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Endpoint Management and Security

How IBM BigFix , Mobile First Protect and Trusteer Apex Protect Endpoints against Exploits & Compromise

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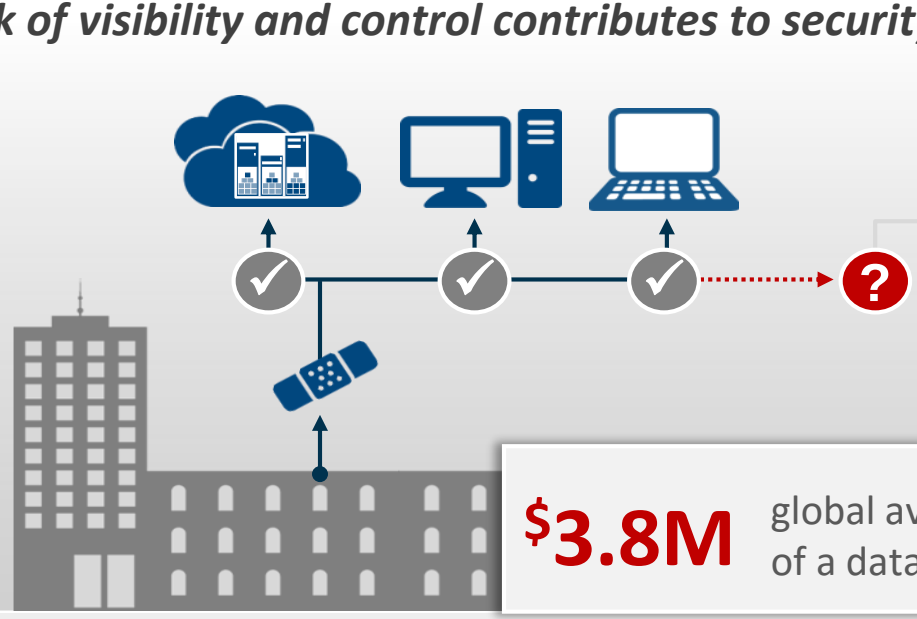
Despite existing tools, breaches continue to rise

Lack of visibility and control contributes to security breaches and financial loss



"Major global bank compromised and millions of depositor records stolen due to missed server upgrade cycle"

$3.8M global average cost of a data breach*

You can't fix what you can't see

Incident response is the No. 1 factor to reduce the cost of a data breach

**Source: 2015 Cost of a Data Breach Study: Global Analysis*, Ponemon Institute, May 2015

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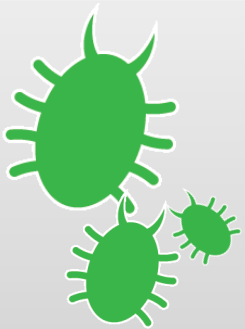
As Mobile Grows, Threats Grow

In 2014 the number of mobile phones (**7.3 billion**) will exceed the number of people on the planet (**7 billion**)[1]

138 billion apps were downloaded in 2014[2].
By 2017 **50%** of employers will require BYOD[3].



Mobile malware is growing. Malicious code is infecting **>11.6 million** mobile devices at any given time[4].

Mobile devices and the apps we rely on are under attack.
97% and **87%** of top paid Android and iOS apps have been hacked[5].

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Siloed IT Operations and Security Teams

Disparate tools, manual processes, lack of integration and narrow visibility

IT SECURITY

- Scan for compliance status
- Create security policies
- Identify vulnerabilities

IT OPERATIONS

- Apply patches and fixes
- Implement security and operational policy
- Manual process takes weeks / months

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Why Other Approaches Fail

Architecture

- Slow, scan-based architectures
- Limited coverage
- Not cost-effective at scale

Complexity

- Heavy, resource-intensive agent(s)
- Multiple products, multiple agents
- Not Internet-friendly

Resources

- Too much admin and infrastructure
- Little pre-built content
- Each task detracts from higher value projects

