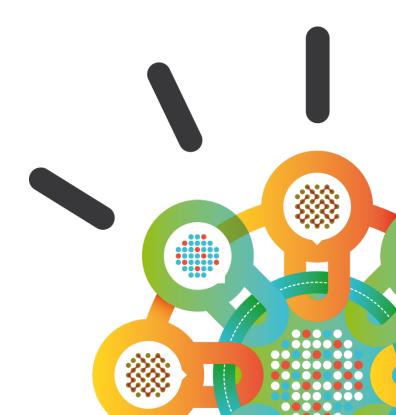
Security Intelligence. Think Integrated.

Powering Security and Easy Authentication in a Multi-Channel World

Archit Lohokare Global Product Manager IBM Security Systems





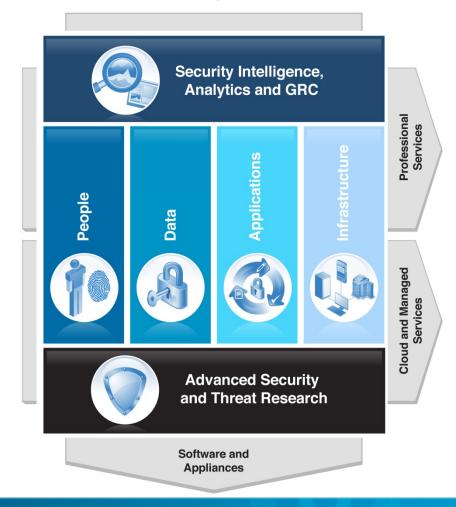
IBM Security Systems division is one of the largest security software focused vendors in the world



IBM Security Systems

- Only vendor in the market with end-to-end coverage of the security foundation
- \$1.8B investment in innovative technologies
- 6K+ security engineers and consultants
- Award-winning X-Force® research
- Largest vulnerability database in the industry



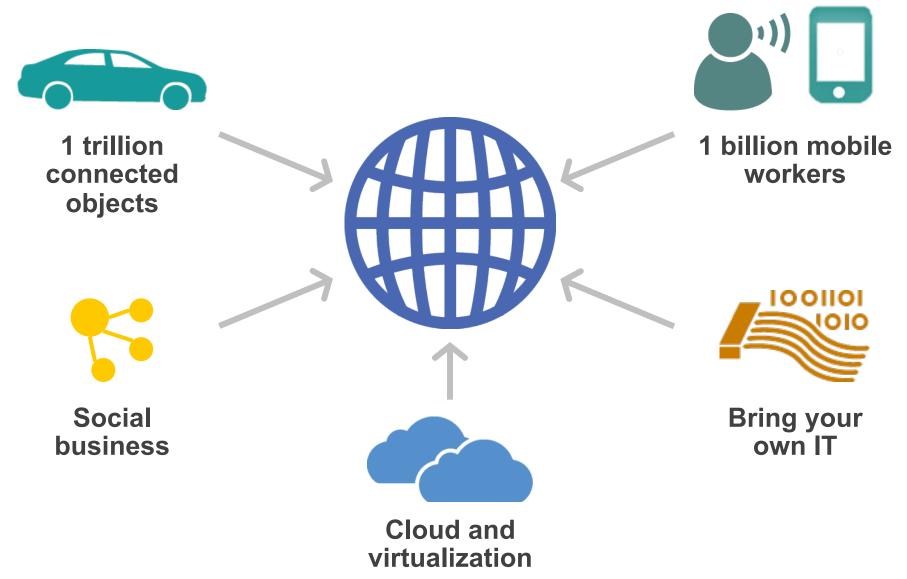


Intelligence Integration Expertise

IBM is ranked #1 by IDC in Identity and Access Management (IAM) and Security & Vulnerability Management (SVM)

