Secure mobile transactions: weakest link or safest bet?

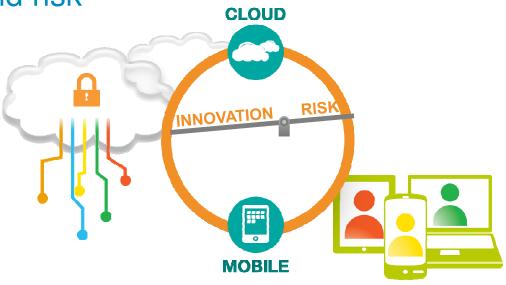
Avi Dayan R&D Engineer Security Researcher @ AppScan Lab Israel







Customers are faced with challenge of balancing innovation and risk



- Cloud and mobile create opportunities for enhanced security
- 2 IBM security portfolio enables clients to innovate with confidence
- IBM mobile security portfolio enables clients to manage mobile device, application and transactions



Agenda

- Mobile Security Landscape and Strategy
- IBM Mobile Security Solutions
 - Protect the
 - Device
 - Application
 - Transaction
- Summary





Mobile Security and Management spans business control spectrum

Requirements for Mobile Management and Security:



Solution Approaches:

Mobile Device Management

Mobile Application Management, Containers

Secure Transactions





Mobile Security and Management spans business control spectrum

Requirements for Mobile Management and Security:



Solution Approaches:

Mobile Device Management

Mobile Application Management, Containers

Secure Transactions

IBM Offerings:







Additional Integration Points:

- SDKs can be used in Worklight IDE so all apps can be secured (IBM Worklight)
- Security information and events will feed into QRadar for analysis and actions will return to mobile tools (IBM QRadar)
- Code scan be part of process before apps are deployed into app store/catalog (IBM AppScan)





IBM Security capabilities for the mobile enterprise



Protect the Device	Protect the Application	Protect the Transaction
Corporate devices BYOD	 Developer solutions to secure applications. Protect enterprise data in both the applications you build and the applications you buy. 	CustomersBusiness partnersTemporary workers

SECURITY INTELLIGENCE

A unified architecture for integrating mobile security information and event management (SIEM), log management, anomaly detection, and configuration and vulnerability management.







Threat-Aware Identity and Access Management

Capabilities to help organizations secure enterprise identity as a new perimeter

Safeguard mobile, cloud and social interactions

- Validate "who is who"
- Enforce proactive access policies

Prevent insider threat and identity fraud

- Manage shared access
- Defend applications and access

Deliver intelligent identity and access assurance

- Enable identity management
- Enhance user activity monitoring

Simplify identity silos and cloud integrations

- Provide visibility
- Unify "Universe of Identities"





As part of our Mobile Security strategy, IBM has launched its *NEW* appliance-based solution - **IBM Security Access Manager for Mobile**Safeguard mobile

Safeguard mobile, cloud and social interactions



IBM Security Access Manager for Mobile

Mobile Access Management

Mobile Identity Assurance

Mobile Security Intelligence

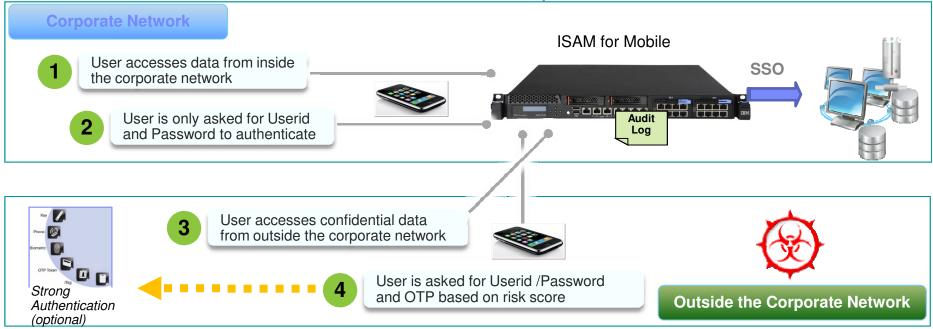


- Deliver Mobile SSO and session management
- Enforce context-aware access
- Improve identity assurance
- Help secure mobile app deployment
- Reduce TCO and time to value





