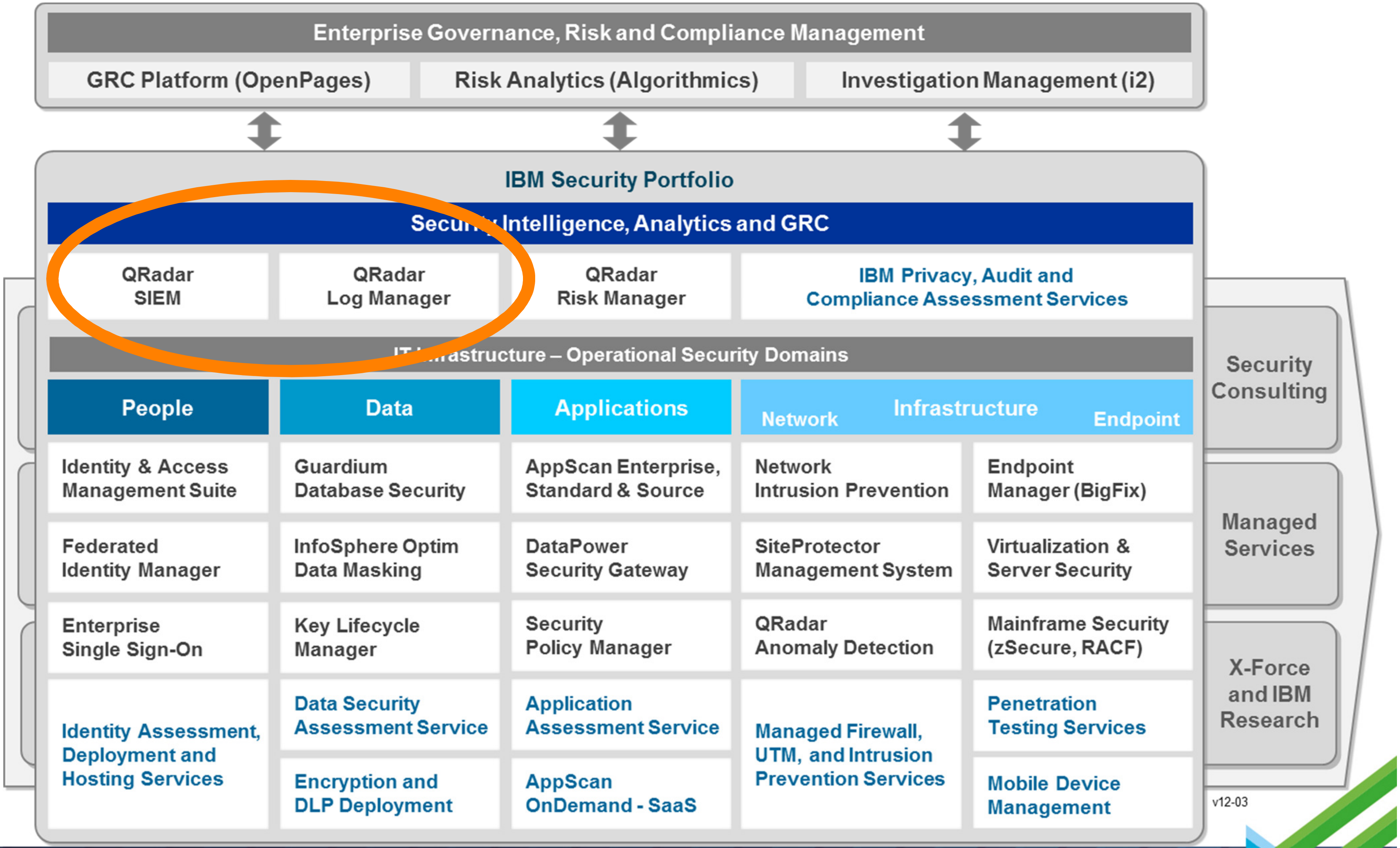
Internet Explorer, Firefox, Opera - 2008

	Hits	Infects
SE	23	0
NO	7	0
OT	3	0
US	3	0
GB	2	0
FR	1	0
NL	1	0
IE	1	0
BR	1	0
CZ	1	0
SP1	28	0
OTHER	11	0
SP2	5	0
OTHER	21	0
MSIE	17	0
FFOX	6	0
MSIE 6.0	3	0
MSIE 7.0	14	0
FFOX 2.11	1	0
FFOX 2.18	5	0
OTHER	21	0

What have we seen so far?



Intelligence: What have we seen so far ?



Enterprise Governance, Risk and Compliance Management

GRC Platform (OpenPages) | Risk Analytics (Algorithmics) | Investigation Management (i2)

IBM Security Portfolio

Security Intelligence, Analytics and GRC

QRadar SIEM	QRadar Log Manager	QRadar Risk Manager	IBM Privacy, Audit and Compliance Assessment Services

IT Infrastructure – Operational Security Domains

People	Data	Applications	Network	Infrastructure Endpoint
Identity & Access Management Suite	Guardium Database Security	AppScan Enterprise, Standard & Source	Network Intrusion Prevention	Endpoint Manager (BigFix)
Federated Identity Manager	InfoSphere Optim Data Masking	DataPower Security Gateway	SiteProtector Management System	Virtualization & Server Security
Enterprise Single Sign-On	Key Lifecycle Manager	Security Policy Manager	QRadar Anomaly Detection	Mainframe Security (zSecure, RACF)
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	Encryption and DLP Deployment	AppScan OnDemand - SaaS		Mobile Device Management

