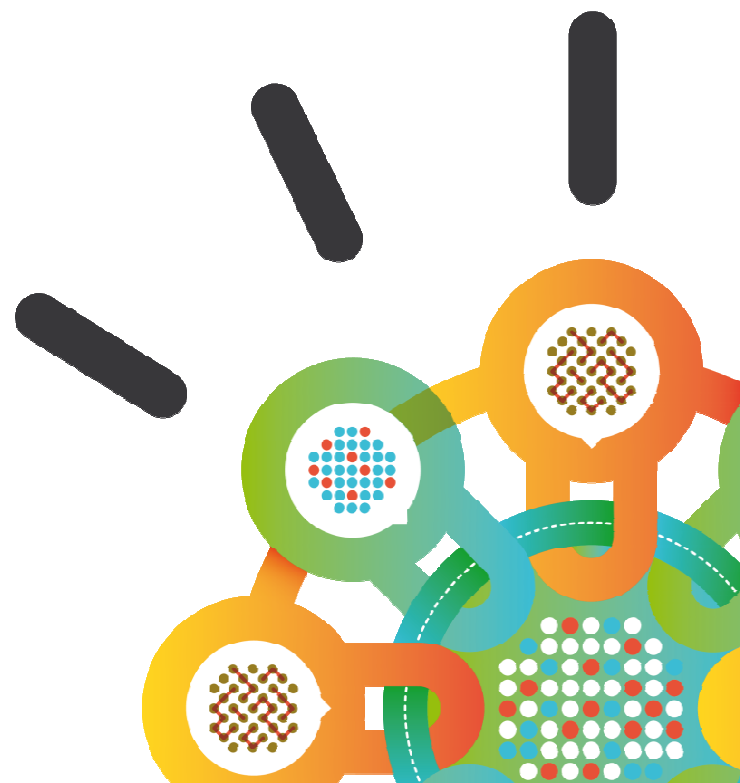

Security Intelligence.
Think Integrated.

IBM Security Systems

Business Partner Meeting

2. / 3. Juli, München



Agenda – Tag 1

- 11:00 Begrüßung
- 11:15 State of the Union
- 11:45 Prevent. Detect. Respond.
- 12:30 Mittagspause
- 13:30 APT Abwehr und Malware Blocking – Trusteer Apex
- 14:30 QRadar Incident Forensics
- 15:45 Pause
- 16:15 IT Compliance und ISO 27001
- 17:15 Q&A

- 19:00 Abendveranstaltung

Agenda – Tag 2

- 09:00 IAM, Lösungen für Cloud und Mobile Access
- 10:00 Security für die Cloud
- 11:00 Pause
- 11:30 Appscan 9.0
- 12:30 Software Group Services
- 13:15 Q & A anschließend Gemeinsames Mittagessen

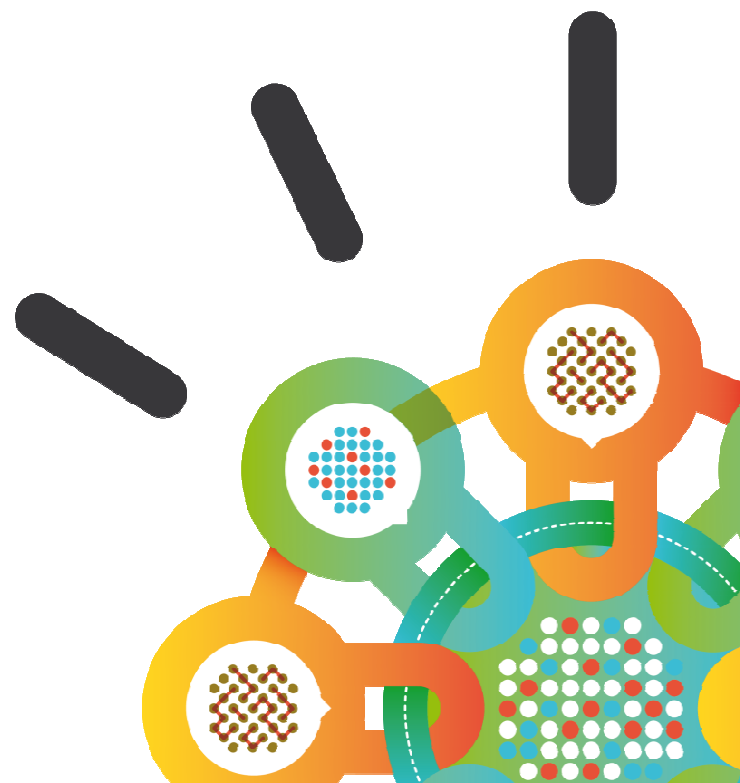
IBM Security Offers a Comprehensive Product Portfolio

Security Intelligence and Analytics					
QRadar Log Manager	QRadar SIEM	QRadar Risk Manager	QRadar Vulnerability Manager	QRadar Incident Forensics	
Advanced Fraud Protection					
Trusteer Rapport	Trusteer Pinpoint Malware Detection	Trusteer Pinpoint ATO Detection		Trusteer Mobile Risk Engine	
People	Data	Applications	Network	Infrastructure	Endpoint
Identity Manager	Guardium Database Activity Monitoring	AppScan Source	Network Intrusion Prevention (GX)	Trusteer Apex	
Access Manager Family	Guardium Encryption Expert	AppScan Enterprise / Standard	Next Generation Network Protection (XGS)	FiberLink MaaS360	
Privileged Identity Manager	Guardium / Optim Data Masking	DataPower Web Security Gateway	SiteProtector Threat Management	Endpoint Manager	
Federated Identity Management	Key Lifecycle Manager	Security Policy Manager	QRadar Network Anomaly Detection	Host Protection	
Directory Integrator / Directory Server				zSecure	
IBM X-Force Research					

Security Intelligence.
Think Integrated.

IBM Threat Protection System

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



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.

Was ist besonders bei Advanced Persistent Threats?

