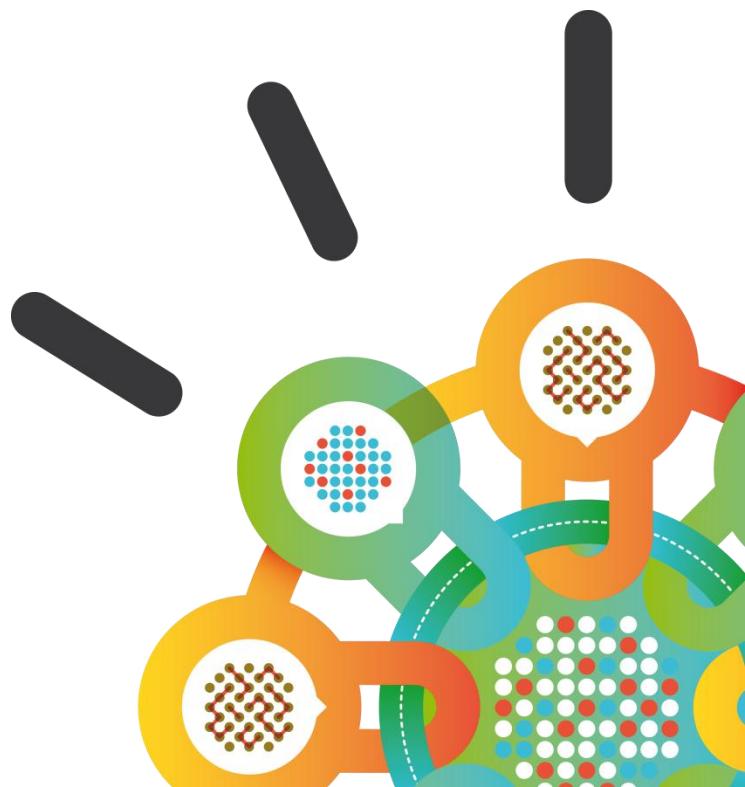


Security Intelligence.
Think Integrated.

IBM Security Systems

Überblick über die neue Brand





IT-Security ist einfach

- Who?
- What?
- How can I prove it?

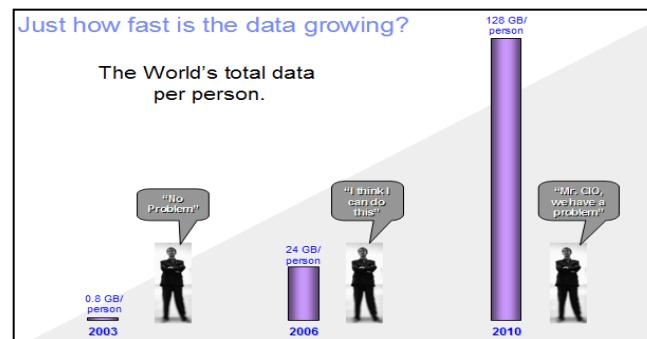


Die Welt wird immer mehr digitalisiert und vernetzt – dies öffnet die Tür für neue Bedrohungen und Schwachstellen...

Mobilität



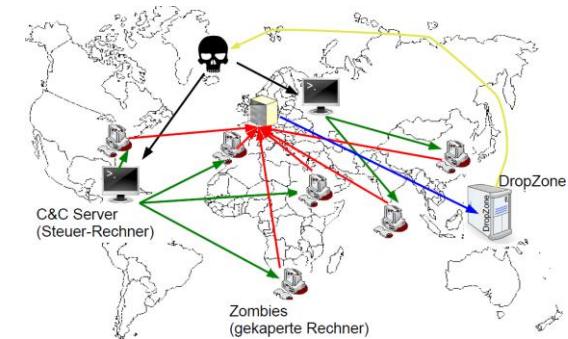
Daten Explosion



Cloud / Virtualisierung



Komplexität der Angriffe



Social Business





Zielgerichtete Angriffe erschüttern Unternehmen und Behörden

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

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

Attack Type

- SQL Injection
- URL Tampering
- Spear Phishing
- 3rd Party Software
- DDoS
- SecureID
- Trojan Software
- Unknown

Size of circle estimates relative impact of breach in terms of cost to business



Jan Feb March April May June July Aug Sep Oct Nov Dec



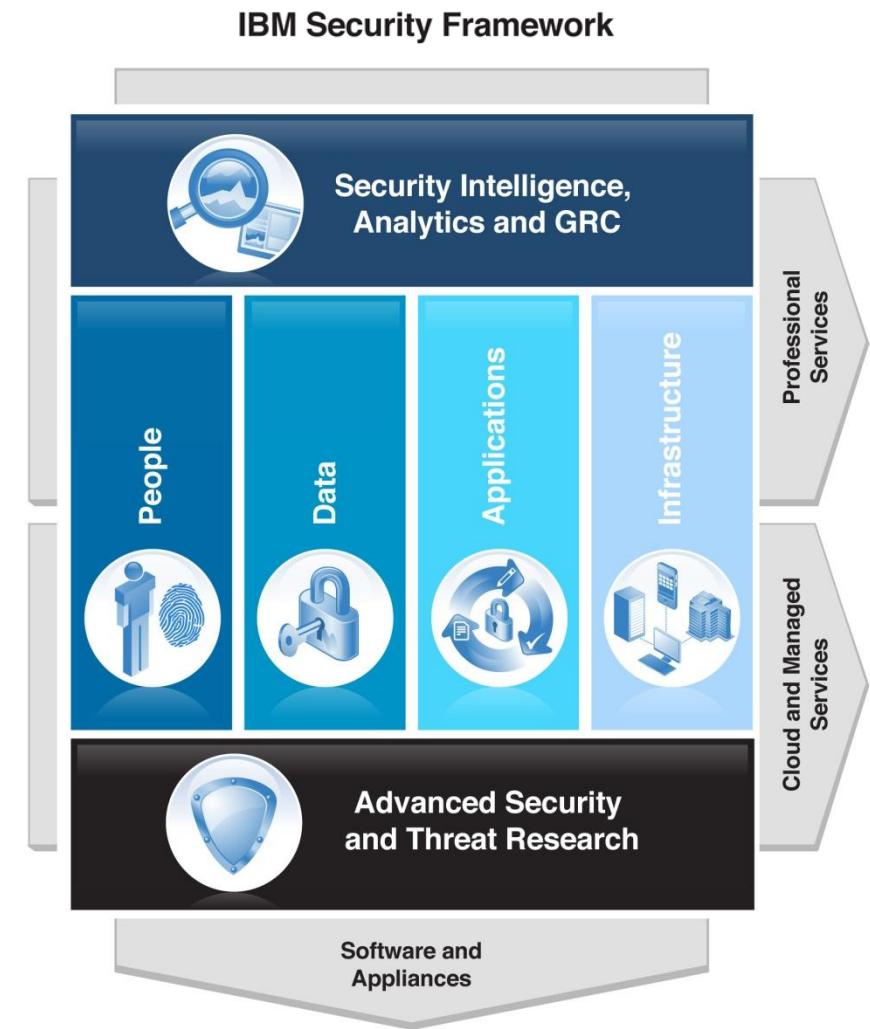
IBM Security Systems - Expertise auf Basis eines Security Framework



