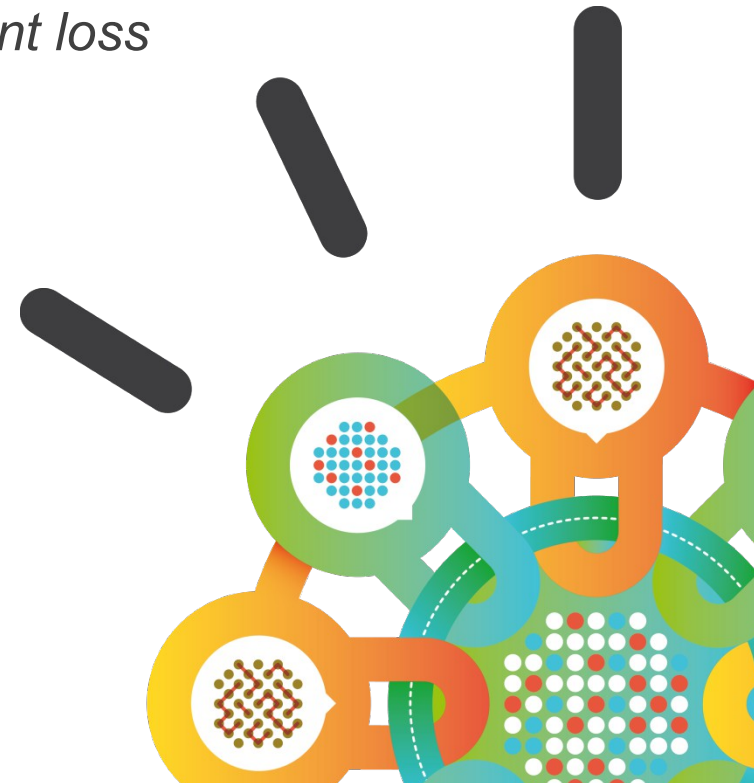


Security Intelligence.  
**Think Integrated.**

# • IBM Threat Protection System

*A dynamic, integrated system to disrupt the lifecycle of advanced attacks and help prevent loss*

- April 30, 2014
- **Jim Brennan**
- Director, Strategy and Product Management
- Infrastructure Security & X-Force



## Disclaimer

### Please Note:

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# We are in an era of continuous breaches

- Attackers are relentless, victims are targeted, and the damage toll is rising

## Operational Sophistication

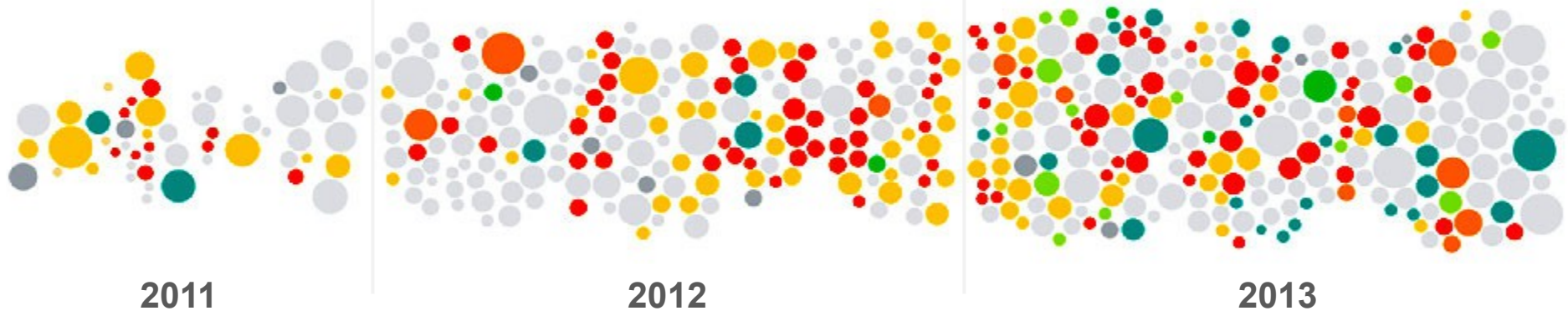
IBM X-Force declared **Year of the Security Breach**

## Near Daily Leaks of Sensitive Data

**40% increase** in reported data breaches and incidents

## Relentless Use of Multiple Methods

**500,000,000+ records** were leaked, while the future shows no sign of change



Source: IBM X-Force Threat Intelligence Quarterly – 1Q 2014

Note: Size of circle estimates relative impact of incident in terms of cost to business.

