

IBM SolutionsConnect 2015

Seize the Moment. Dive into Next Generation Technologies.

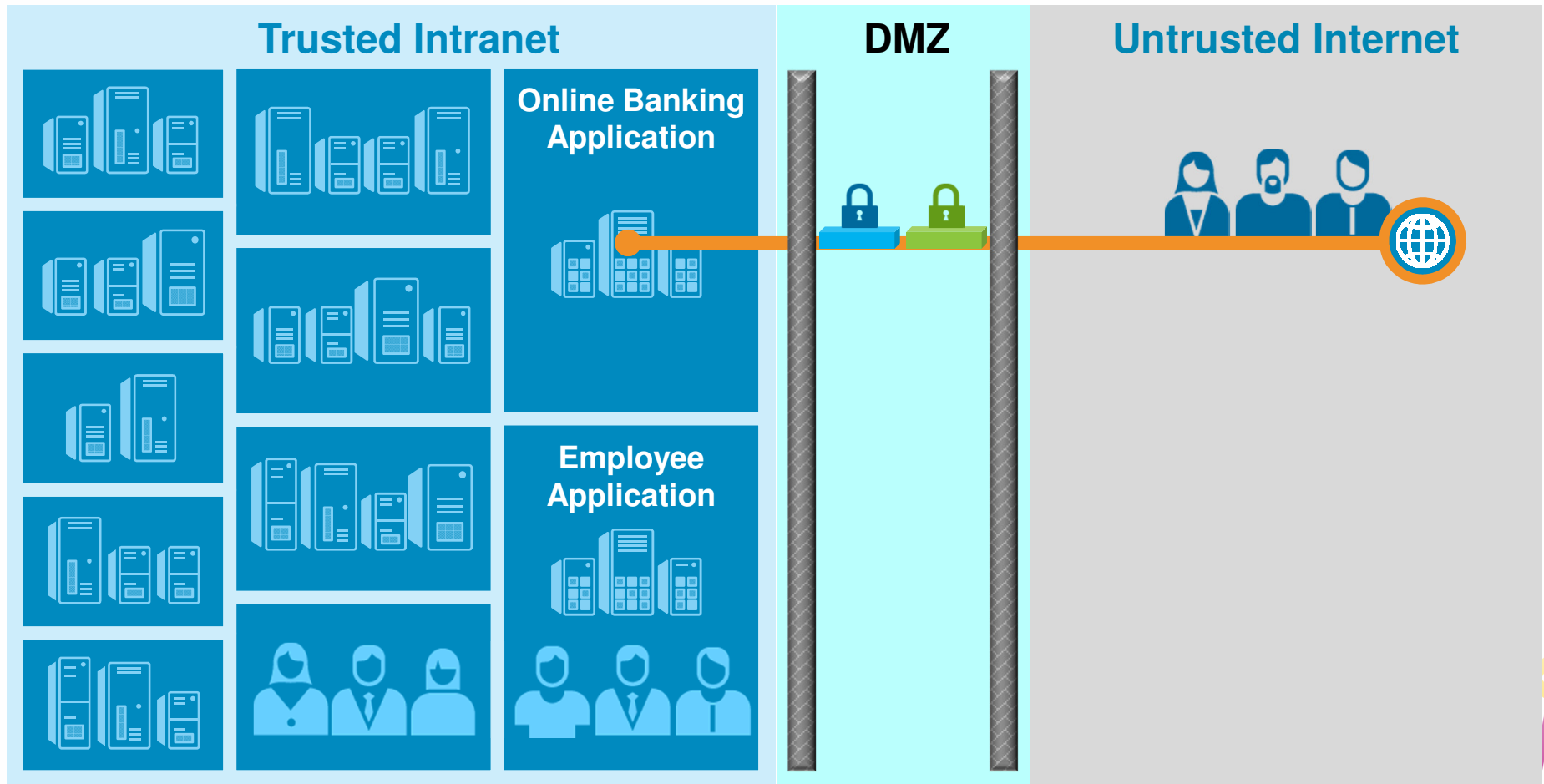
Cloud Security

Addressing the Elephant in the Room.