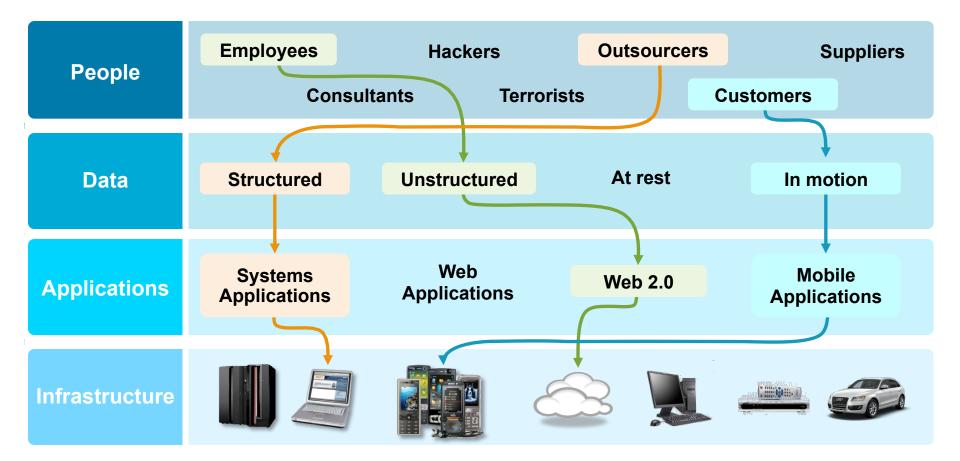


New Technologies → Multi-Perimeter World



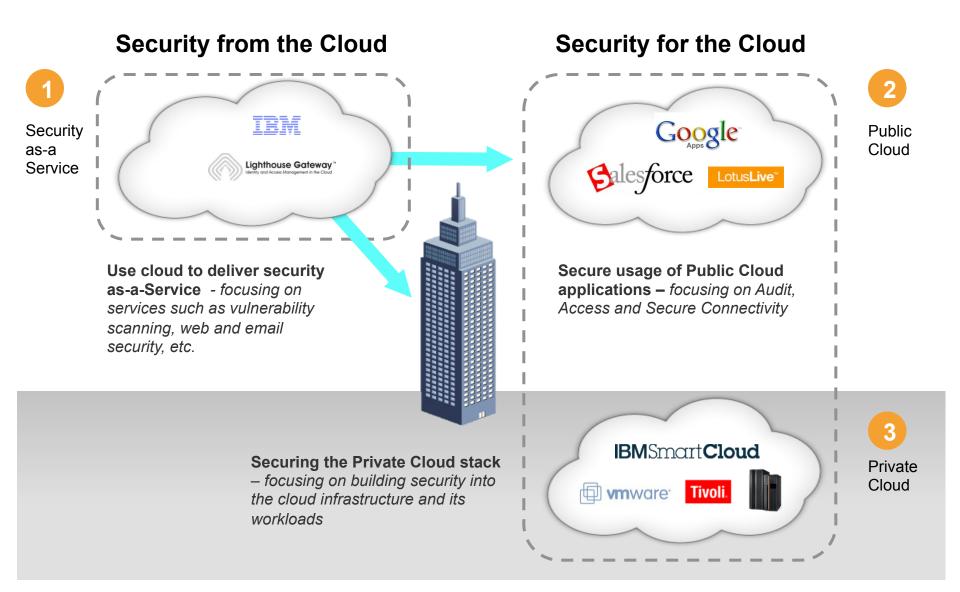


Solving security issues is a complex, four-dimensional puzzle



Attempting to protect the perimeter is not enough – siloed point products and traditional defenses cannot adequately secure the enterprise

We see three prominent cloud security scenarios to help customers





The IBM Mobile Security Strategy secures the path that data travels through



Device Management

Security for endpoint device and data

Network, Data, and Access Security

Achieve visibility and adaptive security policies

Application Layer Security

Develop and test applications

IAM continues to be key part of next wave of security technology innovation

Advanced Analytics

Sophisticated, targeted attacks designed to gain continuous access to critical information are increasing in severity and occurrence



Advanced Persistent Threats Stealth Bots Targeted Attacks Designer Malware Zero-days

> Identity & Access Management

Mobile Computing

Securing employee-owned devices and connectivity to corporate applications are top of mind as CIOs broaden support for mobility



Cloud Computing

Cloud security is a key concern as customers rethink how IT resources are designed, deployed and consumed

IBMSmartCloud

Calesforce

🗊 **vm**ware[.]

