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IBM Application Security Solution

Manage your application security risk

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IBM Security

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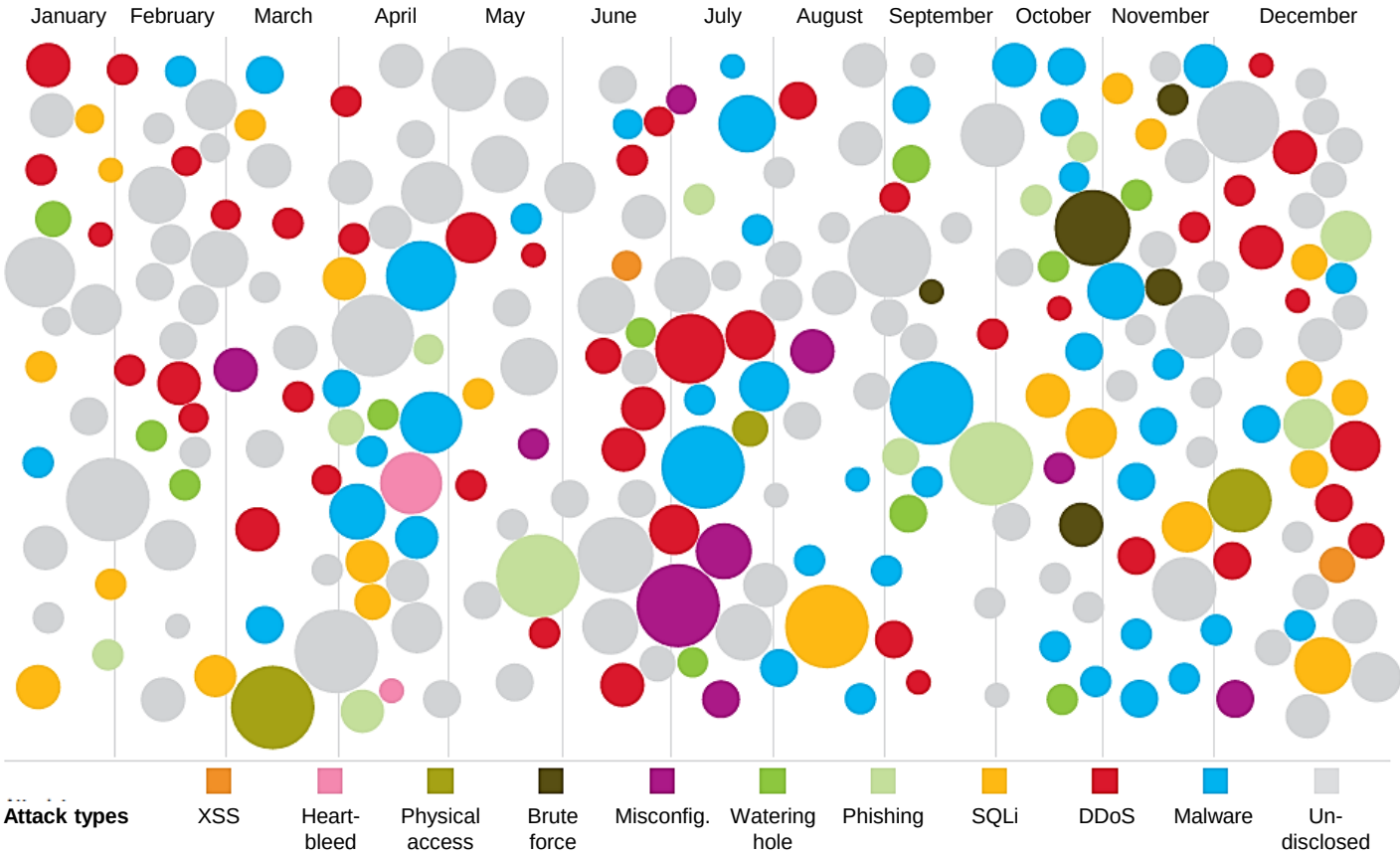
SQL injection: Still reliable for breaching applications