Advanced

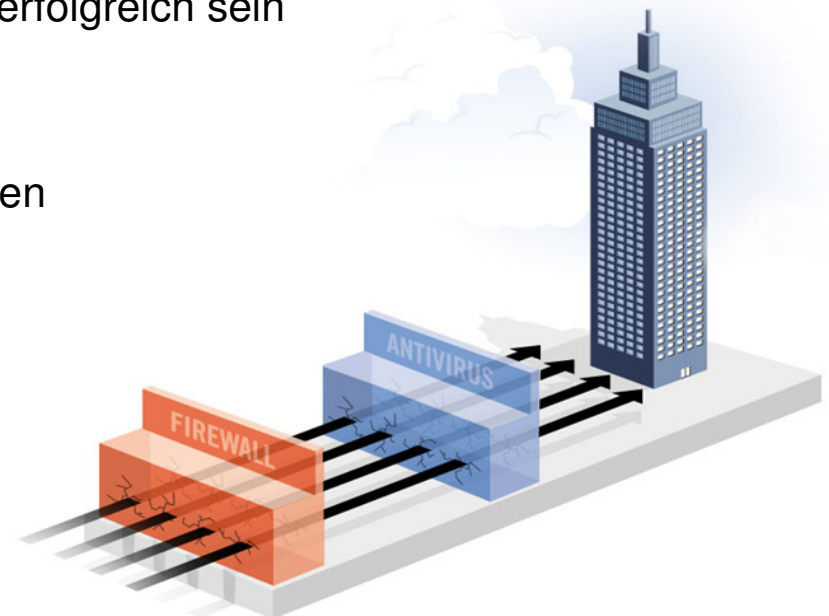
- Ausnutzen unbekannter (zero-day) Schwachstellen
- Erweiterte, angepasste “Malware” die nicht von AV Lösungen erkannt wird
- Koordinierte, hoch entwickelte Angriffe, die mehrere Module verwenden

Persistent

- Lange Angriffslaufzeiten (Durschnitt: 1 Jahr; Längster bisher 4.8 Jahre)¹
- Angreifer sind auf ein Ziel gerichtet – Sie werden erfolgreich sein

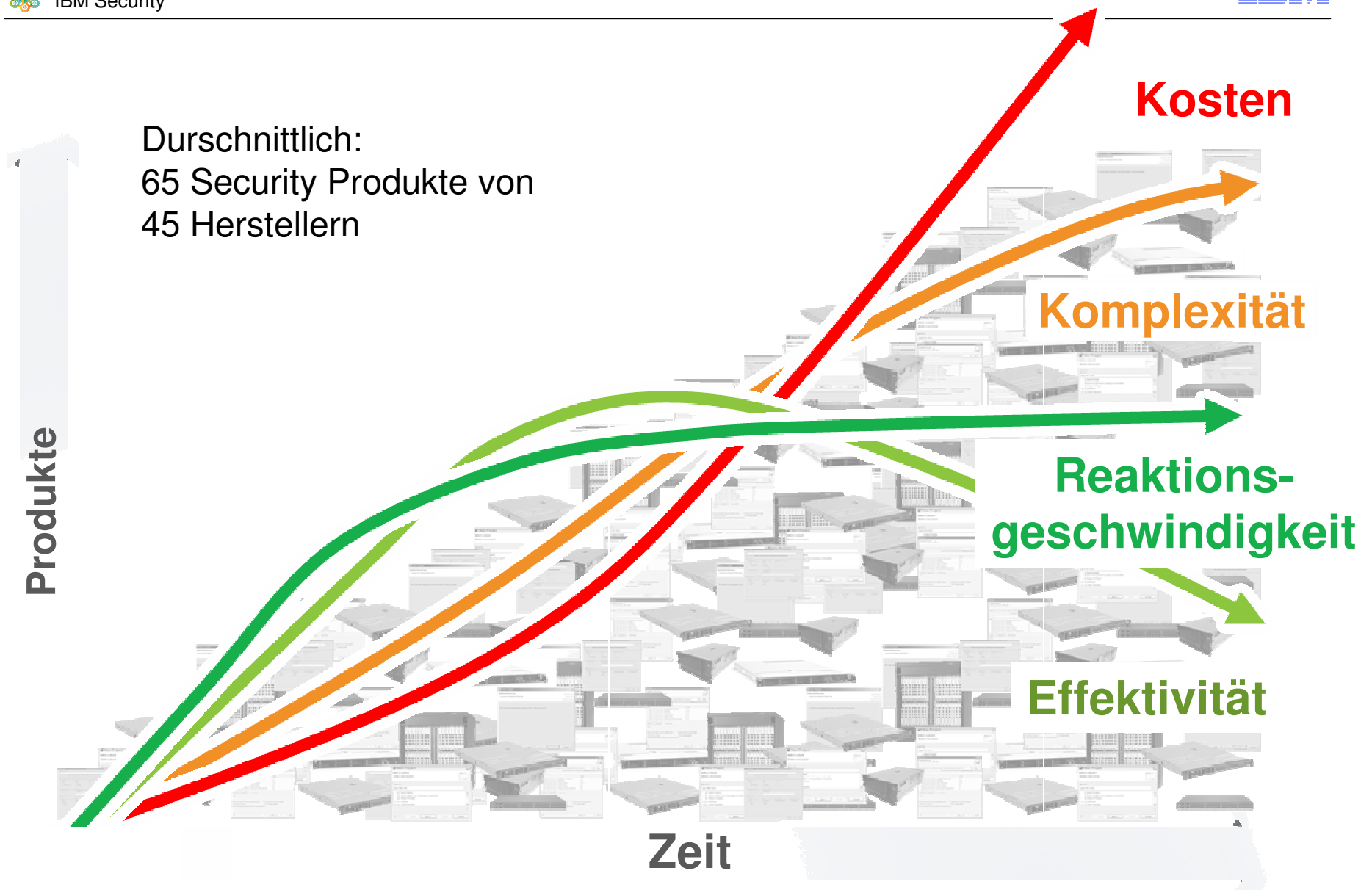
Threat

- Zielgerichtet auf bestimmte Personen oder Gruppen um interessante Daten zu erhalten
- So wenig auffallen, wie möglich