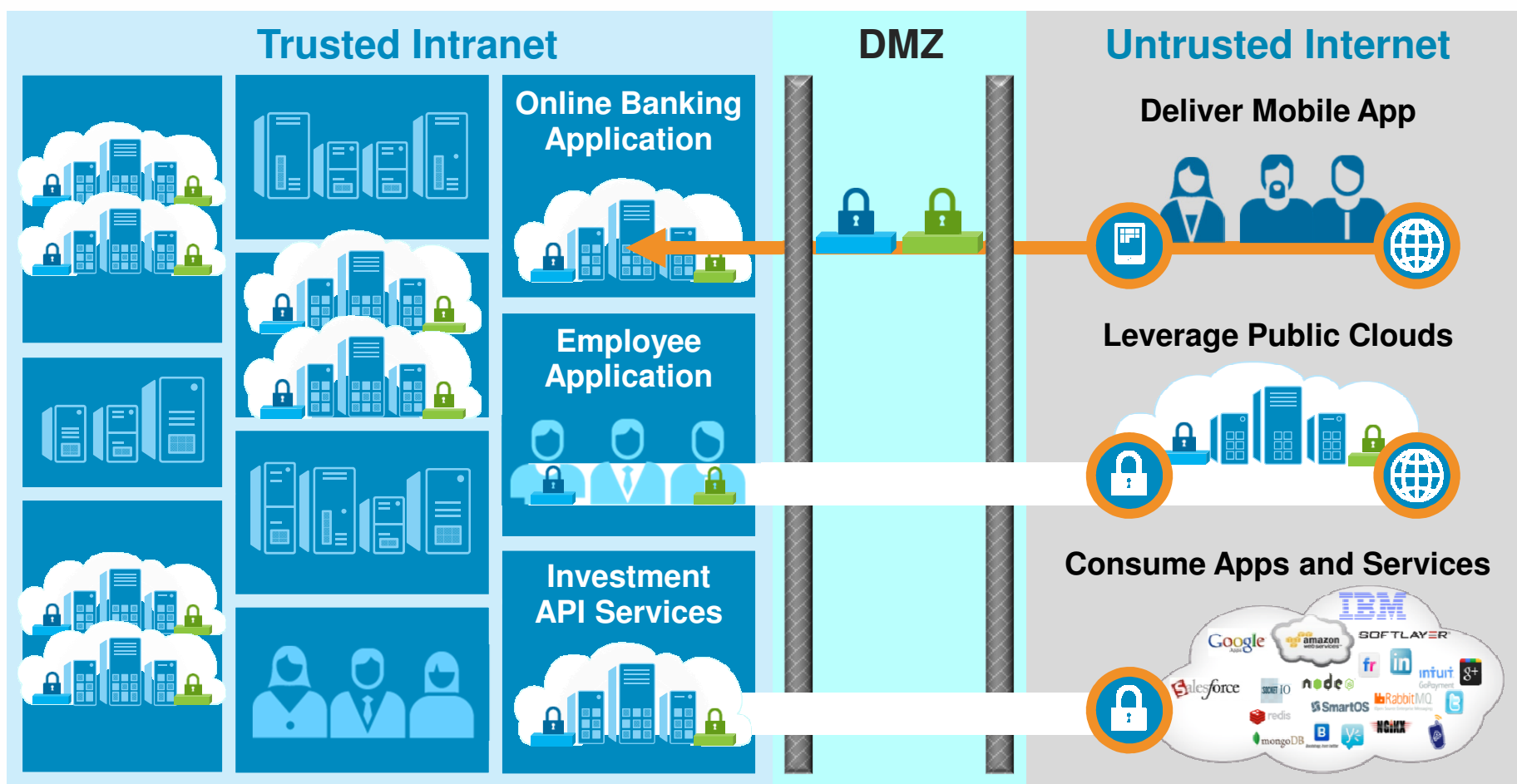
Collin Penman



Traditional IT infrastructures *IT security is obtained through the Demilitarized Zone (DMZ)*

