

IBM Security 「戰勝漏洞·資安預警」

行動化變革環境下的企業安全防禦策略 IBM 全球資訊科技服務事業部 資深顧問 蔡均璋

新科技與商業模式的改變 讓企業面臨開放與外界交流的壓力







行動化的科技變革 讓傳統的企業安全防護藩籬面臨解構







人與系統的弱點在所難免





攻擊手法則不斷演進





攻擊手法則不斷演進





進階持續性及針對式攻擊模式成為主流 人的疏失往往成為安全的最脆弱環節



5000

8



新型態企業運作模式下的安全策略

<mark>保護好你的皇冠</mark> Developing a crown Jewels Program

建立用戶保護模型 Persona Based Protection Model



從攻擊行為模式思考
 Behavior Based
 Prevention



企業的關鍵資產保護攸關企業的永續經營 唯有有效辨識方能達到真正的保護



企業的關鍵資產的重要性不下於對皇冠上的珠寶的保護(Crown Jewels)



Crown Jewels

An organization's most sensitive or business critical information.

Today, many organizations are not aware of what their Crown Jewel information is, where it resides, who has access to it, or how it is protected.

Possessing information about Crown Jewels is necessary in order to determine whether adequate controls are in place.

Crown Jewel protection is dependent upon having access to vital information in order to apply proper controls. Average enterprise's 2% critical data is less than

Value of publicly traded corporations 70% estimated to be intellectual property

Source: U.S. President's 2006 Economic Report to Congress

Crown Jewel Examples

Enterprise

- Intellectual property
- Top-secret plans
 and formulas

Executive

- Acquisition and divestiture plans
- Executive and board deliberations

針對最關鍵的資產 評估及發展各種對應的資料防禦策略

Encryption & DLP

Monitoring

Security

Data

Business Risk Visualization Dashboard

Architectur

ssessmen

Controls



Focused on protecting the most critical digital assets

- Discover, Classify and Rank identify the most critical digital assets – the organization "crown jewels" – in structured and unstructured repositories; repeat scans
- Controls Assessment identify and rank threats, review access privileges, and controls that are in place
- Data Security Architecture create a data security strategy and architecture for both structured and unstructured environments
- **Encryption & DLP** employ encryption and DLP technologies to protect the most valuable assets, the "crown jewels"
- Monitoring review monitoring metrics to ensure continued protection of "crown jewels" and adequacy of controls due to evolving threats
- Business Risk Visualization Dashboard to provide visual representation of risks to Critical Data assets and potential exposure of intellectual property (IP)



Supported by:

Robust Consulting Method | Industry-specific Data Models | Global Consulting Expertise | IBM Data Security Research IBM Guardium, StoredIQ, DLP and other leading data protection technologies



新型態企業運作模式下的安全策略



保護好你的皇冠 Developing a crown Jewels Program

2

建立用戶防護模型 Persona Based Protection Model

從攻擊行為模式思考 Behavior Based Prevention



企業逐步行動化的趨勢不易逆轉





They want their **Apps**

- Over 1M different apps managed
- 100,000+ apps in Enterprise App Stores
- Most active customers have 200+ different apps



They need their **Content**

Nearly 40% of customers push Secure Content to Devices and Users

- Intranet (40%)
- SharePoint (30%)
- File Shares (30%)

Mobile Content Management (MCM) is growing quickly!



行動化安全不僅要考慮設備本體, 網路通訊及應用端也都應該審慎考慮



At the Device

Manage device

Set appropriate security policies • Register • Compliance • Wipe • Lock

Secure Data

Data separation • Leakage • Encryption

Application Security

Offline authentication • Application level controls Over the Network and Enterprise

Secure Access

Properly identify mobile users and devices • Allow or deny access • Connectivity

Monitor & Protect

Identify and stop mobile threats • Log network access, events, and anomalies

Secure Connectivity

Secure Connectivity from devices

For the Mobile App

Secure Application

Utilize secure coding practices • Identify application vulnerabilities • Update applications

Integrate Securely

Secure connectivity to enterprise applications and services

Manage Applications

Manage applications and enterprise app store

Internet

Enterprise Intranet





IBM 本身從不同的員工的角色屬性 思考其對應行動化策略





© 2015 IBM Corporation

根據不同角色模型需求完整考慮 設備、傳輸、應用、存取管制等安全需求



Personal and Consumer DATA Column DATA Column Device	Security Intellig Identity & Access Application Security Intent Security Security	gence	entity, Fraud, Data Protection
Device Security	Content Security	Application Security	Identity & Access
Provision, manage and secure Corporate and <i>BYOD</i> devices	Secure enterprise content sharing and segregate enterprise and personal data	Develop secure, vulnerability free, hardened and risk aware applications	Secure access and transactions for customers, partners and employees
IBM MobileFirst Protect (MaaS360) Airwatch, MobileIron, Good, Citrix, Microsoft, MocanaIBM Security AppScan, Arxan Application Protection, IBM Trusteer Mobile SDK HP Fortify, Veracode, ProguardIBM Security Access Manager for Mobile, IBM Trusteer Pinpoint CA, Oracle, RSA			
Security Intelligence			
A unified architecture for integrating mobile security information and event management (SIEM), log management, anomaly detection, and configuration and vulnerability management			
IBM QRadar Security Intelligence Platform			



新型態企業運作模式下的安全策略

保護好你的皇冠 Developing a crown Jewels Program 2

建立用戶防護模型 Persona based Protection Model

3 從攻擊行為模式思考 Behavior based prevention





傳統的威脅偵測模式易有盲點, 從攻擊者的行為模式著手可以建立新的防禦思維



不同的威脅發展階段各有其特定的行為模式, 在適當的關鍵防禦點阻擋可以收到事半功倍之效





透過攻擊行為模式防禦 避免客戶或合作夥伴成為安全斷鏈



Comprehensive platform for fraud detection and prevention



Clientless Fraud Prevention

- **Trusteer Pinpoint Criminal Detection** Evidence-based detection of account takeover attempts
- Trusteer Pinpoint Malware Detection Real-time malware detection
- Trusteer Mobile Risk Engine Detects mobile-fraud risks from compromised end user and criminal-owned devices

Endpoint Security

- Trusteer Rapport Prevents and removes financial malware and detects phishing attacks
- Trusteer Mobile SDK Embedded security library for native apps that detects compromised / vulnerable devices
- Trusteer Mobile Browser

Risk-based analysis of mobile web access





新型態企業運作模式下的安全策略

保護好你的皇冠 Developing a crown Jewels Program 2

建立用戶保護模型 Persona Based Protection Model Protection s Pr

3 從攻撃行為模式思考 Behavior Based Prevention



Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed or misappropriated or can result in damage to or misuse of your systems, including to attack others. No IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT SYSTEMS AND PRODUCTS ARE IMMUNE FROM THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

Thomk You www.ibm.com/security



© **Copyright IBM Corporation 2015.** All rights reserved. The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. IBM, the IBM logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.