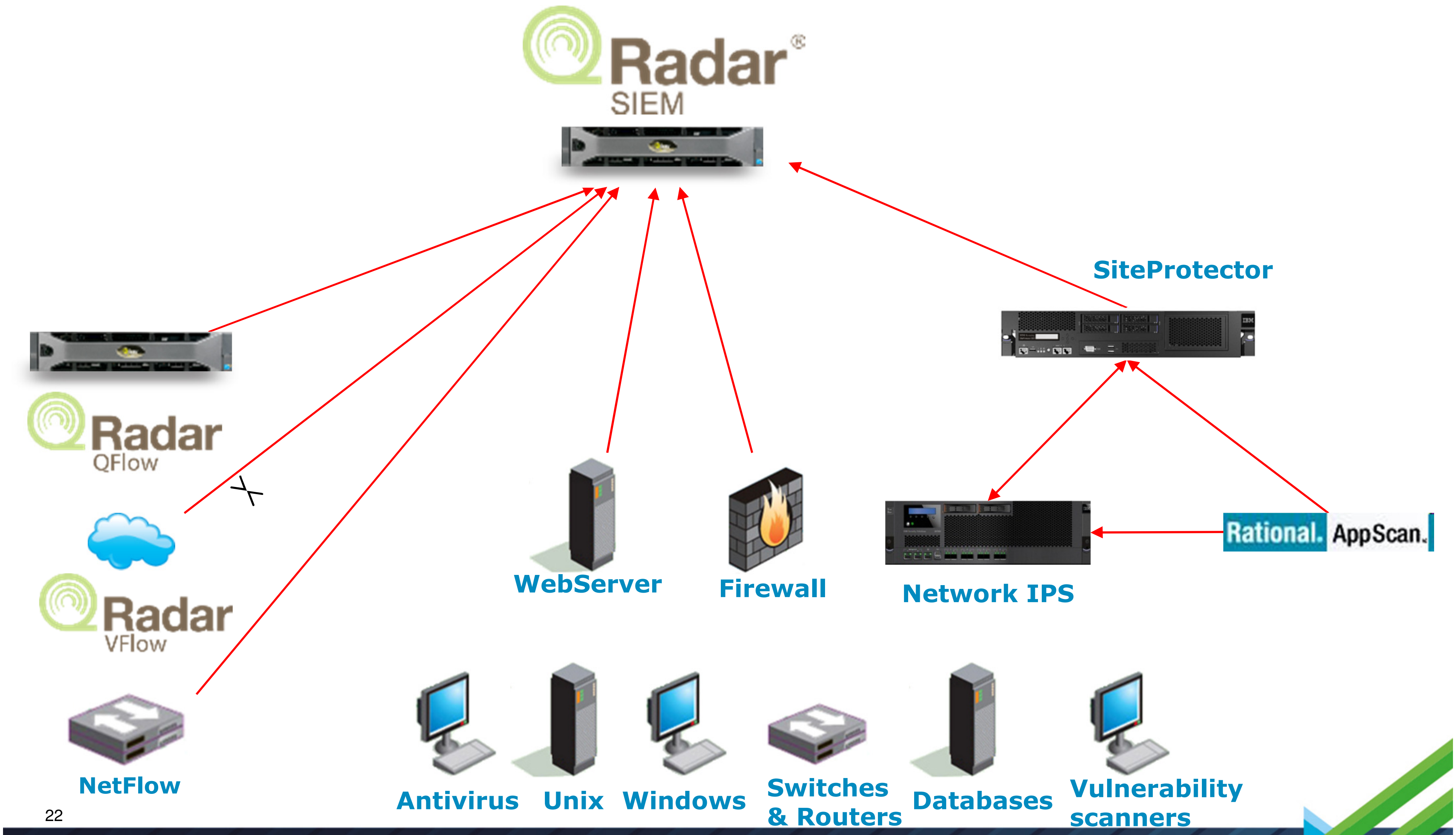
Security Consulting

Managed Services

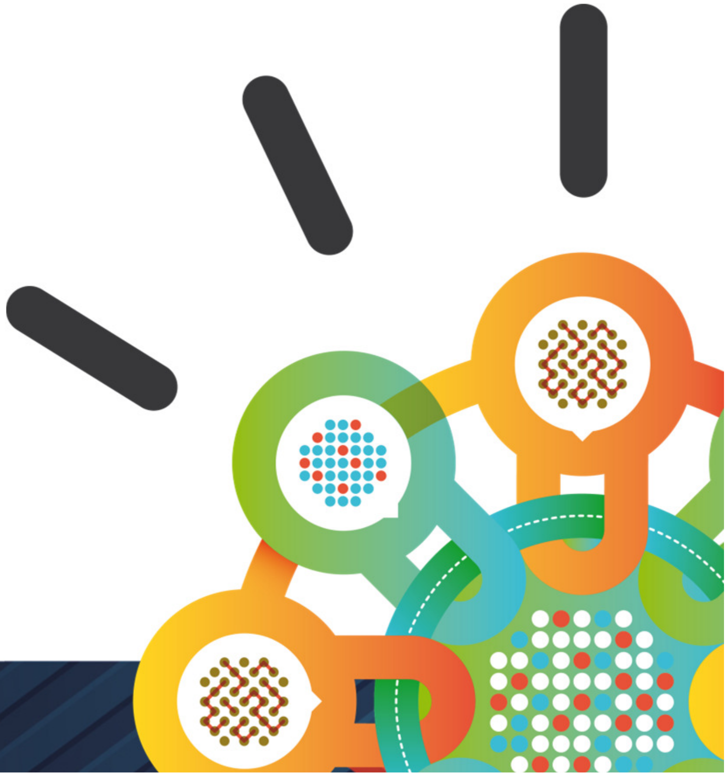
X-Force and IBM Research

v12-03

Demo Solution Architecture

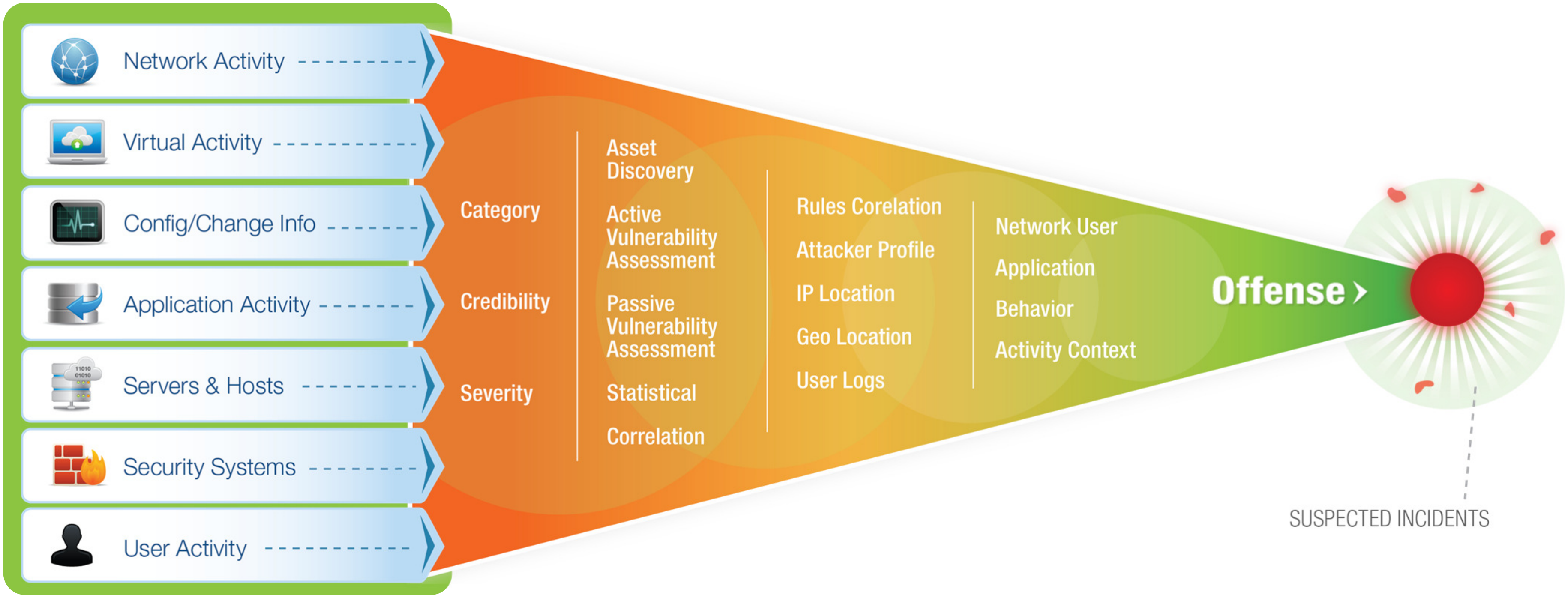


Demo: Security Intelligence with QRadar



Data Explosion

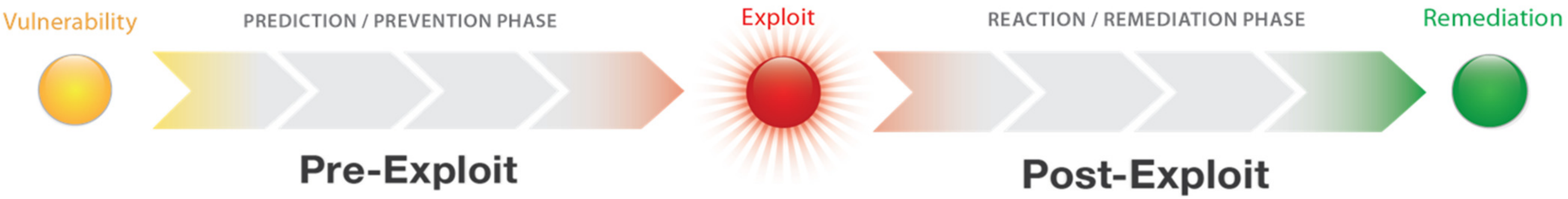
IBM is integrating across IT silos with Security Intelligence solutions



Sources + Intelligence = Most Accurate & Actionable Insight