Regulation and Compliance

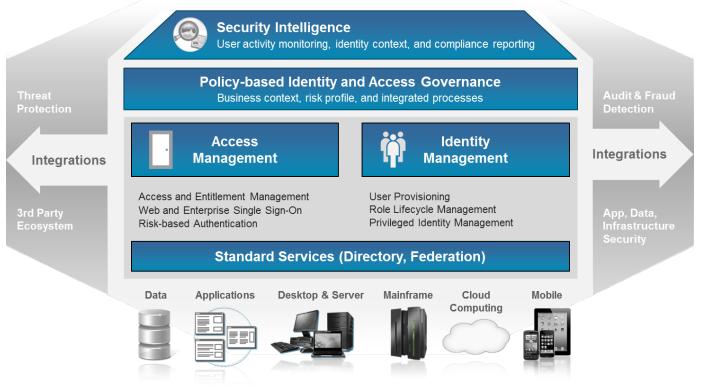
Regulatory and compliance pressures are mounting as companies store more data and can become susceptible to audit failures







IBM Next Generation Identity and Access Management Strategy



Key Themes

Standardized IAM and Compliance Management

Expand IAM vertically to provide identity and access intelligence to the business; Integrate horizontally to enforce user access to data, app, and infrastructure

Secure Cloud, Mobile, Social Interaction

Enhance context-based access control for cloud, mobile and SaaS access, as well as integration with proofing, validation and authentication solutions

Insider Threat and IAM Governance

Continue to develop Privileged Identity Management (PIM) capabilities and enhanced Identity and Role management



Secure user access with IBM's Next Generation Access Management

IBM Security Access Manager for Web

- User access + integrated web content protection
- New Hardware Appliance (Access Manager Proxy)
- Highly scalable web access management
- Lower TCO and easy to deploy 3rd party integration

IBM Security Access Manager for Cloud & Mobile*

- Federation and built-in Risk-based Access control
- Ease of SaaS / Cloud SSO with out-of-box Integration
- Entitlement management with risk-based access policy support and new policy simulator for ease of deployment



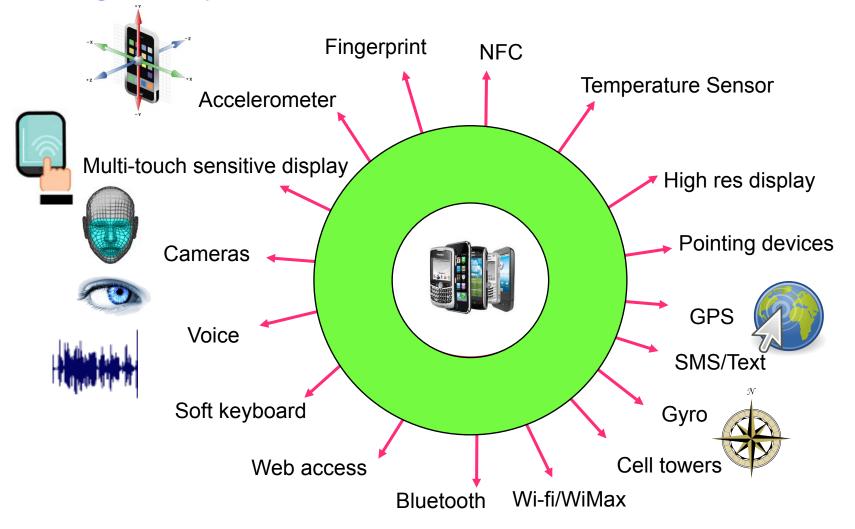
Web Access & Application Protection (software, virtual, HW appliance)