Sampling of security incidents by attack type, time and impact

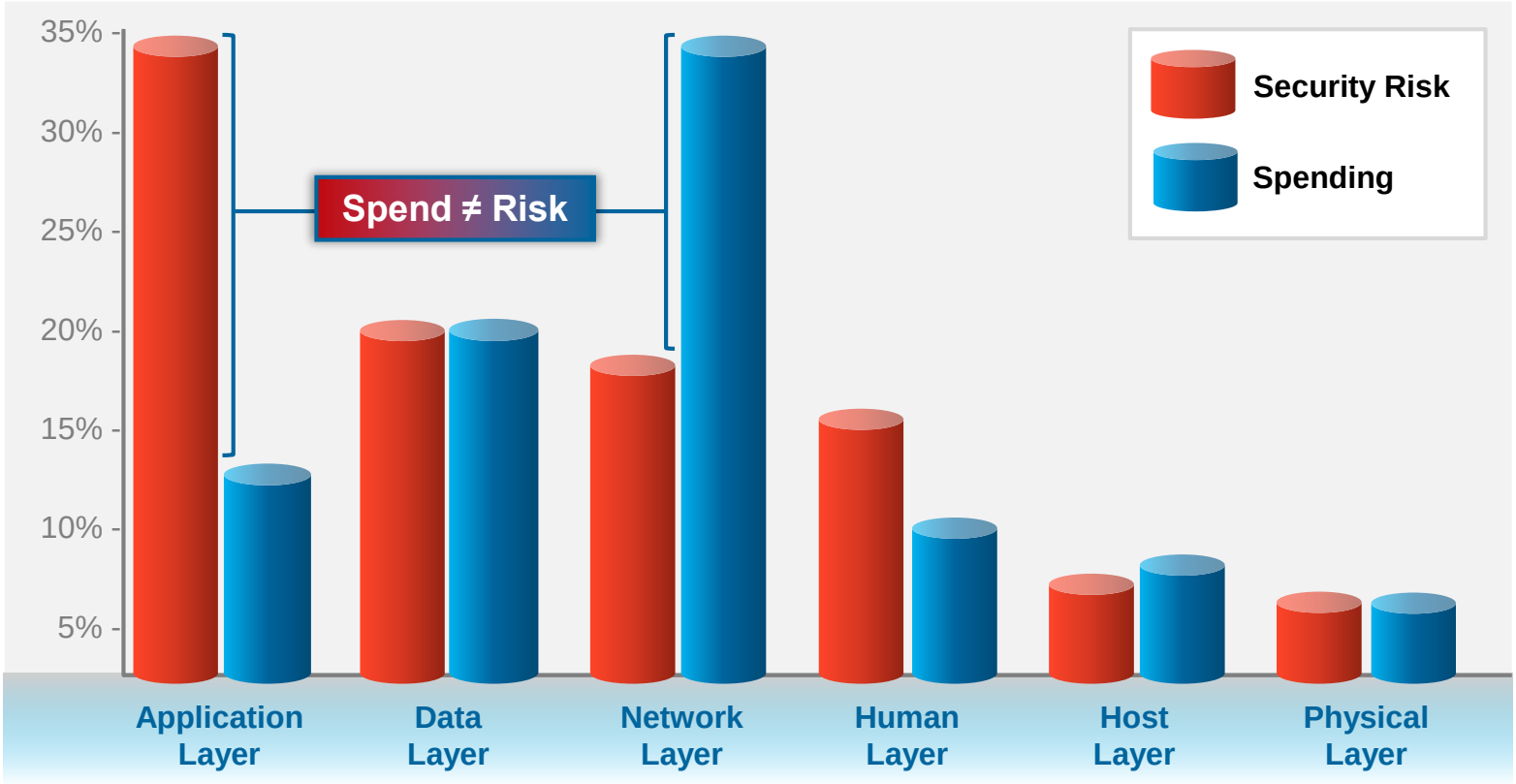


SQL injection accounted for 8.1% of attacks

Source: IBM X-Force Threat Intelligence Quarterly 1Q 2015

Application security spending

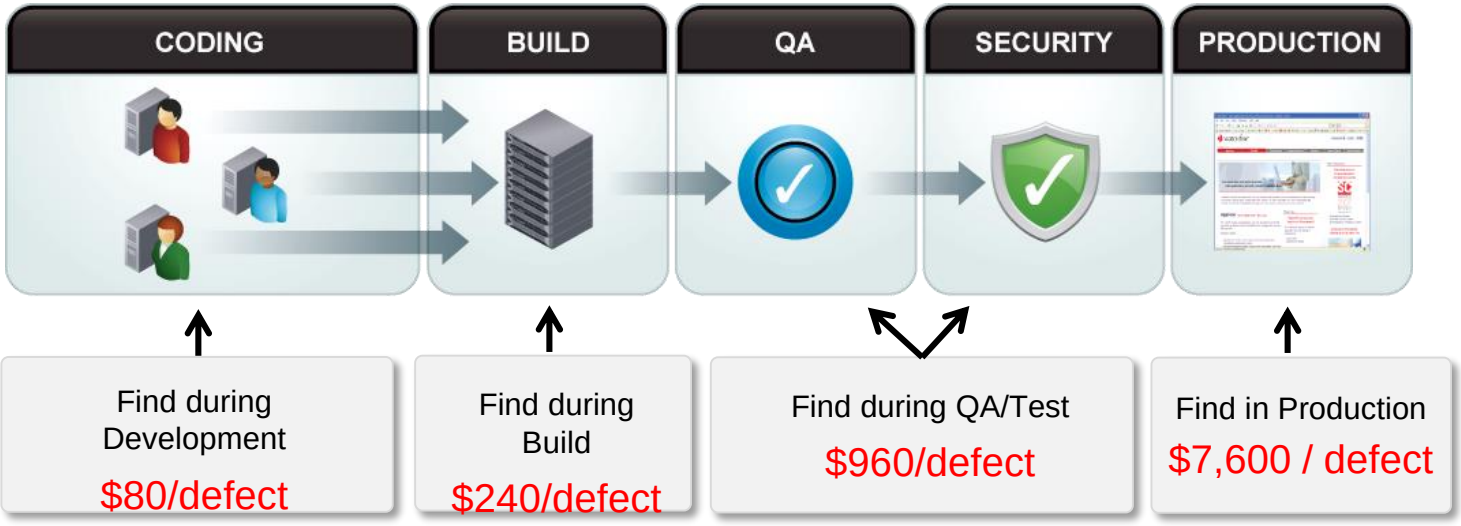
