



Applying Intelligence to Identity

IBM Security Systems

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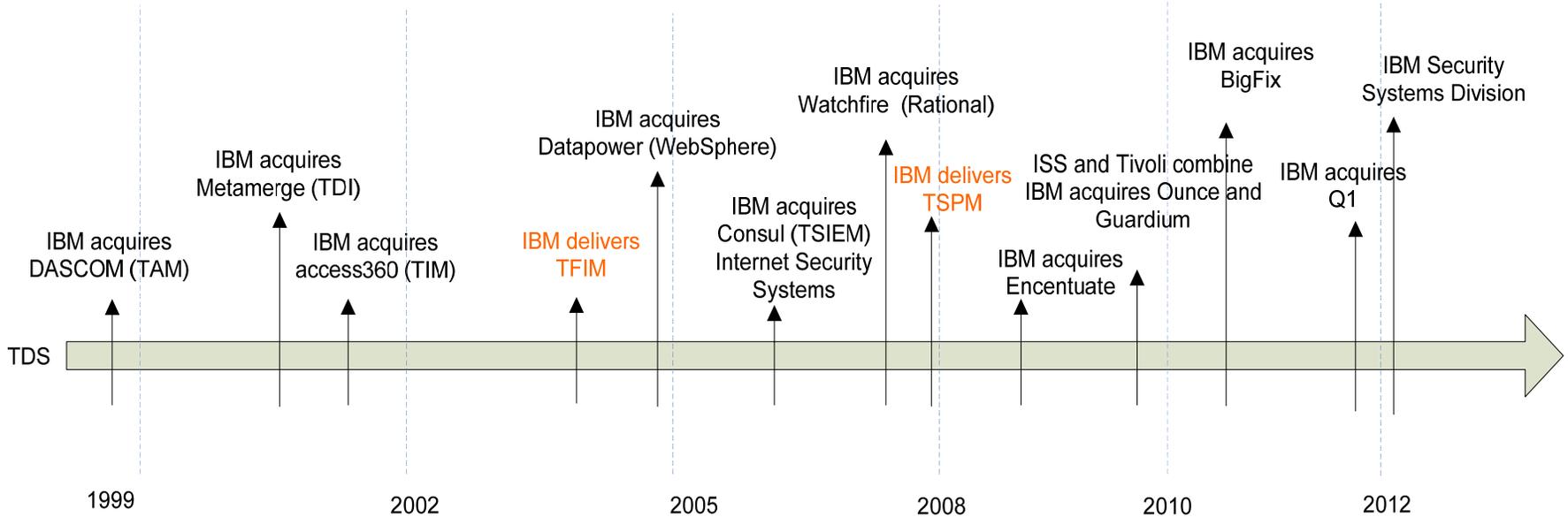
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The new division is driving innovation and integration



A history built upon innovation through organic and acquired growth



IBM Security Systems Development Lab Gold Coast

- Background
 - Founded in 1996 with strong links to Queensland universities
 - September 1999 acquisition of DASCOM
- Profile
 - 90 technical staff
 - Design, development, test, project management, documentation, support
 - World class security expertise
 - Close to Asia Pacific Customers
- Product Development
 - IBM Security Heritage software
 - ISS software/hardware
 - Q1 (integration)
- IBM wide security components
- Integration Factory
- Customer Focussed
 - Lab Services
 - Support
 - SWAT



Agenda

- What is intelligence?
- Security intelligence within Identity and Access
- Identity and Access Roadmap
- Innovation examples
 - Privileged Identity Management
 - Role and Policy Modeler
 - Security Intelligence within Access Management
- The IBM Academy Advocacy program





Intelligence and Security

What is intelligence?