## Four truths about advanced threat protection

- Despite increasing challenges, organizations can protect themselves by adopting the right strategy

1

### Prevention is mandatory

Traditional methods of prevention have often failed, leaving many to believe detection is the only way forward. This is a dangerous proposition.

2

### Security Intelligence is the underpinning

Specialized knowledge in one domain is not enough. It takes enterprise-wide visibility and maximum use of data to stop today's threats.

3

### Integration enables protection

The best defense is relentless improvement. Technologies must seamlessly integrate with processes and people across the entire lifecycle of attacks.

4

### Openness must be embraced

Security teams need the ability to share context and invoke actions between communities of interest and numerous new and existing security investments.

# Introducing the IBM Threat Protection System

- A dynamic, integrated system to disrupt the lifecycle of advanced attacks and help prevent loss

**Prevent. Detect. Respond.**



*Made possible by the following:*

## Accelerated Roadmap

*Significant investment across 10 development labs to fast-track advanced threat protection offerings*

## Unique Integrations

*Strategic focus on connecting IBM products to streamline intelligence sharing and take action*

## New Partnerships

*Coordinated outreach across the industry to bring together interoperable products for our customers*

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

**Trusteer Apex Malware Protection**



On the Endpoint

**Prevent malware installs**

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

**Prevent control channels**

- Stop direct outbound malware communications
- Protect against process hijacking

**Prevent credential loss**

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

**Exploit Disruption**

On the Network

**XGS**



IBM Security Network Protection XGS

**Prevent mutated exploits**

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

**Prevent active beaconing**

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

**Prevent malicious apps**

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

**Malware Quarantine**

**User Protection**



# Continuously monitor security-relevant activity from across the entire organization

## Predict and prioritize security weaknesses before adversaries do

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

Pre-Attack Analytics

IBM Security QRadar Vulnerability Manager

## 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

Real-time Attack Analytics

IBM Security QRadar SIEM

### IBM Security QRadar Security Intelligence Platform



# 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

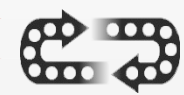


**IBM Security QRadar Incident Forensics**

## Rapid Response Integrations

**Quickly expand security coverage to prevent further harm**

- Share indicators across control points
- Dynamically apply customized rules



**IBM Security Framework 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**



**Respond**



# Leverage threat intelligence with product integrations that draw upon human and machine-generated information

## Global Threat Intelligence



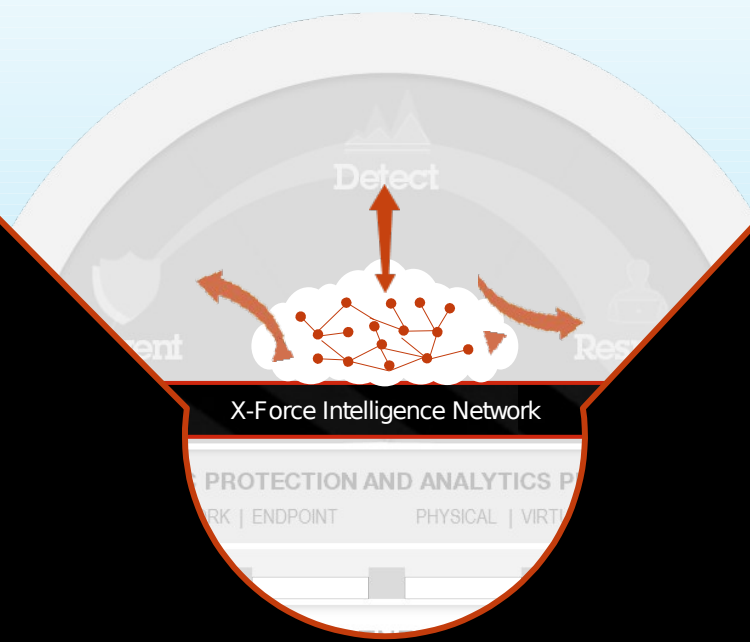
- Combines the renowned expertise of X-Force with Trusteer malware research
- Catalog of 70K+ vulnerabilities, 22B+ web pages, and data from 100M+ endpoints
- Intelligence databases dynamically updated on a minute-by-minute basis



Zero-day Research    Malware Analysis    Exploit Triage



IP/Domain Reputation    URL/Web Filtering    Web App Control



# Share, analyze, and act upon information gathered from an ecosystem of third-party products

## Security Partner Ecosystem Integrations

*IBM works with a broad set of technology vendors who provide complementary solutions and are integrated with our security products*