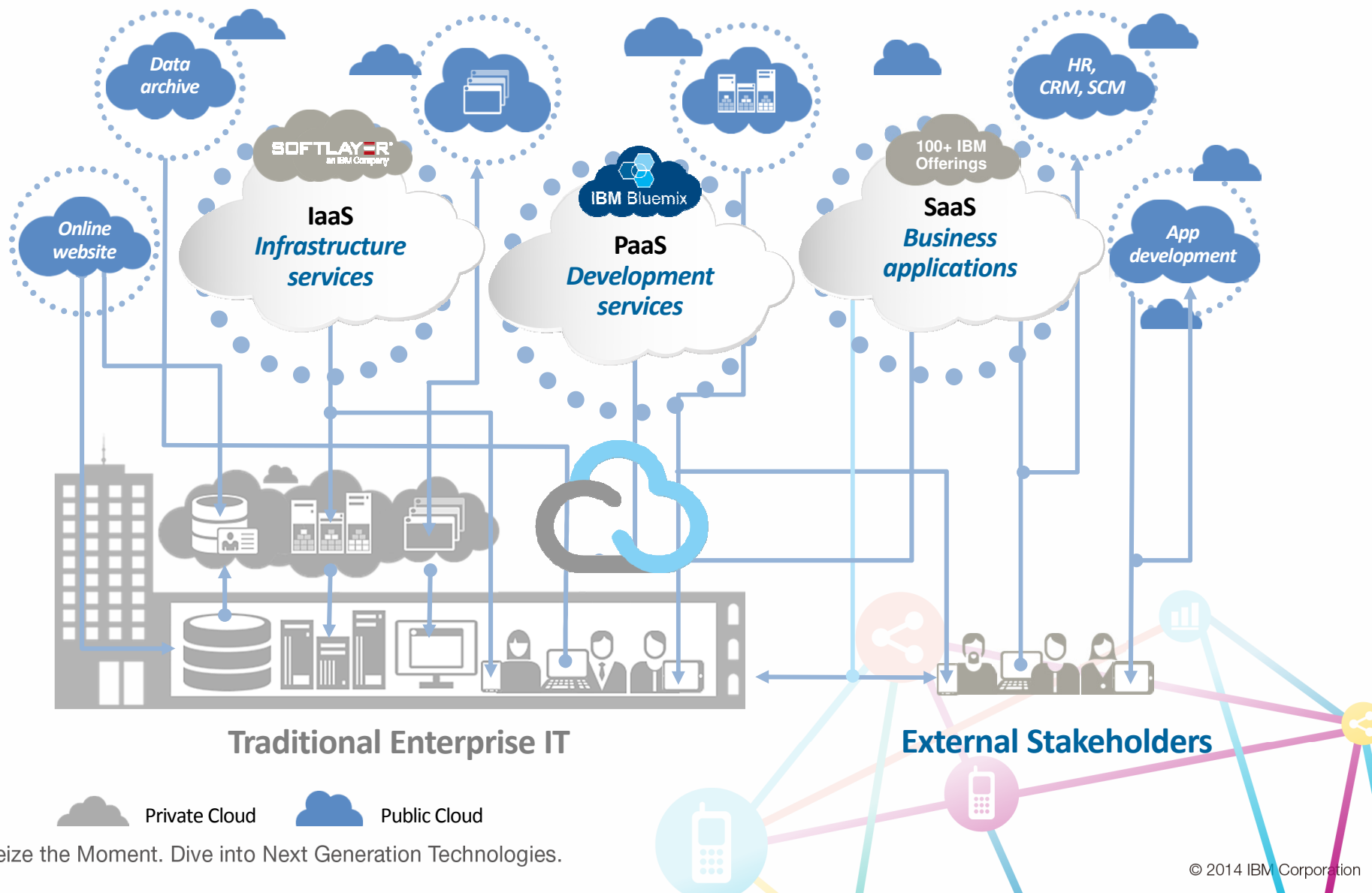


Cloud IT infrastructure - *Moving toward enterprise security obtained through “application zones”*



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Cloud is rapidly transforming the enterprise



Security is in fact, a key inhibitor for growth in cloud adoption



73%

of firms discovered cloud usage outside of IT or security policies.¹

50%

of firms are worried about unauthorized access or leakage of sensitive data.²

75%

of security breaches take days, weeks or even months to discover.³

- 1. 2013, IDC US Cloud Security Survey
- 2. Sept 2013, Information Week Cloud Security and Risk Survey
- 3. Verizon 2014 Data Breach Investigations Report

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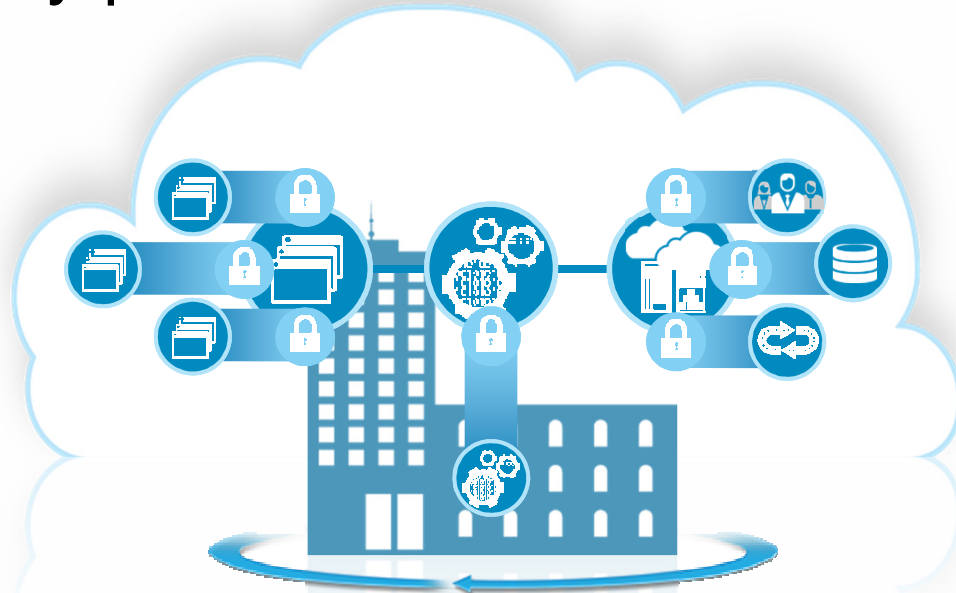