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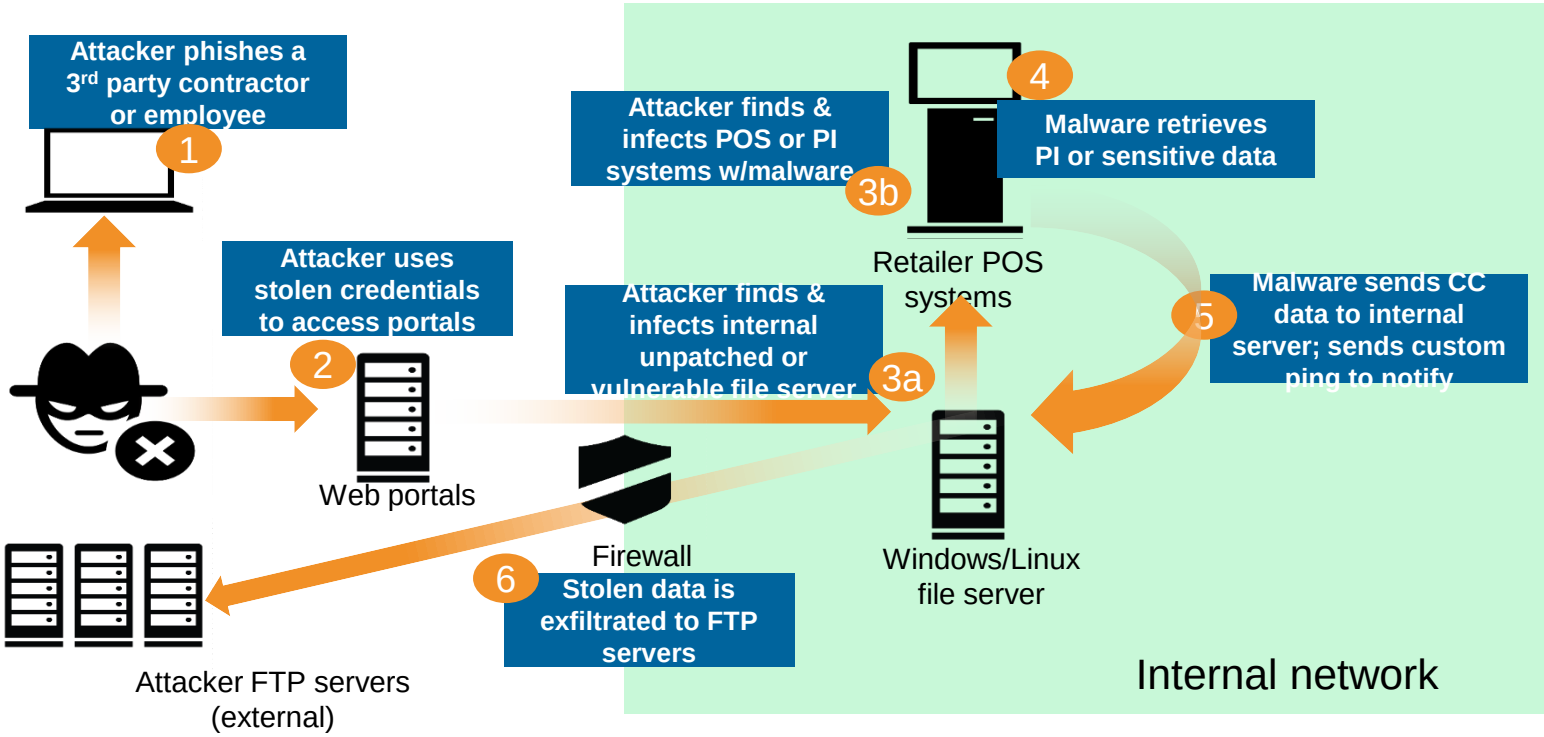
Perimeter defenses are not enough against today's attack chain



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What any Unified Endpoint Management should address:

Any device.

