

Pu/se

Comes to You 2009



Managing the World's Infrastructure

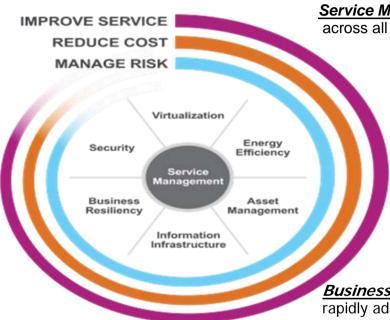
IBM Security Framework & Tivoli Security, Risk and Compliance Update

Peter Jopling





Building a dynamic infrastructure



<u>Service Management</u> – Provide visibility, control and automation across all the business and IT assets to deliver higher value services.

<u>Asset Management</u> – Maximizing the value of critical business and IT assets over their lifecycle with industry tailored asset management solutions.

Energy Efficiency – Address energy, environment, and sustainability challenges and opportunities across your infrastructure.

<u>Virtualization</u> – Leadership virtualization and consolidation solutions that reduce cost, improve asset utilization, and speed provisioning of new services.

Business Resiliency – Maintaining continuous business operations while rapidly adapting and responding to risks and opportunities.

<u>Security</u> End to end industry customized governance, risk management and compliance solutions.

<u>Information Infrastructure</u> – Helping businesses achieve information compliance, availability, retention, and security objectives.

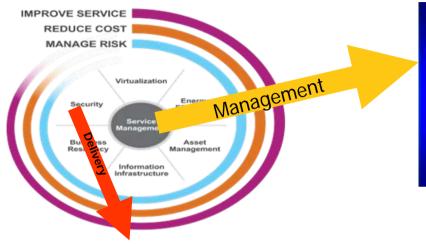








Delivering & Managing a Secure dynamic infrastructure.















Governance

Privacy

Threat mitigation

Transaction and data integrity

Identity and access management

Application security

Physical security

Personnel security







Governance

Strategy

- Information security policy
- Enterprise security architecture

Governance framework

Governance structure

Information security advisory

· Consulting and advisory services

Security risk management framework

- · Threat risk assessment
- · Information asset profile
- · Project risk assessment
- Security risk management

Compliance program

- Regulatory compliance
- · Technical, policy and standards compliance
- · Health checking
- Internal audit and response

Privacy

Privacy and information management strategy

- Define privacy information strategy
- Requirements and compliance process
- Incident response

Policy, practices and controls

- · Policy taxonomy and glossary
- · Policy rules definitions
- Privacy impact assessment (proactive)
- Privacy audit (reactive)
- · Awareness and training

Data, rules and objects

- Privacy data taxonomy and classification
- Privacy business process model
- Data usage compliance process

Threat mitigation

Network segmentation and boundary protection

- Network zone management and boundary security infrastructure
- · Remote access infrastructure
- · Intrusion defense
- Network security infrastructure

Content checking

Virus protection
 Content filtering

Vulnerability management

- Standard operating environment
- Patch management
- · Vulnerability scanning and assessment

Incident management

- · Incident management
- · Event correlation
- Forensics

Transaction and data integrity

Business process transaction security

- Fraud detection
- Data transaction security

Database security

- Database configuration
- Master data control

Message protection

Public key infrastructure

Secure storage

- Data retrieval
- Data storage protection
- Data destruction
- Archiving

Systems integrity

- Security in systems management
- Security in business continuity planning

Identity and access management

Identity proofing

- Access management
- Background screening
- Identity establishment

Access management

- Single sign-on
- · Authentication services
- · Access control services

Identity lifecycle management

- User provisioning
- · Other entity provisioning
- · Identity credential management

Application security

Systems development lifecycle (SDLC)

Security in the SDLC process

Application development environment

- · Secure coding practices
- Operational application support environment
- Design patterns

Physical security

Site security

- Site planning
- · Site management

Physical asset management

- Asset management
- · Document management

Personnel security

Workforce security

- Awareness training
- · Code of conduct

 Employment lifecycle management







IBM Security Framework



Securing Virtualized Environments

Sense and Response Physical Security



Securing Mobile Devices

Protecting the Evolving Network





SECURITY GOVERNANCE, RISK MANAGEMENT AND COMPLIANCE



PEOPLE AND IDENTITY



DATA AND INFORMATION



APPLICATION AND PROCESS



NETWORK, SERVER AND END POINT



PHYSICAL INFRASTRUCTURE





Managed services Hardware and software



Information Security



Alternative Ways to Deliver Security



Managing Risk and Compliance



Trusted Identity

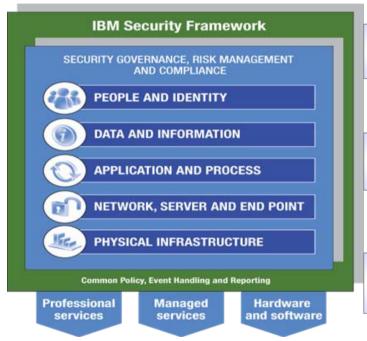






IBM Tivoli Security delivering on the IBM Security Strategy

Tivoli Security Strategy and Solutions













Manage Identities and Access



"How can my business benefit from management of digital identity?"