Cloud is an opportunity to radically transform security practices



Traditional Security

Manual, static,
and reactive



Cloud-enhanced Security

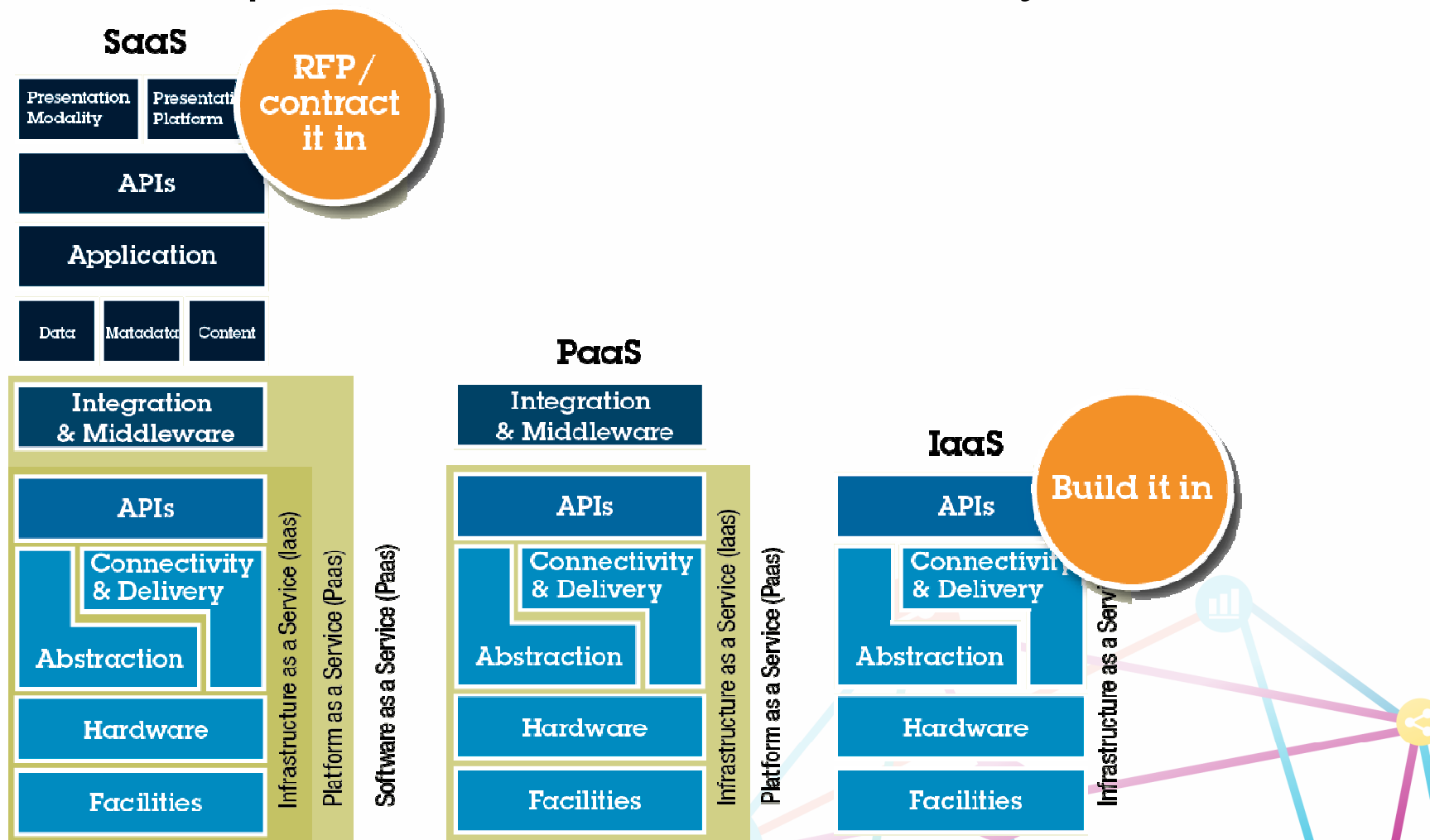
Standardized, automated,
customizable, and elastic

IBM

Point of View:

*Cloud security is an opportunity
to improve defenses and reduce risk*

Know your and your provider's security responsibilities at each cloud layer

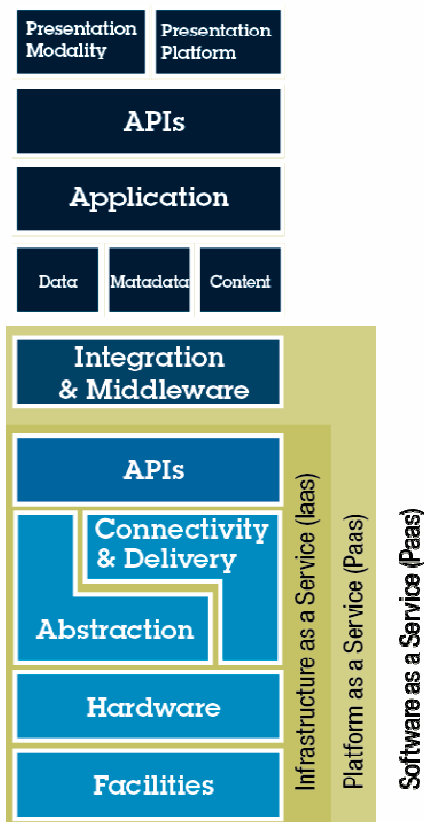


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Your strategy begins by assessing compliance and controls