IBM Security Systems

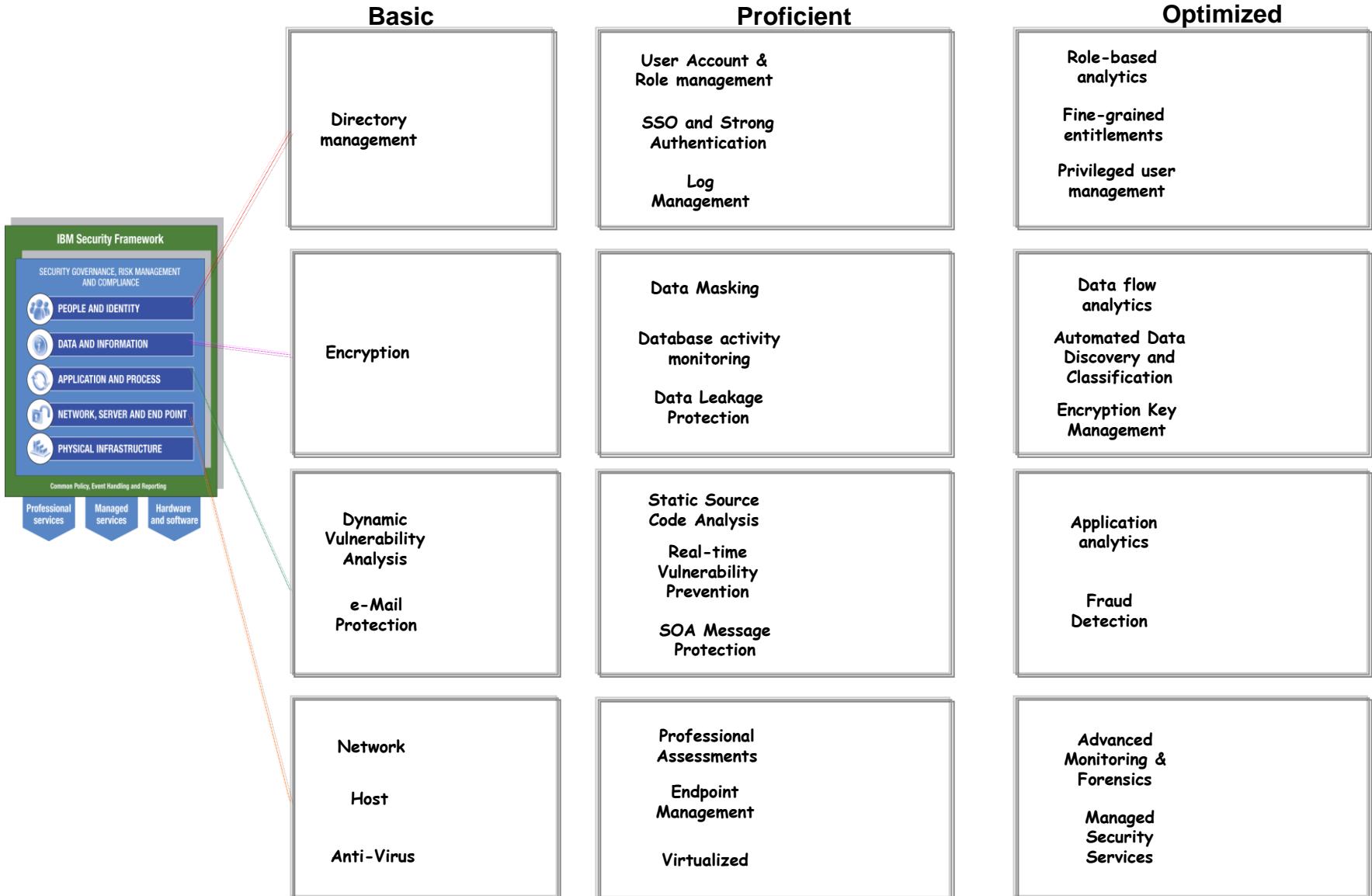
- Einziger Anbieter im Markt mit “end-to-end” Lösungen und Kompetenz
- 6K+ Security Engineers und Consultants
- Einzigartiges research durch X-Force®
- Größte Datenbank über Angriffsvarianten in der Industrie

Intelligence • Integration • Expertise



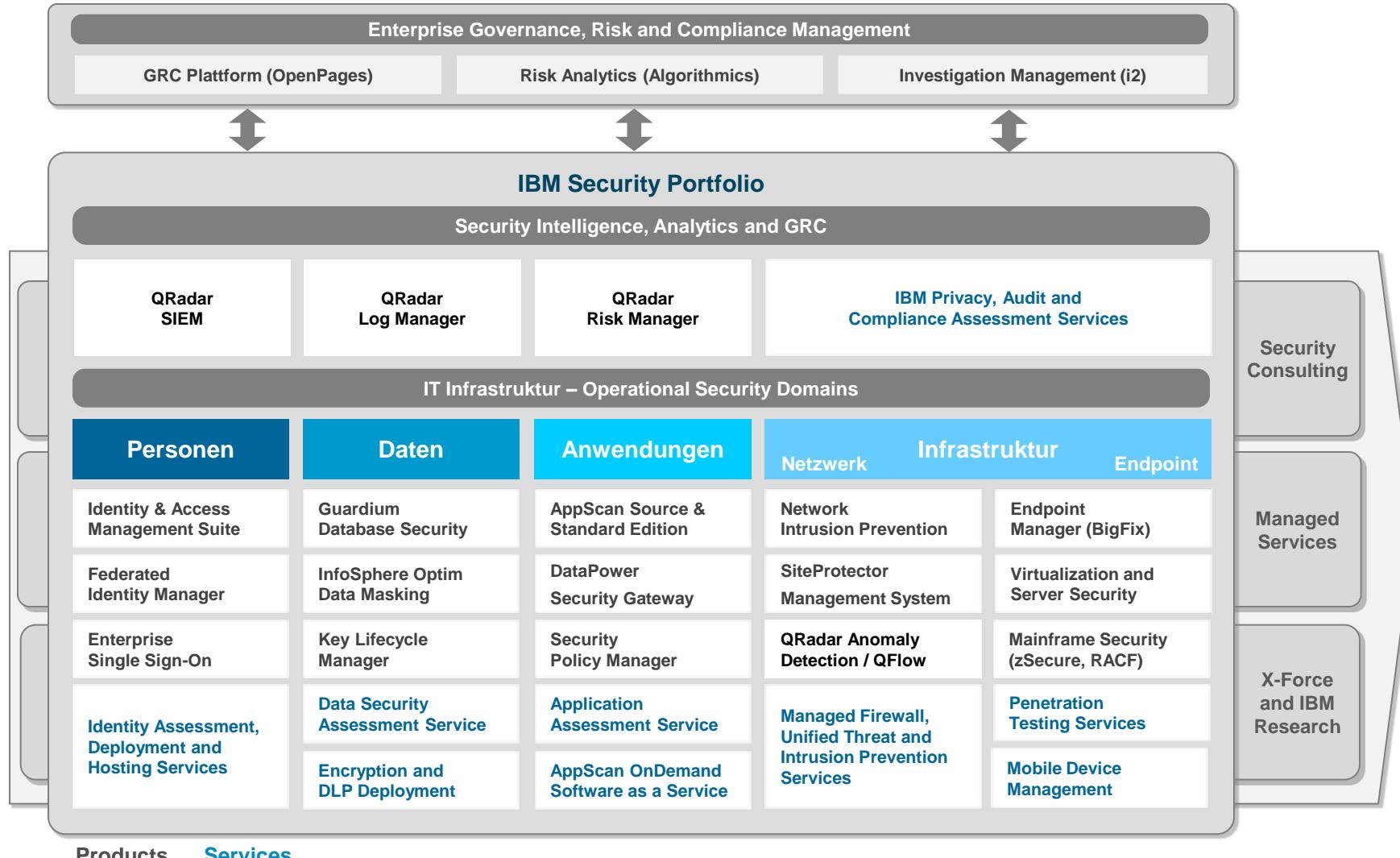


IBM Security Systems - Security Intelligence





IBM Security Systems Portfolio





Analysts recognize IBM's superior products and performance

Domain	Report	Analyst Recognition
Security Intelligence, Analytics and GRC	Security Information & Event Management (SIEM)	2011 2010
	Enterprise Governance Risk & Compliance Platforms	2011 2011
	User Provisioning / Administration	2011
People	Role Management & Access Recertification	2011
	Enterprise Single Sign-on (ESSO)	2011*
	Web Access Management (WAM)	2011*
Data	Database Auditing & Real-Time Protection	2011
Applications	Static Application Security Testing (SAST)	2010
	Dynamic Application Security Testing (DAST)	2011 2010
Infrastructure	Network Intrusion Prevention Systems (NIPS)	2010 2010
	EndPoint Protection Platforms (EPP)	2011



Challenger



Leader



Visionary



Niche Player

 IDC
Analyze the Future

Leader (#1, 2, or 3 in segment)