Issues

- Establishing Trusted in Digital Identity
- Cost of administering users and identities in-house
- Privileged user activity unmonitored
- Dormant IDs or shared identities being used to inappropriately access resources
- Role and Entitlements Management

IBM Security Offerings

- Identity Lifecycle Management: Tivoli Identity and Access Management solutions.
- High-Assurance Digital Identities: Trusted Identity Initiative
- Identity Audit: Tivoli Security Compliance Insight Manager, Tivoli zSecure Audit
- Identity & Access Design and Implementation Services
- ISS Managed Identity Services

Values

- Reduces the cost, increases efficiency and enables audit-ability of managing flow of users entering, using, and leaving the organization
- Decreases risk of internal fraud, data leak, or operational outage
- Enables shift from traditional brick & mortar sales to delivery of on-line services to customers and partners across the globe
- Single sign-on



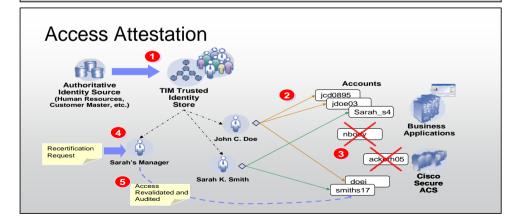




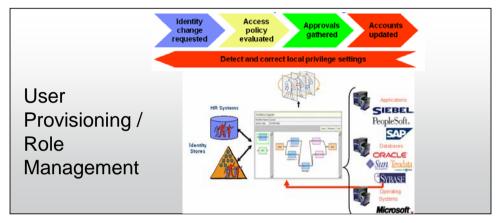


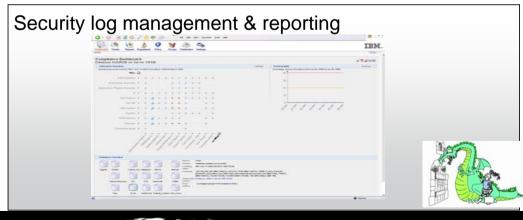
PEOPLE AND IDENTITY

Single Sign On & Password Management Flexible Authentication ActivCard Portal Banking Banking Banking Claims Claims



Tivoli Identity and Access assurance













"How can I reduce the cost and pain associated with tracking and controlling who touched what data when? How do I assure that my data is available to the business, today and tomorrow?"

Issues

- Data stored on removable media that can be lost/stolen
- Data stored in the clear is easily accessible
- Cost of Data Breaches
- Legal, regulatory and ethical exposure for the organization
- Costs of data breaches, notification, brand value
- Failing an audit

IBM Security Offerings

- ISS Data Security and Data Loss Prevention solution
- Tivoli Compliance Insight Manager, ISS SiteProtector, ISS Managed Security Services
- Data Encryption: Tivoli Key Lifecycle Manager, encrypted tape and disk drives
- Data Classification: InfoSphere Information Analyzer, Cognos, FileNet Discovery and Classification
- Unstructured Data Security: Tivoli Access Manager
- Data Privacy and Masking: Optim Data Privacy Solution
- ISS Professional Security Services

Values

- Reduces the cost, increases ability to meet audit and compliance mandates
- Provides a cost-effective way to meet legal discovery, hold and retention requirements
- Assures data is available to the right people, at the right time
- Data Protection and prevention of Data Loss or Data Leakage
- Decreases number and complexity of controls integrated within the enterprise





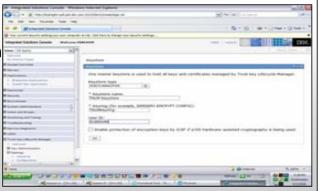






Tivoli Data & Application Security Solution

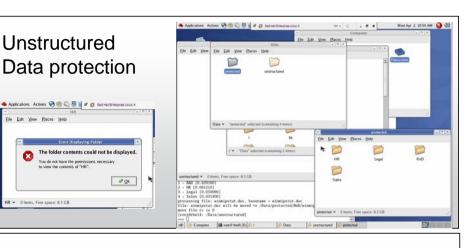
Encrypted Disks & Archive Tapes with Key Management