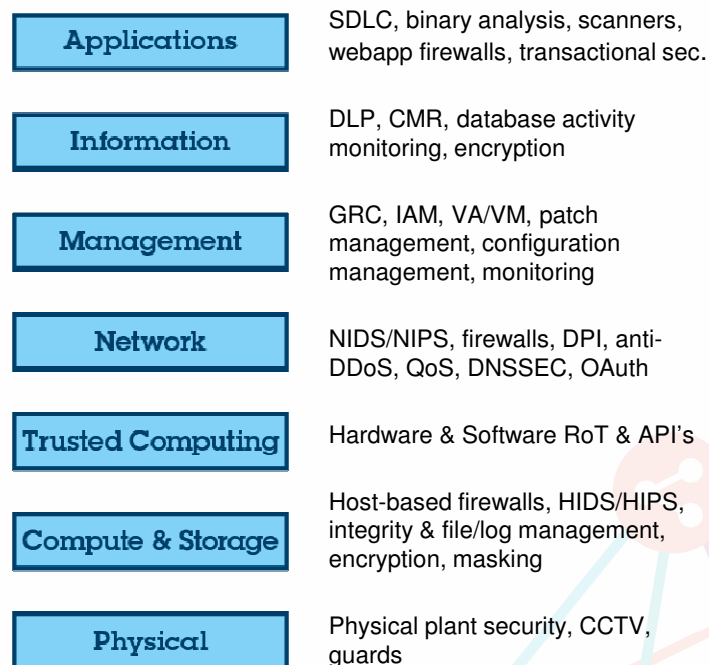
Cloud Model



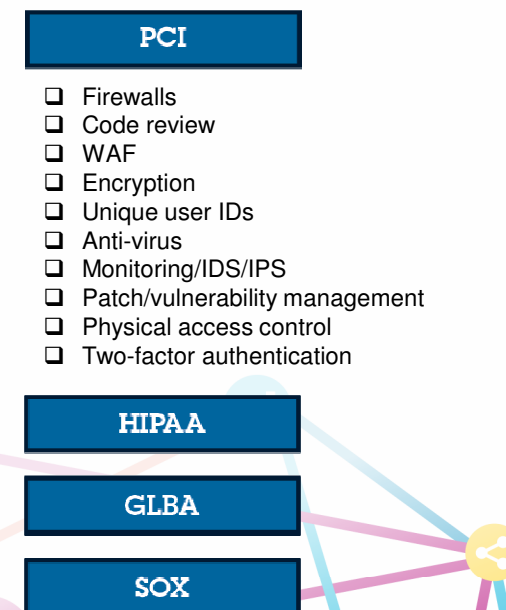
Source: The Cloud Security Alliance

Example: PCI Compliance

Security Control Model



Compliance Model



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Your focus needs to be on three imperatives for improving security

How can I understand who is accessing the cloud from anywhere, at anytime?

Govern the usage of cloud



“Going to the cloud gives me a single choke point for all user access – it provides much more control.”

How can I fix vulnerabilities and defend against attacks before they're exploited?

Protect workloads and data in the cloud



“Cloud gives me security APIs and preconfigured policies to help protect my data and workloads”

How can I obtain a comprehensive view of cloud and traditional environments?

Detect threats with visibility across clouds



“I can take advantage of centralized cloud logging and auditing interfaces to hunt for attacks.”

Where should customers turn?

Security Intelligence and Vulnerability Management						
Fraud	Identity & Access	Data	Applications	Network	Endpoint	Mobile
Managed Security Services						

IBM is uniquely positioned to offer Security for the Cloud



IBM Cloud

- 40** IBM global data centers *expanded from 25*
- 15** Countries and 5 continents covered by IBM Cloud
- 500** IBM developers working on cloud open source
- 40K+** IBM Cloud experts with deep industry knowledge
- 80%** Of Fortune 100 companies use IBM Cloud capabilities
- 30K+** IBM Cloud clients
- 300K+** Trading communities connected to IBM's B2B cloud network
- 10B+** Commuters get to work with the help of IBM Cloud