Leader



Strong Performer



Contender

* Gartner MarketScope



Expertise: Unmatched global coverage and security awareness



IBM Research

IBM Institute for Advanced Security

Enabling cybersecurity innovation and collaboration



10B analyzed Web pages & images
150M intrusion attempts daily
40M spam & phishing attacks
46K documented vulnerabilities
Millions of unique malware samples



World Wide Managed Security Services Coverage

- 20,000+ devices under contract
- 3,700+ MSS clients worldwide
- 9B+ events managed per day
- 1,000+ security patents
- 133 monitored countries (MSS)



Ausschnitt aus dem Portfolio:

- Virtual Server Protection
- Endpoint Management
- Security Intelligence



Virtual Server Protection

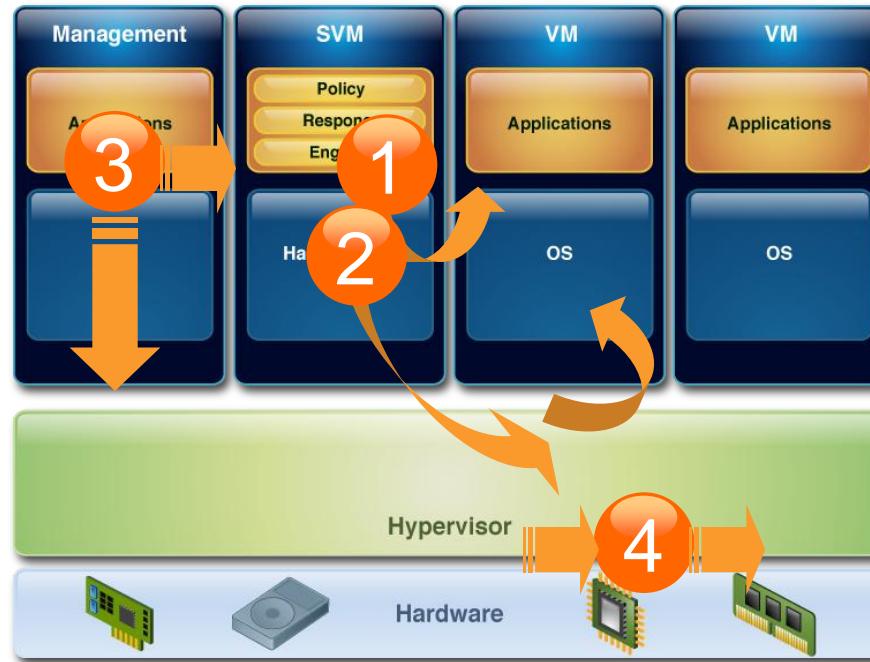


Zugriffsschutz – Was gilt es in virtualisierten Umgebungen besonders zu beachten?

1

VM-nach-VM Attacken

Angriffe aus virtuellen Maschinen auf andere Systeme im gleichen Hypervisor



2

VM-Diebstahl / Kapern von VMs

Angriffe auf den Hypervisor – über den Hypervisor besteht Zugang zu allen Ressourcen

3

Management Schwachstellen

Angriffe über die Management Funktion auf die virtuelle Infrastruktur

4

VM-Sprawl (Wuchern)

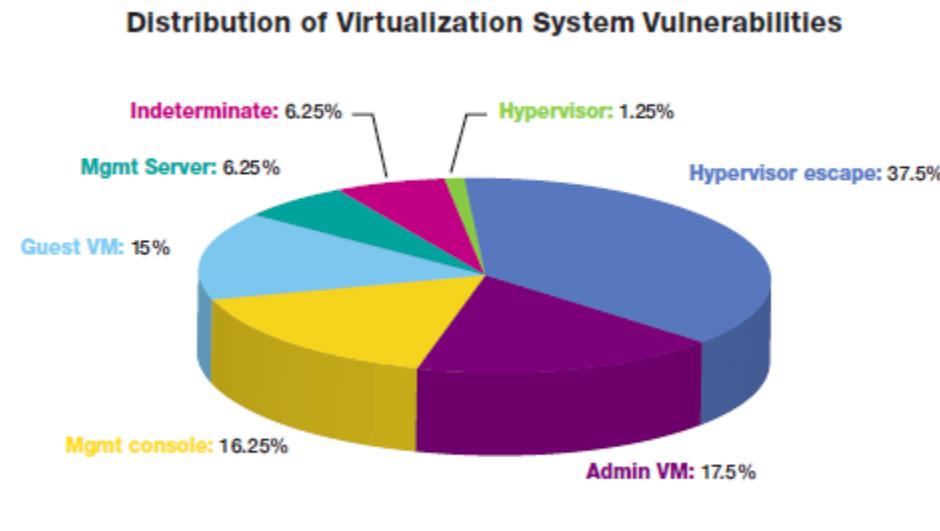
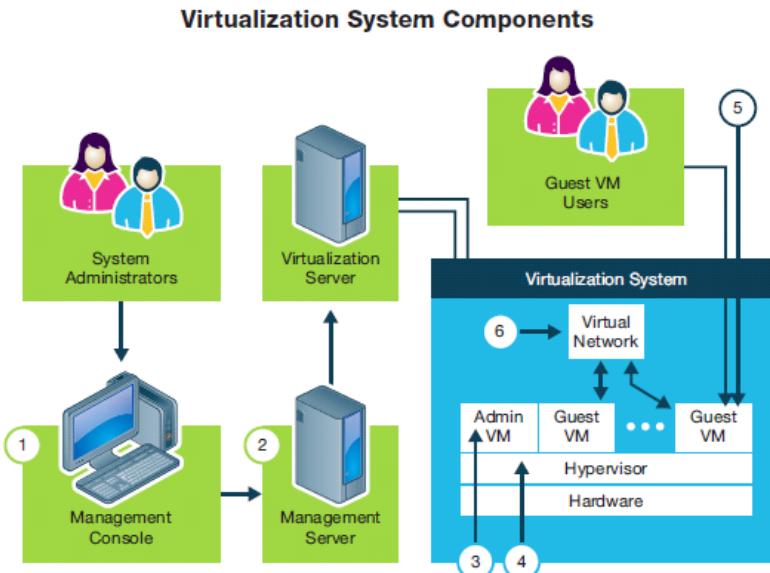
Vortäuschen von Ressourcen um zu transferierende VMs umzuleiten

Neue Sicherheitslücken die mit bestehender Sicherheitsinfrastruktur nicht oder nur sehr aufwändig ermittelt werden können, da sie innerhalb des Hypervisors stattfinden