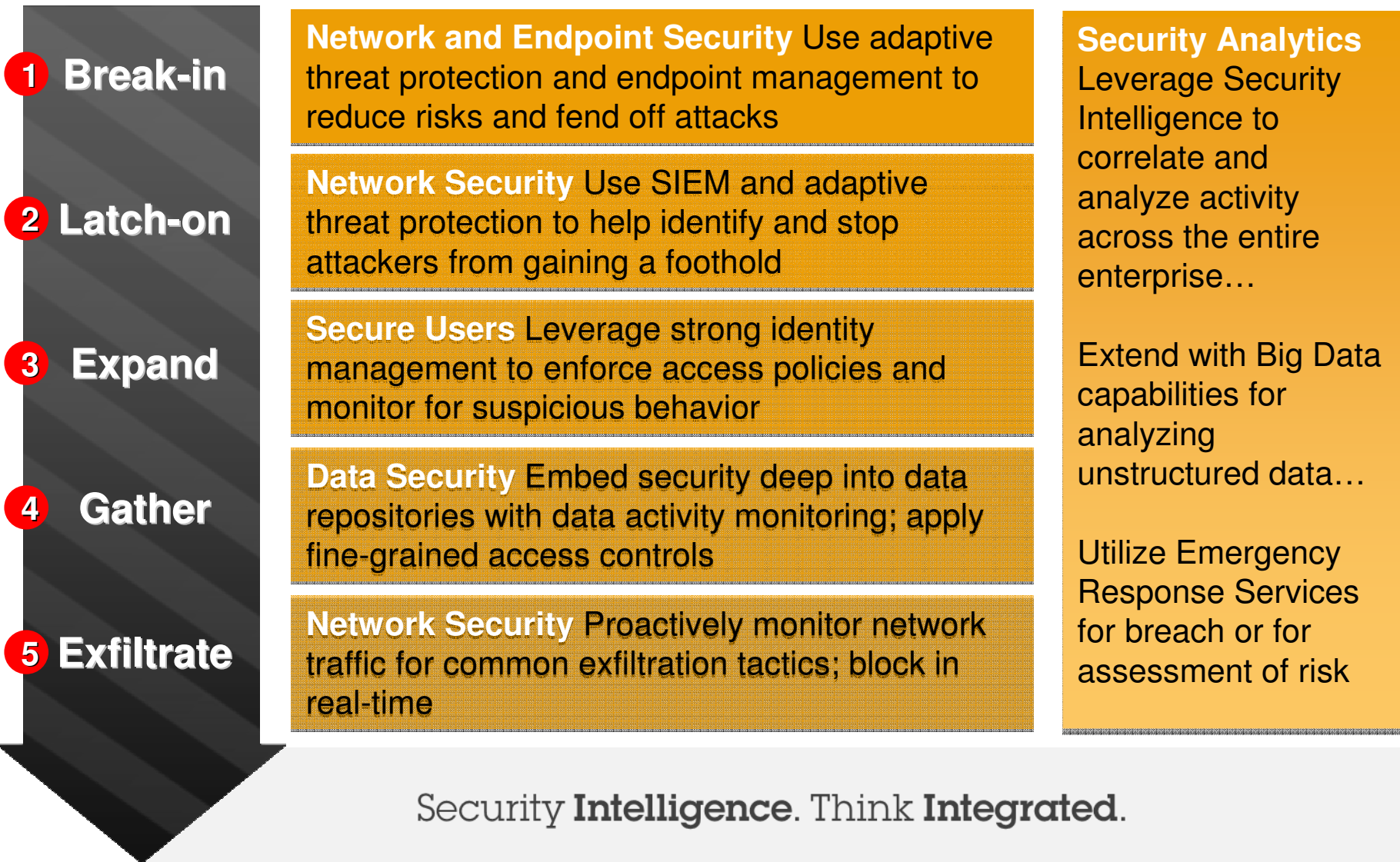
1) Source: http://intelreport.mandiant.com/Mandiant_APT1_Report.pdf





**Ihr Security Team sieht nur
Rauschen**

IBM's approach to defending against state-sponsored attacks



Security **Intelligence**. Think **Integrated**.

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

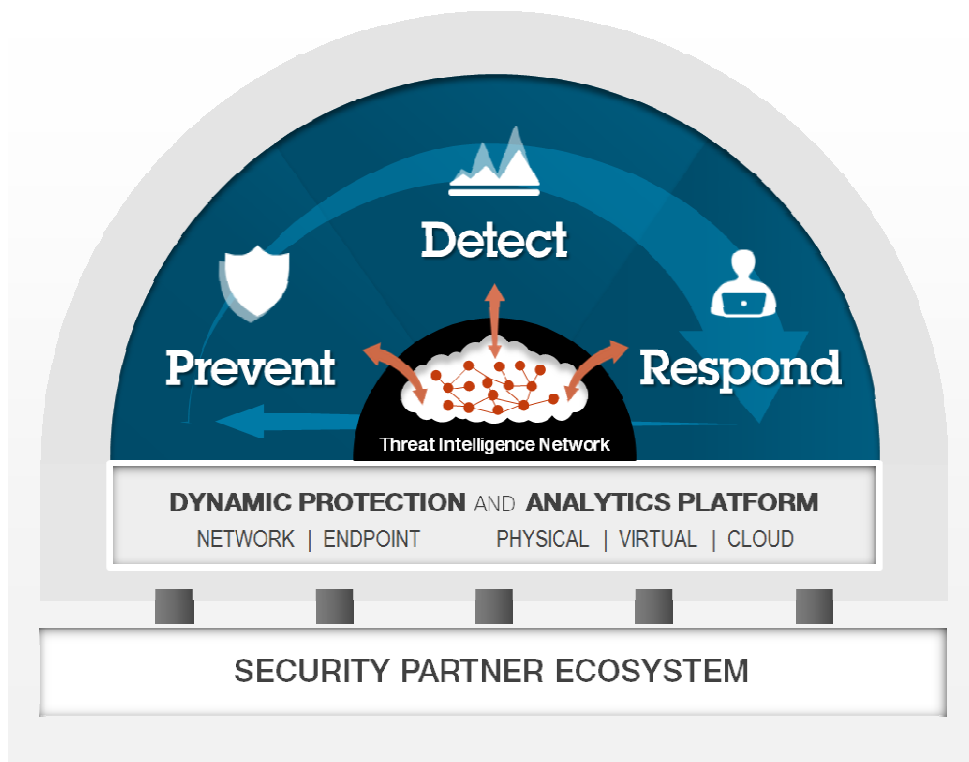
Openness must be embraced

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 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

