



Proactive Approach to Cyber Security

Jeffrey Neo
Sales Director
HP Enterprise Security Products



Customers struggle to manage the security challenge



Trends driving security investments

Primary Challenges

1

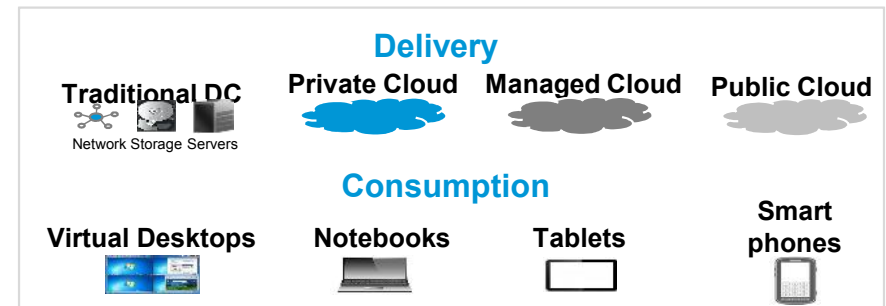
Nature & Motivation of Attacks
(Fame → fortune, market adversary)

2

Transformation of Enterprise IT
(Delivery and consumption changes)

3

Regulatory Pressures
(Increasing cost and complexity)



APT - Definition

Advanced Persistent Threat (APT)

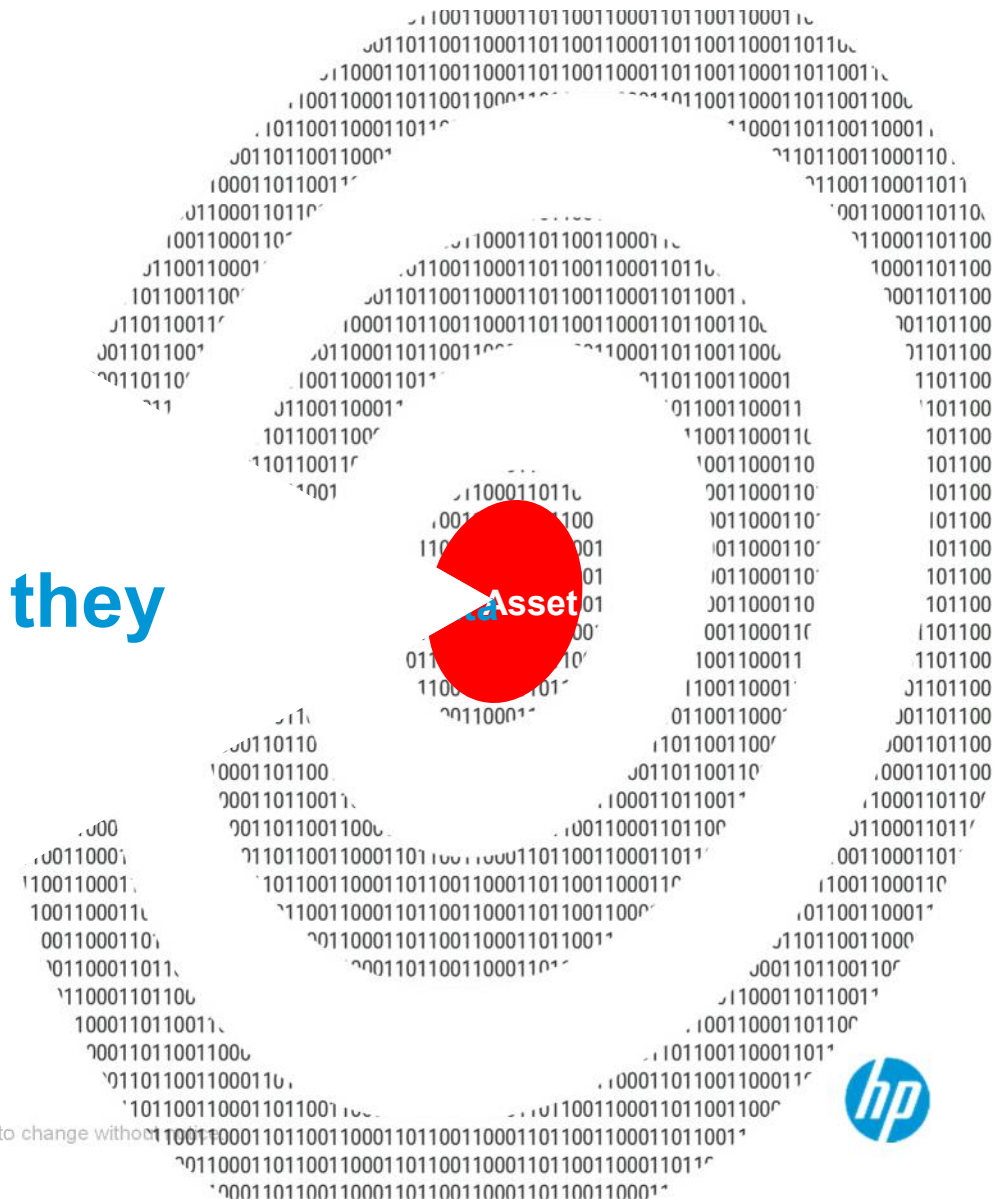
Well-funded and **skilled** attacker (teams) with profound knowledge about the **target** and a **long-term infiltration strategy**. Once the target is infiltrated the highest priority is to stay **covert** and **exfiltrate** as much sensible and valuable **data** as possible or to **damage** the target (organization) effectively and sustained. Due to the **high stakes** the attacker(s) will **keep on trying until success**.