Solutions for the Full Compliance and Security Intelligence Timeline

What are the external and internal threats? → Are we configured to protect against these threats? → What is happening right now? → What was the impact?



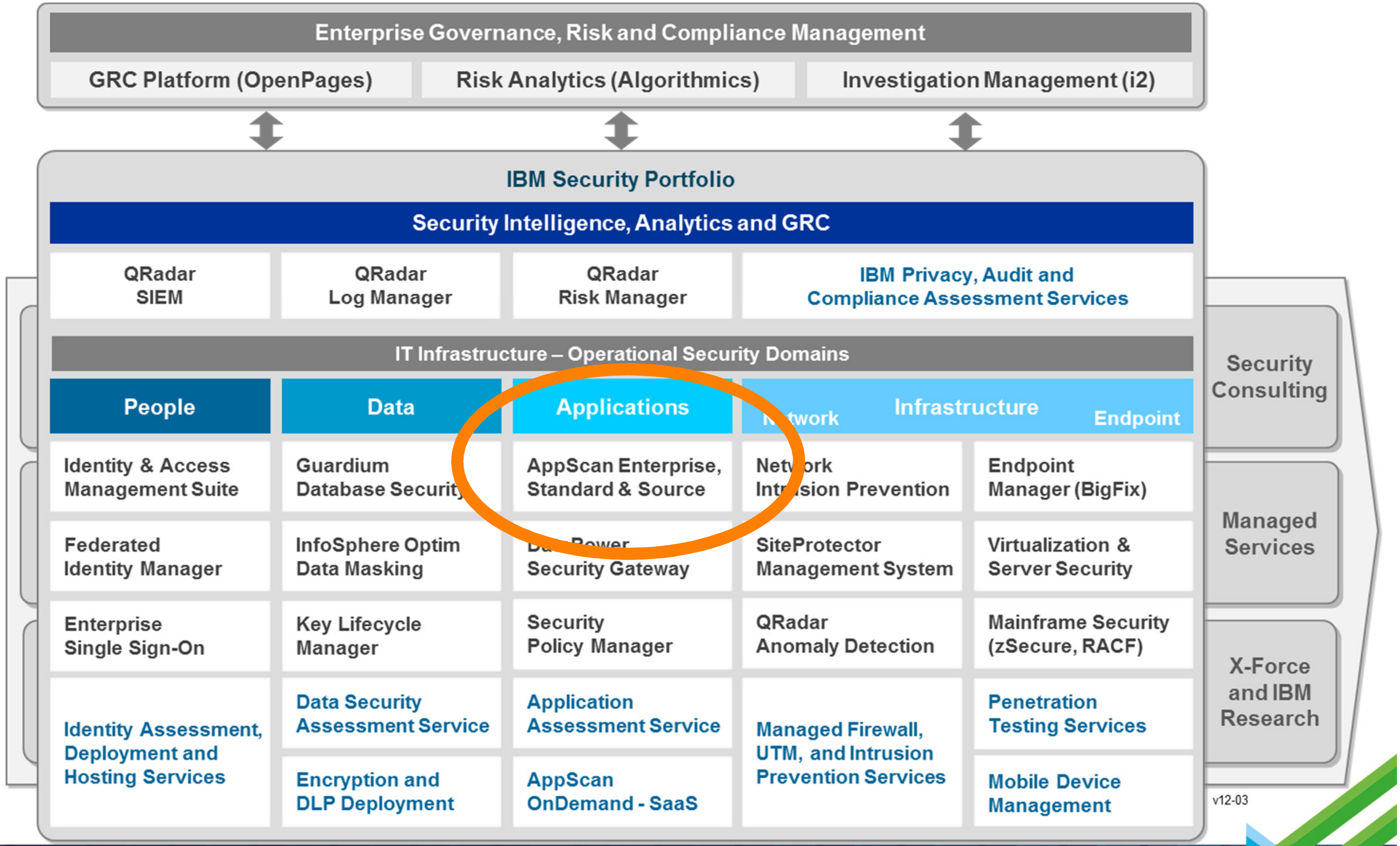
Prediction & Prevention

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

Reaction & Remediation

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

Intelligence: How can we Fix our Web Applications?