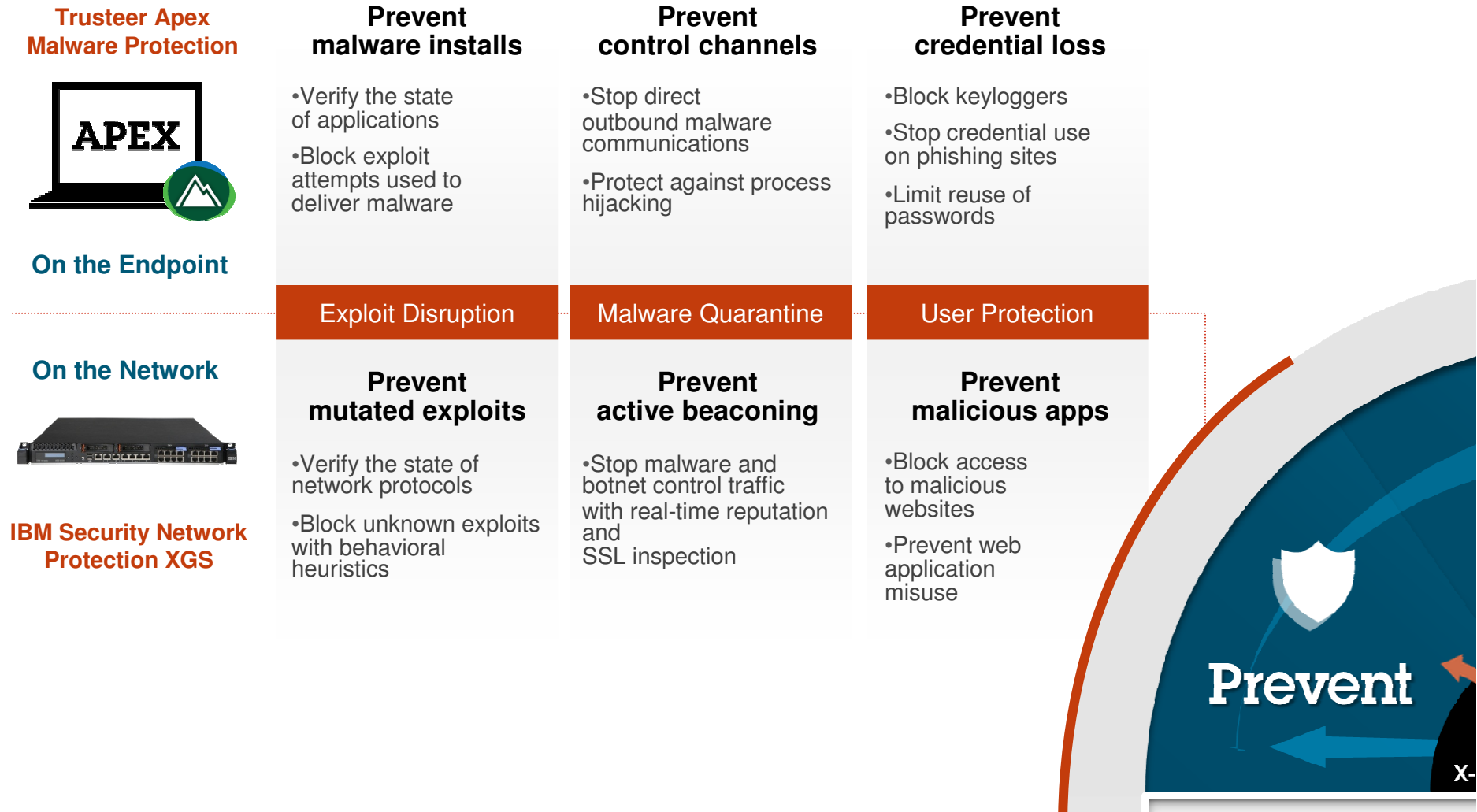
Unique Integrations

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




IBM Security Network Protection (XGS)

Unprecedented levels of network security, visibility and control


- **Protection from sophisticated and constantly evolving threats**

 - Behavioral detection fights 0-day attacks
 - Protects against entire classes of vulnerabilities

- **Discover and disrupt previously unknown threats on the network**

 - Shows application and web use by user
 - Detects and blocks malicious traffic
 - Policy-based monitoring and blocking
 - 20B URL database now includes Trusteer 

- **Seamless deployment and integration**

 - Flexible performance, interfaces and options
 - Ability to send flow data feeds to QRadar
 - Receive quarantine triggers from QRadar 



Ranked 2nd out of 10 IPS vendors for blocking exploits in 2013 group test



Received ICSA certification for Network IPS and PAM engine in 2013



Provided superior protection from mutated threats vs. SNORT engine



Ranked "Champion" in latest IDPS vendor landscape report

"...IBM performed extremely well in this testing, achieving an overall score of 95.7%. This speaks to the ability of the IBM IPS to perform against the types of constantly evolving threats that are often seen in today's networks."

