### **SolutionsConnect**

A New Era of Smart

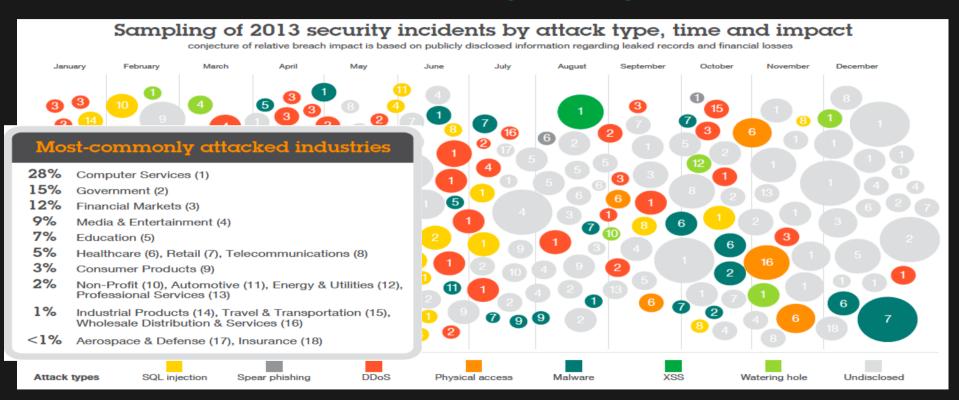
# Threat-Aware Identity and Access Management

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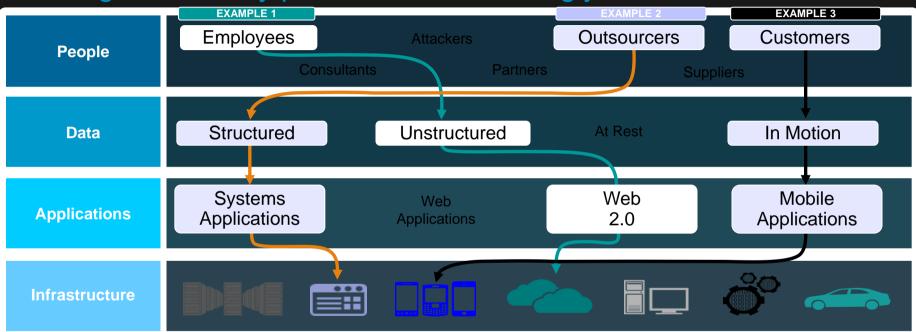


# X-Force Research: Attackers are taking advantage of the human factor





# Defining the security perimeter is increasingly difficult...



- Complexity stems from interactions that spread across People, Data, Application and Infrastructure security domains
- Defense approach is shifting from "Secure the perimeter" to 'Thinking like an attacker'

1



# IBM Security: Delivering intelligence, integration and expertise across a comprehensive framework







# IBM offers a comprehensive portfolio of security products

Malware Detection

Trusteer

Rapport

#### **IBM Security Systems Portfolio**

Security Intelligence and Analytics							
QRadar	QRadar	QRadar	QRadar				
Log Manager	SIEM	Risk Manager	Vulnerability Manager				

# Advanced Fraud Protection Trusteer Pinpoint Trusteer Pinpoint Trusteer Mobile

ATO Detection

People	Data	Applications	Network <b>Inf</b> i	rastructure Endpoint
Identity Management	Guardium Data Security and Compliance	AppScan Source	Network Intrusion Prevention	Trusteer Apex
Access Management	Guardium DB Vulnerability Management	AppScan Dynamic	Next Generation Network Protection	Mobile and Endpoint Management
Privileged Identity Manager	Guardium / Optim Data Masking	DataPower Web Security Gateway	SiteProtector Threat Management	Virtualization and Server Security
Federated Access and SSO	Key Lifecycle Manager	Security Policy Manager	Network Anomaly Detection	Mainframe Security

#### **IBM X-Force Research**

Risk Engine



# Security is only as strong as its weakest link – People

55% of scam and phishing incidents are campaigns enticing users to click on malicious links

Social media is fertile ground for pre-attack intelligence gathering









Criminals are selling stolen or fabricated accounts



Mobile and Cloud momentum continues to break down the traditional perimeter and forces us to look at security differently Threat-aware Identity and Access Management become the key line of defense of the multiple perimeters



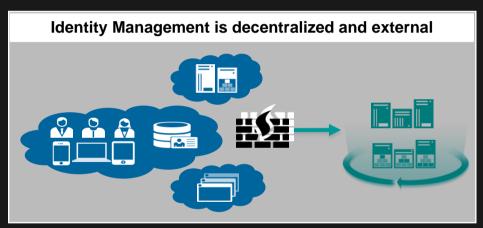
# Fundamental Shift around Identity & Access Management