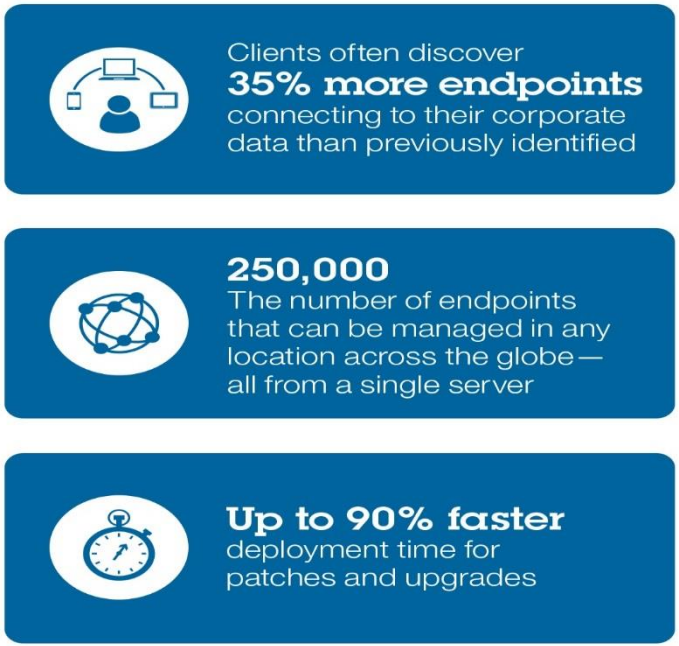
Identify and respond to any device accessing your corporate data—regardless of what type it is or whether it's personal or corporate-owned.

Any location.

Manage and secure every unique device—whether it's on or off your corporate network—anywhere on the planet.

Any time.

Get real-time visibility and control of every device on your network. Find and fix problems in minutes—before they become major disruptions.



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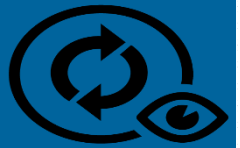
What an Endpoint Architecture should provide:

Single intelligent agent



- Continuous self-assessment
- Continuous policy enforcement
- Minimal system impact (<2% CPU, <10MB RAM)

Single server and console

- Highly secure, highly available
- Aggregates data, analyzes and reports
- Manages up to 250K endpoints per server

Flexible policy language (Fixlets)

- Thousands of out-of-the-box policies
- Best practices for operations and security
- Simple custom policy authoring
- Highly extensible/applicable across all platforms

Lightweight, easily configurable infrastructure

- Designate agent as a relay or discovery point in minutes
- Provides built-in redundancy
- Leverages existing systems/shared infrastructure

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MobileFirst Protect: enabling devices, apps, and content

- ✓ Proven delivery approach with both on-premise and cloud-based EMM offering
- ✓ Securely enables mobile productivity without burdening end-user experience
- ✓ Seamlessly integrates with all of your existing infrastructure
- ✓ Simple & fast with an exceptional customer experience

Because of HIPAA issues regarding personal student information and records, the ability to remotely lock and wipe any lost devices provides an added layer of security to iPads used in therapy and other clinical settings. We feel confident knowing

Client: Bancroft

300+

Number of iPads used by clients and staff

15 - 20

Hours of monthly IT time saved

<5 Minutes

The amount of time to securely enroll a new device

300+

The number of educational and clinical apps managed

1

Number of consoles needed to securely manage all iPads

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Mobile First Protect (Maas360) Differentiators

1) Overall Security Capability

World Class Datacenters: FISMA, CSA, SOC 2 Type II Certified

Encrypted Containers: AES-256 Bit, FIPS 140-2 Compliant

2) Our Architecture and Data we DON'T store is KEY!

NOT introducing a point of failure

Emails/Sensitive info not stored on our cloud

3) Ease of Use and Customer Experience

Full Production Trial in minutes - Fastest to Try, Easiest to Buy

No charge for support, implementation, training, maintenance

4) Strategic Partnerships

IBM and Apple – July 2014

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IBM Mobile Portfolio

Worklight integration for increased security and app lifecycle management workflow value.

Qradar integration for bilateral real-time event notifications

Collaboration Solutions (Lotus) integration for increased user productivity and containerization

Trusteer to add additional threat protection capabilities to the MaaS360

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Trusteer Apex -Turnkey Service

Low impact endpoint agent plus expert services

Global Updates

- New protections based on dynamic intelligence
- Transparent endpoint updates

Exception Handling

- Reduce false positives
- Whitelisting of known good apps and processes

Threat Analysis

- Analysis by an extensive team of APT experts
- Malware research
- Help with remediation