Where are your "security risks" versus your "spend"?



Many clients do not prioritize application security in their environments

Source: The State of Risk-Based Security Management, Research Study by Ponemon Institute, 2013

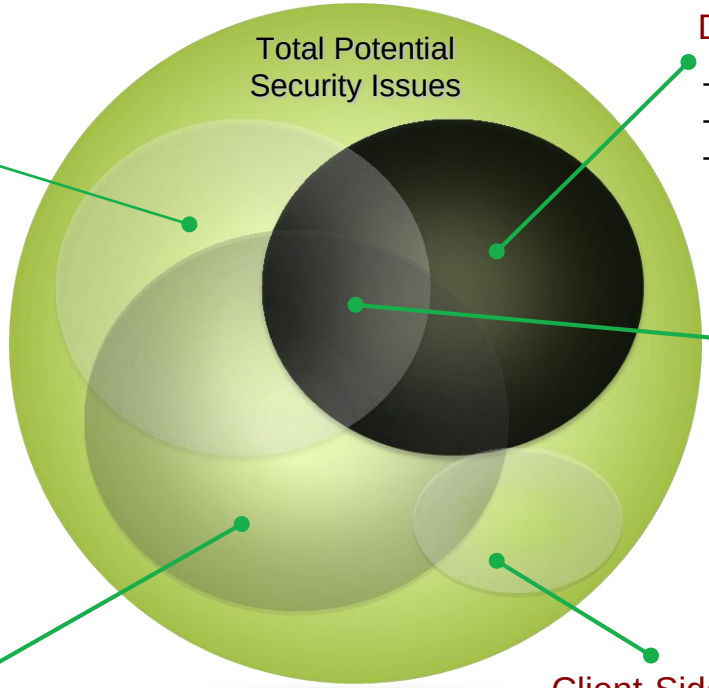
The Old Story – Still Valid But There's More….