Federated, Risk-based Access



Smartphones: Extremely Rich in Channels and Modalities that can be leveraged to improve users' assurance

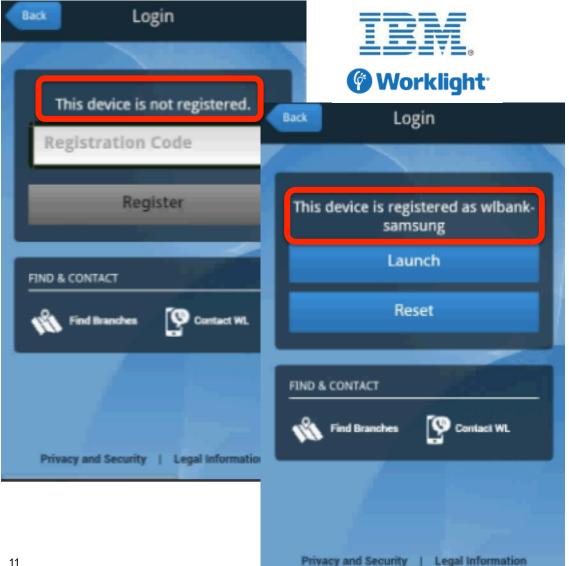




Build secure access into the DNA of native and hybrid mobile apps

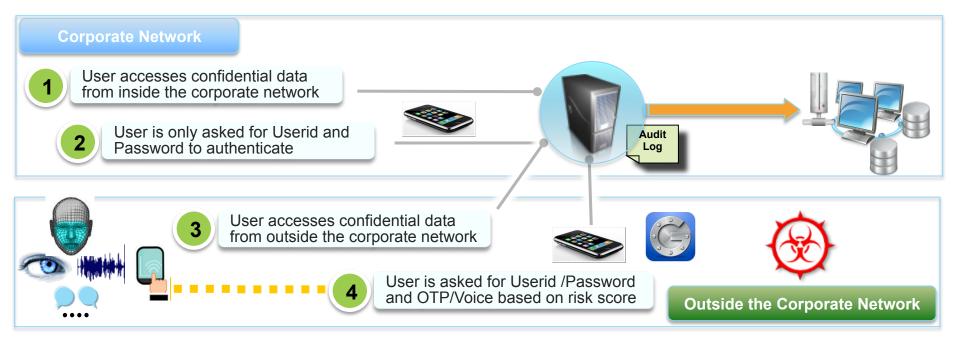
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- Secure device registration and fingerprinting using OAuth 2.0 for IBM Worklight **Applications**
- Reduce risk of mobile app • fraud using Risk-based Access
 - Increased security and flexibility for mobile app authentication with built-in OTP and Google Authenticator support

Context-aware access to secure mobile user access can be strengthened by Voice Biometrics



- Risk-based Access feature to determine and score risk levels using user attributes and real-time context (e.g. location, device)
- Enforce mobile user access based on risk-level (e.g. permit, deny, step-up authenticate)
- Support mobile authentication with built-in One-Time Password (OTP) and provide ability to integrate with 3rd party strong authentication vendors, as needed