Policy Administration

- Initial policy creation
- Ongoing policy review
- Policy change management

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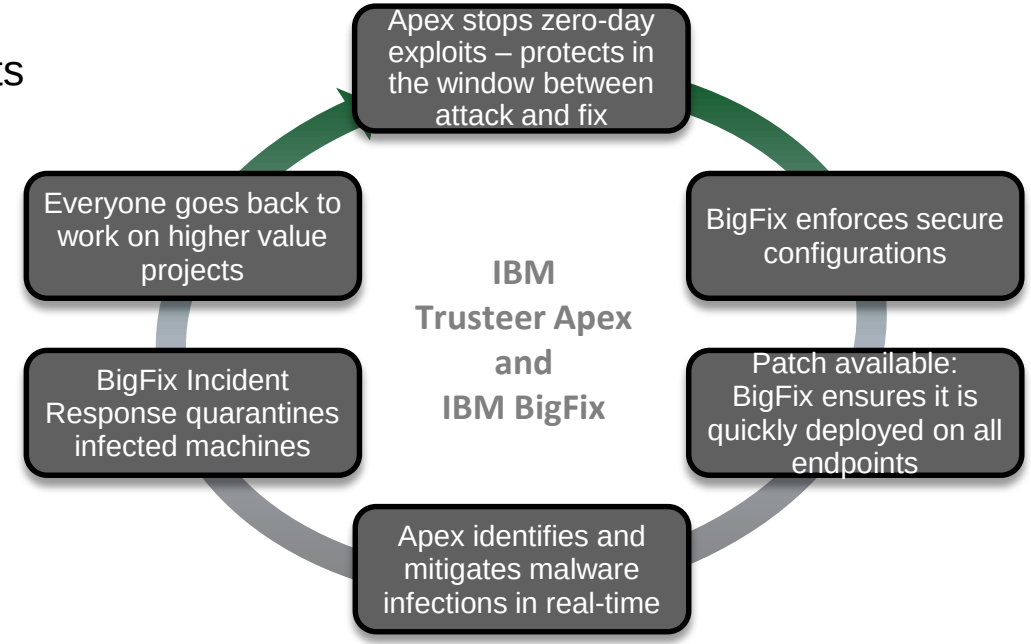
IBM BigFix and IBM Trusteer Apex

Create the most robust enterprise endpoint security solution available!

- Extend BigFix ROI by stopping exploits before patches are available
- Continuously monitor and protect endpoints
  - Enforce secure configurations
  - Deploy security patches
  - Detect and mitigate advanced malware infections
- Effectively respond to security incidents



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Mobile Threat Management (Trusteer)

Stop mobile malware on iOS & Android devices

Set security policy controls against malware

Automate remediation with compliance engine

Alert user & responsible parties

Detect jailbroken & rooted devices with over-the-air updates

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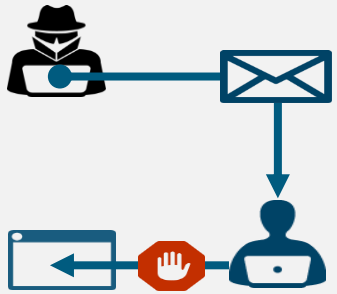
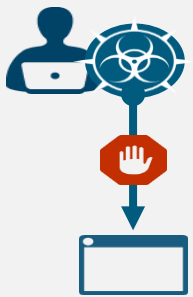
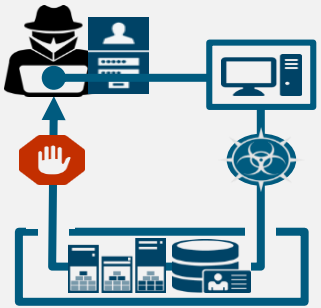
Disrupting the Attack Chain

ATTACK CHAIN

Break-in	Latch-on	Expand	Gather	Exfiltrate
				
QRadar correlates application, network and user activity; alerts on attempted and actual intrusions	Apex prevents malware from installing; QRadar/BigFix detect, prioritize and remediate vulnerabilities	QRadar detects abnormal traffic patterns on the network; alerts security personnel	QRadar detects user logins and database activity revealing abnormal access to sensitive servers	QRadar detects abnormal data transfer; Incident Forensics investigates attack; BigFix quarantines / fixes endpoints

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IBM understands the demands of managing a global heterogeneous IT infrastructure

- **433,000 IBM employees** in over 120 countries.
- Deployment to over **750,000 endpoints**
- Drive savings well above our initial **US $10million estimate**
- A **78 per cent decrease** in endpoint security issues
- IBM is also in the process of deploying IBM Endpoint Manager for Mobile Devices across its entire mobile workforce of over **120,000 staff**
- IBM Endpoint Manager is being deployed across many global outsourced accounts