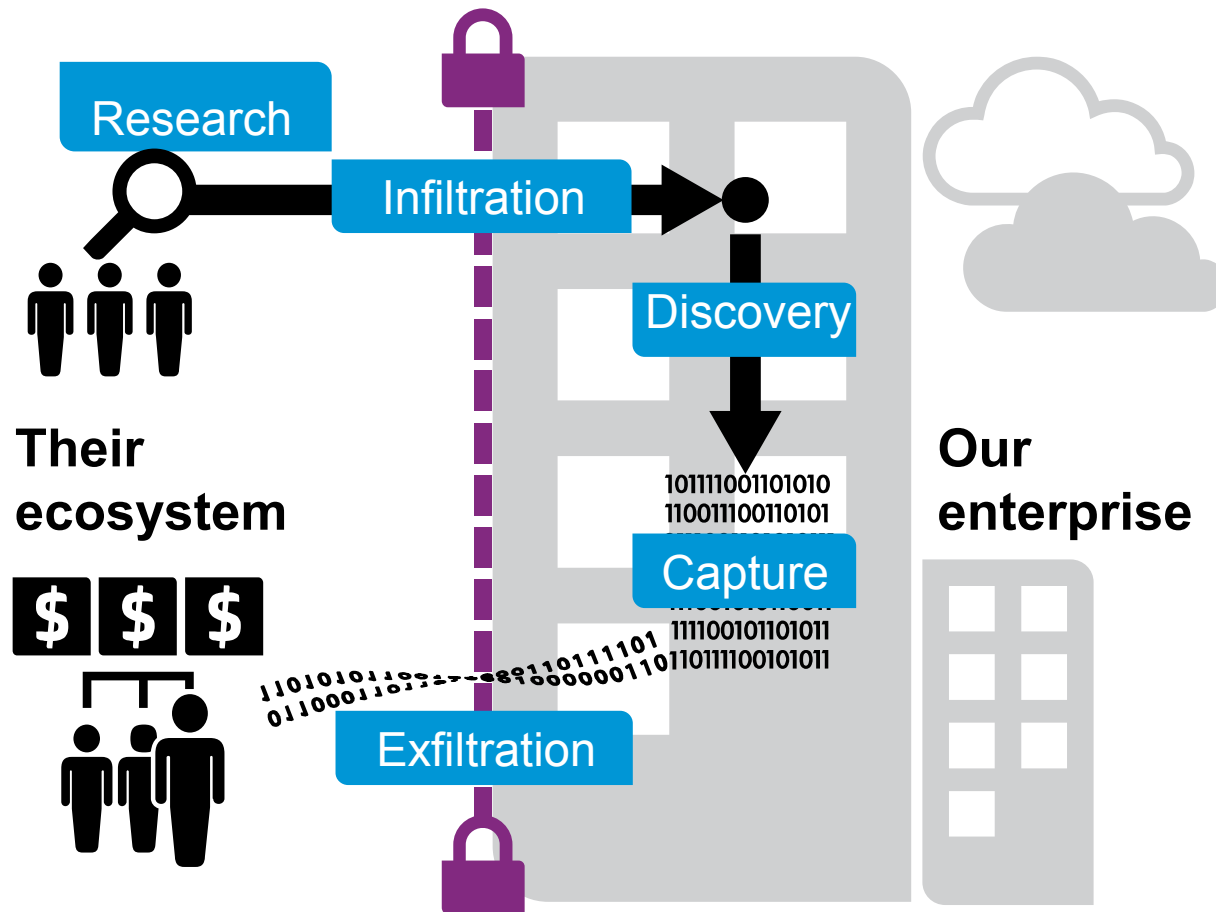
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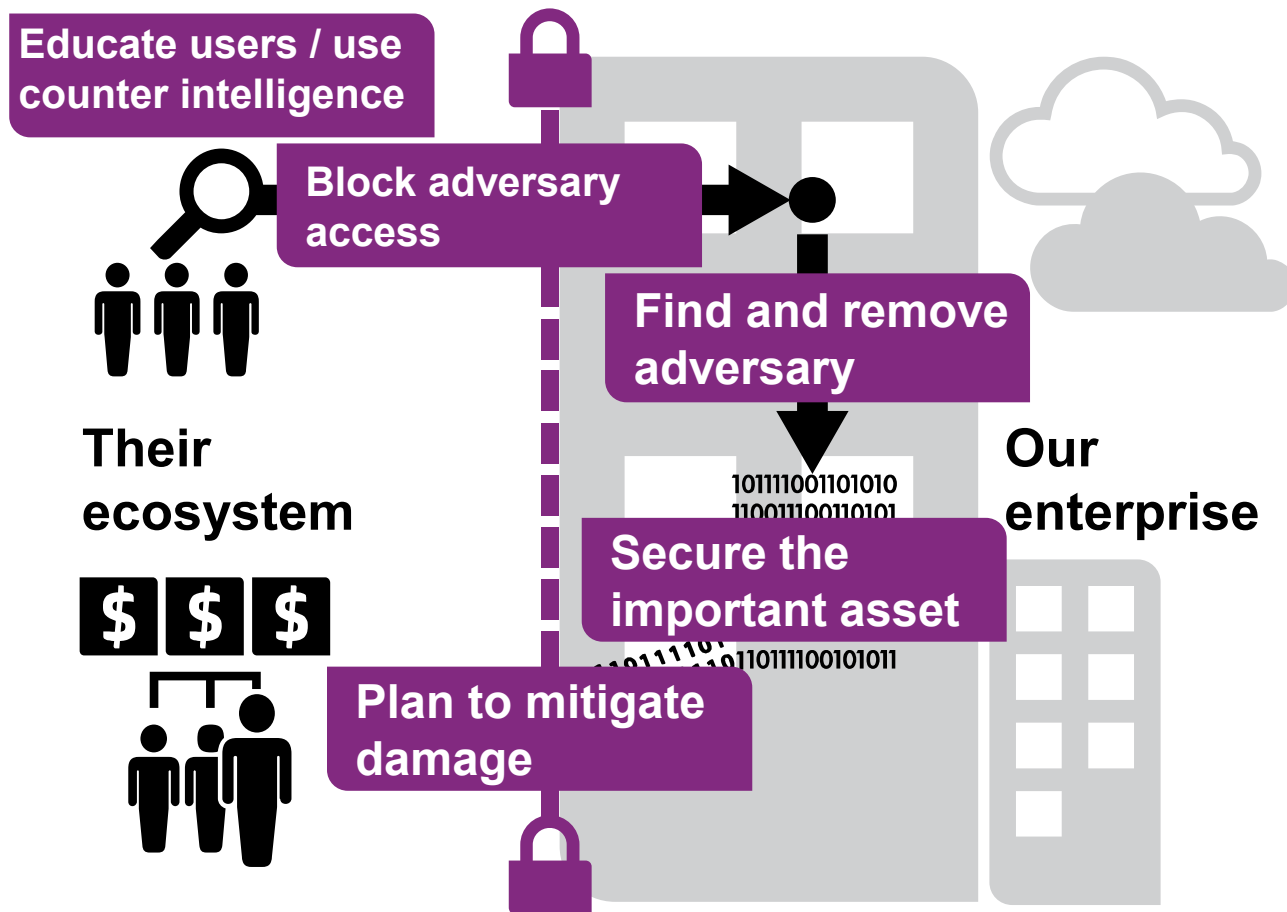
They will keep on trying until they succeed!