Deliver mobile SSO and session management for employees, partners and consumer interactions across the enterprise



How IBM SAM for Mobile Can Help

- ✓ Deploy mobile security gateway for user access based on risk-level (e.g. permit, deny, step-up authenticate)
- ✓ Built-in Risk scoring engine real-time context (e.g. location, device)
- ✓ Support mobile authentication with built-in One-Time Password (OTP)
- ✓ Offer Software Development Kit (SDK) to integrate with 3rd party authentication factors

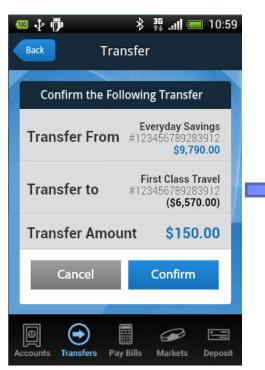


Enforce risk-based access and strong authentication for transactions

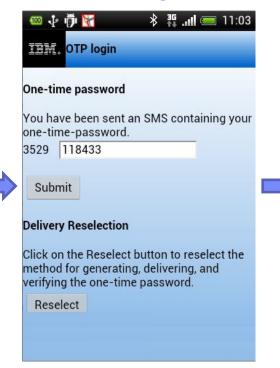
Reduce risk associated with mobile user and service transactions

- Example: transactions less than \$100 are allowed with no additional authentication
- ✓ User attempts transfer of amount greater than \$100 requires an OTP for strong authentication

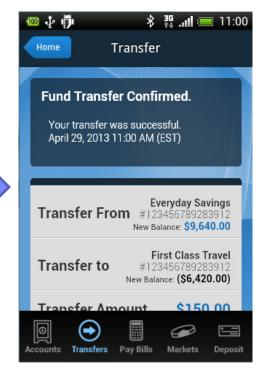




Strong authentication challenge



Transaction completes



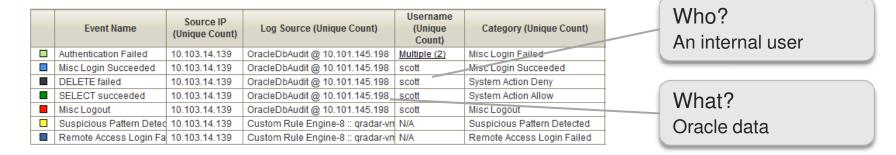


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Get "Mobile Security Intelligent" with OOTB QRadar integration





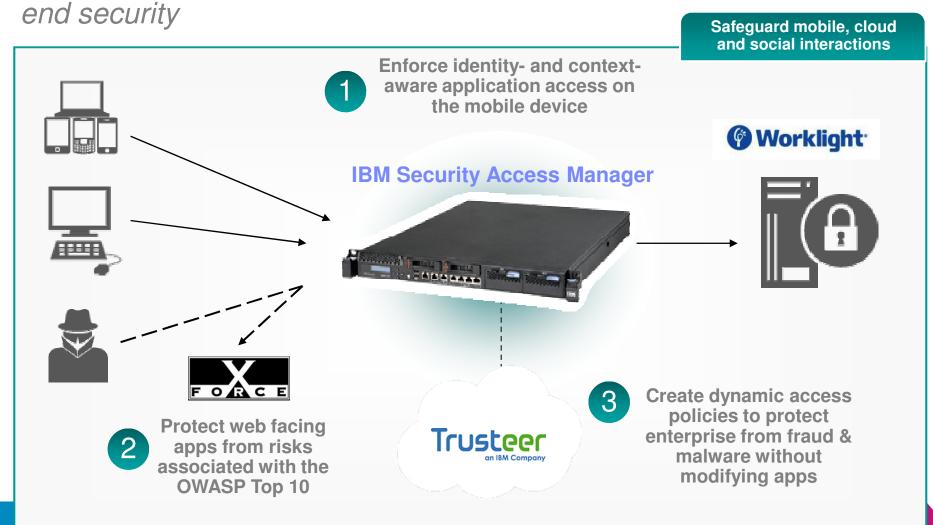




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Mobile Security: Centralized and Consistent Policy Enforcement for Context-Aware Access, Threat Protection, Fraud & Malware Detection Out-of-the-box and seamless integration delivers unmatched end-to-