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Security Consulting

Managed Services

X-Force and IBM Research

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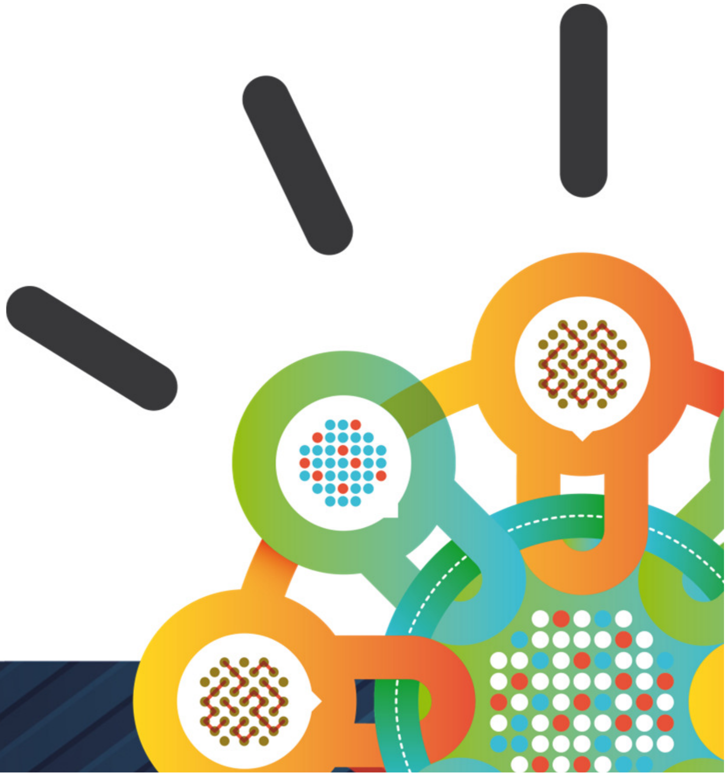
Security Intelligence.
Think Integrated.

Demo: Fixing Web Applications with AppScan



IBM AppScan – Security in the Development Lifecycle

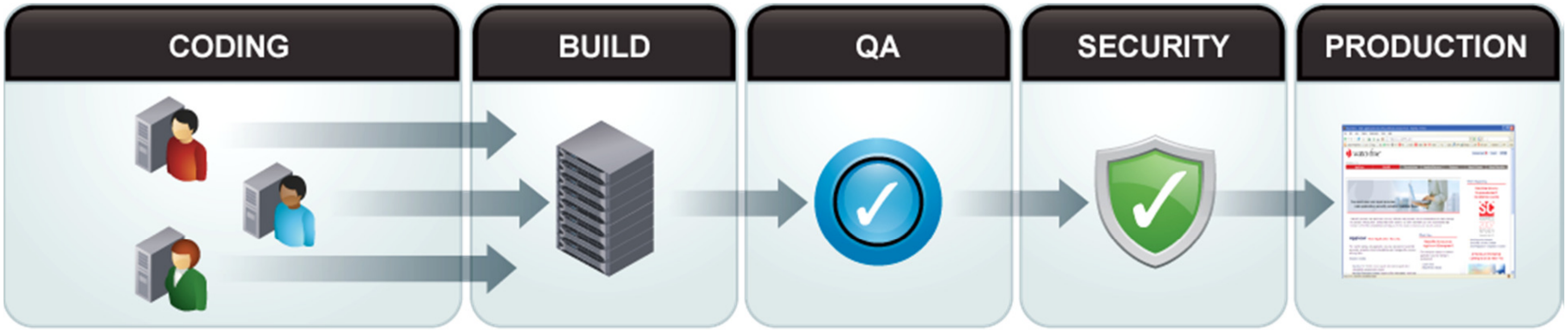
AppScan Source Edition
(server & clients)

AppScan Build Ed
(scanning agent)

(scanning agent)
(QA clients)
AppScan Tester Ed
AppScan Standard

AppScan Enterprise user
(web client)

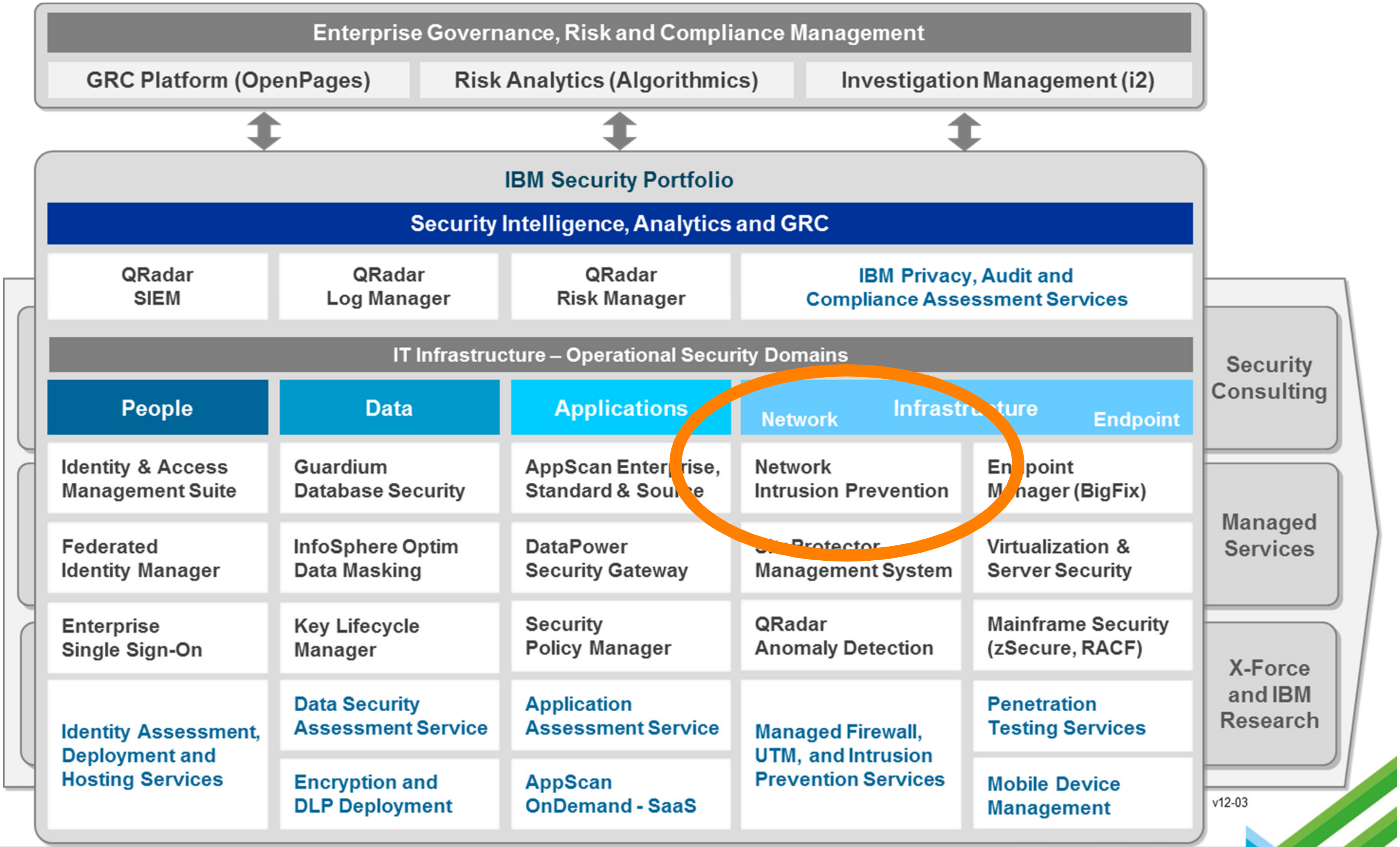
AppScan Standard Ed
(desktop)



Challenge to Share Test Results and Enable Self-Testing in the SDLC

* IBM X-Force 2011 Mid-Year Trend & Risk Report ** Verizon 2010 Data Breach Investigations Report

Intelligence: How can we buy time?