The adversary ecosystem



Build capability to disrupt their ecosystem



A new approach is needed

A risk-based, adversary-centric approach

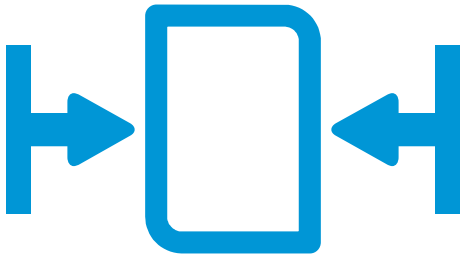


Our strategy is to focus solutions around three areas

1. **Harden** the attack surface
2. **Improve** risk management and response
3. **Proactively protect** information assets

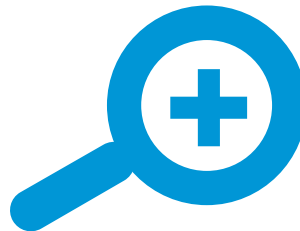


HP addresses three major capability weaknesses:



Harden the attack surface

Identify, improve and reduce the vulnerability profile of enterprise applications and systems



Improve risk remediation

Turn information to intelligence and more quickly see, find and stop known and unknown threats



Proactively protect information

Proactively find, understand and protect sensitive information across the enterprise

HP Enterprise Security Products

HP Security Technology | HP Security SaaS

#1
#2 In all markets
where we
compete

2.5B lines of code
under SaaS
subscription

HP ESP Customers

10000+ Customers
900+ Managed
Security
Services

New Technologies

35 Released in
the last 12
months

9 out of 10

Major banks

9 out of 10

Top software companies

10 of 10

Top telecoms

All Major Branches

US Department of Defense

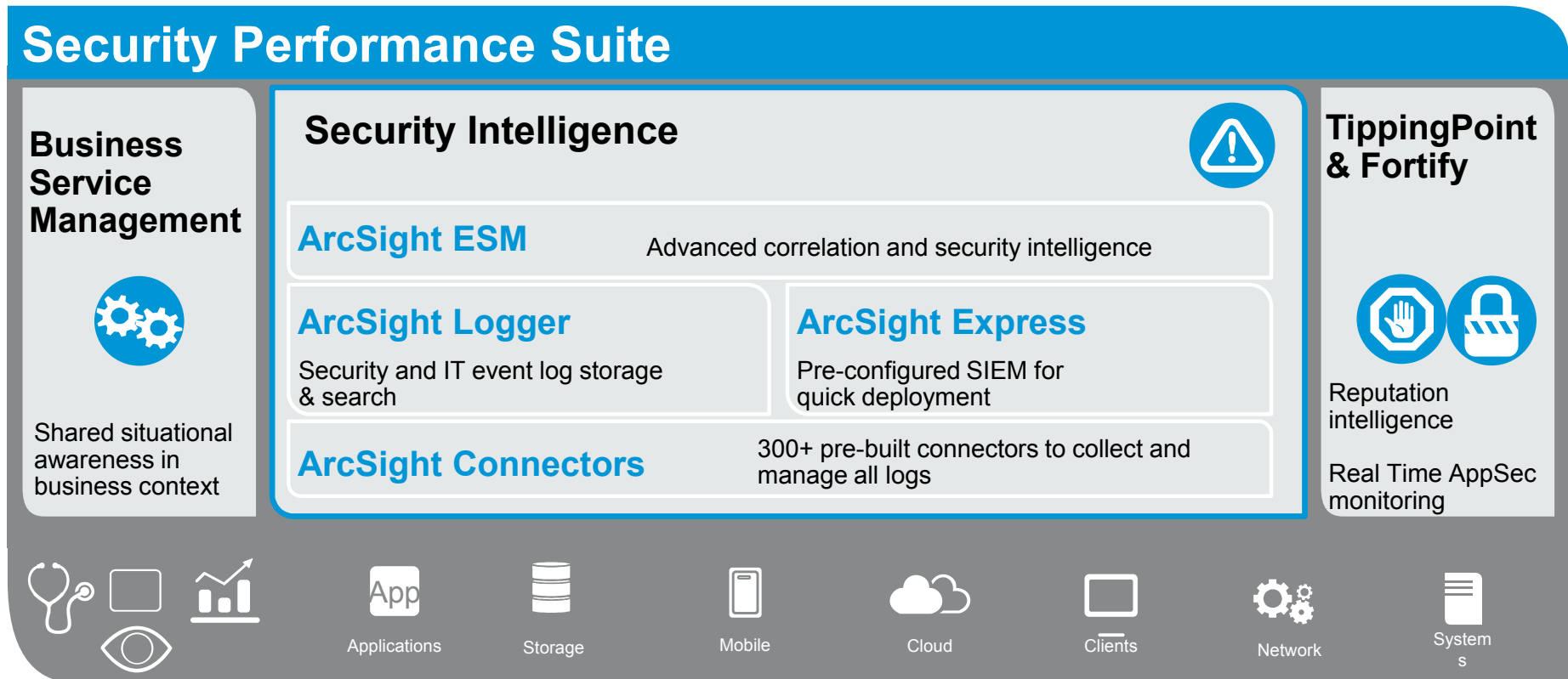


A Security Intelligence and Risk Management platform



Security Intelligence

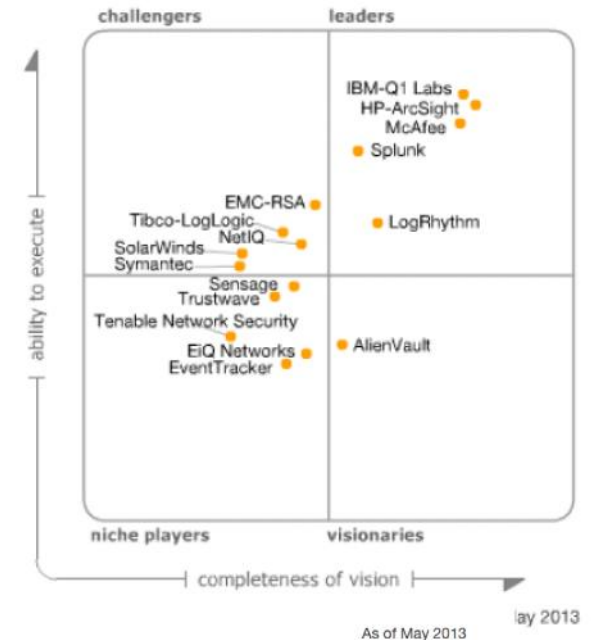
Proactively detect and respond to threats and compliance breaches



Gartner SIEM MQ 2013

- HP ArcSight has moved **UP and to the RIGHT**
- A **LEADER for 10 consecutive years**, while others have appeared and disappeared
- The **most visionary product** in the Gartner MQ
- Gartner recognizes **HP's vision through ops-analytics**, integrating SIEM and IT Ops
- We are **#1 in 4, #2 in 3** of the 8 categories in meeting customer's SIEM requirements no other vendor is #1 in more than 2 categories