Vikram Phatak, Chairman and CEO of NSS Labs

Trusteer Apex

Malware Prevention Utilizing Three Layers of Protection

- **Exploit Interruption**
 - Stop exploitation of user application vulnerabilities
 - Prevent drive-by downloads
- **Malicious Communication Jamming**
 - Block malware communication
 - Prevent information theft
- **Corporate Credentials Protection**
 - Block key-loggers
 - Prevent submission on phishing sites
 - Prevent reuse on public consumer sites
- **New Capabilities**
 - Java lockdown protection
 - Cloud-based file inspection
 - QRadar integration



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

IBM Security QRadar Security Intelligence Platform



Detect activity and anomalies outside normal behavior

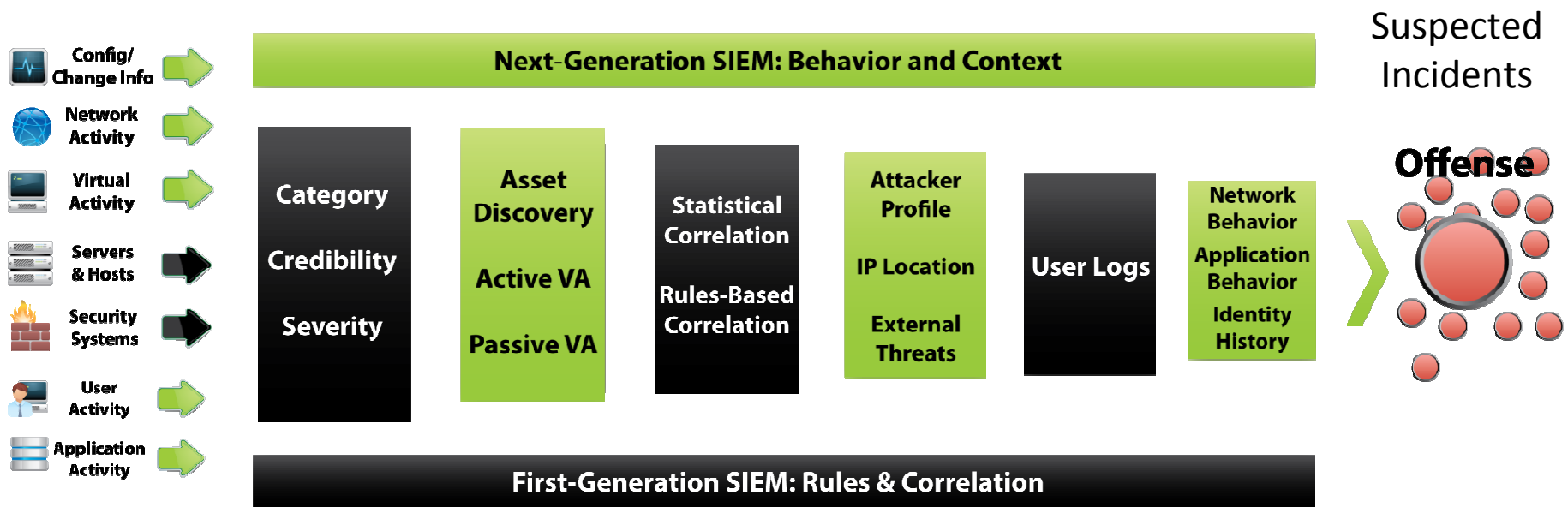
- Correlate and baseline massive sets of data
- From logs, events, flows, user activity, assets, locations, vulnerabilities, external threats, and more

Real-time Attack Analytics

IBM Security QRadar SIEM



QRadar Next-Generation SIEM: Security Intelligence



Dashboard

IBM X-Force® Threat Information Center

Real-time Security Overview w/ IP Reputation Correlation



Identity and User Context

Real-time Network Visualization and Application Statistics

Inbound Security Events

QRadar SIEM Offense Management

Klare, detaillierte und vollständige Informationen :

Offense 3063 Summary Attackers Targets Categories Annotations Networks Events Flows Rules Actions Print

Magnitude		Relevance	0	Severity	8	Credibility	3
Description	Target Vulnerable to Detected Exploit preceded by Exploit Attempt Proceeded by Recon preceded by Exploit/Malware Events Across Multiple Targets preceded by Recon - External - Potential Network Scan		Event count	1428 events in 3 categories			
Attacker/Src	202.153.48.66		Start	2009-09-29 16:05:01			
Target(s)/Dest	Local (717)		Duration	1m 32s			
Network(s)	Multiple (3)		Assigned to	Not assigned			
Notes	Vulnerability Correlation Use Case Illustration: An attacker originating from China (202.153.48.66) used vulnerability data with IDS alerts An attacker originating from China (202.153.48.66) used vulnerability data with IDS alerts An attacker originating from China (202.153.48.66) used vulnerability data with IDS alerts						

Attacker Summary Details

Magnitude		User	Karen	
Description	202.153.48.66	Asset Name	Unknown	
Vulnerabilities	0	MAC	Unknown	
Location	China	Asset Weight	0	

Top 5 Categories Categories

Name	Magnitude	Local Target Count
Buffer Overflow		8
Misc Exploit		3
Network Sweep		716

Top 5 Local Targets Targets

IP/DNS Name	Chained	User	MAC	Location	Weight
Windows AD Server		Unknown	Unknown	main	8
10.101.3.3	No	Unknown	Unknown	main	0
10.101.3.4	No	Unknown	Unknown	main	0
DC106	Yes	Admin	DC106	main	10
10.101.3.11	No	Unknown	Unknown	main	0

Top 10 Events Events

Event Name	Magnitude	Log Source	Category	Destination	Dst Port	Time
Misc Exploit - Event CRE		Custom Rule Engine-8 :: qradar-vm	Misc Exploit	10.101.3.15	445	09-29 16:06:33
NETBIOS-DG SMB v4 srvsvc NetrpPathCo...		Snort @ 10.1.1.5	Buffer Overflow	10.101.3.10	445	09-29 16:06:28
NETBIOS-DG SMB v4 srvsvc NetrpPathCo...		Snort @ 10.1.1.5		10.1.3.15	445	09-29 16:06:33
Misc Exploit - Event CRE		Custom Rule Engine-8 :: qradar-vm		10.1.3.13	445	09-29 16:06:31
Network Sweep - QRadar Classify Flow		Flow Classification Engine-5 :: qradar-vm		10.1.3.10	445	09-29 16:05:01
Network Sweep - QRadar Classify Flow		Flow Classification Engine-5 :: qradar-vm		10.1.3.15	445	09-29 16:05:01
Network Sweep - QRadar Classify Flow		Flow Classification Engine-5 :: qradar-vm		10.1.3.10	445	09-29 16:05:01
Network Sweep - QRadar Classify Flow		Flow Classification Engine-5 :: qradar-vm	Network Sweep	10.101.3.15	445	09-29 16:05:01

What was the attack?

Was it successful?