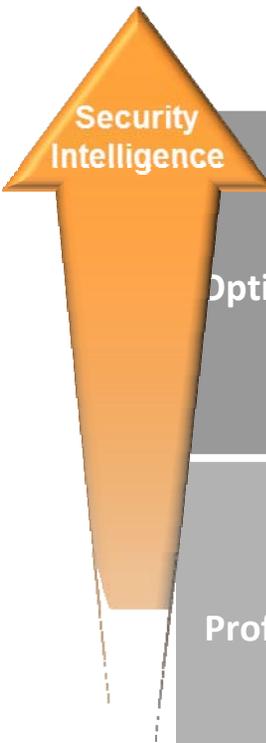
Sternberg & Salter	Goal-directed adaptive behaviour.
Lloyd Humphreys	"...the resultant of the process of acquiring, storing in memory, retrieving, combining, comparing, and using in new contexts information and conceptual skills."
Cyril Burt	Innate general cognitive ability
Hockings*	To lower the risk posed to a system by using historical and contextual information to influence decisions

Courtesy: wikipedia

*: Hockings definition has not been subjected to any scrutiny, and may be illegitimate



Focused on helping organizations' security to mature

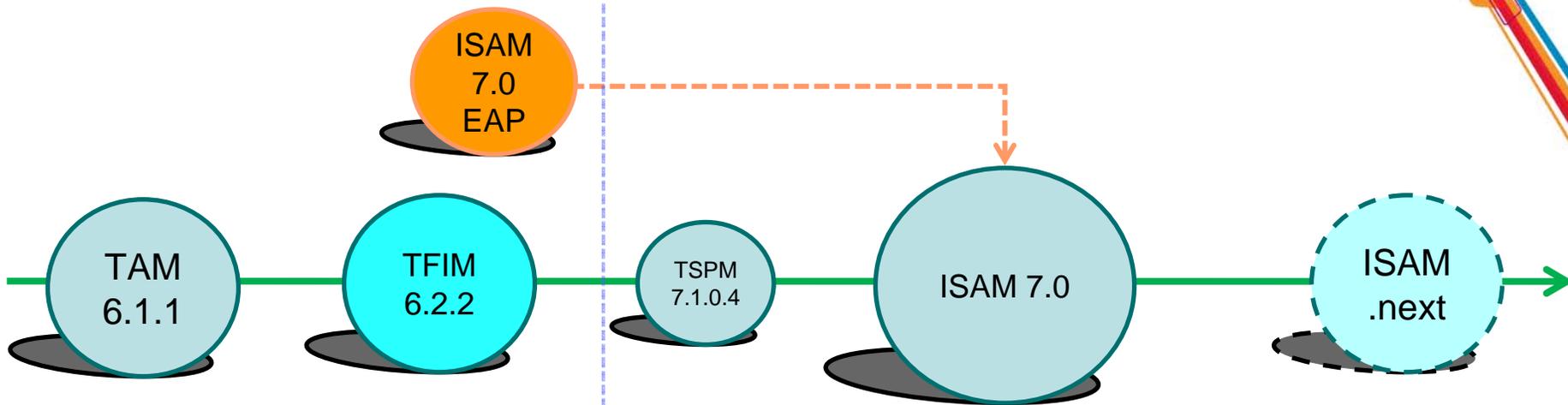


	People	Data	Applications	Infrastructure	Security Intelligence
Optimized	Role based analytics Identity governance Privileged user controls	Data flow analytics Data governance	Secure app engineering processes Fraud detection	Advanced network monitoring Forensics / data mining Securing systems	Advanced threat detection Network anomaly detection Predictive risk management
Proficient	User provisioning Access mgmt Strong authentication	Access monitoring Data loss prevention	Application firewall Source code scanning	Virtualization security Asset mgmt Endpoint / network security management	Real-time event correlation Network forensics
Basic	Centralized directory	Encryption Access control	Application scanning	Perimeter security Anti-virus	Log management Compliance reporting

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Access Family Roadmap



Tivoli Access Manager
SOA Integration

Tivoli Federated Identity Manager
Enhanced standards support
B2C support (OAuth)

IBM Security Access Manager
TAM/WebSEAL virtual appliance (VMWare)
Enhanced Microsoft integration
Enhanced active client (e.g. AJAX) support
64-bit operating system support

IBM Security Web Access Gateway
TAM/WebSEAL hardware appliance
WAF functionality (X-Force integration)