Product Rating on Critical Capabilities



As of May 2013

May 2013

HP/ArcSight

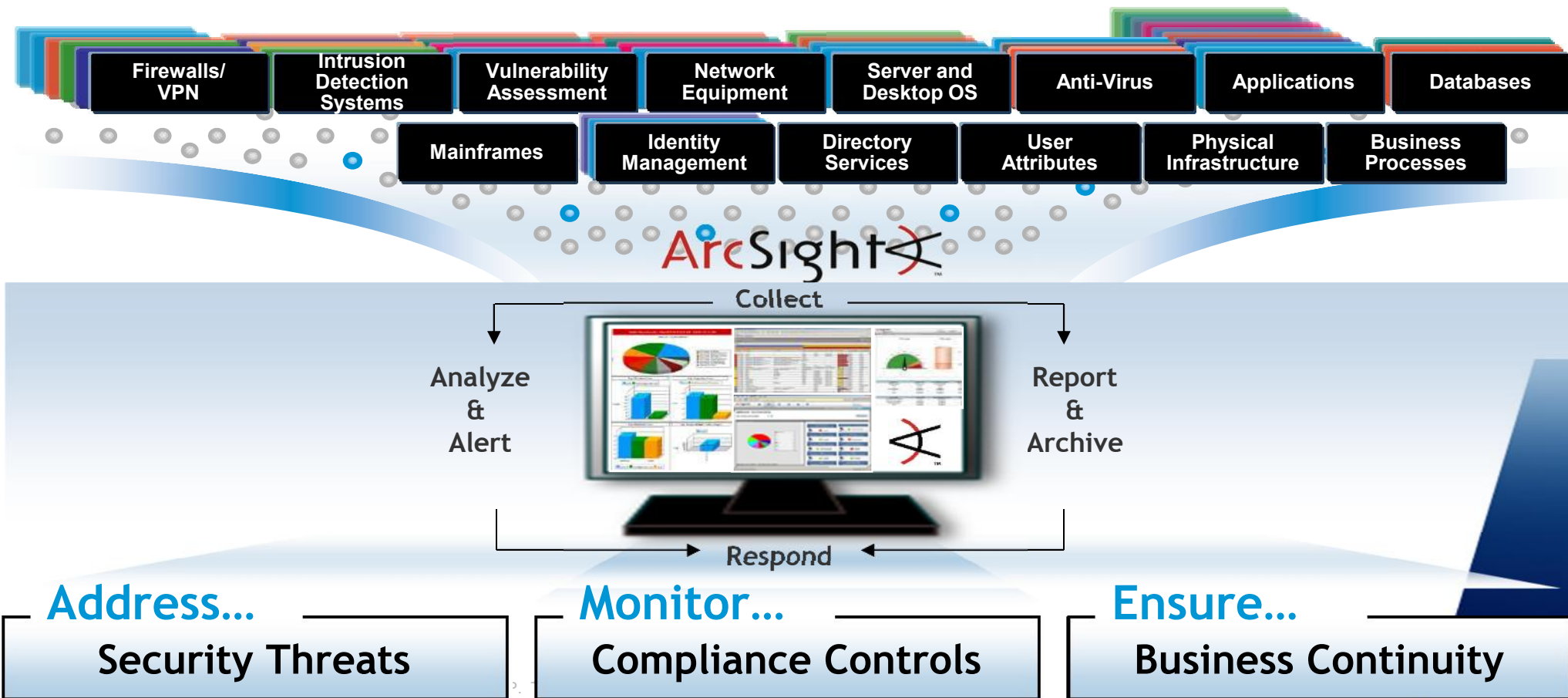
#1

#2

	AlienVault	EiQ Networks	EMC-RSA	HP-ArcSight	IBM-Q1 Labs	LogRhythm	McAfee ESM	NetIQ	Sensage	SolarWinds	Splunk	Symantec	Tibco-LogLogic
Product Rating													
Real-Time Monitoring	2.80	3.2	2.8	4.1	3.9	3.53	3.55	3.90	2.6	3.03	3.0	3.40	2.85
Threat Intelligence	3.30	3.0	4.0	4.0	4.0	3.00	4.00	1.00	3.5	1.00	3.5	4.70	1.00
Behavior Profiling	3.50	3.3	3.0	3.8	4.5	3.50	3.25	3.50	3.3	2.00	3.3	2.00	3.40
Data and User Monitoring	2.60	3.0	3.2	4.2	3.5	3.58	3.54	3.08	3.6	3.06	3.1	2.92	2.79
Application Monitoring	3.17	3.0	3.3	4.1	3.5	3.58	3.83	2.40	3.7	3.00	3.7	3.08	2.42
Analytics	3.28	2.9	3.5	3.7	3.9	3.00	3.70	2.69	3.7	2.25	3.7	3.00	2.87
Log Management and Reporting	3.04	3.3	2.9	3.8	3.5	3.62	3.68	3.31	3.5	3.29	3.4	3.48	4.00
Deployment and Support Simplicity	3.53	3.2	2.5	3.3	4.0	4.00	3.50	3.80	2.3	5.00	2.9	3.00	3.85



