

Security Integration

Pushing the frontiers of the possible

PulseANZ2010

Meet the people who can help advance your infrastructure





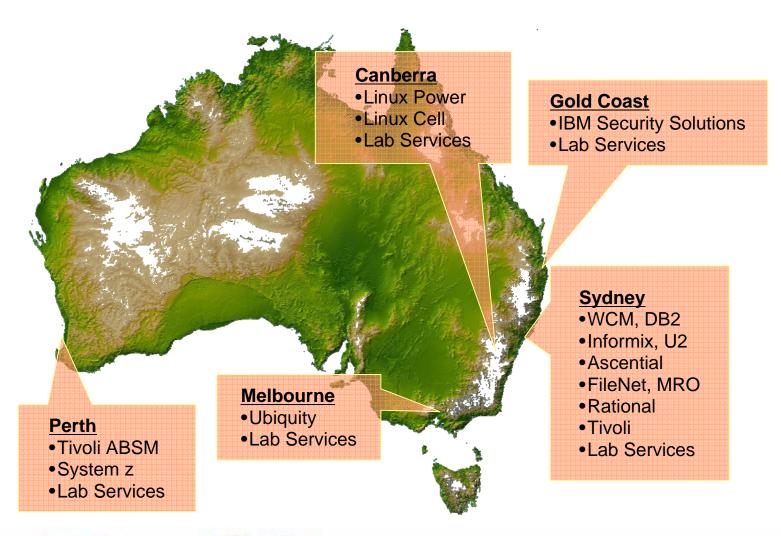


Agenda

- Australia Development Lab Overview
- Looking back at Security Management
- Tivoli Identity and Access Assurance product update
- Authentication storybooks
- Authorization storybooks
- Conclusion



Australia Development Laboratory (ADL)







Australia Development Lab Gold Coast Location

Background

- Founded in 1996
- 1999 acquisition of DASCOM
- Strong links to Queensland universities
- 90 technical staff
- Covering entire software lifecycle
- Design, dev, test, service support

Missions

- Tivoli Access Assurance development
 - Tivoli Federated Identity Manager
 - Tivoli Security Policy Manager
 - Tivoli Identity Manager
 - Tivoli Integration Factory
- ISS product development
- Solutions group (Support, Services)

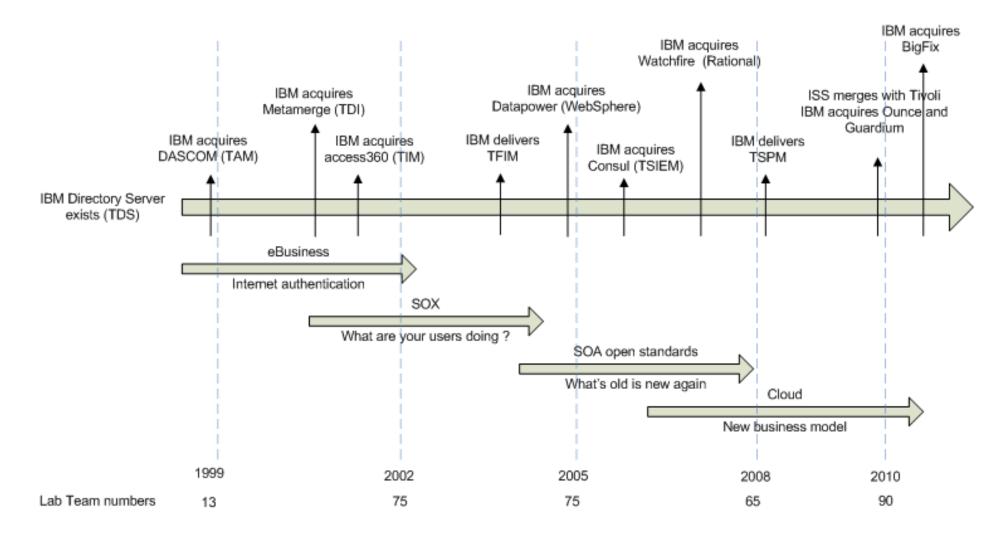
Built on client trust, innovation, dedication to your success







A brief look through Identity Management history





Recent Identity product updates

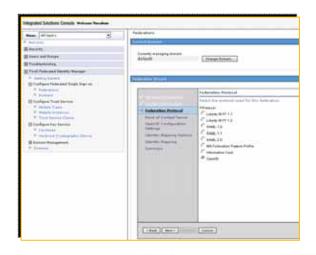




IBM Tivoli Access Manager for e-Business (TAM) IBM Tivoli Federated Identity Manager (TFIM)