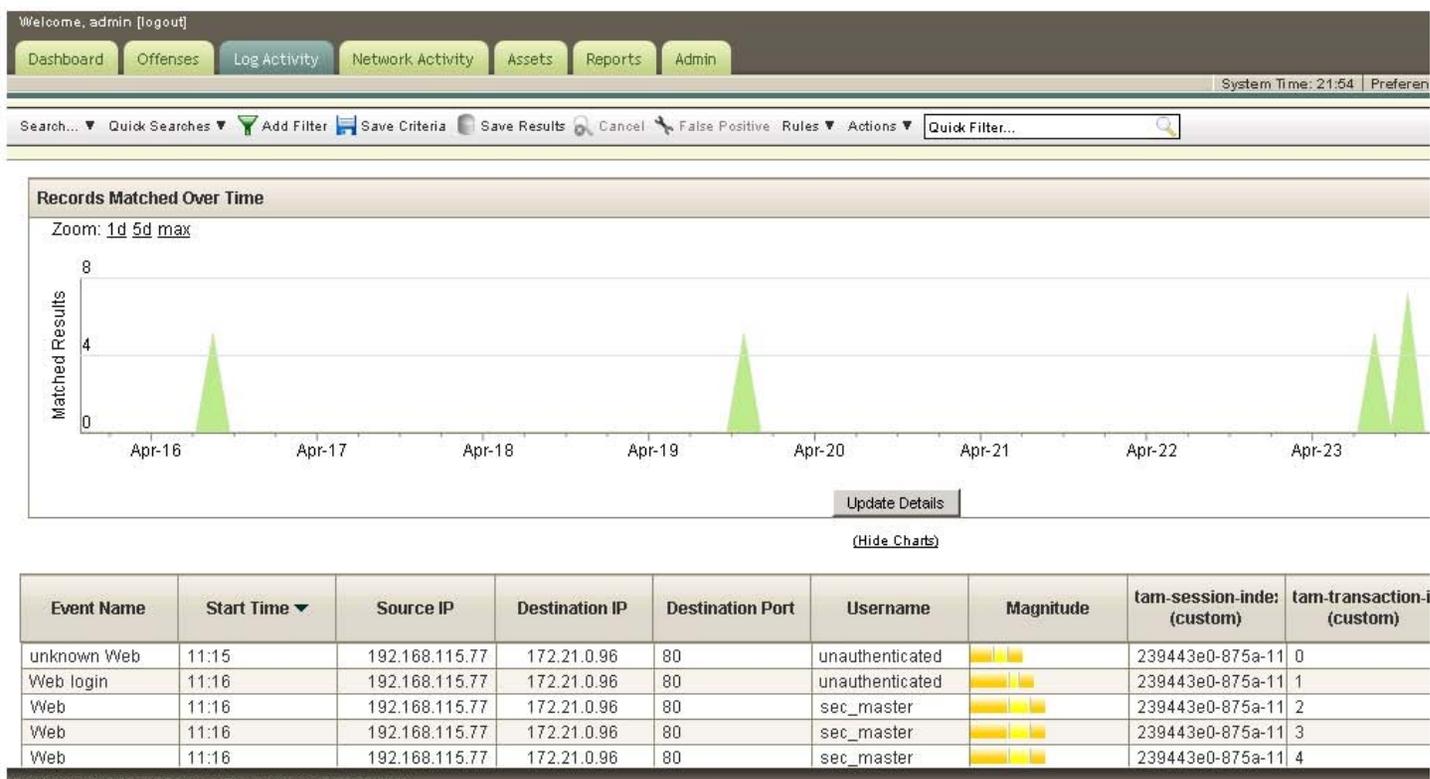
Risk Based Access (TFIM BG)
Customizable Risk engine (externalized SPI)
Risk evaluation based on location, device, and access pattern
Integration with ISAM for Web (WebSEAL) including out of the box and 3rd party authentication factors