Organizations are evolving the IAM controls for a Multi-Perimeter World

## The Current Enterprise

# The New Hybrid Enterprise

# Identity Management is centralized and internal



#### Administration

- Operational management
- Compliance driven
- Static, Trust-based

#### Assurance

- Security management
- Business driven
- Dynamic, context-based

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# Need for securing identities as a new perimeter with threat-aware Identity and Access Management

Safeguard mobile, cloud and social interactions

- Validate "who is who" when users connect from outside the enterprise
- Enforce proactive access policies on cloud, social and mobile collaboration channels

Deliver intelligent identity and access assurance

- Enable identity management for the line of business
- Enhance user activity monitoring and security intelligence across security domains



Prevent insider threat and identity fraud

- Manage shared access inside the enterprise
- Defend applications and access against targeted web attacks and vulnerabilities

Simplify identity silos and cloud integrations

- Provide visibility into all available identities within the enterprise
- Unify "Universe of Identities" for security management



## Leverage a Graded Trust Model to Achieve Secure Transaction

Safeguard mobile, cloud and social interactions



Identity-aware application access on the mobile device

Strong Authentication, mobile SSO, session management for secure user interactions

Context-based access and stronger assurance for transactions

**Transparently enforce** security policies for mobile applications

Enforce security polices without modifying the applications



## Evaluate and prioritize scenarios for Identity as a Service (From the Cloud)

Safeguard mobile, cloud and social interactions



Offer open standards-based Login and SSO as an API for new application development

Enable policy-based multi-factor authentication (i.e. Password, OTP, certificate)

Ability to support Reporting and Analytics for audit and compliance

Launch Self-service and Single Sign-On to enterprise, SaaS & personal applications

**User on/off boarding - Enterprise directory integration, Integration with social identity providers (BYO-Id)** 

Ability to support Access certification to enterprise and Cloud/SaaS applications



# Securing mobile identities

An international banking organization targeting mobile user access for employees and end users

Safeguard mobile, cloud and social interactions

North American entity secures user access from mobile and web channels

10,000

internal users by end of 2013



#### Business challenge

- Secure employees and contractors access to web and mobile apps
- Rollout new mobile apps; ensure end user access from mobile devices
- Eliminate passwords as a weak link to enforce access to web and mobile

#### Solution benefits

- Centralized user access control across web and mobile channels consistently
- Reduced IT cost with self-care, single sign-on and session management
- Introduced risk-based access and multi-factor authentication for 10M+ users



# Address Insider Threat with Privileged Identity Management

Prevent insider threat and identity fraud



Eliminate the need to share passwords for privileged users and shared accounts with automated privileged identity management

Ensure compliance and audit support with session recording and replay support

Leverage common Identity management and support for applications and resources

Strong authentication controls and SSO for high-risk account access

Audit privileged user activity and sensitive data access

Address compliance, regulatory and privacy requirements

Secure user access and content against targeted attacks

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# Leading provider of information technology, consulting, and business process outsourcing services villeged ID's:

Prevent insider threat and identity fraud

**500** 

privileged administrator users







#### Business challenge

- Increased security risks as a result of limited privileged activity monitoring
- Exposure to the insider threat due to enterprise-wide use of shared privileged IDs
- Audit and Compliance issues: Poor privileged user management and lack of audit trail for privileged user access

#### Solution benefits

- Streamlined and automated privileged user management
- Audit trail and monitoring of privileged access to all critical systems
- Secure management of shared privileged IDs and their passwords
- Full support of periodic privileged access recertification for audit and compliance purposes



# "Untangle" Identity Silos to Support Business Expansion

Simplify identity silos and cloud integrations



**Universal directory** to transform identity silos to support disparate identity sources

**Scalable directory backbone** leveraging existing infrastructure for enterprise-wide Identity and Access Management

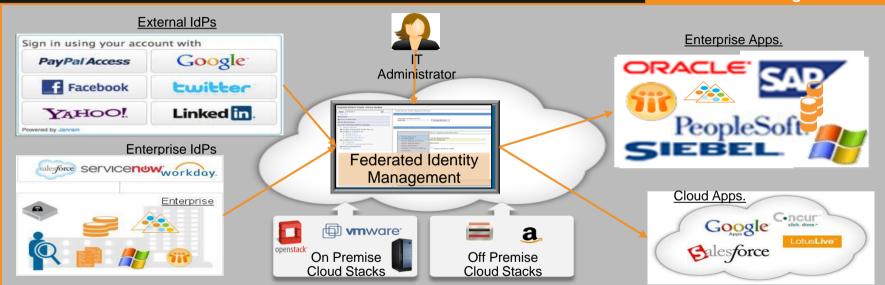
**Sourcing of identities and attributes** for enterprise applications, Cloud/SaaS integrations leveraging open standards.