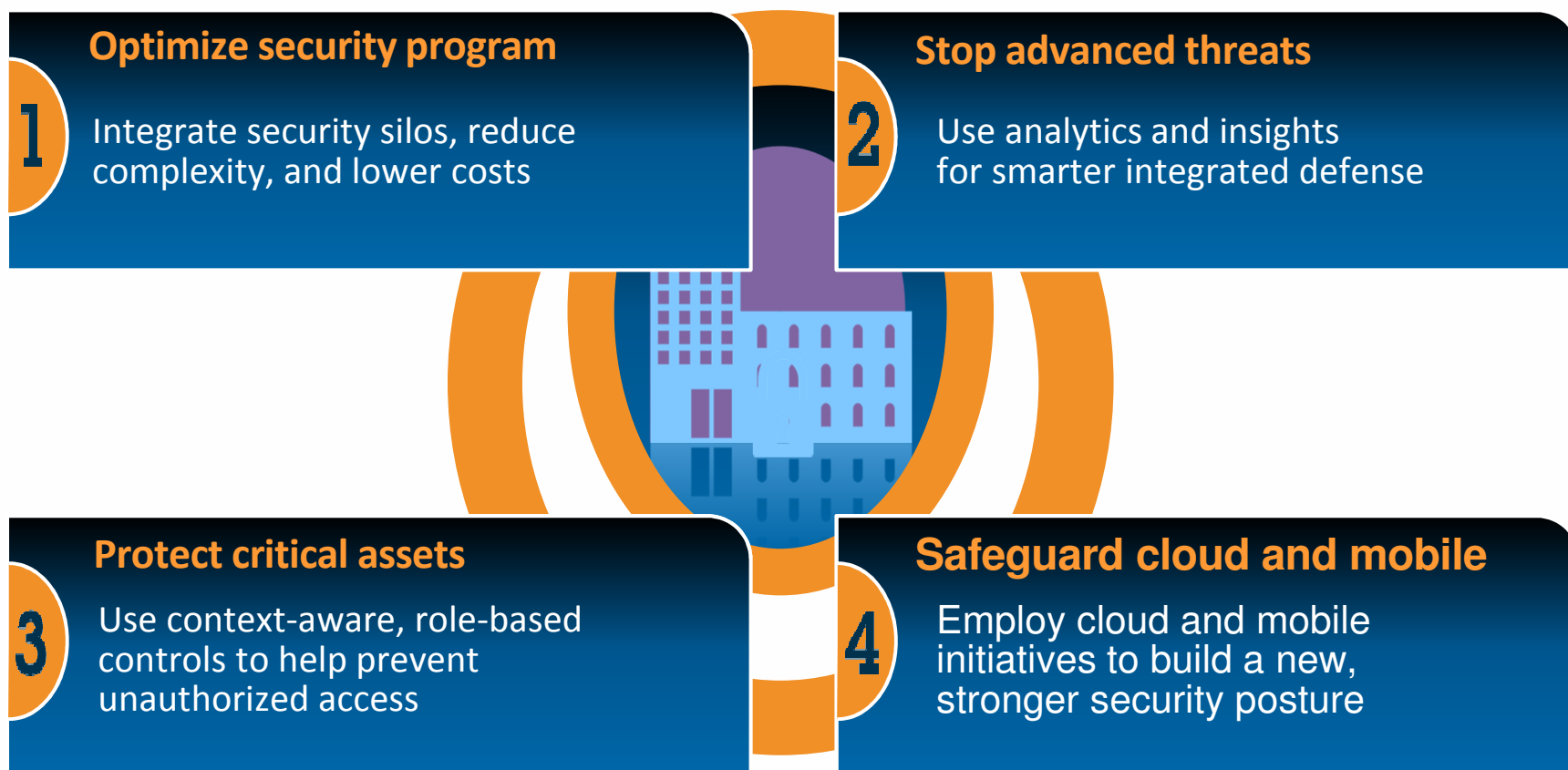


IBM Security

- 13** Security market segments with industry leading capabilities
- 10** IBM Security Operations Centers (SOCs)
- 133** IBM Security supported countries
- 6K+** IBM Security professionals worldwide
- 10K+** IBM Security customers worldwide
- 270M+** Endpoints protected from the cloud
- 20B** Customer security events monitored each day
-  Industry leading security research team



IBM Security will be essential to clients in 2015



1 Seize the Moment. Dive into Next Generation Technologies.

1

Optimize your security program



Assess and transform your security maturity

Build a next generation security operations capability

Get help from the experts



2

Stop advanced threats



Protect against fraud and targeted attacks

Detect advanced threats with security intelligence

Deploy integrated security



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3

Protect critical assets



Use context-aware controls to prevent unauthorized access

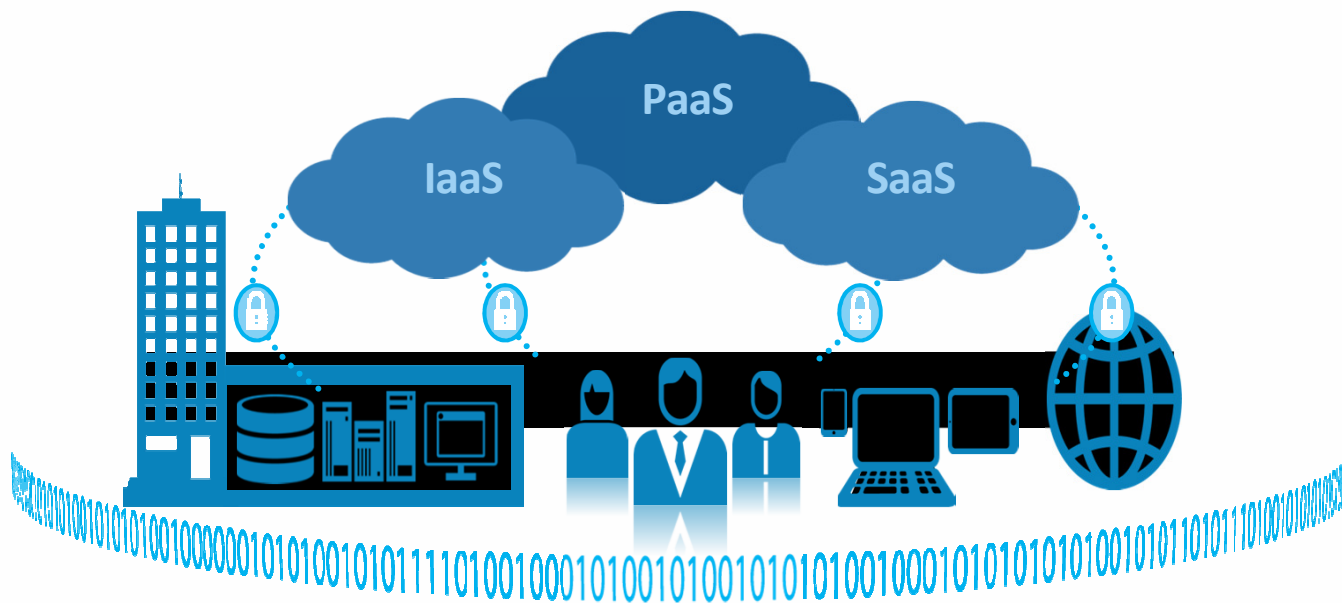
Identify and protect your “crown jewels”