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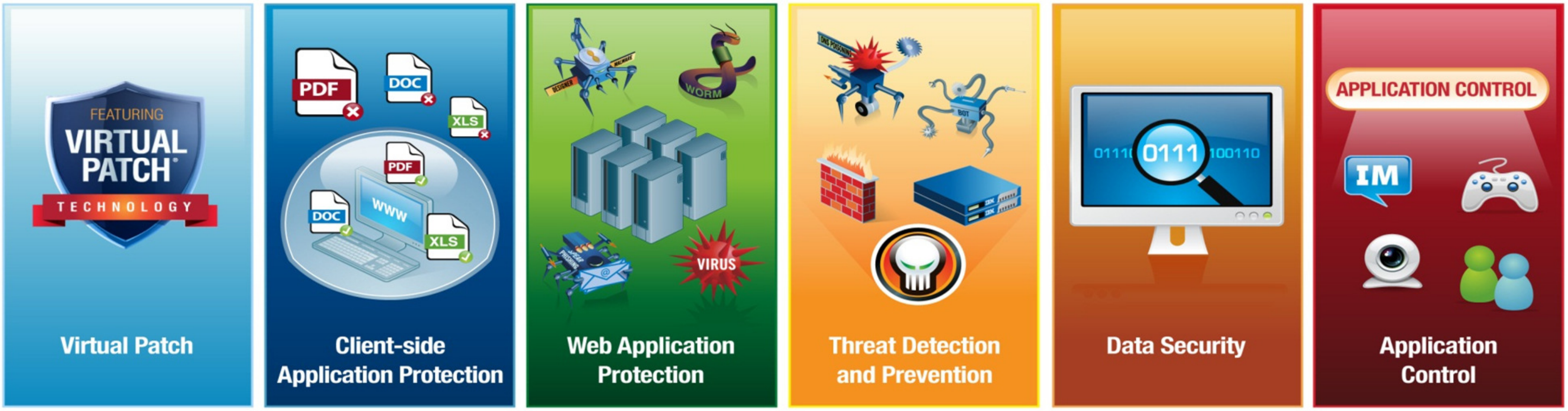
IBM Security Network IPS

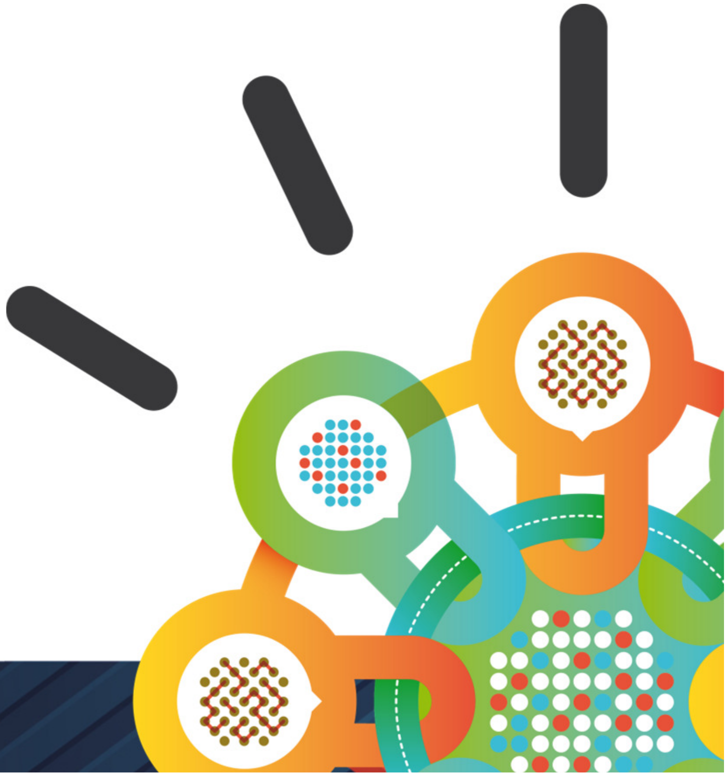
Enabling a Holistic Security Architecture

- IBM Security Network Protection offerings are based on a modular, research-driven protocol analysis engine for vulnerability based deep packet inspection