**In-depth user insight** with reporting and SIEM integration



## Leverage open standards from Enterprise to Cloud integrations

Simplify identity silos and cloud integrations



Support multiple deployment patterns (private, hybrid); Managed services

Ability to integrate with Enterprise Identity repositories and external IDs (e.g. Social)

Federated SSO to Enterprise and Cloud /SaaS Applications

Custom integrations by levering business metadata in an enterprise (e.g. SCIM, STS)

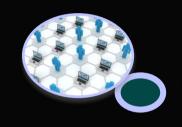


# Directory Services to help Distributed Collaboration Government entity to grow quickly to 800K application users

Simplify identity silos and cloud integrations

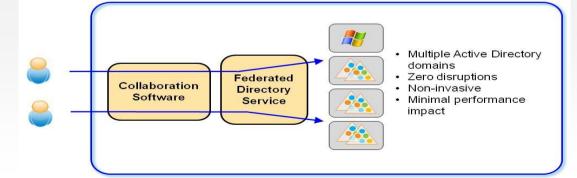
Improved solution design and integration allowed the environment to grow from 40,000 users to

800,000+users











# Deliver Business Driven Compliance with Identity Management

Deliver intelligent identity and access assurance



**Empower Line of Business** to manage and define the user access for governance, risk and compliance

Reduce cost of enterprise identity management with centralized policy, integrated role and identity lifecycle management

**Improve user assurance** with strong authentication integration and closed-loop user activity monitoring

**Effective and actionable compliance** with centralized identity and access management across the enterprise



# Driving an intelligent Identity and Access Assurance program

Large paint company servicing customers in over 65 countries.

**Deliver intelligent identity** and access assurance

Governing user access and compliance in 17 operating countries

8,500 Employees, interns, contractors, and privileged administrators

25,000 Business partners and services providers

## Identify Control Monitor User Activity Access

#### Business challenge

- Manage the rising IT risks and cost from manual provisioning and changing access to 40+ applications, 50+ databases, 300+ servers, 200+ network and security devices
- Demonstrate compliance in different countries with central auditing and reporting
- Govern privileged administrator shared access and audit

#### Solution benefits

- Reduced help-desk costs while enhancing governance and visibility of all internal and external user access consistently
- Provided zero-day and zero-based provisioning with federated access to resources
- Robust technology with integration capabilities across diverse applications and IT services (SAP, Portal, Informatica, Microsoft, WebMethods, WebSphere, and Oracle)



# Adopt a maturity model to transform IAM program

Optimized	Security Intelligence: User activity monitoring, Anomaly detection, Identity Analytics & Reporting						
	IAM Integration with GRC Fine-grained entitlements	Integrated Web & Mobile Access Gateway Risk / Context based Access	Governance of SaaS applications IAM as a SaaS	IAM integration with GRC Risk/ Context-based IAM Governance	Risk / Context-based Privileged Identity Mgmt		
Proficient	Closed-loop Identity & Access Mgmt Strong Authentication	Strong Authentication (e.g. device based) Web Application Protection	Bring your own ID Integrated IAM for IaaS, PaaS & SaaS (Enterprise)	Closed-loop Identity and Access Mgmt Access Certification & fulfillment (Enterprise)	Closed-loop Privileged Identity Mgmt		
Basic	Request based Identity Mgmt Web Access Management	Federated SSO  Mobile User Access  Management	Federated access to SaaS (LoB) User Provisioning for Cloud/SaaS	Access Certification (LoB)  Request based Identity Mgmt.	Shared Access and Password Management		
	Compliance	Mobile Security	Cloud Security	IAM Governance	Privileged IdM		



# Introducing IBM Threat-Aware Identity and Access Management

#### **NEW**

Safeguard mobile, cloud and social interactions

Access Manager for Mobile

Access Manager for ESSO

WorkLight

#### **NEW**

Prevent insider threat and identity fraud

Privileged Identity Manager

Access Manager for Web

Trusteer

#### NEW

Simplify identity silos and cloud integrations

Directory Integrator & Server

Federated Identity Manager

SoftLayer

# NEW

Deliver intelligent assurance

**Identity Manager** 

Identity and Access Assurance

**QRadar** 

Enabling organizations to secure identity as a new perimeter with Threat-aware Identity and Access Management