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IBM CIO Office On-boards 15,000 Devices the First Day After Deploying MobileFirst Protect

70,000+	users migrated in one month
$500,000	projected savings due to migrating to SaaS
48,000+	users registered in 15 days
200+	users per hour* in first couple of days
< 500	help desk calls – less than ½ of 1%

*on average

Top issues

1. Establishing Real Time Compliance on Endpoints
2. Current tools were not designed for this onslaught of attacks.
3. When a Breach occurs, you could end up in the news!

What should I do ?

1. Schedule a demo/trial: For Mobile we can turn your trial into production with a flip of a switch.
2. Get help from a well established vendor (many smaller companies go under)

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Why IBM?

IBM's Unified Device Mgt, is a UNIQUE solution in the market today

- True Cross platform solution: 90 supported OS'es: Unix, Linux, Mac, Windows and Mobile.
- Real Time Visibility and Control: distributed Intelligence. **This is NOT Scan and Poll!**
- 1 "Pane of glass" single console view for everything, across everything
- Untouched Scalability: 250,000 end points, 1 single management server.

Why does that matter? Who cares? And Why do we win?

- Whether server, desktop, or both: we typically replace 8-12 other agent based tools Tool consolidation addresses: Silo management, visibility gaps, and growing costs of multiple tools (one customer has 62 different tools to manage servers)
- Unified Device Management is extremely lightweight and fast to deploy: services impact is light and predictable
- Customers continue to struggle with security Threats. IBM is the cure!

Incumbent systems can't 'see' all endpoints – And Customers can't fix what they can't see!

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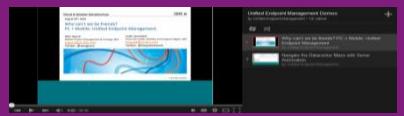
For more information

www.unifiedendpointmanagement.com

https://twitter.com/IBMEndpoint

https://www.youtube.com/IBMEndpoint/playlists



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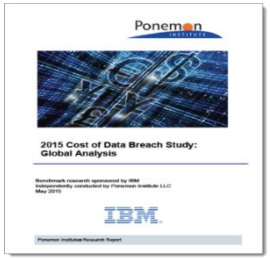
2015 Cyber Security Intelligence Index



2015 Ponemon Cost of Data Breach
http://www.ibm.com/security/data-breach

Download: IDC Canada: Determining How Much to Spend on your IT Security.
https://ibm.biz/IDCWPEN

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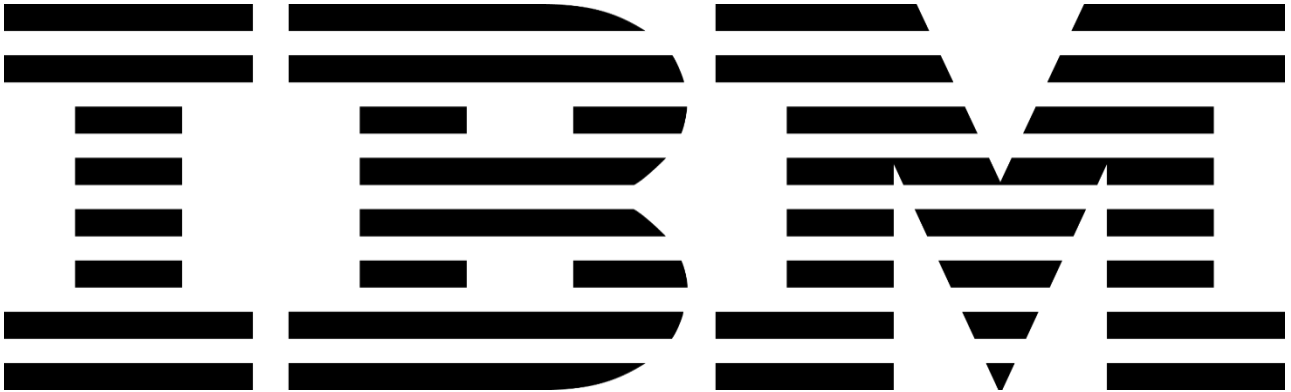

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