HP ArcSight: Centralized Threat and Risk Management



Security Intelligence Solutions

A Use Case Approach to Solving Common Business Challenges

Assess • Design

Universal Log Management



Effectively manage risk and compliance at business-process level

Regulatory Compliance



Leverage centralized logging to maintain SOX, PCI, FISMA and HIPAA compliance

Perimeter Security Intelligence



Maintain network integrity and availability with superior network transparency

Insider Threat Security Intelligence



Detect threats from within by correlating users with roles and activity

Advanced Persistent Threat Intelligence



Identify anomalous behavior with greater insight into network and users

Privacy Breach Management



Proactively detect and mitigate security and privacy breaches

Data Leakage



Protect sensitive data stores and prevent IP theft

Critical Business Transaction Monitoring



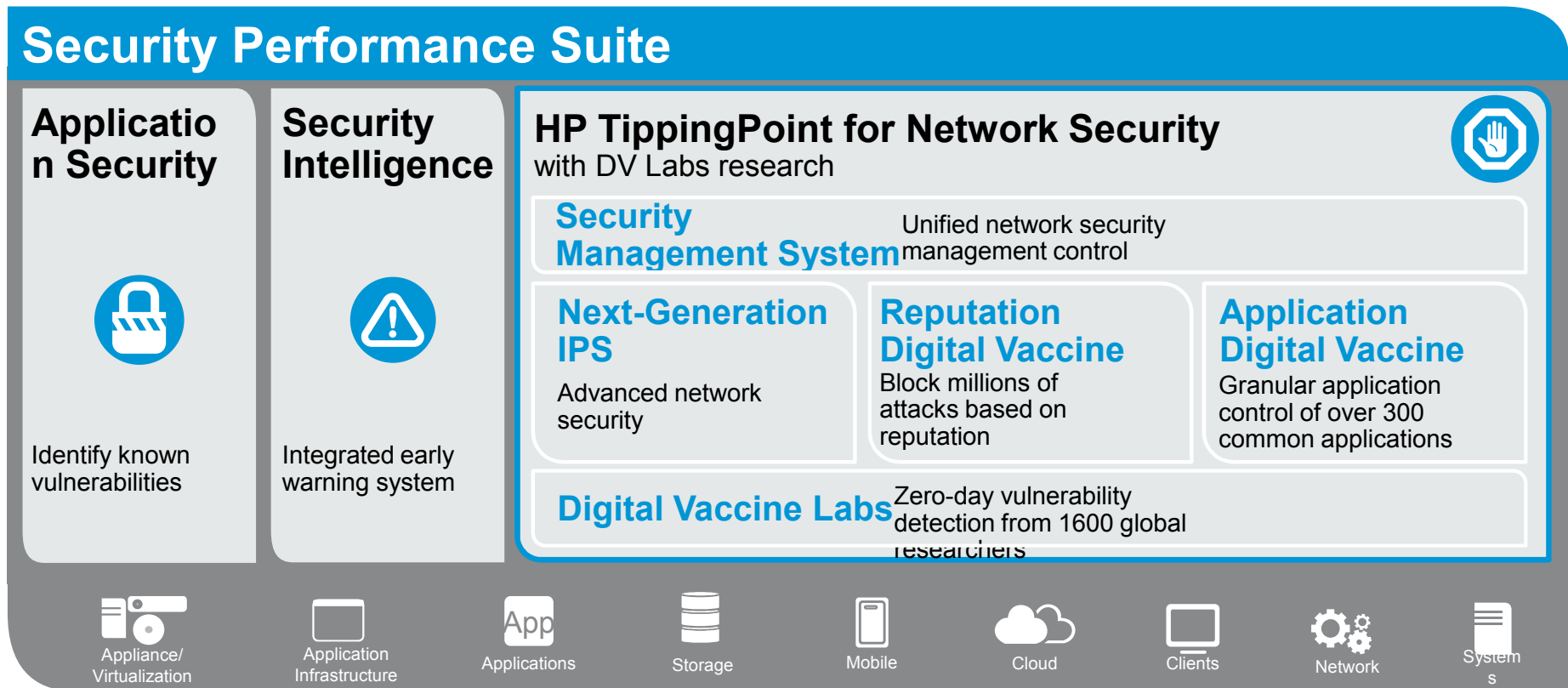
Track application activity for signs of fraud and abuse

Mature • Manage

People • Process • Technology

Network Security

Proactive next generation network security



Introducing the NX Platform NGIPS

Advanced Protection Against Advanced Threats

- Highest Port Density available on the market today
 - 24 x 1G segments
 - 16 x 10G segments
 - 4 x 40G segments
- Improved performance capabilities
- Swappable I/O modules
- Multiple performance options (3Gbps to 20Gbps)
- Installs quickly for seamless in-line threat protection
- Supports multiple security services:
 - Reputation Digital Vaccine
 - Web Application Digital Vaccine
 - Application Digital Vaccine
 - DV Toolkit
 - ThreatIntelligence portal

HP TippingPoint NX Series



Agile NGIPS Adapts to Prevent Future Attacks

The Virtual Network Visibility Gap

1

• Hypervisor Security

- Are mission critical
- Can't be secured with virtual IPS
- Patches must be immediate

2

• Host to Host Threats

- Can't deploy IPS in front of every server
- Also Need VM to Host security

3

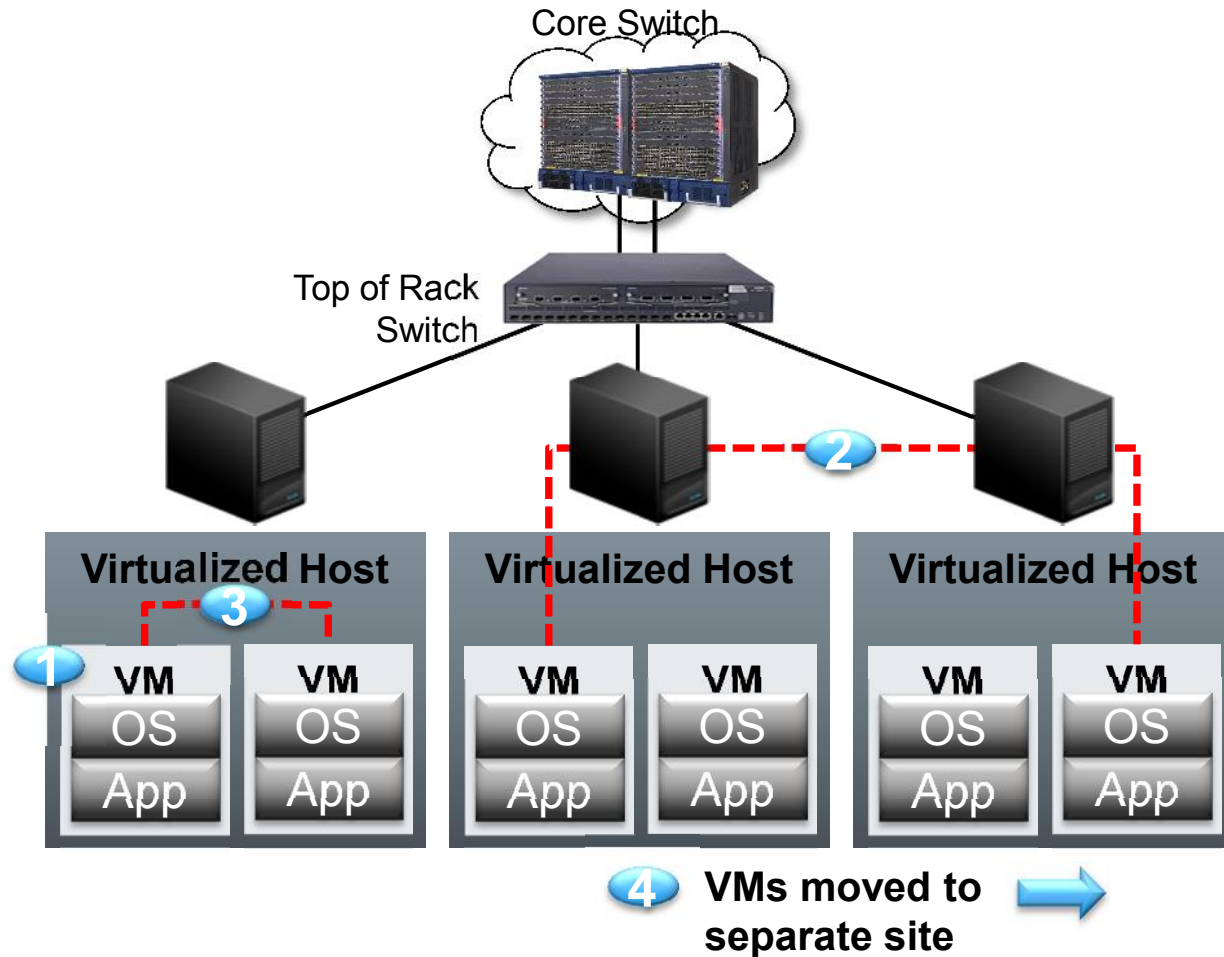
• VM to VM Threats

- Virtual trust zones
- Traffic does not enter the physical network for inspection
- A victim VM can attack other VMs