Manage application security risk



4

Safeguard cloud and mobile



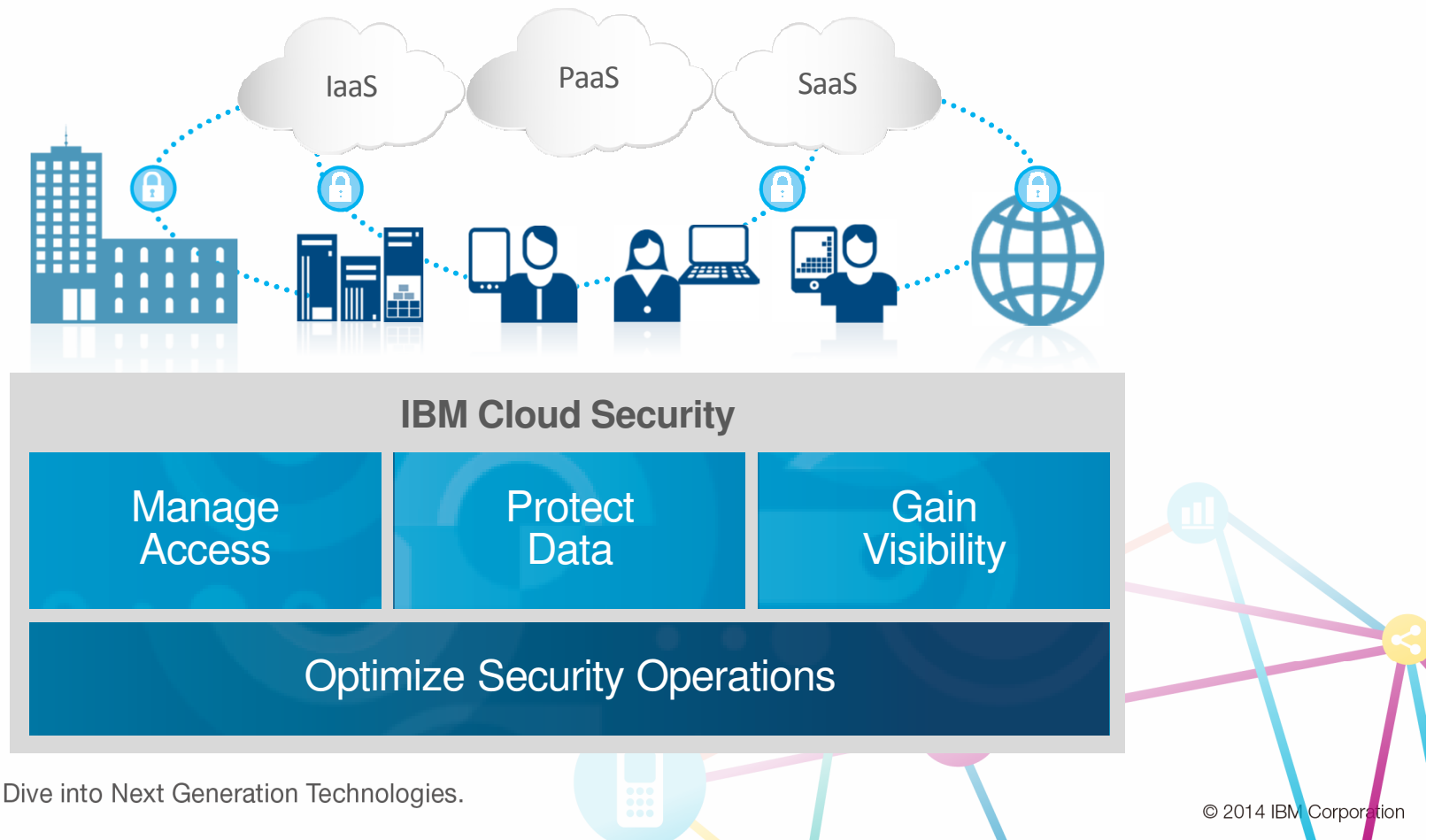
Maintain cloud visibility and control

Help protect the mobile enterprise



Introducing the world's most comprehensive portfolio of cloud security products and services

IBM Cloud Security



Seize the Moment. Dive into Next Generation Technologies.