New Features / Capabilities

- Performance improvements
 - New Java admin API to manage large scale deployments
- B2C user self service
 - User enrollment, validation for seamless authentication & password change/reset with secret questions



- Ease of admin / deployment support
 - Clustering support and ease of replication for TAMeb WebSEAL
 - Flexible health check for TAMeB application's status
 - Standards-based junction support for application integration (e.g. SAML, Kerberos, RACF Passticket junctions)
 - Serviceability improvements, session cache, ITDS password policy, cookie jar, tracing etc.
- More out-of-box integration
 - Updated SSO integration for key 3rd party applications (e.g. SharePoint, .NET, WAS, SAP, Oracle)
 - SAML 2.0 (attribute query, protocol interoperability)
 - OpenID (attribute support)
- Identity service to validate on- and off-premise access including cloud/SaaS deployments
 - Supports Lotus Live, Google Apps, Salesforce.com, Webex





IBM Tivoli Security Policy Manager (TSPM)

Open standards security policy languages have provided interoperability and

flexibility for authorization (entitlements) policy management

- Message protection policy for SOA environments
 - Relevant standard is WS-SecurityPolicy
 - Integrated with typical web service repositories, such as WSRR
 - What token type is required part of the Web Services request?
- Entitlements management for applications and data
 - Relevant standard is XACML
 - What are the user's entitlements?
 - Is the user authorized to perform an operation on a resource?
- Out-of-the-box integration for data entitlements enforcements
 - Applications (e.g. WebSphere Portal, WAS, .NET Sharepoint)
 - Content managers (e.g. SharePoint, FileNet)
 - Databases (e.g. DB2, Oracle)





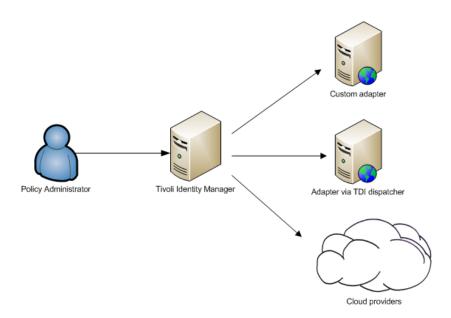
Authentication storybooks

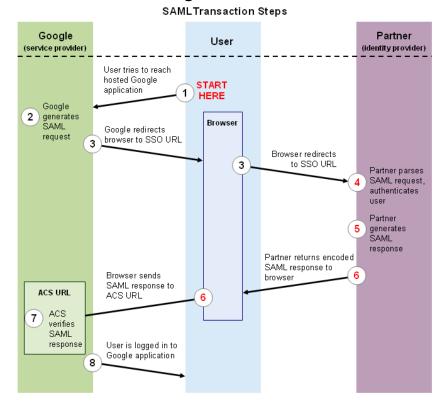




Google cloud integration using TFIM and TIM

- SAML SSO scenario with Google Applications
 - https://www-950.ibm.com/blogs/sweeden/?lang=en_us
- Standards work needs to settle for identity provisioning into the cloud
 - SPML future is still uncertain, SAML and OAuth still evolving
- Identity provisioning into the Google cloud is being demanded by customers



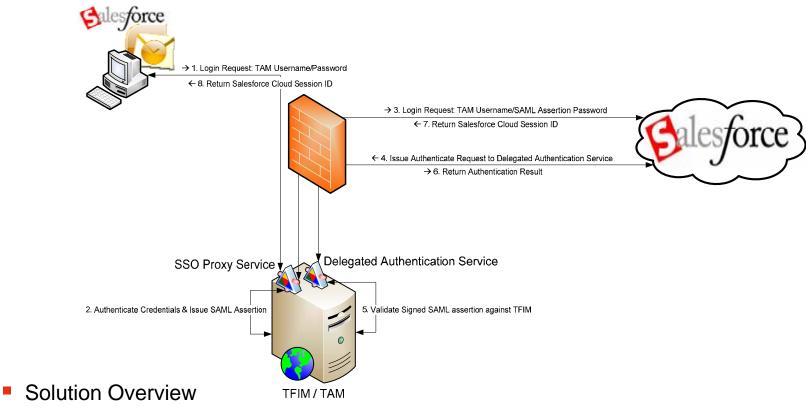






SalesForce.com cloud integration using TFIM

- Users have one internal password and this password needs protection
- Salesforce.com cloud provides integration specifications for security service