Who was responsible?

Where do I find them?

How valuable are the targets to the business?

How many targets involved?

Are any of them vulnerable?

Where is all the evidence?

Consolidate and integrate to reduce complexity and cost

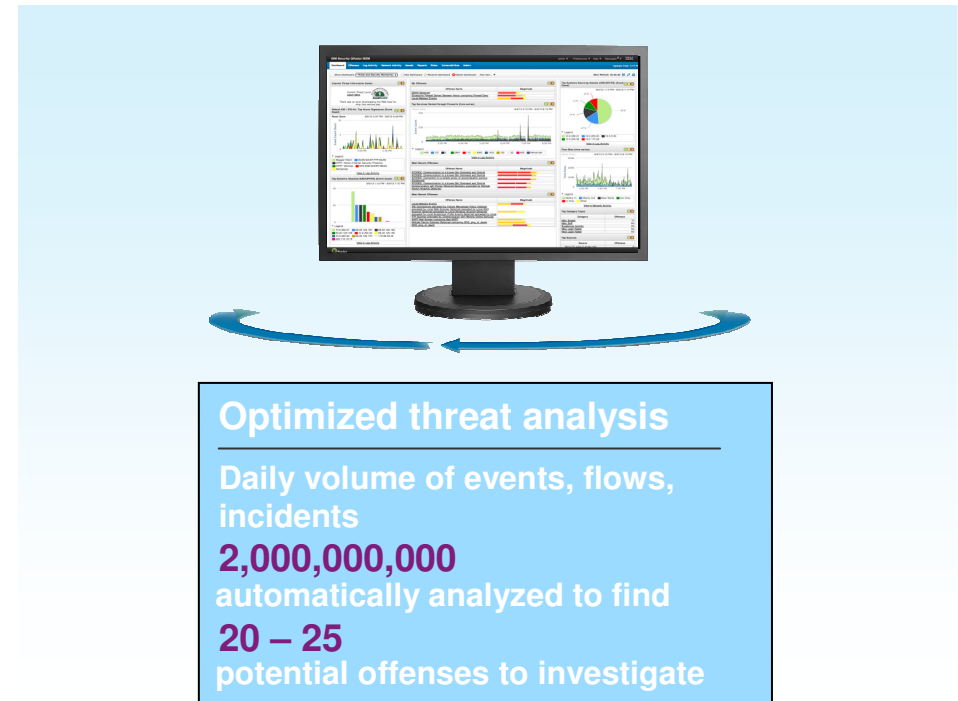


IBM Security QRadar SIEM

Web-based command console for Security Intelligence



- **Delivers actionable insight focusing security teams on high probability incidents**
 - Employs rules-based correlation of events, flows, assets, topologies, and vulnerabilities
- **Detects and tracks malicious activity over extended time periods, helping uncover advanced threats often missed by other solutions**
 - Consolidates ‘big data’ security incidents within purpose-built, federated database repository
- **Provides anomaly detection to complement existing perimeter defenses**
 - Calculates identity and application baseline profiles to as



“The average time to implement QRadar was 5.5 months versus 15.2 months (nearly 3X) for other market-leading competitor solutions.”

Source: Ponemon Institute LLC primary research, “IBM QRadar Evidence of Value”

Yes, we can!

Quickly 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

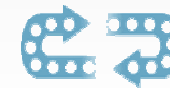


**IBM Security
QRadar Incident Forensics**

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



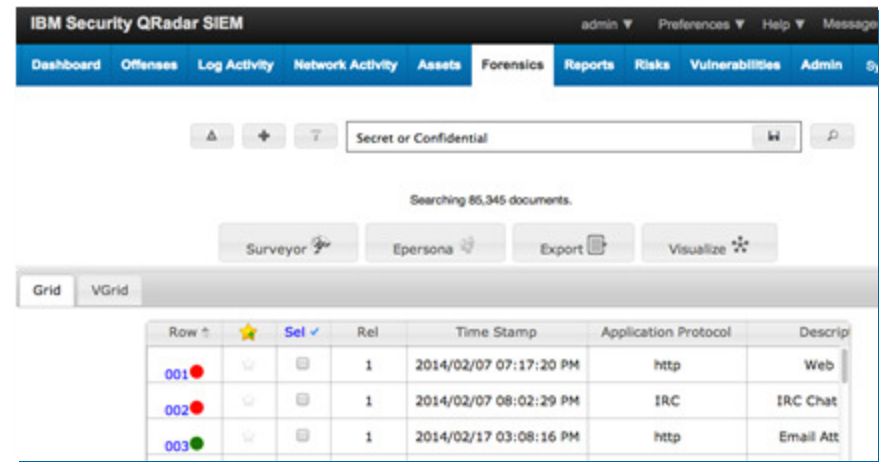
Intuitive investigation of security incidents

Features:

- Employs Internet search engine technology closing security team skill gaps
- Creates rich 'digital impression' visualizations of related content
- Adds full packet captures to complement SIEM security data collection and analytics

Benefits:

- Reduces incident investigation periods from days or hours to minutes
- Helps determine root cause of successful breaches helping prevent recurrences
- Compiles evidence against malicious entities breaching secure systems and deleting or stealing sensitive data



Wins the race against time



Research findings indicate enterprise organizations want increased awareness of advanced threats without the need for additional resources and forensics expertise.