Help securely connect people, devices, and applications to the cloud



Manage identity and access with speed

NEW! Cloud Identity Services

Easily onboard and manage users through IBM-hosted infrastructure and expertise



Safeguard access to cloud-deployed apps

NEW! Cloud Sign On Service (for Bluemix)

Allow developers to quickly introduce single sign on to web and mobile apps via APIs with OpenID, OAuth 2.0 support



NEW! Cloud Access Manager (for SoftLayer)

Defend cloud applications with pattern-based protection, multi-factor authentication, and context-based access control



Govern privileged user access

NEW! Cloud Privileged Identity Manager (for SoftLayer)

Audit privileged SoftLayer accounts and track app-to-app credentials

Manage Access

Protect Data

Gain Visibility

Optimize Security Operations



Identify vulnerabilities and prevent attacks targeting sensitive data



Protect enterprise data in cloud repositories

NEW! Cloud Data Activity Monitoring (for SoftLayer and AWS)

Automatically discover, classify, and assess, monitor, and audit sensitive data access in cloud repositories

NEW! Cloud Data Encryption and Key Management (partner offerings for Bluemix and SoftLayer)

Store and encrypt data in data services and manage keys on Bluemix (with Cloudant or Analytics Warehouse Service)

Encrypt data and manage keys on SoftLayer (with Vormetric)



Discover vulnerabilities in cloud and mobile apps

NEW! Cloud Web and Mobile Application Analyzer Services (for Bluemix)

API-based access to application scanning services to help developers easily identify and remediate vulnerabilities in web applications (Dynamic Analyzer) and mobile apps (Mobile Analyzer) prior to placing them into production or app stores

Manage Access

Protect Data

Gain Visibility

Optimize Security Operations

Continuous monitoring for security breaches and compliance violations

Dynamically analyze security posture of users, apps, networks, and other assets across the enterprise and in the cloud

NEW! Cloud Security Intelligence
(QRadar support for hybrid clouds and SoftLayer)

- Integration with multiple cloud services
 - IBM SoftLayer
 - Amazon CloudTrail
 - Salesforce.com
 - Zscaler
 - Qualys
 - CloudPassage
 - IBM Security Trusteer Apex
 - OpenStack
- Deployment on SoftLayer and/or Amazon Web Services for visibility across physical, virtual, and cloud infrastructures



Optimize security intelligence and operations for the cloud

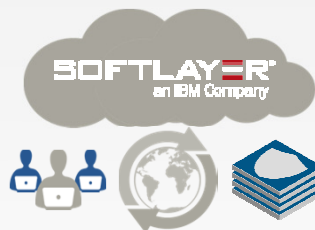
Deploy intelligence-driven security maturity across all environments



NEW! Security Intelligence and Operations Consulting Services

Assess security practices, plan, design and build out world-class Security Operations Centers to extend security to the cloud

IBM security experts to help keep your cloud secure and compliant



NEW! Cloud Security Managed Services (for SoftLayer)

Highly trained analysts in global Security Operations Centers manage security and provide emergency response services

Enhanced monitoring and correlation of hybrid cloud security events



NEW! Intelligent Threat Protection Cloud

Consolidated view using big data, visualization, and intelligent threat analysis with expert knowledge to respond to security incidents

Manage Access

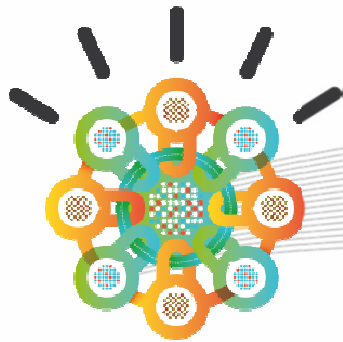
Protect Data

Gain Visibility

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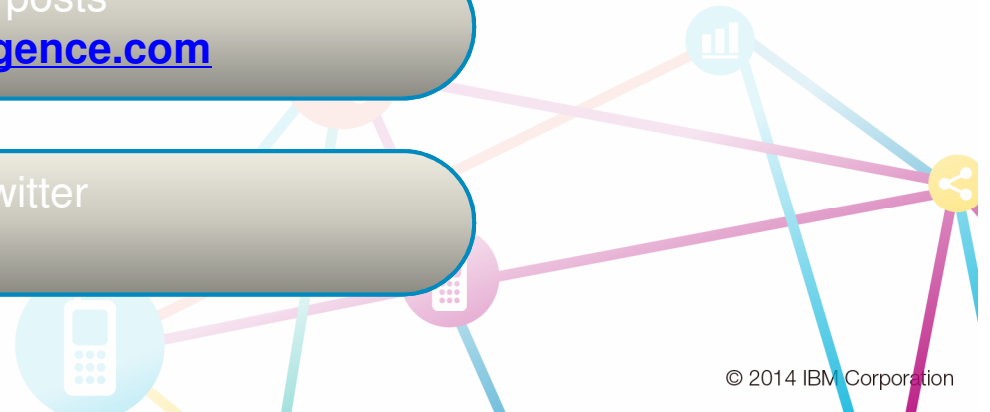
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Thank You