IBM Protocol Analysis Modular Technology

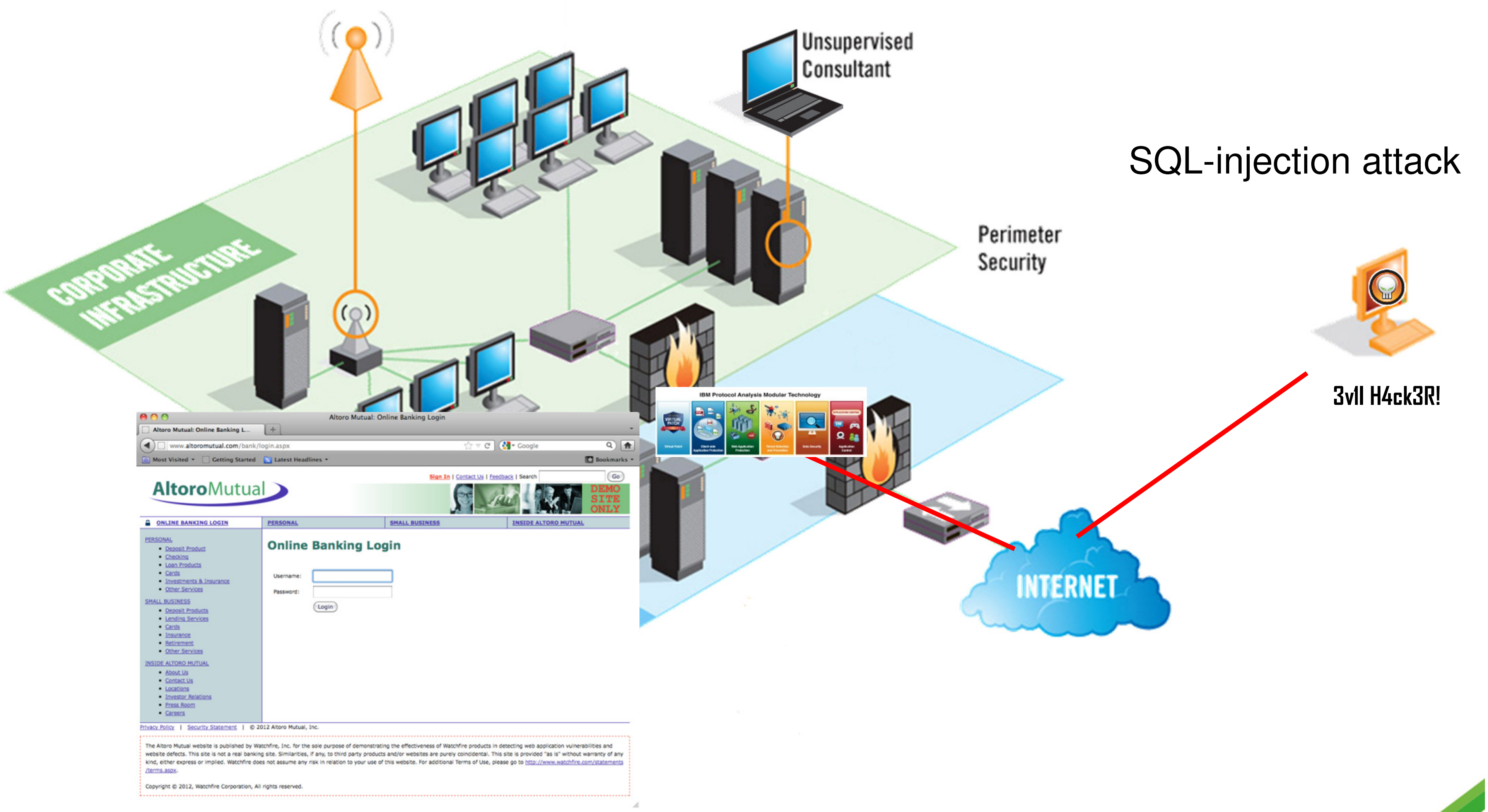


Demo: Buying Time with Virtual Patch



Demo : Enable Protection on the IBM network IPS

SQL-injection attack



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Password:

Login

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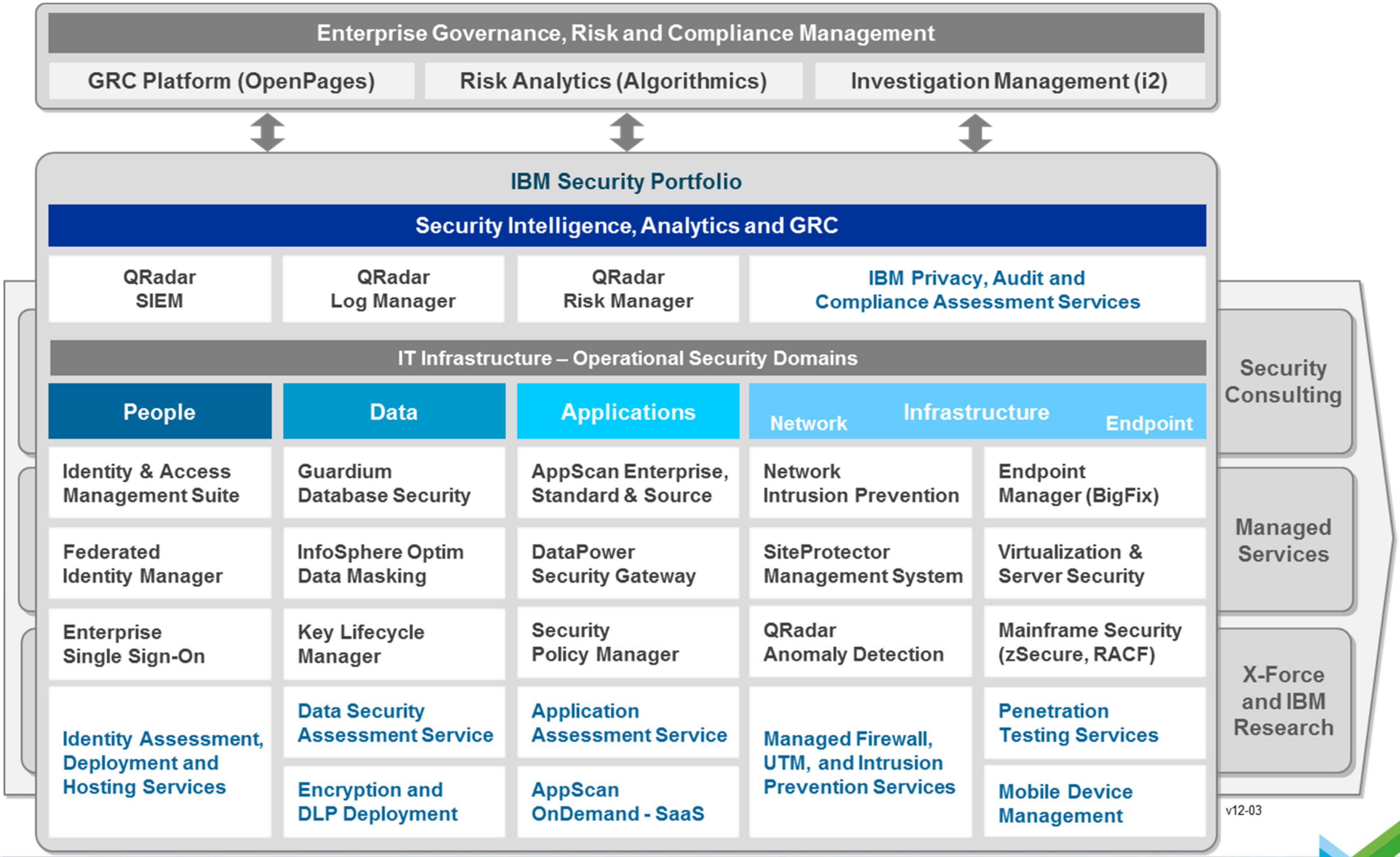
IBM Security: Delivering intelligence, integration and expertise across a comprehensive framework



Enterprise Governance, Risk and Compliance Management

GRC Platform (OpenPages) | Risk Analytics (Algorithmics) | Investigation Management (i2)

IBM Security Portfolio

Security Intelligence, Analytics and GRC

QRadar SIEM | QRadar Log Manager | QRadar Risk Manager | IBM Privacy, Audit and Compliance Assessment Services

IT Infrastructure – Operational Security Domains

People	Data	Applications	Infrastructure: Network	Infrastructure: Endpoint
Identity & Access Management Suite	Guardium Database Security	AppScan Enterprise, Standard & Source	Network Intrusion Prevention	Endpoint Manager (BigFix)
Federated Identity Manager	InfoSphere Optim Data Masking	DataPower Security Gateway	SiteProtector Management System	Virtualization & Server Security
Enterprise Single Sign-On	Key Lifecycle Manager	Security Policy Manager	QRadar Anomaly Detection	Mainframe Security (zSecure, RACF)
Identity Assessment, Deployment and Hosting Services	Data Security Assessment Service	Application Assessment Service	Managed Firewall, UTM, and Intrusion Prevention Services	Penetration Testing Services
	Encryption and DLP Deployment	AppScan OnDemand - SaaS		Mobile Device Management