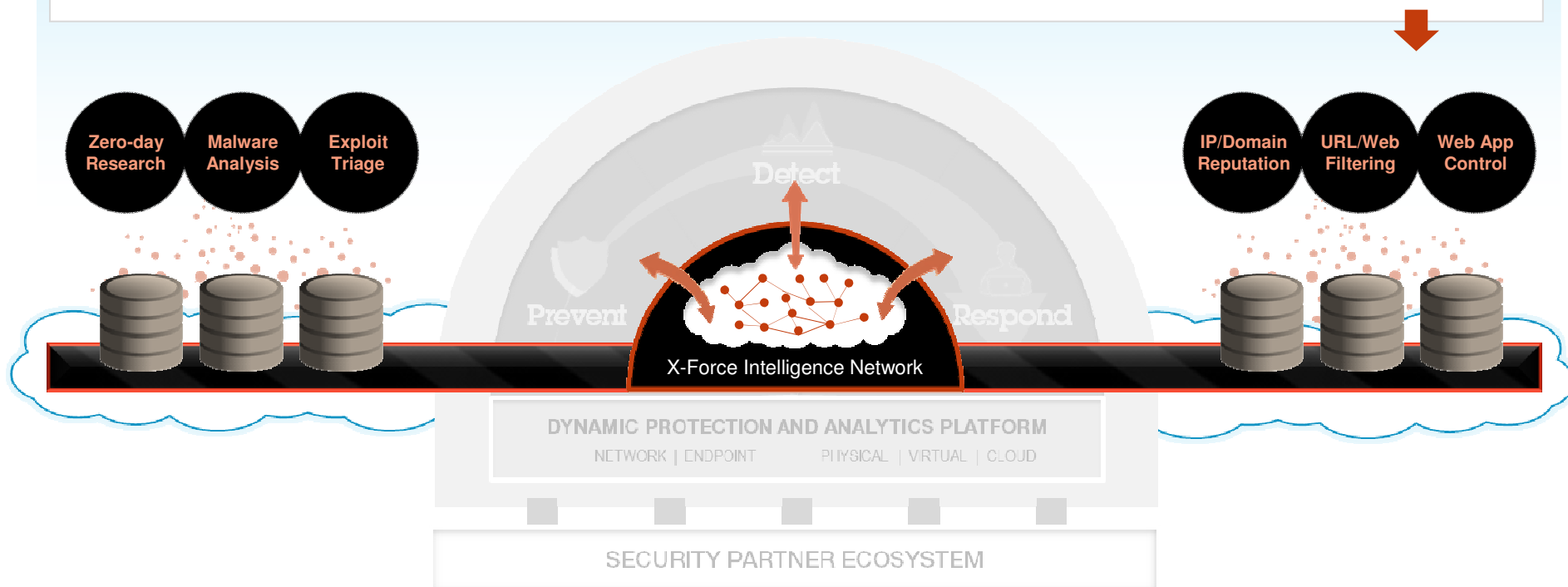
Leverage threat intelligence with product integrations that draw upon human and machine-generated information

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

NEW Trusteer
an IBM Company
Real-time sharing of Trusteer intelligence



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

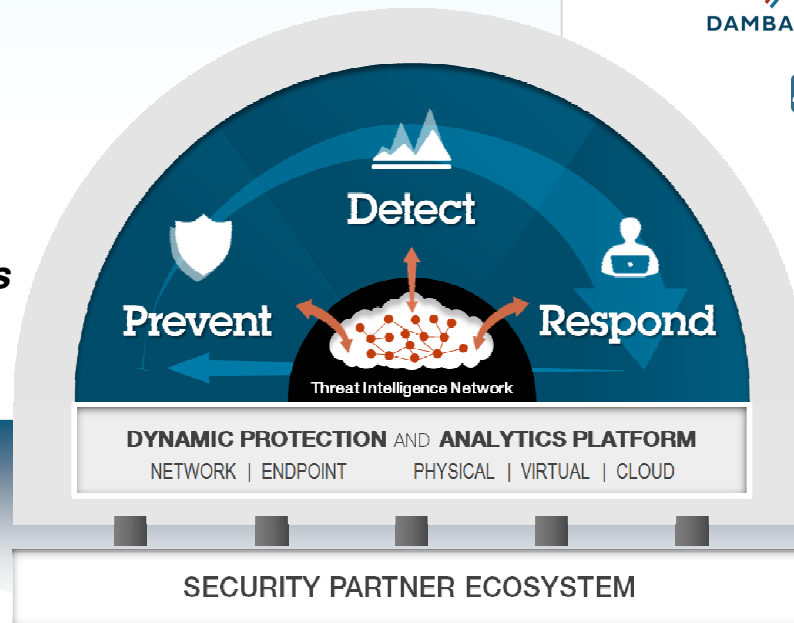
Security Partner Ecosystem Integrations

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 Deep Security
IBM XGS Quarantine and Blocking