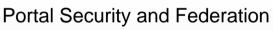


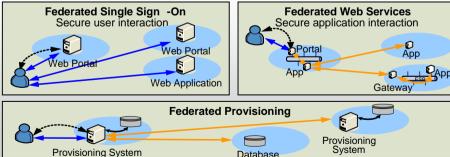


Unstructured

HR • 0 items. Free space: 8.3 GB







Database













Secure Web Applications



"How can my business benefit from management of application security?"

Issues

- Web applications #1 target of hackers
- Applications are deployed with vulnerabilities
- PCI regulatory requirements mandate application security
- Managing fine-grained data entitlements within Apps
- Integrating Distributed and Mainframe security
- Private data exposure in development and test environments

IBM Security Offerings

- Application Vulnerabilities: Rational AppScan, ISS Managed Security Services, ISS Application Risk Assessment services
- Application Access Controls: Tivoli Access Manager
- Security for SOA: WebSphere DataPower, Tivoli Security Policy Manager, Tivoli Federated Identity Manager
- Messaging Security: Lotus Domino Messaging, IBM ISS Mail security solutions

Values

- Reduce risk of outage, defacement or data theft associated with web applications
- Assess and monitor enterprise-wide security policy compliance
- Improve compliance with industry standards and regulatory requirements (e.g., PCI, GLBA, HIPAA, FISMA...)
- Improve ability to integrate business critical applications
- Automated testing and governance throughout the development lifecycle, reducing long-term security costs

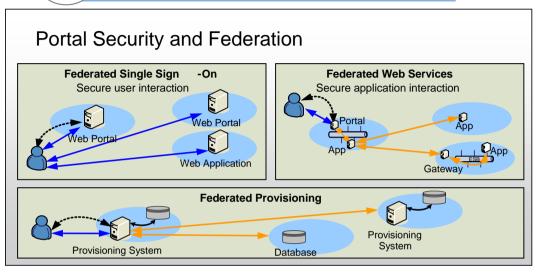


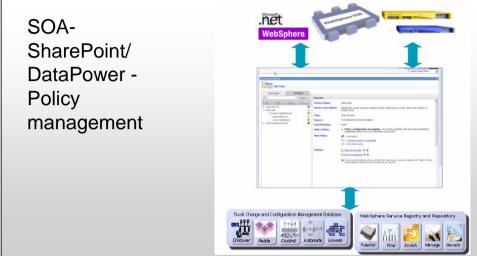






APPLICATION AND PROCESS















NETWORK, SERVER AND END POINT

Manage Infrastructure Security



"How does my business benefit from infrastructure security protection?"

Issues

- Inability to establish forensic evidence or demonstrate compliance
- Lack of integrated View of Security Information
- Lack of skills to monitor and manage security inputs
- Mass commercialization and automation of threats;
 Parasitic, stealthier, more damaging attacks
- Poor understanding of risks in new technologies e.g. virtualization and cloud
- Cost managing an ever increasing array of security technologies

IBM Security Offerings

- Threat Mitigation: ISS Network, Server and Endpoint Intrusion Detection and Prevention products powered by X-Force®, Managed Intrusion Prevention and Detection, Network Mail Security, Managed firewall services, Vulnerability Management and Scanning
- SIEM: Tivoli SIEM, Compliance Insight Manager, Security Event and Log Management services
- Security Governance: Regulatory assessments and remediation solutions, Security architecture and policy development
- Incident Response: Incident Management and Emergency Response services
- Consulting and Professional Security Services: Security Intelligence and Advisory Services

Values

- Reduces cost of ongoing management of security operations
- Improves operational availability and assures performance against SLA, backed by industry's only guaranteed SLA for managed protection services
- Increases productivity by decreasing risk of virus, worm and malcode infestation
- Readily show status against major regulations