Schwachstellen in Virtualisierungsplattformen

Analyse von 80 bekannten Schwachstellen





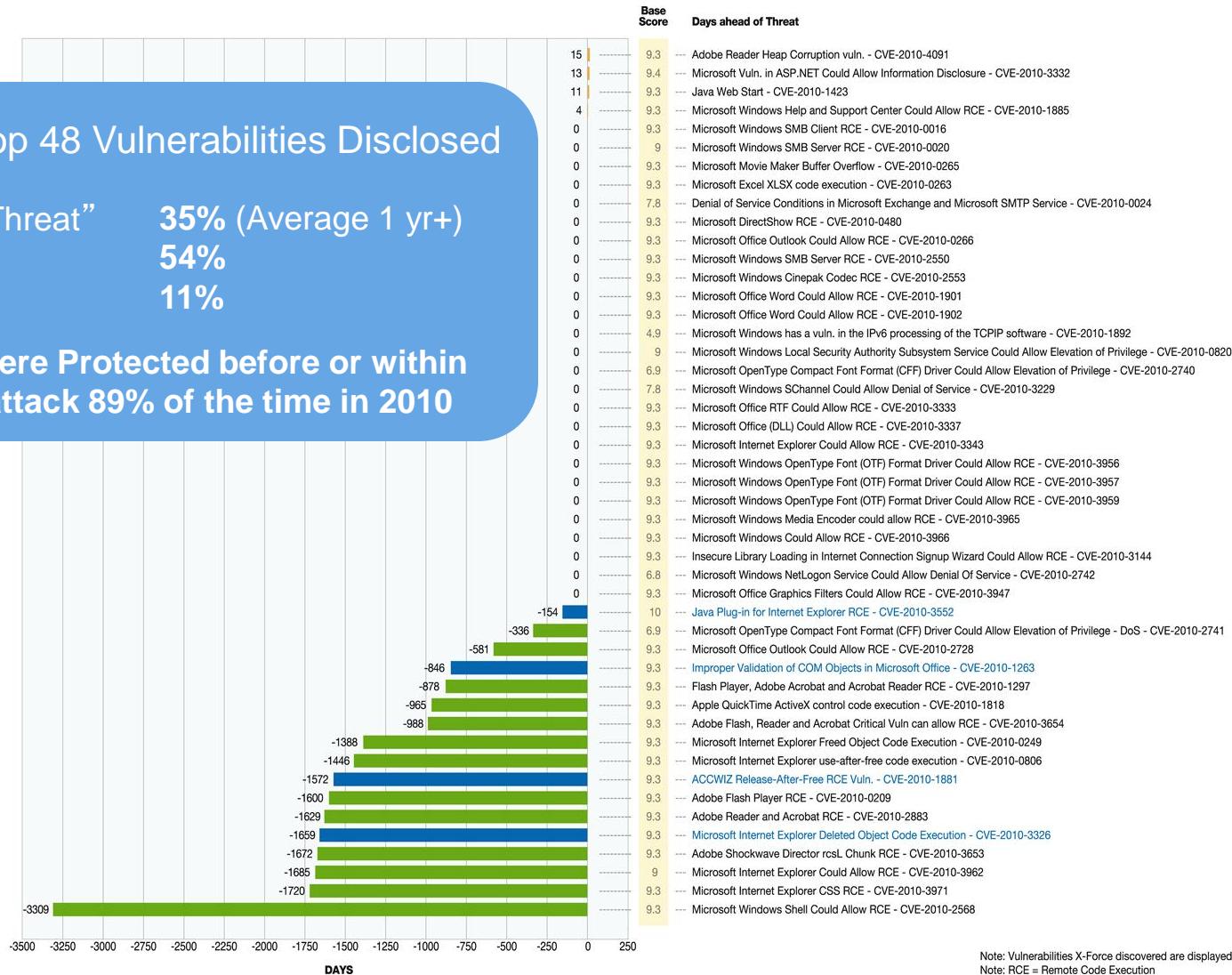
The Result? IBM Delivers Real-World Security Effectiveness

Protecting our Clients “Ahead of the Threat” in 2010 and Beyond

Out of the Top 48 Vulnerabilities Disclosed

“Ahead of the Threat” **35%** (Average 1 yr+)
Same Day **54%**
Within 15 Days **11%**

**IBM Clients were Protected before or within
24hrs of an attack 89% of the time in 2010**



Source: IBM X-Force

-3500 -3250 -3000 -2750 -2500 -2250 -2000 -1750 -1500 -1250 -1000 -750 -500 -250 0 250
DAYS

Note: Vulnerabilities X-Force discovered are displayed in blue.
Note: RCE = Remote Code Execution



IBM IPS Zero Day (Vuln/Exploit) Web App Performance

- IBM IPS Injection Logic Engine has stopped every large scale SQL injection or XSS attack day-zero.
 - Asprox – reported 12/11/2008 – stopped 6/7/2007
 - Lizamoon – reported 3/29/2011 – stopped 6/7/2007
 - SONY (published) – reported May/June/2011 – stopped 6/7/2007
 - Apple Dev Network – reported July/2011 – stopped 6/7/2007

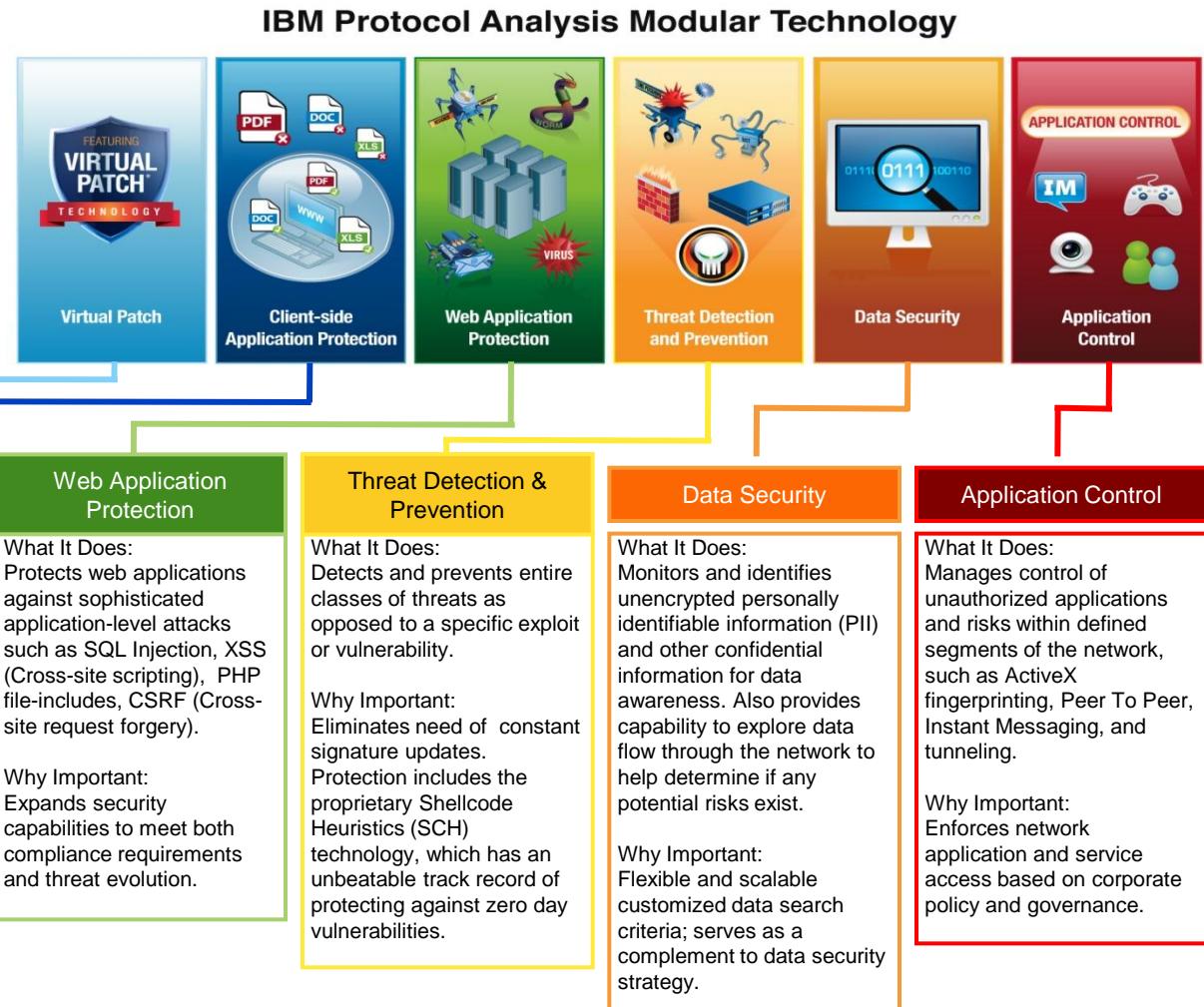
New Vulnerability or Exploit	Reported Date	Ahead of the Threat Since
Nagios expand cross-site scripting	5/1/2011	6/7/2007
Easy Media Script go parameter XSS	5/26/2011	6/7/2007
N-13 News XSS	5/25/2011	6/7/2007
I GiveTest 2.1.0 SQL Injection	6/21/2011	6/7/2007
RG Board SDQL Injection Published:	6/28/2011	6/7/2007
BlogiT PHP Injection	6/28/2011	6/7/2007
IdevSpot SQL Injection (iSupport)	2011-05-23	6/7/2007
2Point Solutions SQL Injection	6/24/2011	6/7/2007
PHPFusion SQL Injection	1/17/2011	6/7/2007
ToursManager PhP Script Blind SQLi	2011-07-xx	6/7/2007
Oracle Database SQL Injection	2011-07-xx	6/7/2007
LuxCal Web Calendar	7/7/2011	6/7/2007
Apple Web Developer Website SQL	2011-07-xx	6/7/2007
MySQLDriverCS Cross-Param SQLi	6/27/2011	6/7/2007



Beispiel:

Intrusion Prevention für Server, Netzwerke, Desktop, VMware

Intrusion prevention just got smarter with extensible protection backed by the power of X-Force





Lösungsansatz: Die Sicherheitslösung klinkt sich in die Virtualisierungsplattform ein

- Unterdrückung der Malware-Verbreitung innerhalb virtueller Server
- Dynamische Erkennung und Absicherung von neuen virtuellen Ressourcen
 - Auch mobiler VMs (VMotion)
- Eine umfassende Sicherheitslösung für VMWare beinhaltet
 - Firewall, Intrusion Prevention mit Virtuellem Patch Management
 - Rootkit Detection
 - Inter-VM Traffic Analysis
 - Virtual Network Segment Protection
 - Virtual Network-Level Protection
 - Virtual Infrastructure Auditing (Privileged User)
 - Virtual Network Access Control





IBM Endpoint Management

Klassische Softwareverteilung / Provisioning und Patch Mgmt.