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Easier Fraud & Malware Detection with IBM SAM for Mobile and Trusteer

Attach Trusteer context-based policy to any app resources with no code updates



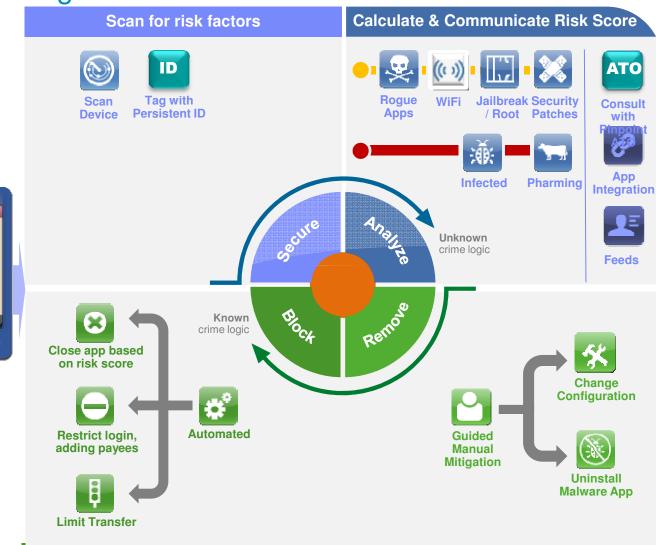
Safeguard mobile, cloud and social interactions

- Out-of-the-box recognition of Trusteerspecific attributes being included in request messages from Secure Browser and Mobile SDK
 - Device attributes
 - Malware
 - Jailbroken / rooted
- Author reusable policies that can be attached to multiple applications
- Enforce consistent fraud & malware detection policies without updating the apps





Fraud Protection using Trusteer Secure Mobile





Take Action





MaaS360 Delivers an Integrated Approach



Comprehensive Mobile Security

Complete Mobility Management

One Platform for All Your Mobile Assets





MaaS360: Robust Mobile Security addressing BYOD



Device



Email

Encryption and passcodes
Jailbreak/Root detection
Locate, lock, wipe

Auto-access approval
Contain emails and
attachments
Remote wipe of work email



Blacklist/Whitelist mobile apps Wrapping and compliance rules Remote wipe of managed apps



Documents

Password authentication Restrict copy, paste, share Remote wipe of work files



Web

Define URL filters and categories
Allow access to intranet sites
Disable native/3rd party
browsers



Network

Configure Wi-Fi and VPN
profiles
Cert delivery and
authentication
Dynamic policy based on SSID



Summary







IBM Security capabilities for the mobile enterprise



Protect the Device & Content	Protect the Application	Protect the Transaction
MaaS360 Secure Mail	IBM Security AppScan	IBM Security Access Manager
MaaS360 Secure Document Sharing	MaaS360 Application Security	IBM Trusteer Mobile SDK
MaaS360 Secure Browser	IBM Security Access Manager	

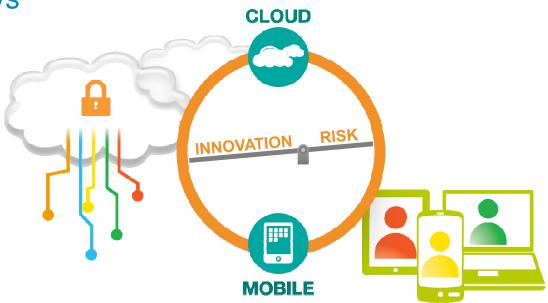
SECURITY INTELLIGENCE

IBM Security QRadar





Key takeaways



- Cloud and mobile create opportunities for enhanced security
- 2 IBM security portfolio enables clients to innovate with confidence
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