4

• VM Mobility

- vMotion launches VMs in separate sites for DR or other purposes
- Physical IPS options are cost prohibitive for these uses



Secure Virtualization FrameWork (SVF)

– What's Included

- IPS Platform
- Virtual Controller (vController)
- SMS / Virtual Management Center (vMC)

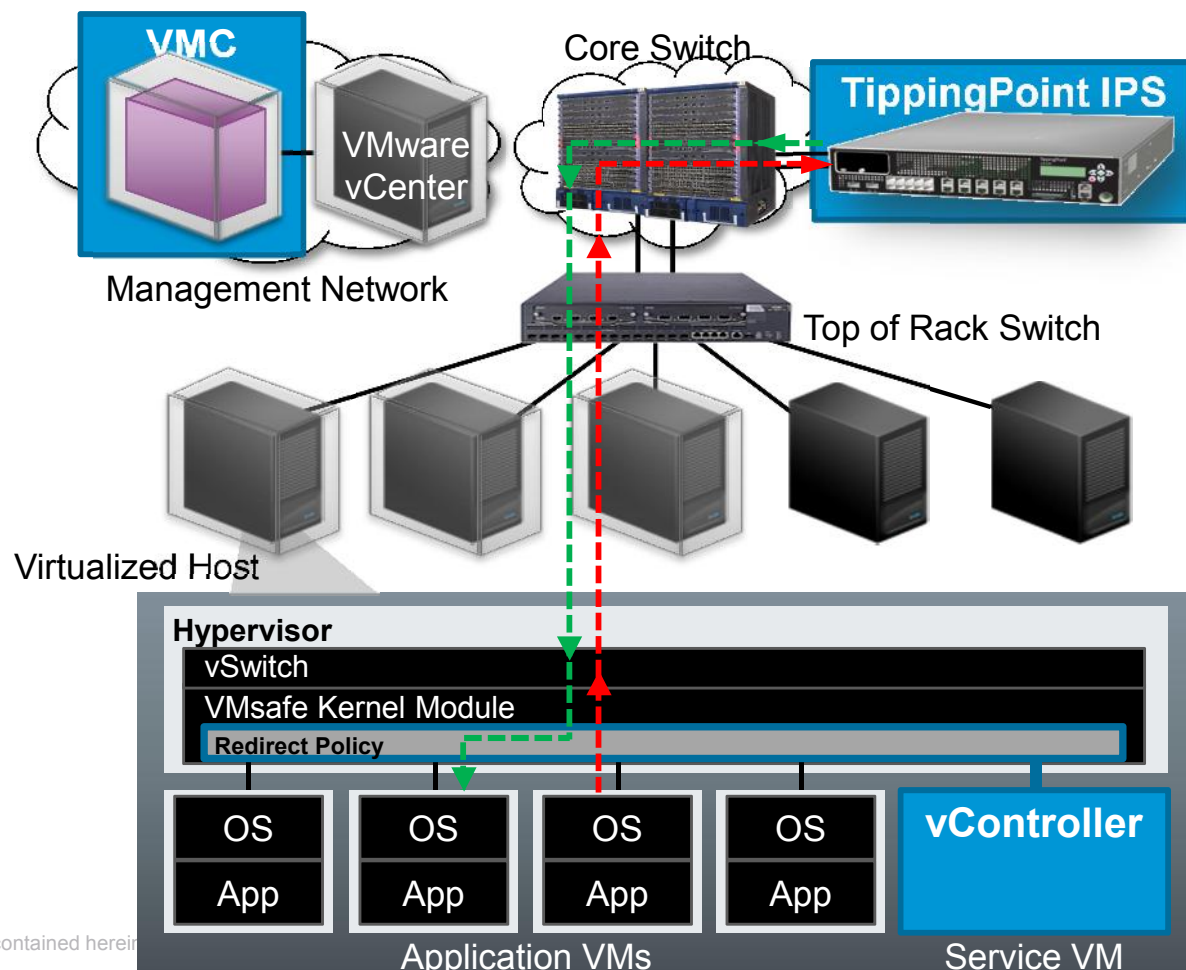
– Securing Virtualization DC security solution