Security Consulting

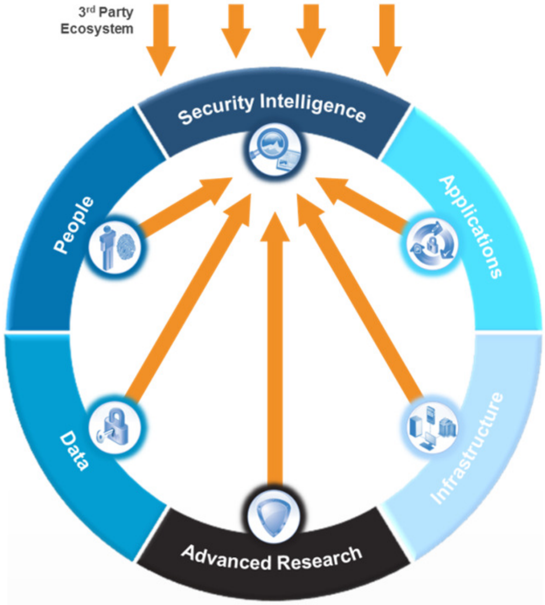
Managed Services

X-Force and IBM Research

v12-03

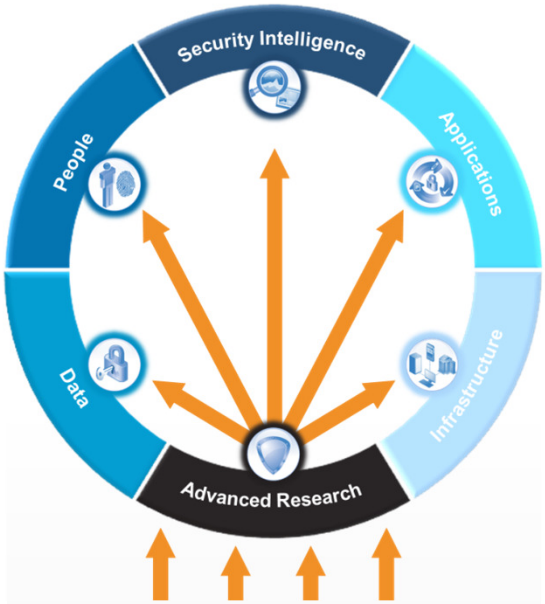
Integration: Help increase security, collapse silos, and reduce complexity

Integrated Intelligence.



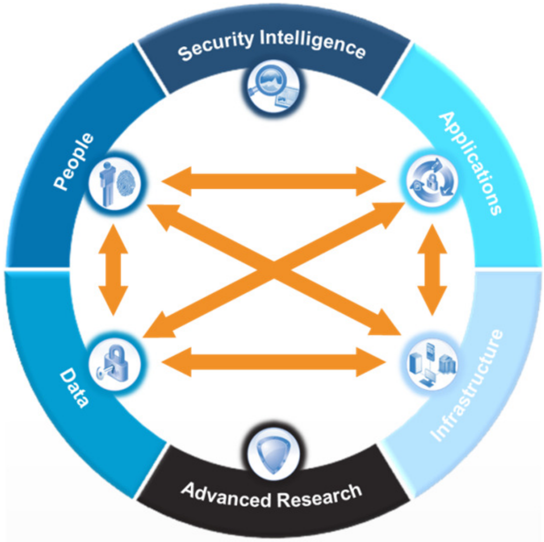
- Consolidate and correlate siloed information from hundreds of sources
- Designed to detect, notify and respond to threats missed by other security solutions
- Automate compliance tasks and assess risks

Integrated Research.



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

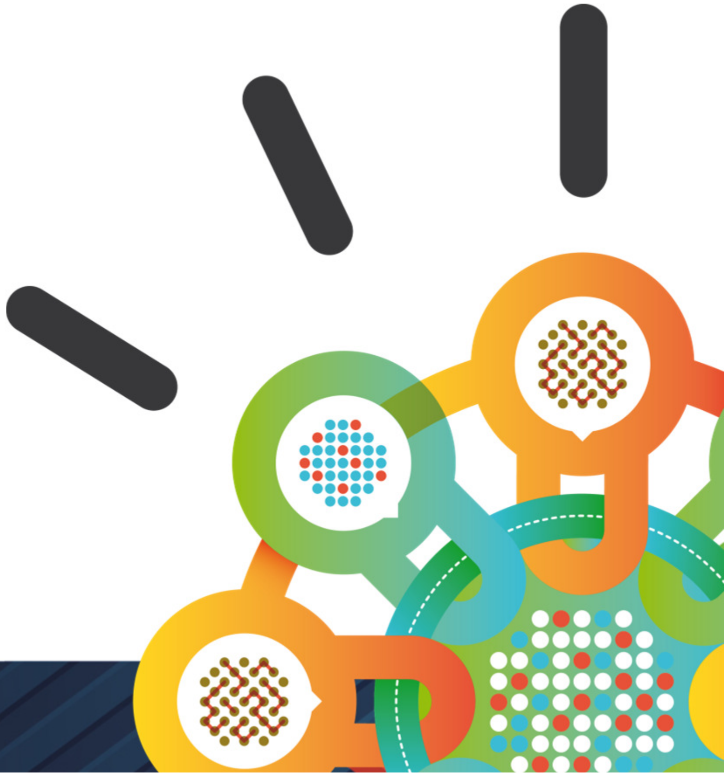
Integrated Protection.



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

Security Intelligence.
Think Integrated.

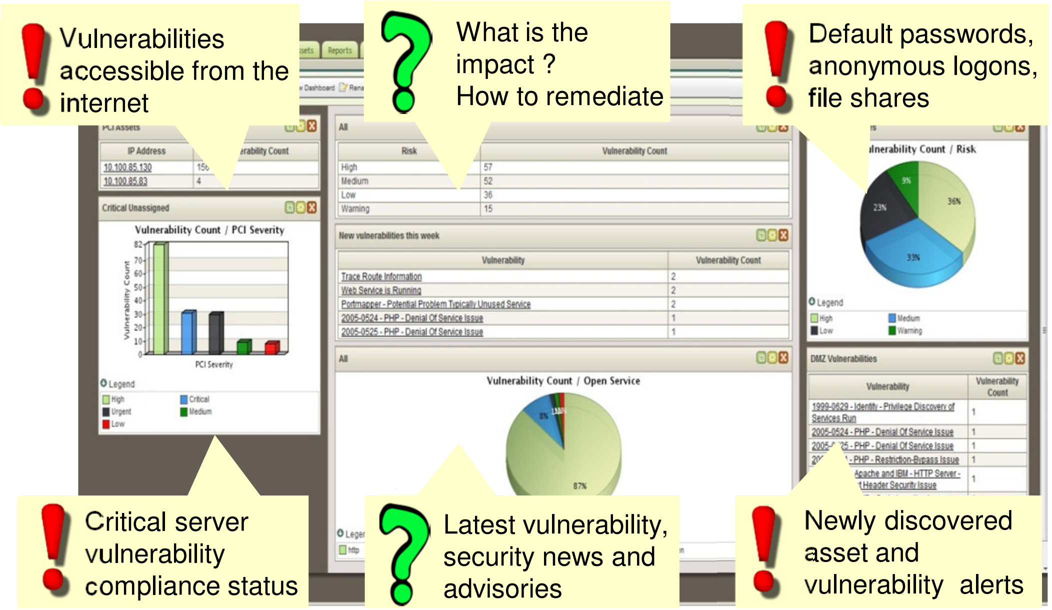
What’s New?