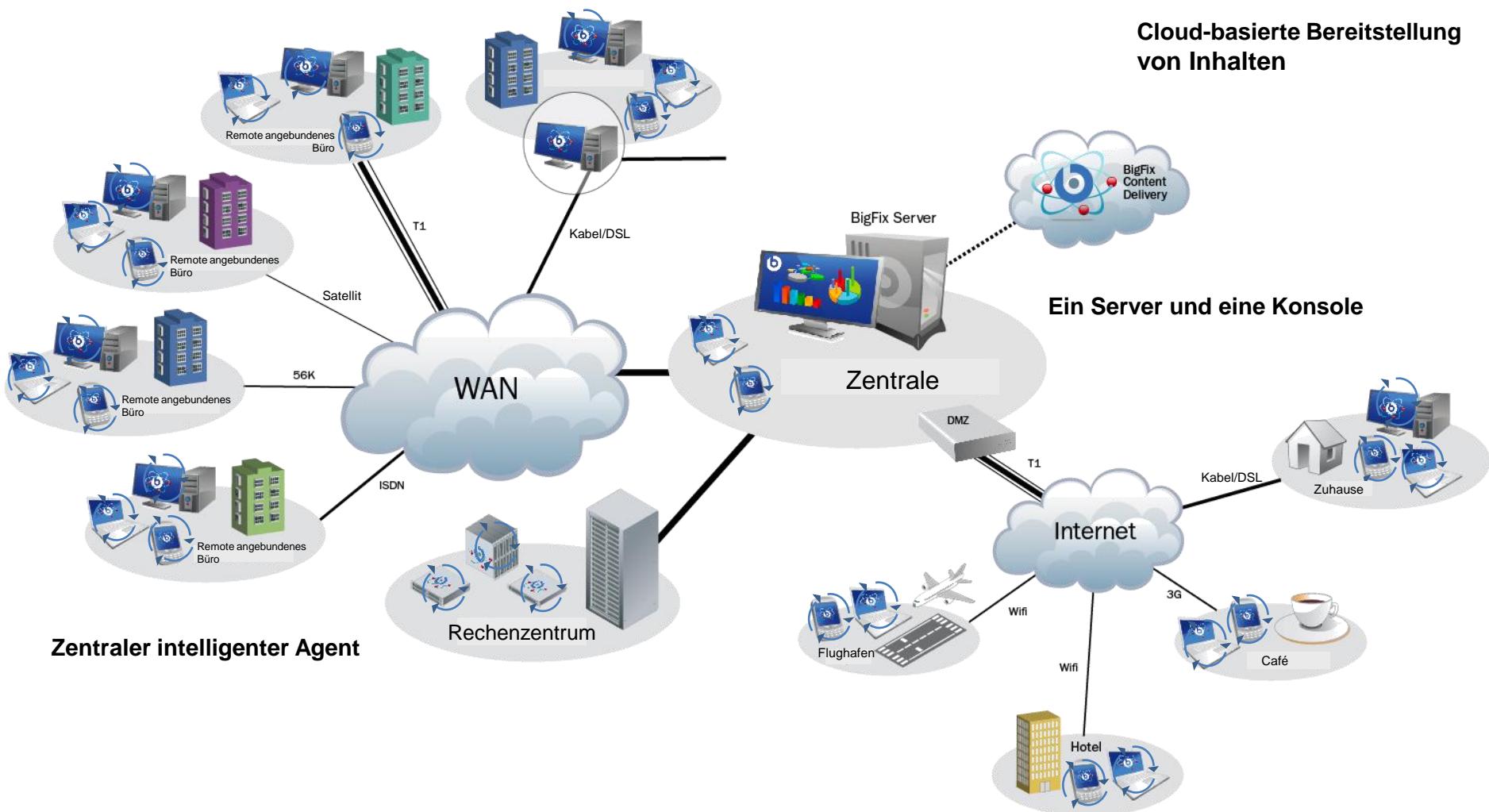
Tivoli Endpoint Manager – ein Policy basiertes Modell!





Tivoli Endpoint Manager Architektur

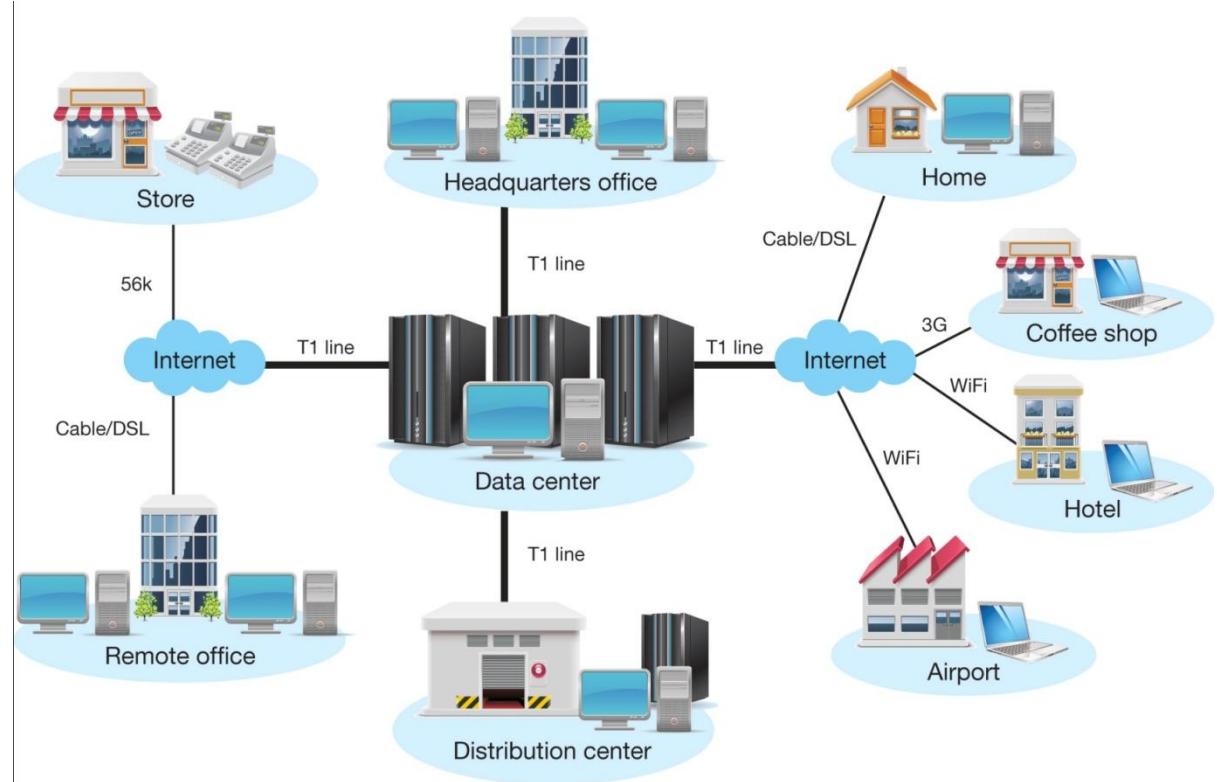
Schlanke, leistungsfähige Infrastruktur





Tivoli Endpoint Manager: Intelligentes, autonome und schnelles Endpoint Management