* Source: National Institute of Standards and Technology

** Source: Ponemon Institute 2009-10

IBM AppScan uses various techniques to find vulnerabilities



Static Analysis

- Analyze Source Code
- Use during development
- Uses Taint Analysis / Pattern Matching

Dynamic Analysis

- Analyze Live Web Application
- Use during testing
- Uses HTTP tampering

Hybrid Analysis

- Correlate Dynamic and Static results
- Assists remediation by identification of line of code

Run-Time Analysis

- Combines Dynamic Analysis with run-time agent
- More results, better accuracy

Client-Side Analysis

- Analyze downloaded Javascript code which runs in client
- Unique in the industry

Flexible AppScan deployment solutions

Adopt individually or combine to meet your unique needs

SaaS	On-Premise	Managed Service
Testing focus	***Custom program***	***Program management***
• Simple • Self service • Quick results	• Scalable • Customizable • Comprehensive	• Skilled expertise • Guided remediation
IBM Application Security on Cloud	**IBM Security AppScan**	**IBM / Sogeti**

But analysis is not enough…

But analysis is not enough: It's all about managing risk…

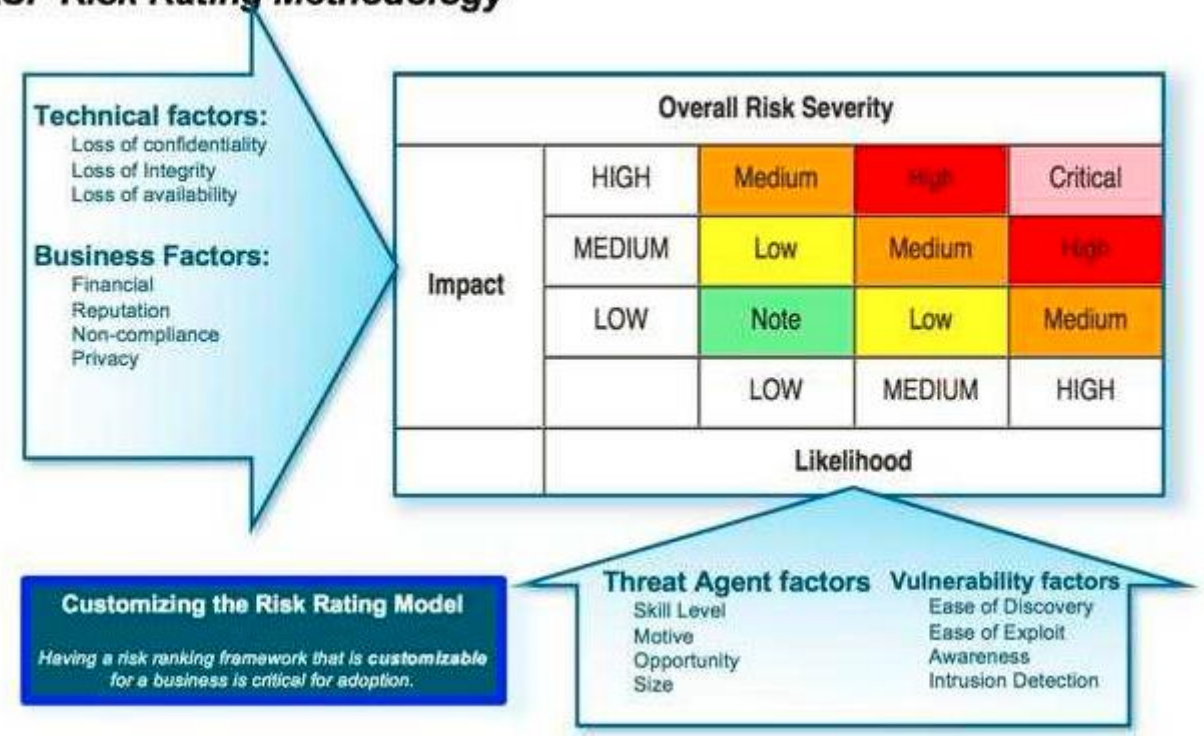
"Security has and will always be about understanding, managing, and mitigating the risk to an organization's most critical assets."

Advanced Persistent Threat, Understanding the Danger and How to Protect Your Organization, by Dr. Eric Cole, SANS Institute

Internal / External / Sensitive data	**IT Help**	**Online Product Catalog**	**Employee Travel Site**	**Online Store**
Business Impact	Low	Medium	High	Critical
Vulnerabilities	(2) Medium Session identifier not updated	(2) High SQL injection	(1) Medium Open redirect	(1) High SQL injection
Application Security Risk	**LOW**	**HIGH**	**MEDIUM**	**VERY HIGH**

OWASP

OWASP Risk Rating Methodology



IBM Application Security Framework

Application Security Management

- Asset Inventory
- Business Impact Assessment
- Vulnerability Prioritization
- Status and Progress Measurement
- Compliance Determination

Test

Applications in Development

- Dynamic Analysis
- Static Analysis
- Interactive Analysis
- Mobile Application Analysis

Monitor and Protect

Deployed Applications

- Intrusion Prevention
- SIEM
- Database Activity Monitoring
- Web Application Firewall
- Mobile Application Protection

Utilize resources effectively to identify and mitigate risk

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Looking at application security in the Cloud

IBM Application Security on Cloud

Easy as 1, 2, 3!