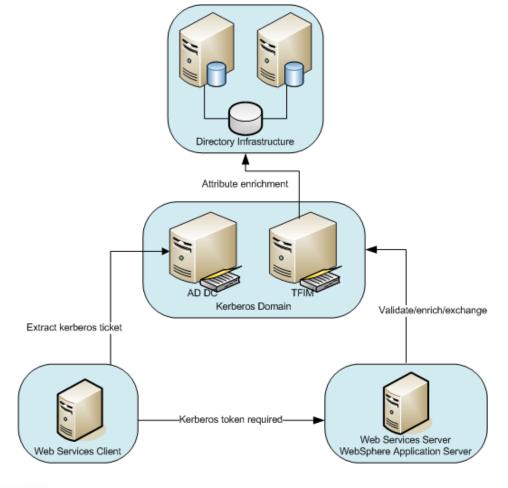
- Custom developed Web Service Proxy
- TFIM trust service for TAMeb password authentication and SAML token generation
- Custom authentication service for SAML token validation





Identity propagation using TFIM

- Demonstrating TFIM Kerberos to SAML token exchange in a Windows environment
- Customer's requirements:
 - Demonstrate token exchange
 - Kerberos to SAML conversion
 - Attribute enrichment mandatory
 - Ability to create a WAS subject
- Solution Overview
 - TFIM acting as the Trust Service
 - TDI attribute enrichment
 - Programmatic enrichment
 - Custom Web Service
 - Based on EchoApplication





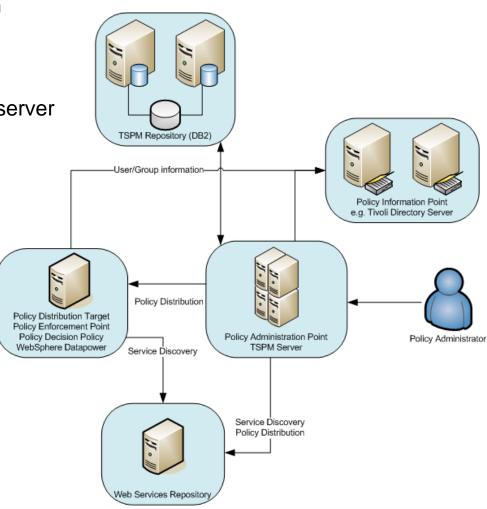


Authorization storybooks



SOA security patterns using IBM Security Solutions

- Standard TSPM for SOA deployment pattern
- Service discovery to WSRR
- Message protection policy applied at TSPM server
- XACML policy applied at TSPM server
- Modified service returned to WSRR
- TSPM pushes XACML policy to Datapower
- User information can be pulled from PIP

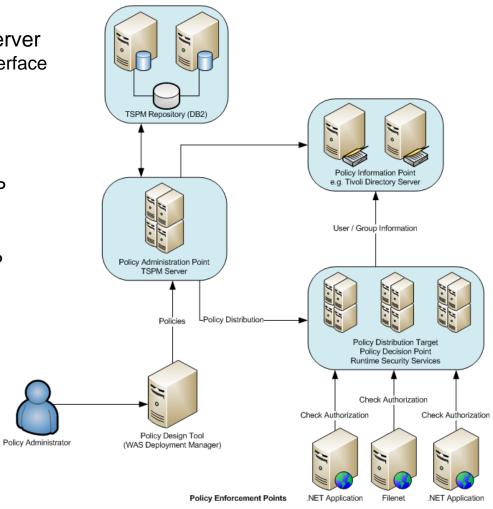






Fine grained programmatic authorization

- Standard TSPM for Entitlements deployment pattern
- Service discovery custom or application server
 - SharePoint integration uses a standard interface
- XACML policy is defined and distributed
- Local mode enforcement
 - Requires application being a PDP and PEP
- Remote mode enforcement
 - Runtime Security Services (RTSS) as PDP
 - Application is the PEP
- Data level integration
 - Available for DB2 in TSPM 7.1
 - Oracle and Filenet being considered

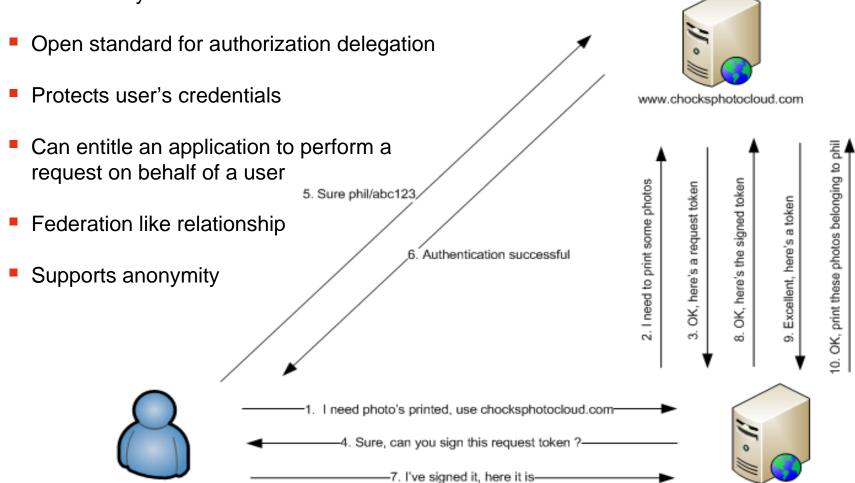






OAuth delivers delegated authorization capabilities

A method that allows an end user to delegate authorization to a web application to use their identity to access a web service