- Network Asset Discovery
- Endpoint HW, SW Inventory
- Patch Management
- Software Distribution
- OS Deployment
- Remote Desktop Control
- Software Use Analysis (add on)
- Power Management (add on)



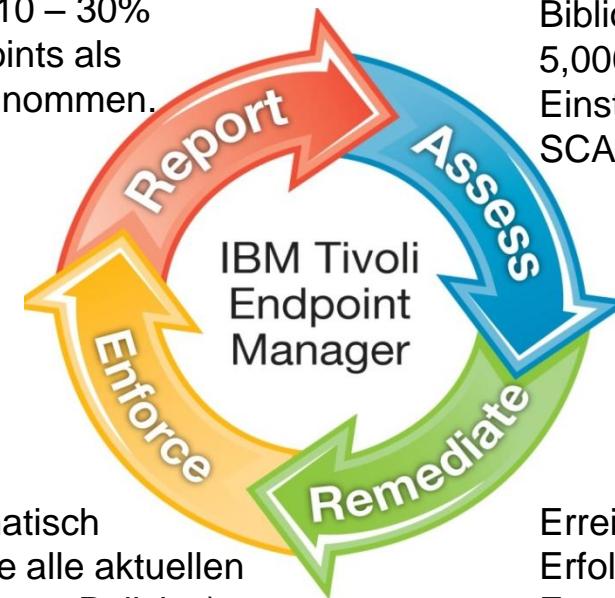
Unabhängig von Standort, Betriebssystem und Uhrzeit – Alle Systeme sind Permanent unter der sicheren Kontrolle des BigFix Agenten.



Tivoli Endpoint Manager: Alle Endpoints im sicheren Überblick

- Patch Management
- Security Configuration Management
- Vulnerability Management
- Asset Management
- Network Self Quarantine
- Multi-Vendor Endpoint Protection Management
- Anti-Malware & Web Reputation Service (add on)

TEM findet 10 – 30% mehr Endpoints als vorher angenommen.



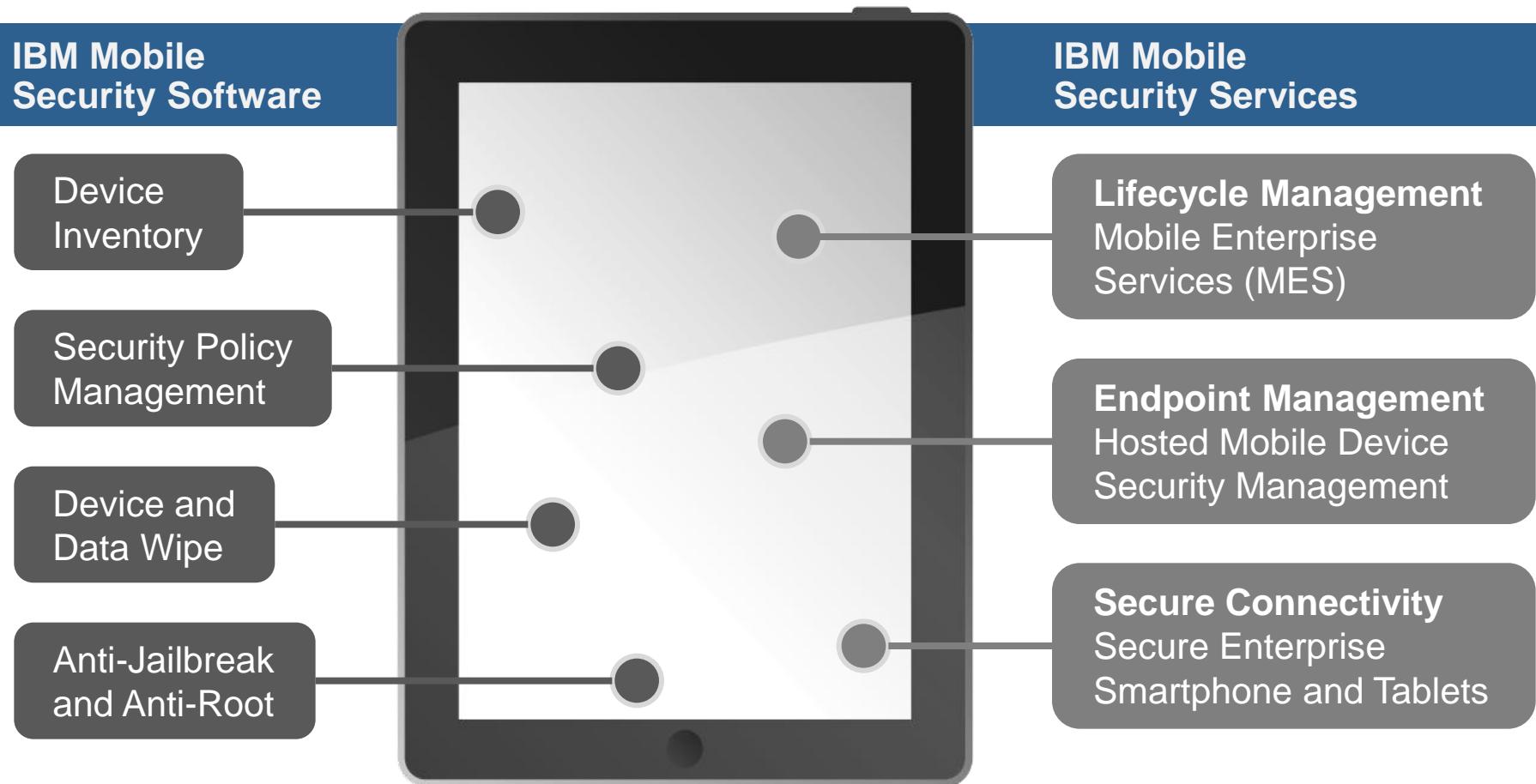
Setzt automatisch und ständige alle aktuellen Richtlinien (sog. Policies) auf allen Systemen durch.

Bibliothek mit mehr als 5,000+ Compliance Einstellungen, u.a. für FDCC SCAP, DISA STIG

Erreicht bis zu 95%+ Erfolgsquote beim Erstdurchlauf einer Policy oder eines Patch Deployments

Consumerization of IT

IBM is converging traditional endpoint and mobile security management into a single solution with complementary services