Simple

Does my application contain security vulnerabilities?

1

Enter URL / upload application

2

Scan the application

3

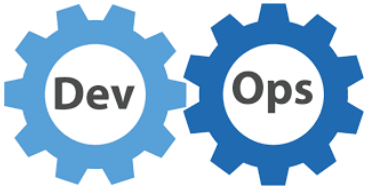
Review the report

Combine leading technology with the benefit of the cloud

EASY
(Simple configuration, Fast Scans, Easy integration)

IFA
(Intelligent Findings Analytics, reduce false positive)

IR
(Intermediate Representation, don't send your code to cloud)



SDLC
(Integration into SWG Dev Lifecycle)

IBM Application Security on Cloud – Analyzing a mobile application - Demo

IBM Application Security on Cloud - Video

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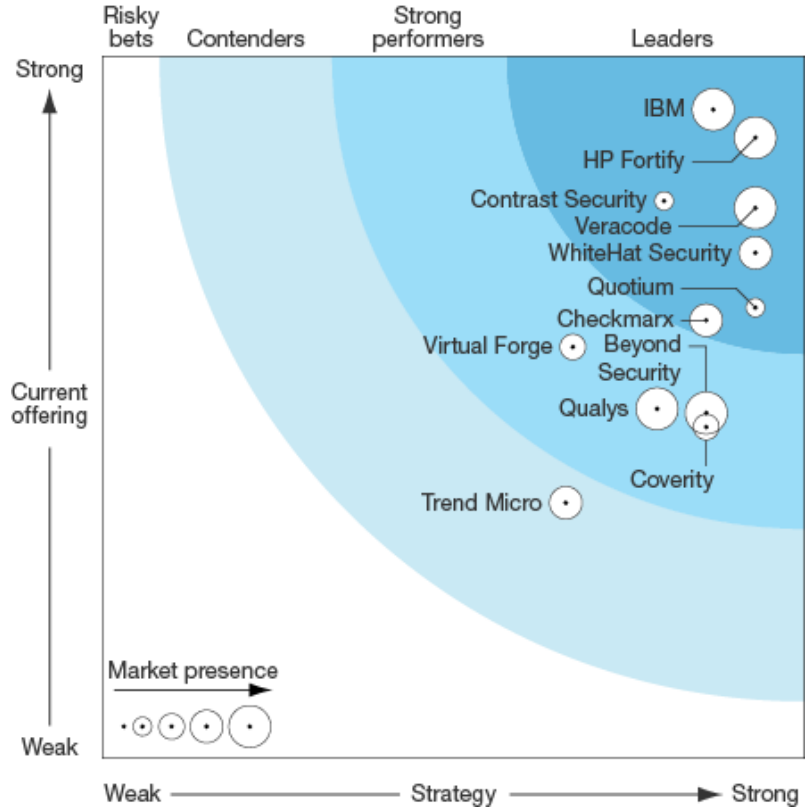
Summary of Application Security at IBM and Sogeti

IBM positioned in “Leaders” category in The Forrester Wave™

FORRESTER®

The Forrester Wave™:
Application Security,
Tyler Shields

“IBM’s focus on the developer integration leads to exceptional results. The IBM product offering provides extensive general features on both on-premises and on-demand application security solutions, depending on customer needs.”



The benefits of IBM and Sogeti application security in three points

- Save IT resources – Optimize the security work of Developers, QA and Security Analysts thus lowering development cost
- Business Operation Efficiency – Reduce the risk of application outages and loss of critical information
- Flexible solutions – Take advantage of solutions delivered as On-premises, Cloud and/or Managed Services

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Test Data Management and Service Virtualization

Test data Management

Service Virtualization

Test Virtualization Server

Simulate interfaces so you can test when you want.

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.

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