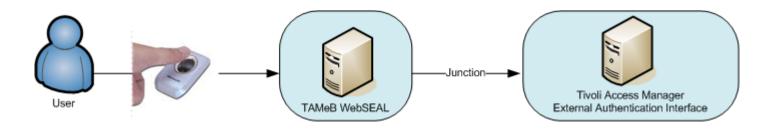


Others

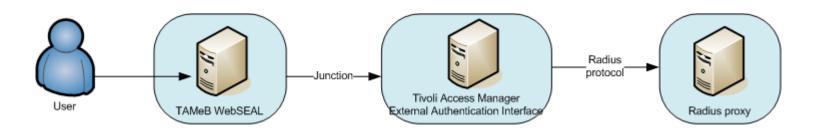


Other authentication customizations

- TAMeB WebSEAL authentication solutions delivered include:
 - Picture based authentication, i.e. remember 3 pictures, in order, for authentication
 - Fingerprint authentication



Radius authentication

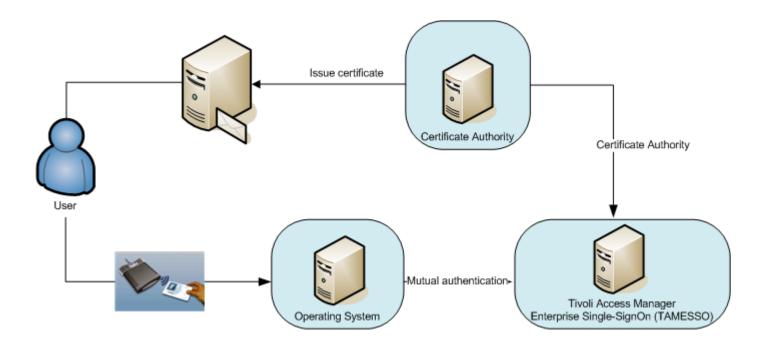






Enabling citizen centric authentication

- TAM E-SSO provides support for strong authentication using certificates
- This support breaks down when the PKCS#11 library is not supported within TAME-SSO
- ADL Gold Coast developed and delivered a generic cryptographic service provider (CSP) capable of supporting government based Certificate Authorities within TAME-SSO
 - A Generic CSP is able to configure in support for any PKCS#11 certificate







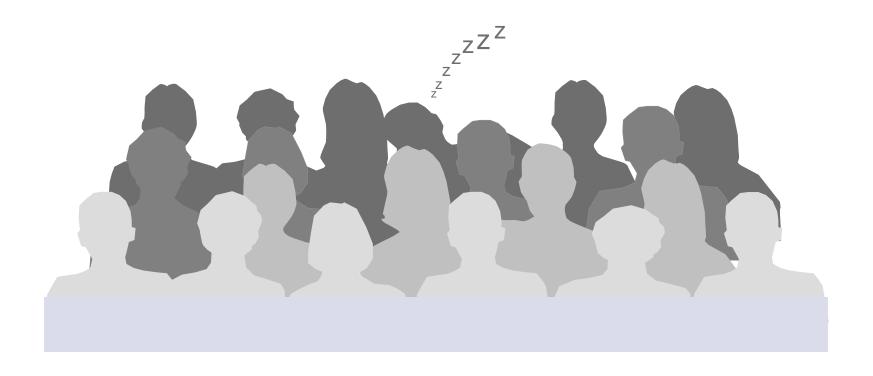
Looking forward from here

- Within Tivoli Security, Identity and Intrusion are singing from the same hymn book
 - Merging of Tivoli and ISS has created a new synergy
 - Many strategic roadmap initiatives in Tivoli's development pipeline
- The creation of the IBM Security brand has encouraged strategy alignment across all pillars
 - Hardware, Software (WebSphere, Rational, Tivoli and Information), Services
 - Appliance strategy is starting to evolve
- ADL Gold Coast continues to lead in delivering worldwide products and customer satisfaction across a broader mission
 - 2010 expansion has resulted in 5-6 new product development missions
 - Great for our local Australian and Asia customers
 - Your continued help in driving product evolution is invaluable
- We would like to hear from you, and your experiences with the Identity products





Come to the IBM Security Booth





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