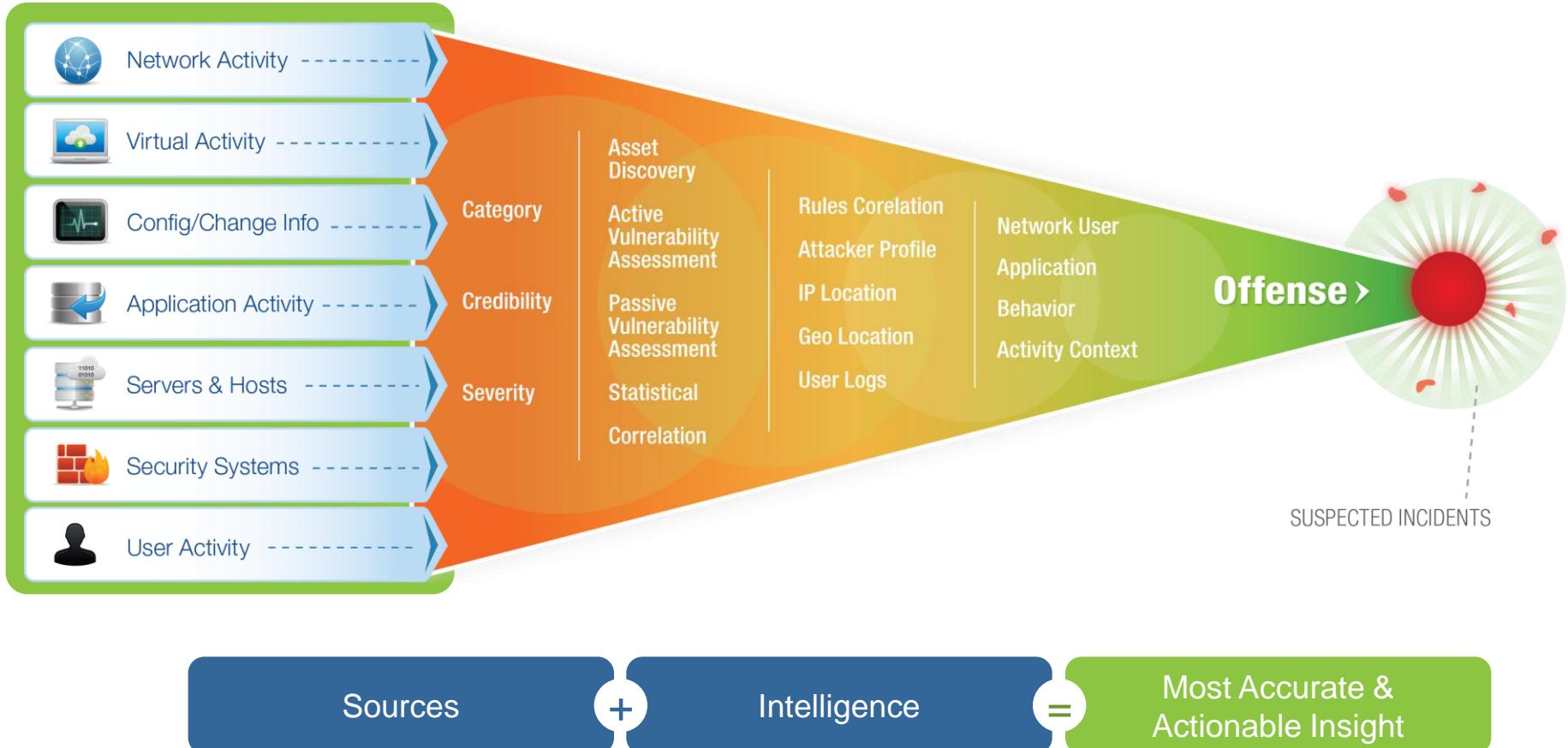


QRadar



Data Explosion

IBM is integrating across IT silos with Security Intelligence solutions





Attack Sophistication

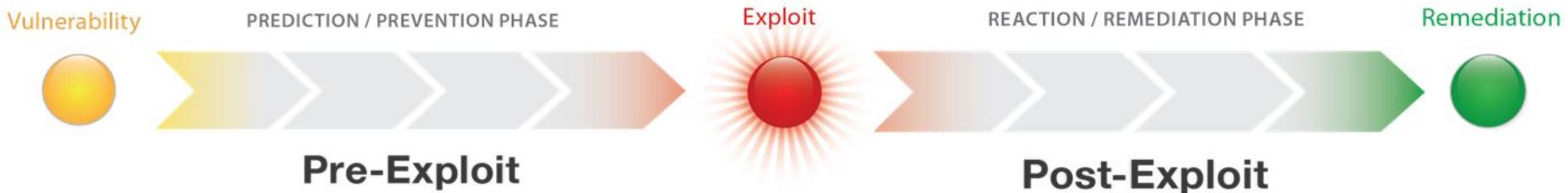
IBM is helping clients combat advanced threats with pre- and post-exploit intelligence and action

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 and Patch Management.
X-Force Research and Threat Intelligence.
Compliance Management. Reporting and Scorecards.

Reaction & Remediation

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



IBM Security Intelligence





QRadar SIEM

Product Tour: Intelligent Offense Scoring

QRadar judges “magnitude” of offenses:

- *Credibility:*
A false positive or true positive?
- *Severity:*
Alarm level contrasted with target vulnerability
- *Relevance:*
Priority according to asset or network value

Priorities can change over time based on situational awareness

#	Id	Description	Attacker/Src	Magnitude	Target(s)/Dest
	287	Local SSH Scanner Detected , Suspicious - Internal - Rejected...	10.100.50.81		Multiple (508)
	318	Remote FTP Scanner Detected , Excessive Firewall Denies Across...	217.64.100.162		Local (99)
	274	DoS - External - Potential Unresponsive Service or Distribute...	Multiple (49)		WebApp-Serv...
	308	Multiple Exploit/Malware Types Targeting a Single Source , Ex...	10.100.50.96		Local (8)
	309	Multiple Exploit/Malware Types Targeting a Single Source	10.100.50.85		Multiple (2)
	286	Remote FTP Scanner Detected , Excessive Firewall Denies Across...	81.240.89.210		Remote (226)
	296	Malware - External - Communication with BOT Control Channel , ...	10.100.100.208		Remote (2)
	236	VOIP: Pingtel Xpressa Denial of Service	10.104.143.0		Multiple (2)
	314	Local Mass Mailing Host Detected	10.100.50.21		Multiple (7)
	290	Authentication: Repeated Login Failures Single Host , Login F...	10.100.100.100		10.100.150.20
	291	Authentication: Repeated Login Failures Single Host , Login F...	10.100.50.64		Multiple (3)
	284	DoS - External - Flood Attack (Low)	205.174.165.5		Remote (1)



QRadar SIEM

Product Tour: Offense Management

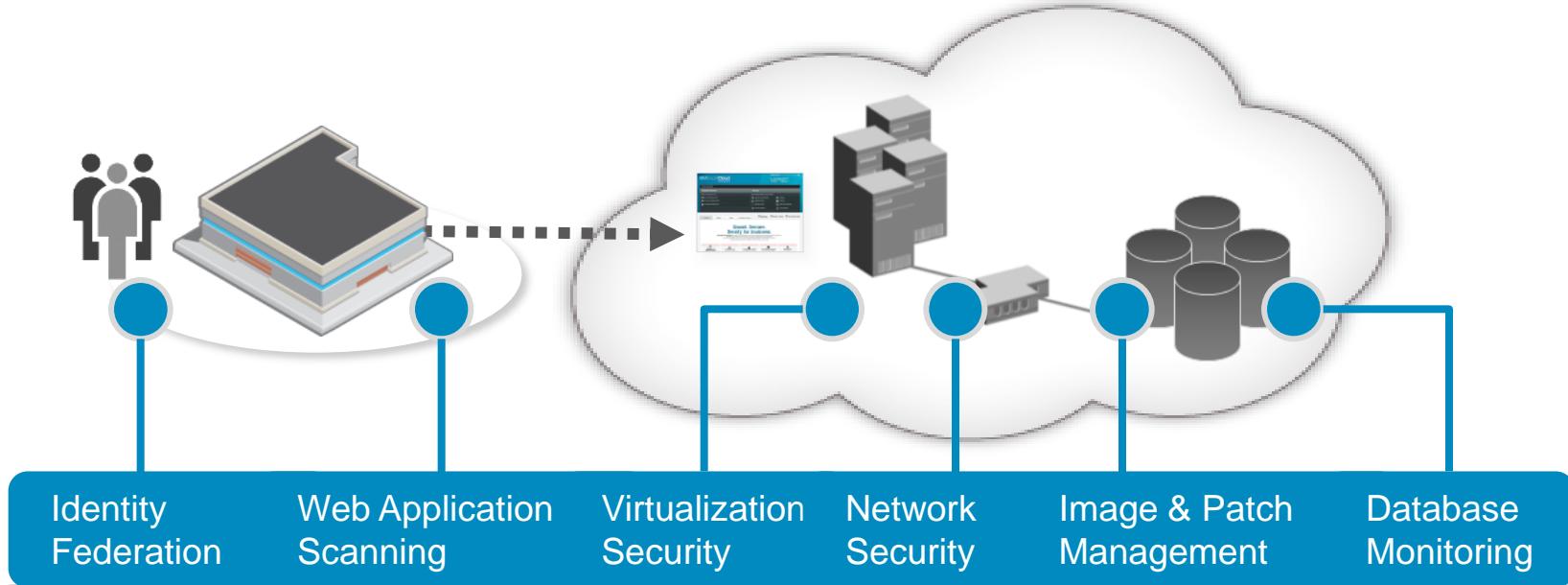
Clear, concise and comprehensive delivery of relevant information:

The screenshot displays the QRadar Offense Management interface with several data tables and analysis boxes.