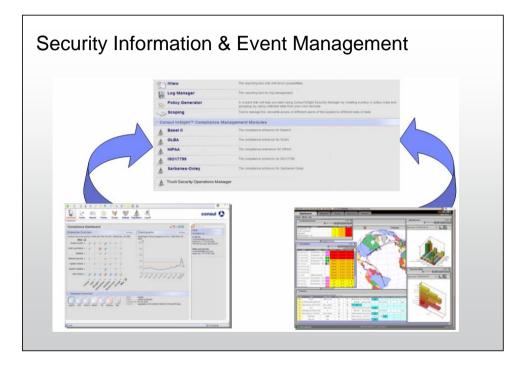


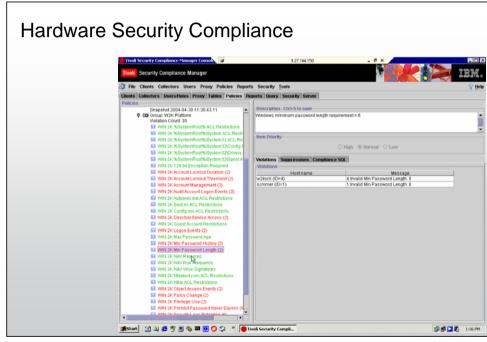






























Updates since 2008.....



PEOPLE AND IDENTITY



- •Updated Tivoli Compliance Insight Manager offers new compliance modules for FISMA, PCI, ISO 27001
- •Increased auditing & compliance capabilities including New RACF classes for installation-defined health checks and WebSphere MQ



DATA AND INFORMATION

- •**NEW**: Tivoli Key Lifecycle Manager, simplifies configuration and administration of key generation and management
- •ISS Data Security Solutions includes network and endpoint data protection solutions



APPLICATION AND PROCESS

- •**NEW**: Tivoli Security Policy Manager, provides unified SOA security policy management & enforcement
- •Enable fine-grained authorization and control data entitlements



NETWORK, SERVER AND END POINT

•Tivoli Security Information Event Manager









Business issues

Identity and Access Assurance

• Administers, secures and monitors identities, roles, and entitlements.

Security Management for z/OS

- Simplifies and comprehensively addresses mainframe administration.
- Policy-based user management, security monitoring and compliance reporting on the mainframe.

Data and Application Security

 Provides end-to-end protection of sensitive data, critical applications, and secure storage to address customer's growing security and compliance challenges.



Solutions

IBM Tivoli Identity and Access Assurance

- Tivoli Identity Manager
- Tivoli Unified Single Sign-On

- Tivoli Access Manager for OS
- Tivoli Compliance Insight Manager

IBM Tivoli Security Management for z/OS

- zSecure Admin
- zSecure Audit for RACF

- zSecure Command Verifier
- Tivoli Compliance Insight Manager

IBM Tivoli Data and Application Security

- Tivoli Security Policy Manager
- Tivoli Key Lifecycle Manager
- Tivoli Compliance Insight Mgr.

- Tivoli Access Manager for OS
- Tivoli Federated Identity Manager









Managing the World's Infrastructure

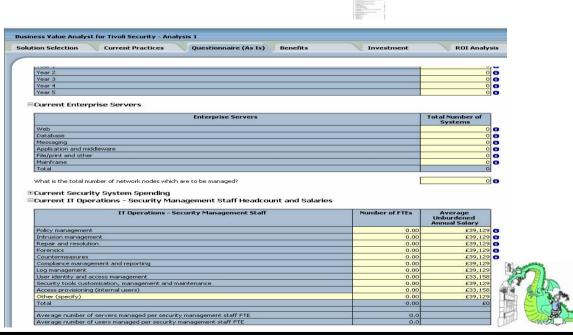
Business Case?



IRM

ROI Tool









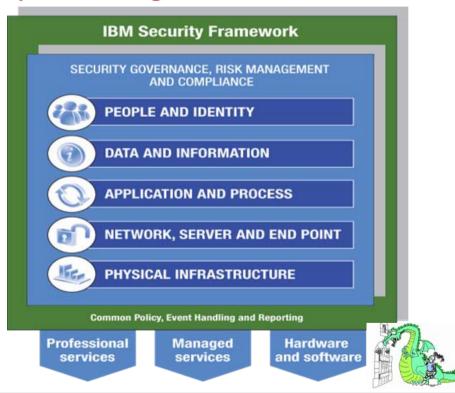




IBM Security

IBM: Comprehensive Security Risk & Compliance Management

- The only security vendor in the market with end-to-end coverage of the security foundation
- 15,000 researchers, developers and SMEs on security initiatives
- 3,000+ security & risk management patents
- 200+ security customer references and 50+ published case studies
- 40+ years of proven success securing the zSeries environment
- Already managing more than 2.5B security events per day for clients
- \$1.5 Billion security spend in 2008







ibm.com/software/Tivoli





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TAKE BACK CONTROL WITH Tivoli.

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The King, the Dragon and the Secure Cloud



http://www.youtube.com/watch?v=jev-YI0MJcw