QRadar Vulnerability Manager

- Scan network infrastructure, servers and end points for bad configurations, weak settings, un-patched or out of date applications and other key security weaknesses

- Meet vulnerability compliance mandates



Vulnerabilities accessible from the internet

What is the impact ?
How to remediate

Default passwords, anonymous logons, file shares

Critical server vulnerability compliance status

Latest vulnerability, security news and advisories

Newly discovered asset and vulnerability alerts

PCI Assets

IP Address	Vulnerability Count
10.100.85.130	156
10.100.85.83	4

All

Risk	Vulnerability Count
High	57
Medium	52
Low	36
Warning	15

New vulnerabilities this week

Vulnerability	Vulnerability Count
Trace Route Information	2
Web Service is Running	2
Portmapper - Potential Problem Typically Unused Service	2
2005-0524 - PHP - Denial Of Service Issue	1
2005-0525 - PHP - Denial Of Service Issue	1

DMZ Vulnerabilities

Vulnerability	Vulnerability Count
1999-0629 - Identity - Privilege Discovery of Services Run	1
2005-0524 - PHP - Denial Of Service Issue	1
2005-0525 - PHP - Denial Of Service Issue	1
20[illegible] - PHP - Restriction-Bypass Issue	1
[illegible] Apache and IBM - HTTP Server - [illegible] Header Security Issue	1

Single console pain of glass to view all security information enabling improved forensics, data accuracy and **reduced operational costs**

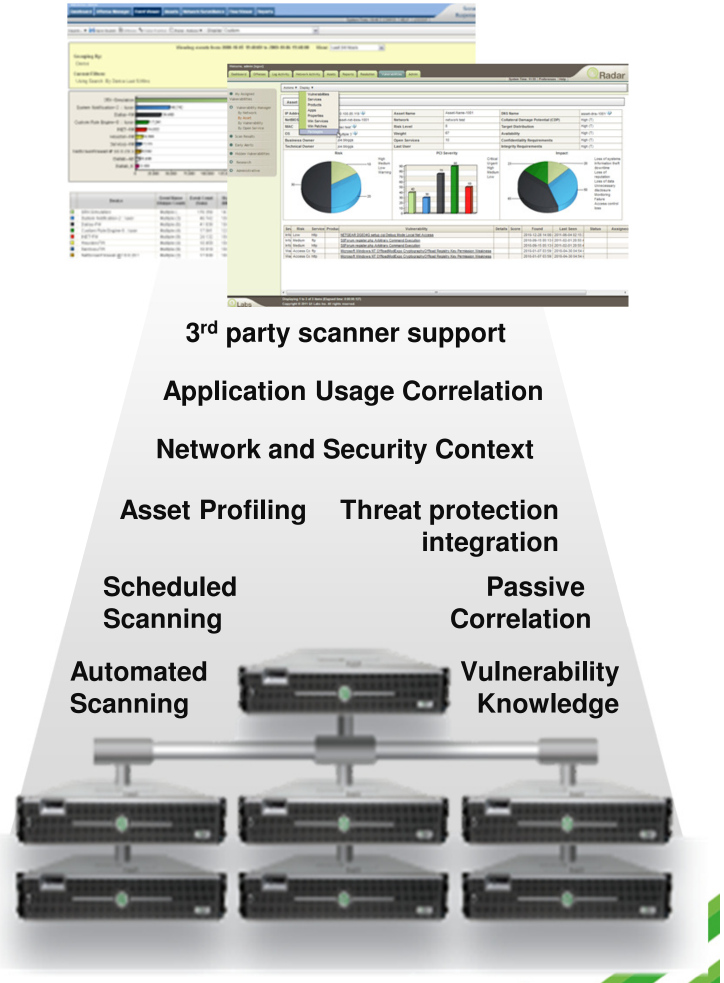
Seamless security intelligence integration providing context information to reduce false positives and **enable efficient vulnerability management**

Reduces risk and time with improved data accuracy and precision through event driven intelligent scanning

Rapid speed-to-value, automated updates, real-time analysis, and enhanced protection against evolving threats

Complete integrated vulnerability management

- Agent less network scanning (authenticated and non authenticated)
- Based on a well proven, certified, scalable, mature vulnerability scanning engine
- Vulnerability Management, Remediation, and exceptioning process support
- Powerful vulnerability filtering and pivoting functionality
- Wide range of vulnerability views, reports and integrated dashboards
- Online vulnerability knowledge base
- Nightly updates of News, Security advisories, Vulnerabilities and detection tools



3rd party scanner support

Application Usage Correlation

Network and Security Context

Asset Profiling

Threat protection integration

Scheduled Scanning

Passive Correlation

Automated Scanning

Vulnerability Knowledge

Next-Generation IPS : IBM Security Network Protection XGS 5100

XGS 5100 with 2 NIMs of 2 x 10GbE (8 ports total)

	NEW WITH XGS	NEW WITH XGS
PROVEN SECURITY	ULTIMATE VISIBILITY	COMPLETE CONTROL
Extensible, 0-Day protection powered by X-Force®	+ Understand the Who, What and When for all network activity	+ Ensure appropriate application and network use

IBM Security Network Protection XGS 5100
builds on the proven security of IBM intrusion prevention solutions
by delivering the addition of next generation visibility and control
to help balance security and business requirements

Next-Generation IPS with QRadar: A Winning Combination!

NETWORKWORLD

IBM attempts to redefine the IPS

Charles Kolodgy

Research Vice President, Security Products, IDC

- The IBM XGS represents **a new kind of IPS product** that "improves network, user, & application awareness and vastly improves an IPS's ability to provide full network protection, especially trying to uncover custom malware and …advanced persistent threats." [1]
- The uniqueness "is in the ability to set up security at the user level, **correlate that information (with QRadar)**, and utilize cloud-based threat intelligence to uncover malicious websites and files." [1]
- "**IBM's XGS is a category killer.** With this product, we have to consider creating a new network protection category that spans but also goes beyond firewall and intrusion prevention." [2]

– Charles Kolodgy, IDC

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