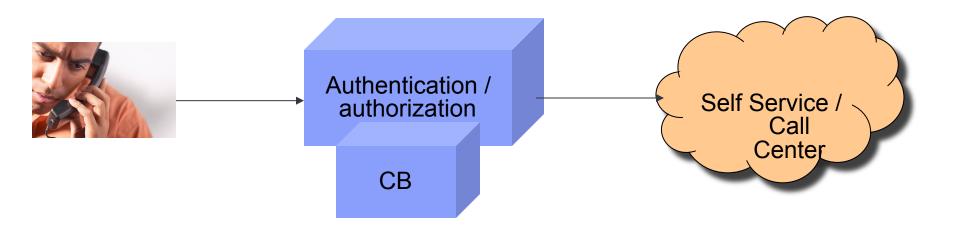




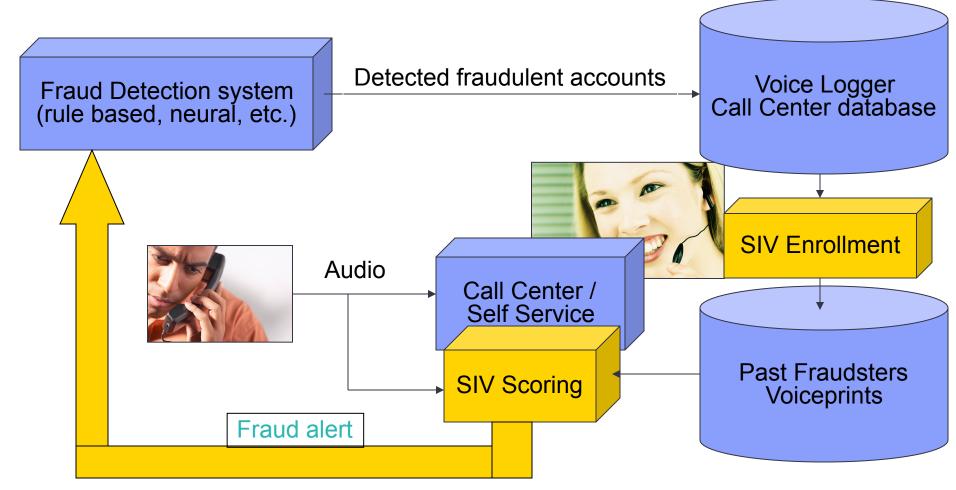
A Few Key Scenarios

Phone Channel / Scenario 1: Automated User Authentication and Authorization

- User calls a VRU self service application, or calls a call center and goes through the automated system
- Value add of using CB:
 - Faster user authentication of true users
 - Higher fraud detection rate
 - Ability to authenticate and authorize simultaneously



Phone Channel / Scenario 2: Offline fraud detection - Detecting repeating fraudsters

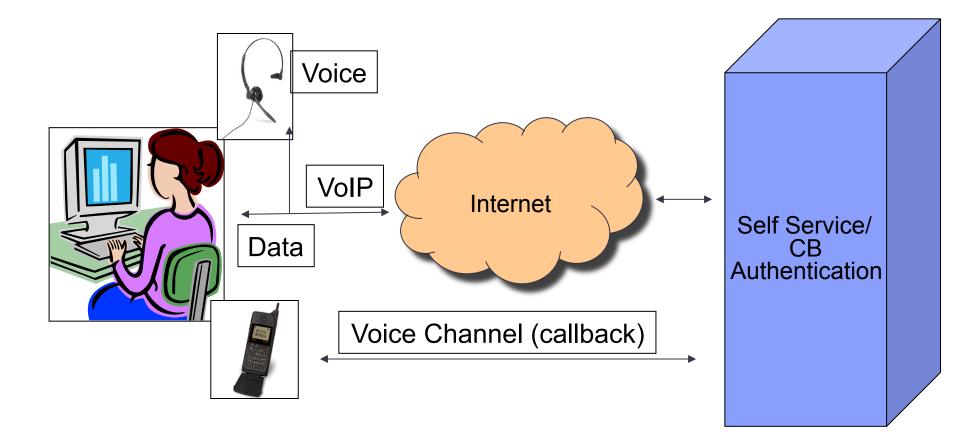


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Internet Channel: Data, VoIP and Callback Scenarios



Appropriate CB policy can also handle No-Voice (Data-Only) authentication

Scenario 1: One-time registration with OAuth

OAuth-enabled Worklight banking application.

Before

- User credentials are not entered or stored on the device.
- User is not required to authenticate each time the application opens.
- Revocation is possible on a application and per-device basis.



After

Scenario 2: Risk-based access policy and strong authentication

- Transactions < \$100 are allowed with no additional authentication
- User attempts transfer of amount >= \$100 requires strong authentication