- Single, purpose-built DC security solution

– Extend IPS solution into the virtual DC

- Leverage previous IPS investments

– Flexibly Inspect Data in Both the Physical and Virtual DC



Application Security

Mitigate security risk posed by weak & vulnerable software

Security Performance Suite

Fortify - Software Security Assurance



Fortify on Demand SaaS-based application security testing

Secure Development

With Fortify SCA & SSC

Ensure your code is free of vulnerabilities

Mobile Application Security

Deliver mobile apps impervious to attack

Web App Security Testing

With WebInspect

Vulnerability scanning and reporting

Fortify Runtime Security

Automatically block common attacks within an application

Security Intelligence



Integrated early warning system

TippingPoint & Fortify



Reputation intelligence

Real Time AppSec monitoring



Applications



Mobile



Cloud



Clients

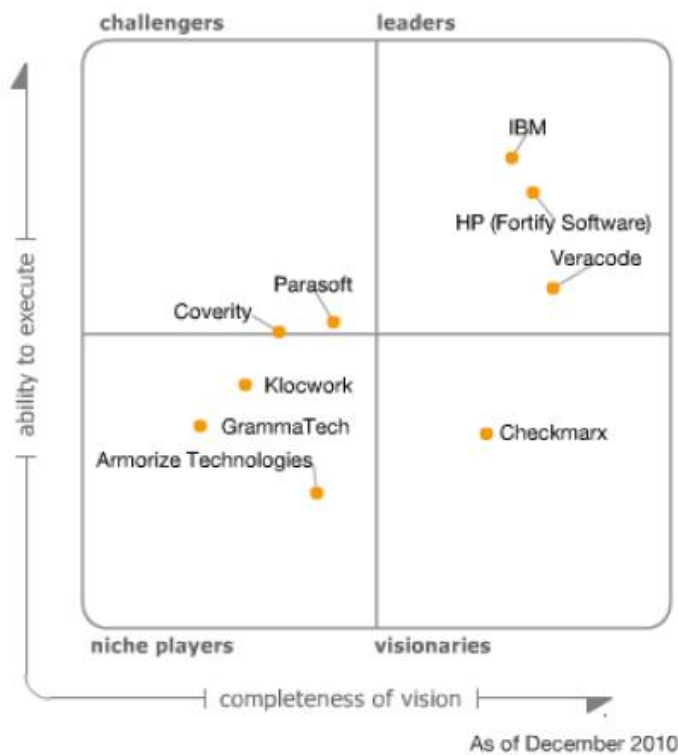


Network

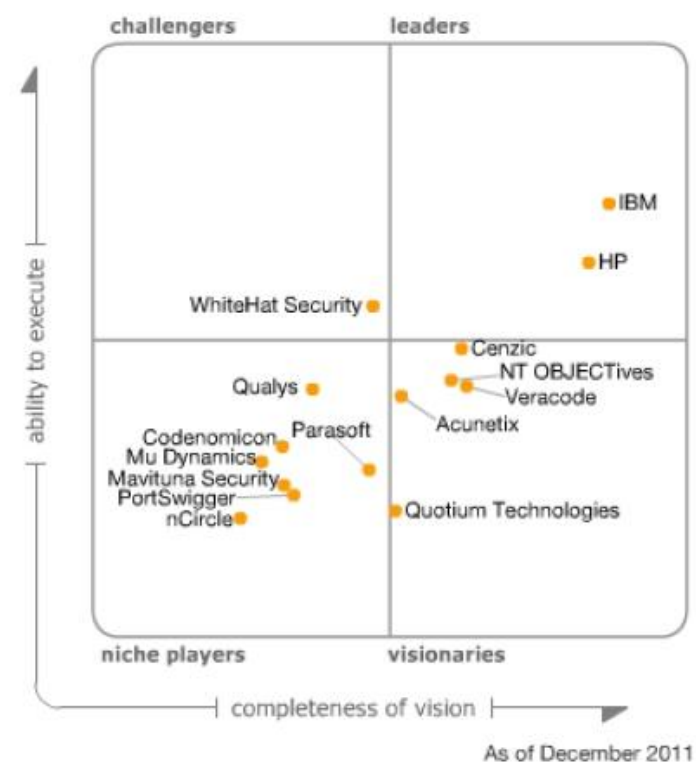


Fortify Competitive Position

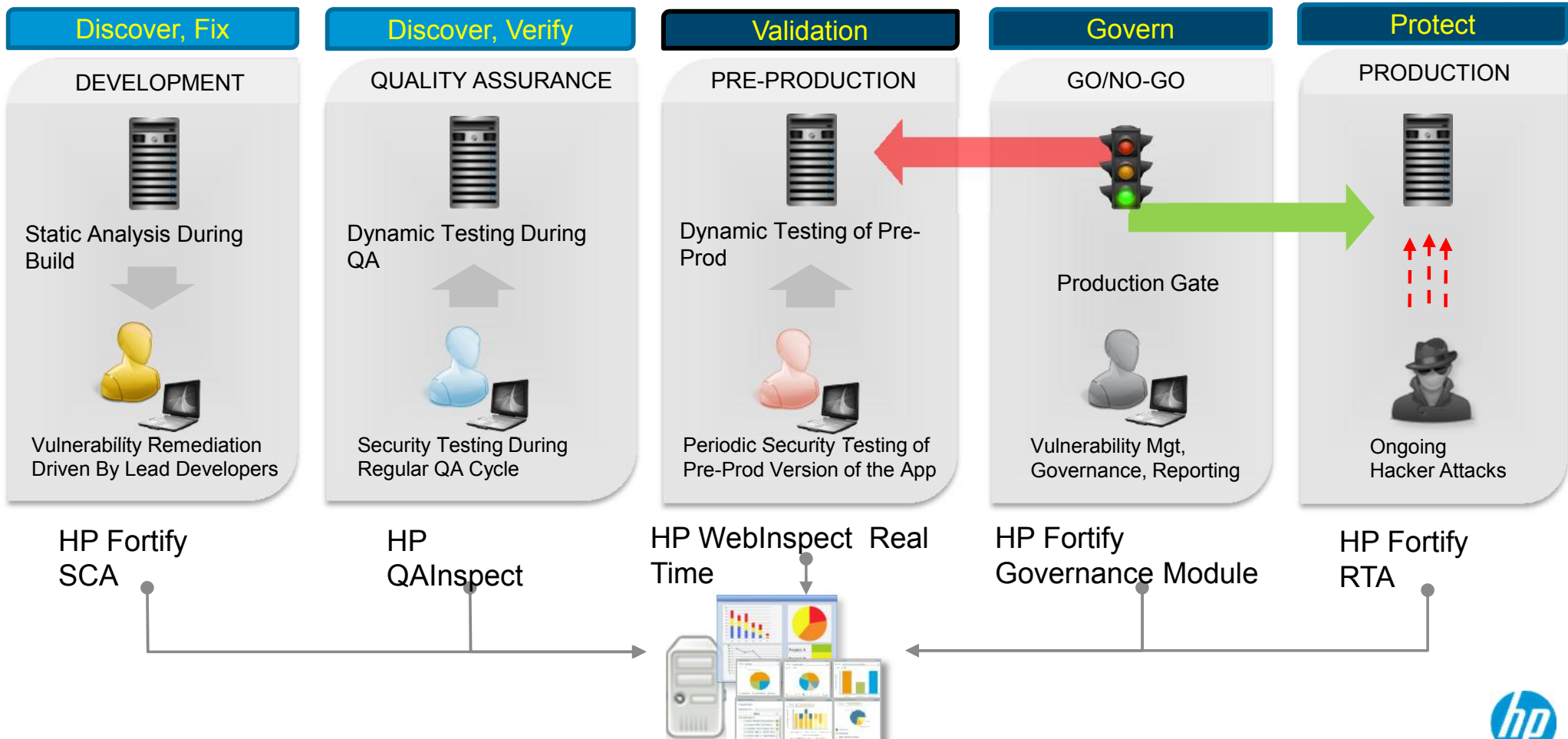
Static Analysis MQ



Dynamic Analysis MQ



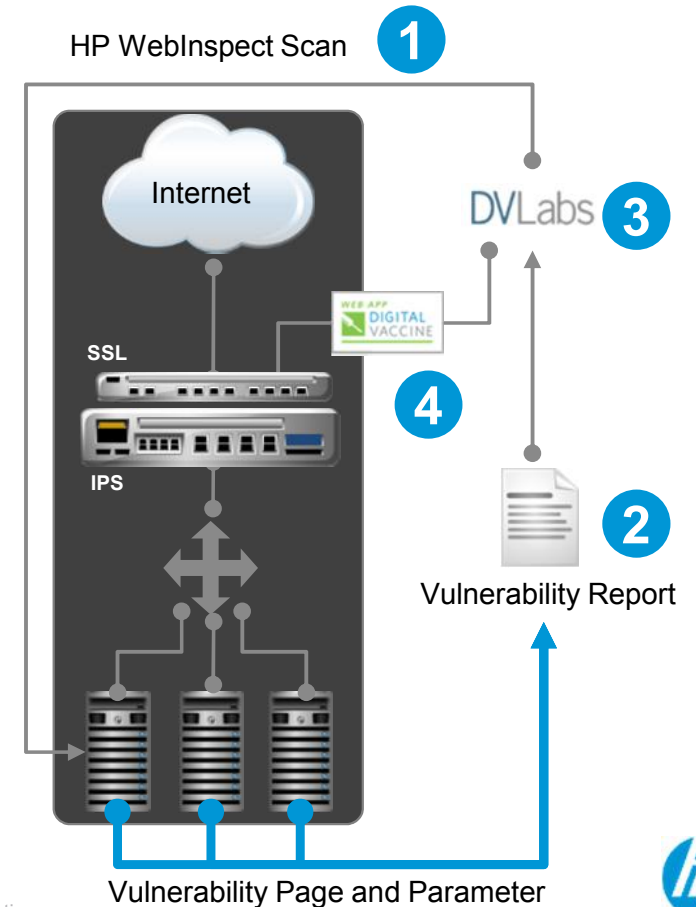
Secure Software Assessment Technologies



Proactive Web Application Protection

How does it work?

1. HP WebInspect scans for potential security risks
2. Assess vulnerability threat report
3. Create customized application protection filters
4. Manage exposure with TippingPoint IPS

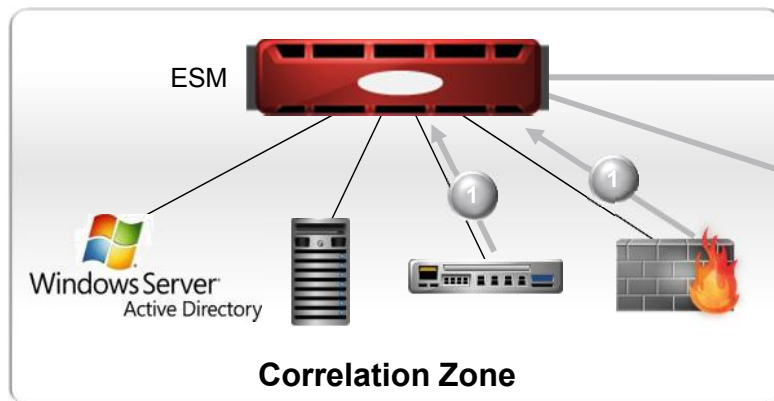


Proactive Attack Remediation