FireEye Web Malware Protection System
IBM XGS Quarantine and Blocking



Damballa Failsafe
IBM XGS Quarantine and Blocking

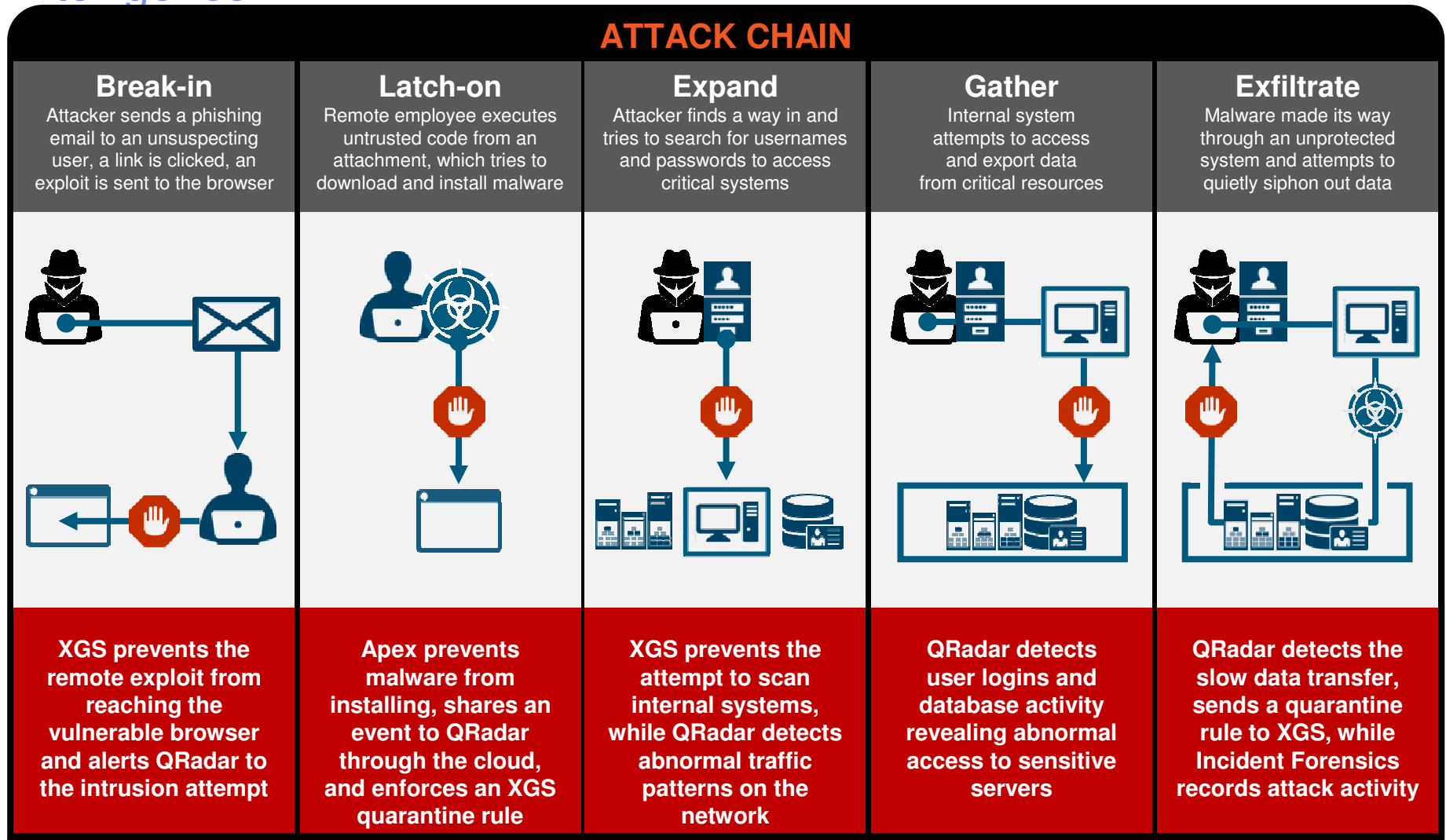


Palo Alto Firewalls
Trusteer Apex integration

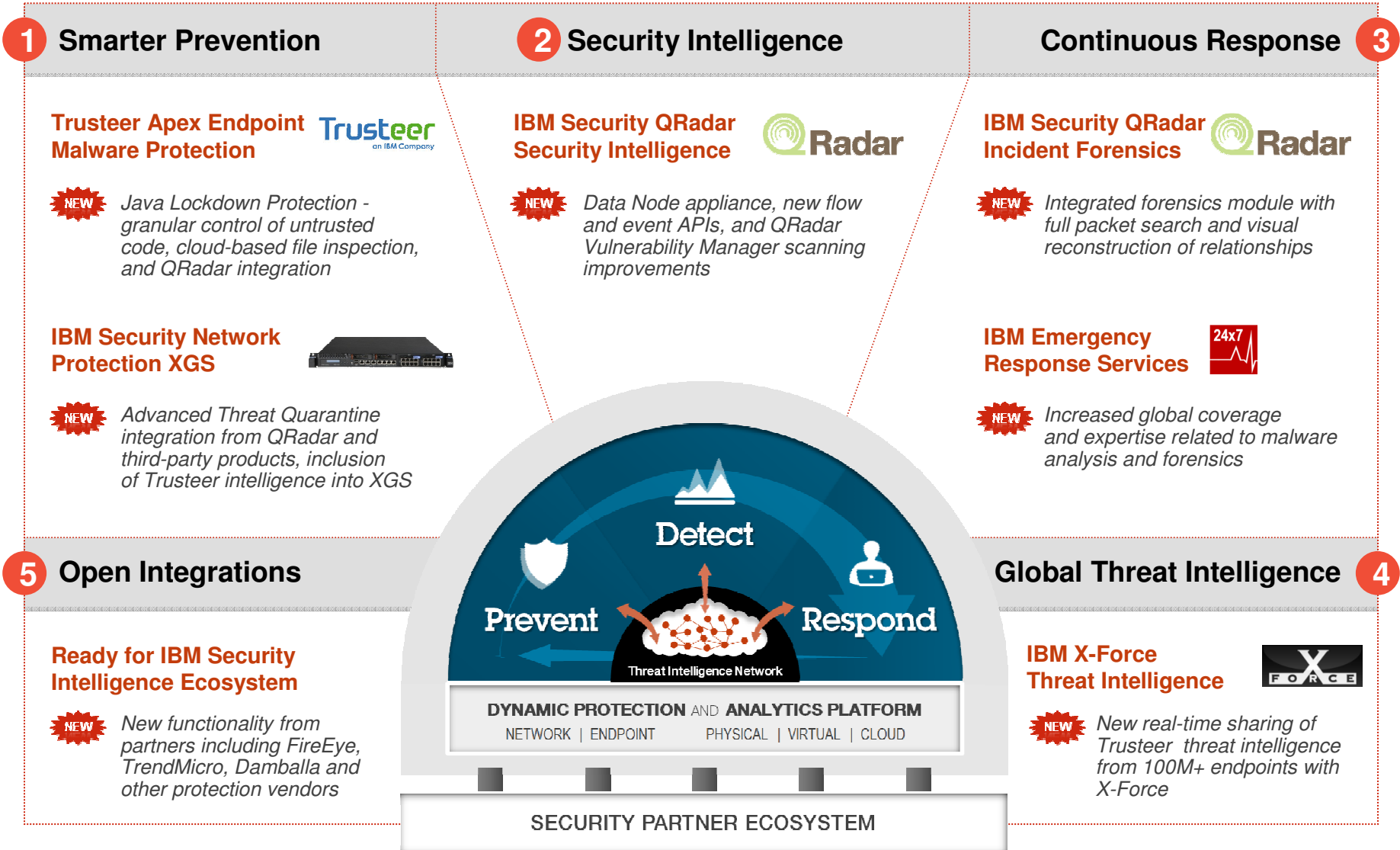
Additional Example QRadar Partners:



Examples of breaking the attack chain through integrated intelligence



IBM is uniquely positioned to offer integrated protection



Fragen?

Prevent. Detect. Respond.