- Offense 3063** (Top Left):
 - Magnitude:** Red bar (low)
 - 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
 - Attacker/Src:** 202.153.48.66
 - Target(s)/Dest:** Local (717)
 - Network(s):** Multiple (3)
 - Notes:** Vulnerability Correlation Use Case Illustration
- Who was responsible?** (Box with arrow from Attacker/Src)
- What was the attack?** (Box with arrow from Description)
- Was it successful?** (Box with arrow from Notes)
- Attacker Summary** (Table):
 - Magnitude:** Red bar (high)
 - Description:** 202.153.48.66
 - Vulnerabilities:** 0
 - Location:** China
- Where do I find them?** (Box with arrow from Location)
- Top 5 Categories** (Table):
 - Name:** Buffer Overflow, Misc Exploit, Network Sweep
 - Magnitude:** Red bars (high)
 - Local Target Count:** 8, 3, 716
- How many targets involved?** (Box with arrow from Local Target Count)
- Top 5 Local Targets** (Table):
 - IP/DNS Name:** Windows AD Server, 10.101.3.3, 10.101.3.4, DC106, 10.101.3.11
 - Chained:** Yes, No, No, No, Unknown
 - User:** Unknown, Unknown, Unknown, Admin, Unknown
 - MAC:** Unknown, Unknown, Unknown, Unknown, Unknown
 - Location:** main, main, main, main, main
 - Weight:** 8, 0, 0, 10, 0
- Are any of them vulnerable?** (Box with arrow from Chained)
- How valuable are the targets to the business?** (Box with arrow from Weight)
- Top 10 Events** (Table):
 - Event Name:** Misc Exploit - Event CRE, NETBIOS-DG SMB v4 svsvc NetrPathCo..., Misc Exploit - Event CRE, Network Sweep - QRadar Classify Flow, Network Sweep - QRadar Classify Flow, Network Sweep - QRadar Classify Flow, Network Sweep - QRadar Classify Flow
 - Magnitude:** Red bars (high)
 - Log Source:** Custom Rule Engine-8 :: qradar-vm, Snort @ 10.1.1.5, Snort @ 10.1.1.5, Custom Rule Engine-8 :: qradar-vm, Flow Classification Engine-5 :: qradar-vm
 - Category:** Misc Exploit, Buffer Overflow, Misc Exploit, Network Sweep, Network Sweep, Network Sweep, Network Sweep
 - Destination:** 10.101.3.15, 10.101.3.10, 10.101.3.15, 10.1.1.5, 10.1.1.5, 10.1.1.5, 10.1.1.5, 10.101.3.15
 - Dst Port:** 445, 445, 445, 445, 445, 445, 445, 445
 - Time:** 09-29 16:06:33, 09-29 16:06:28, 09-29 16:06:33, 09-29 16:06:31, 09-29 16:05:01, 09-29 16:05:01, 09-29 16:05:01, 09-29 16:05:01
- Where is all the evidence?** (Box with arrow from Log Source)

Everything is Everywhere

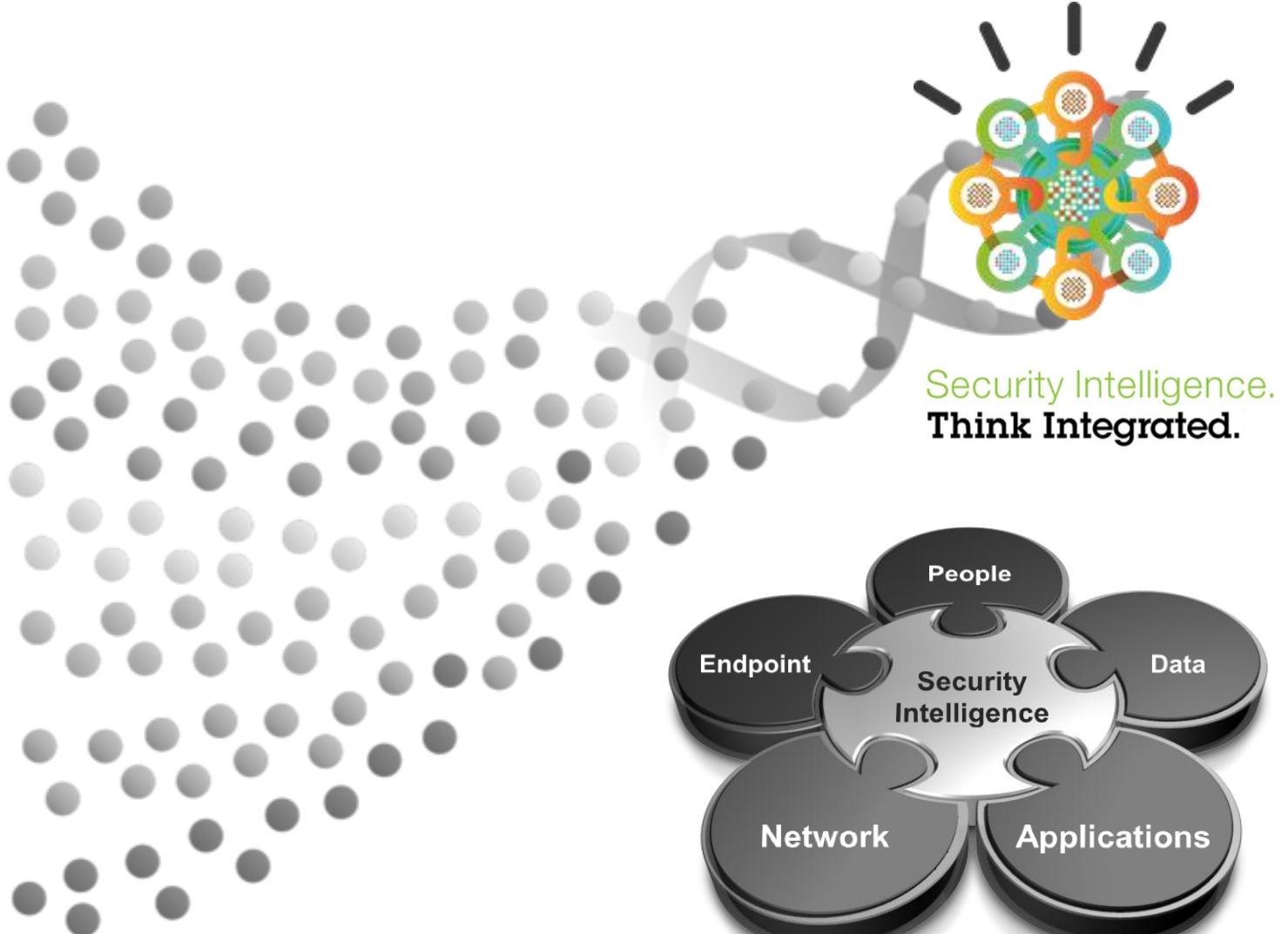
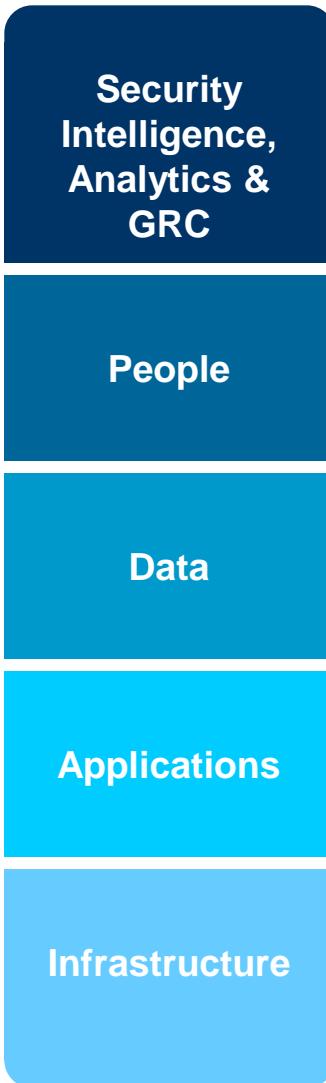
IBM is helping clients adopt cloud with flexible, layered security solutions



IBM Security Intelligence



Intelligent solutions provide the DNA to secure a Smarter Planet





ibm.com/security