1) Connection and Context information is reported by Firewall, NGIPS, Active Directory, Application, etc.

2) Security Intelligence feeds

ArcSight ESM correlate the information and identify malicious / violation incidents

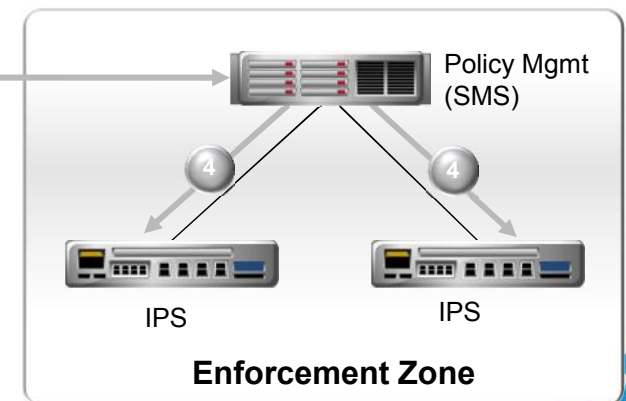


Updates to ESM via ThreatLinQ

3) ESM instructs SMS to quarantine internal endpoints for remediation / block malicious connection

4) Identity based reporting provides visibility to endpoint infection by dept/groups

4) SMS sends action set to IPS. Endpoints are now blocked and quarantined for remediation



Reputation-based Threat Intelligence

HP Reputation Security Monitor (RepSM)

What does it provide?

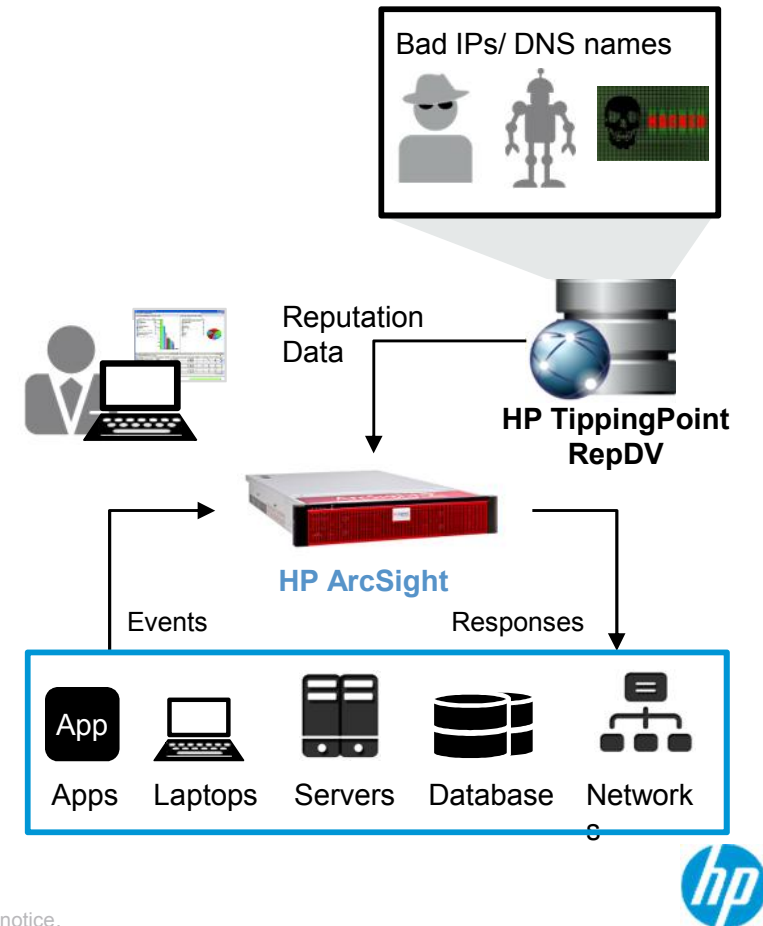
- Enables Security Operations to leverage global threat intelligence to detect and protect against APTs

Features

- Submissions from global security community
- Intelligence fed to SIEM for real-time correlation
- Active response taken in response to malicious activity
- Detects and prioritizes advanced persistent threats (APTs) through correlation of suspicious enterprise-wide activity
- Enables security operations to respond to unknown attacks with manual or automated actions

Customer Benefits

- Identifies APTs that go undetected by signature-based security controls
- Enables security operations to respond to unknown attacks with manual or automated actions
- Improves efficiency of SOC, by reducing false-positives using correlation



Thank You!

jneo@hp.com , +65 9177 3397