### Strengthen the threat protection lifecycle

- Leverage a vibrant ecosystem of security products
- Increase visibility, collapse information silos, and provide insights on advanced attacks

**IBM Security Partner Ecosystem 90+ vendors and 400+ products**



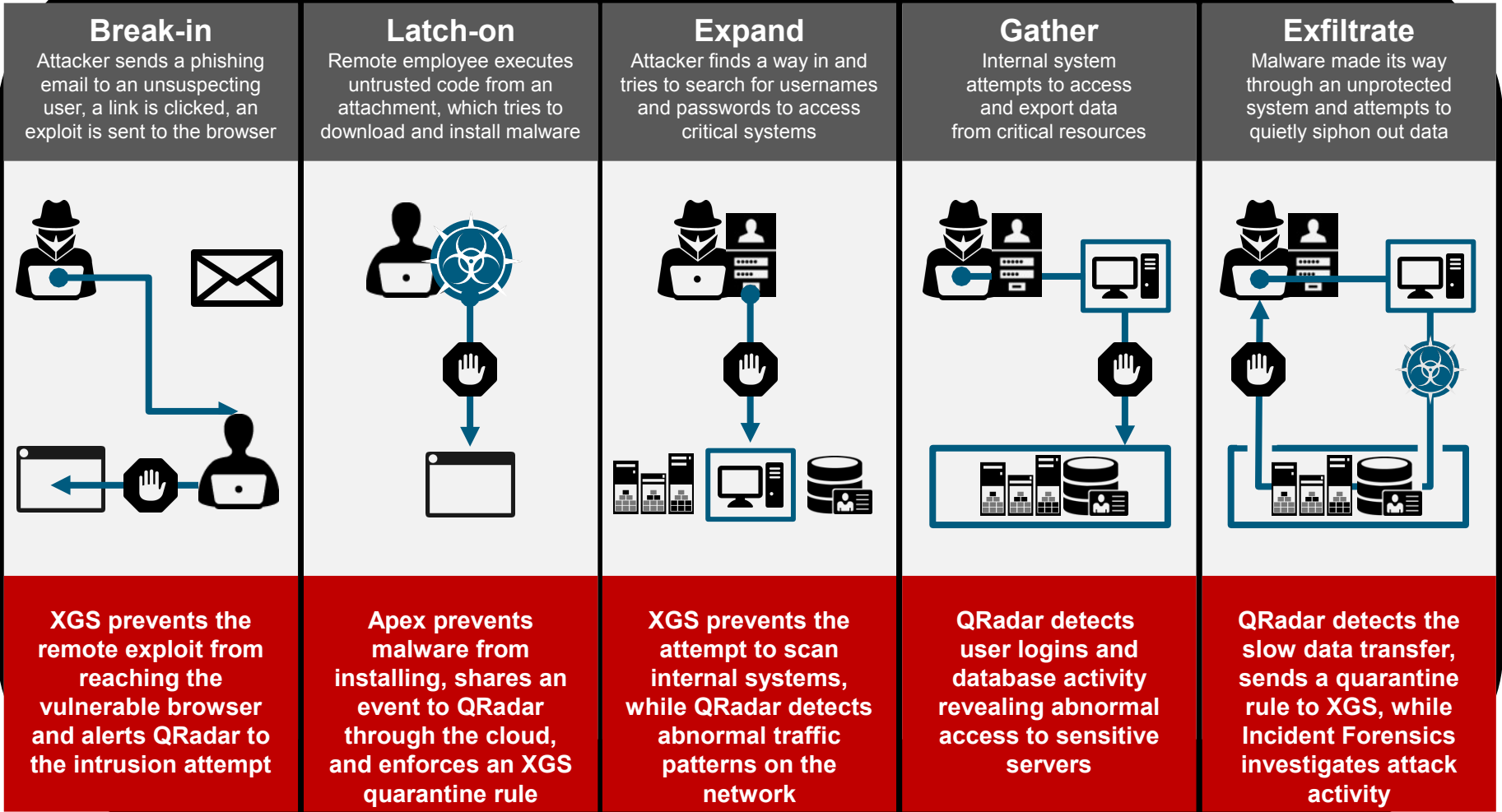
### Planned Advanced Threat Protection Integrations:

- TREND MICRO™** *Trend Micro Deep Security IBM XGS Quarantine and Blocking*
- FireEye™** *FireEye Web Malware Protection System IBM XGS Quarantine and Blocking*
- DAMBALLA** *Damballa Failsafe IBM XGS Quarantine and Blocking*
- paloalto NETWORKS** *Palo Alto Firewalls Trusteer Apex integration*

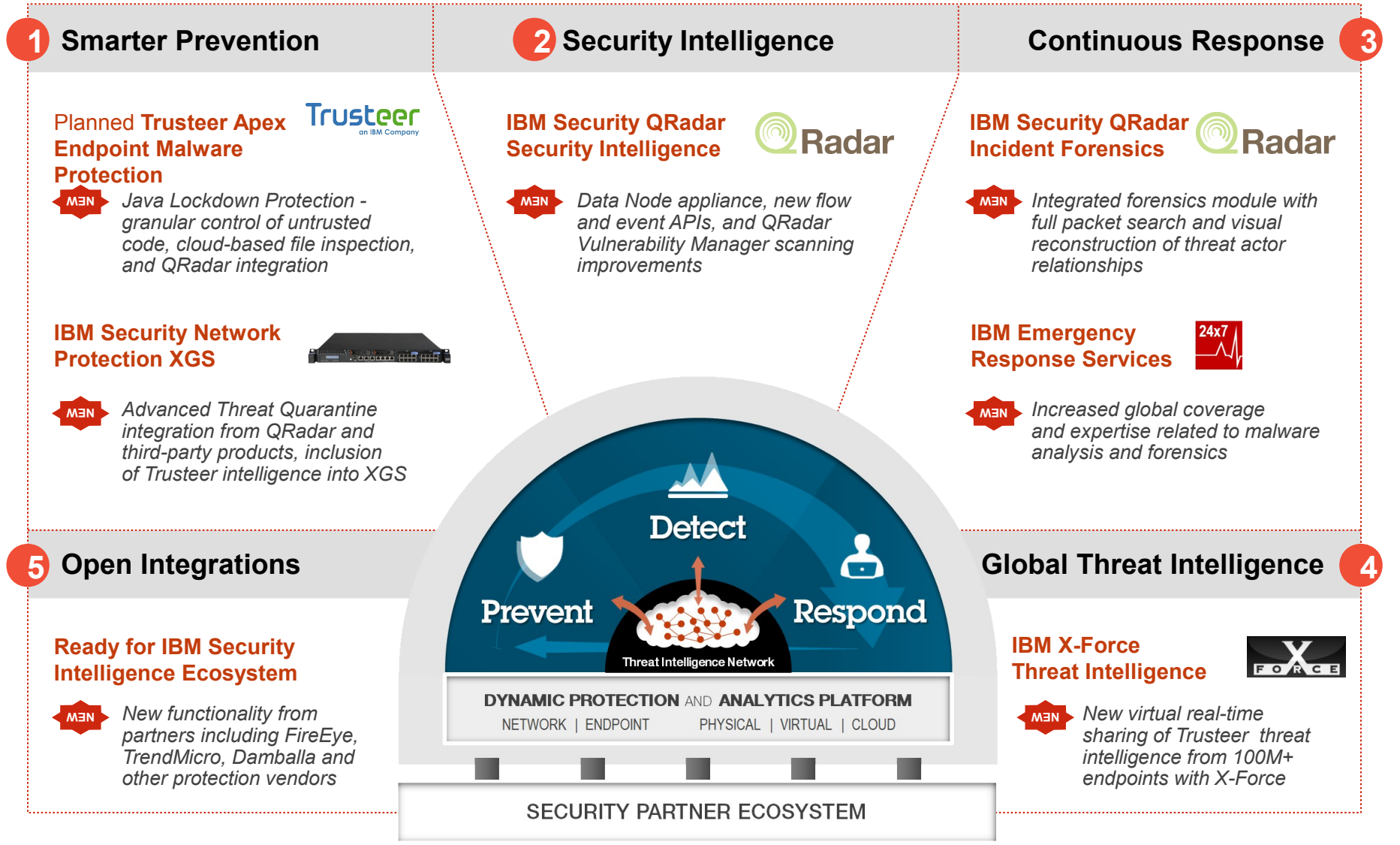
### Additional Example QRadar Partners:

- CISCO**
- websense** ESSENTIAL INTELLIGENCE PROTECTION
- QUALYS™**
- BLUE COAT**
- proofpoint™**
- JUNIPER NETWORKS**

# Examples of breaking the attack chain through integrated intelligence



# IBM is uniquely positioned to offer integrated protection



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.

# Thank You

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