Today

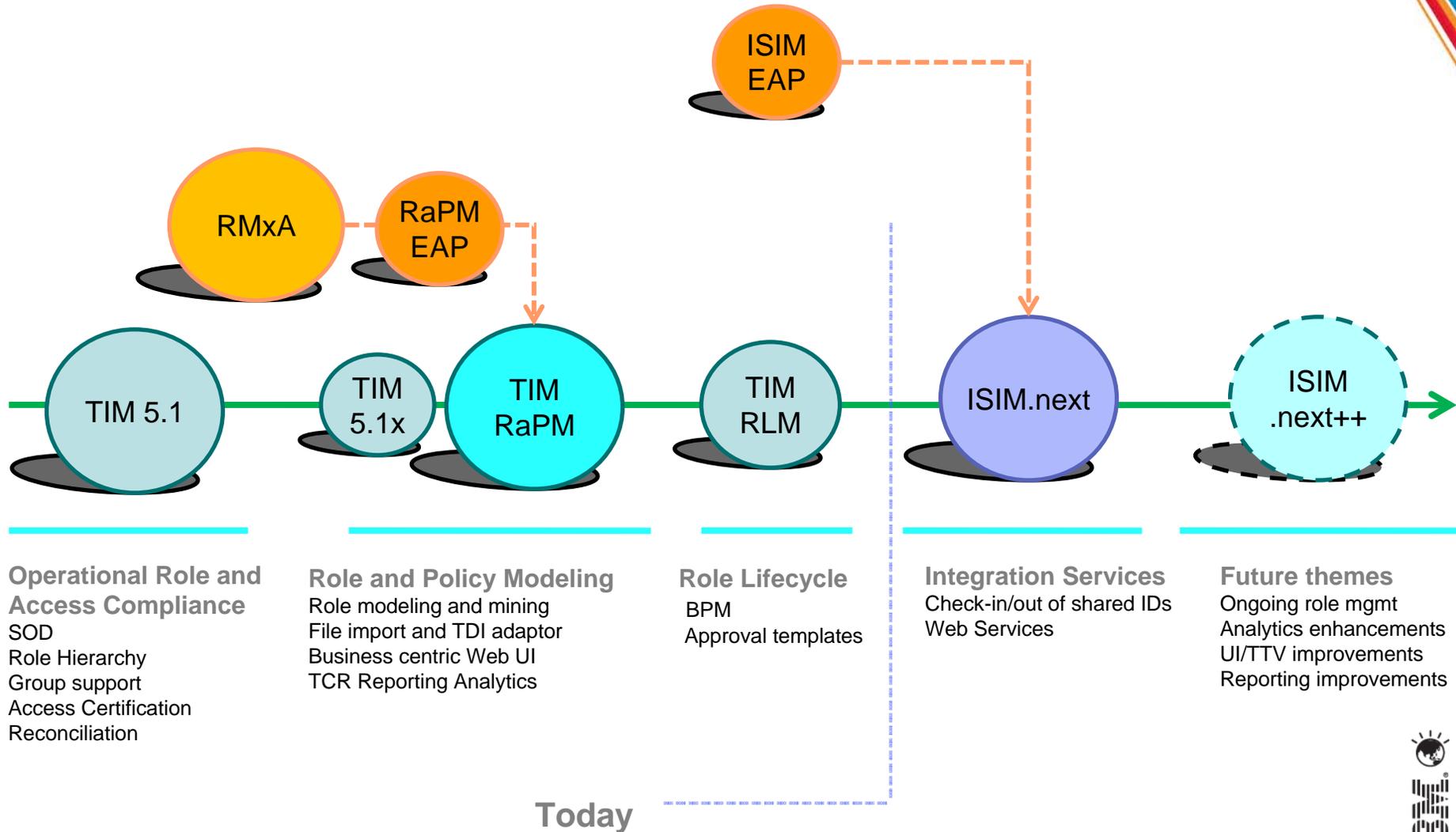


Using WebSEAL/QRadar to detect abnormal session behaviour

- Requirement to be able to gain more visibility of an entire web session
 - from unauthenticated to authenticated repeatedly
 - Anomaly detection can then be performed in cases of web based attack sequences



Identity Governance Roadmap



Operational Role and Access Compliance
 SOD
 Role Hierarchy
 Group support
 Access Certification
 Reconciliation

Role and Policy Modeling
 Role modeling and mining
 File import and TDI adaptor
 Business centric Web UI
 TCR Reporting Analytics

Role Lifecycle
 BPM
 Approval templates

Integration Services
 Check-in/out of shared IDs
 Web Services

Future themes
 Ongoing role mgmt
 Analytics enhancements
 UI/TTV improvements
 Reporting improvements

Today



Traditional methods to address privileged access

Each administrator to have a userid on every system they administer

- Exponential increase in privileged userids
- Increased risk of mismanagement of privileged userids
- Increased userid administration costs

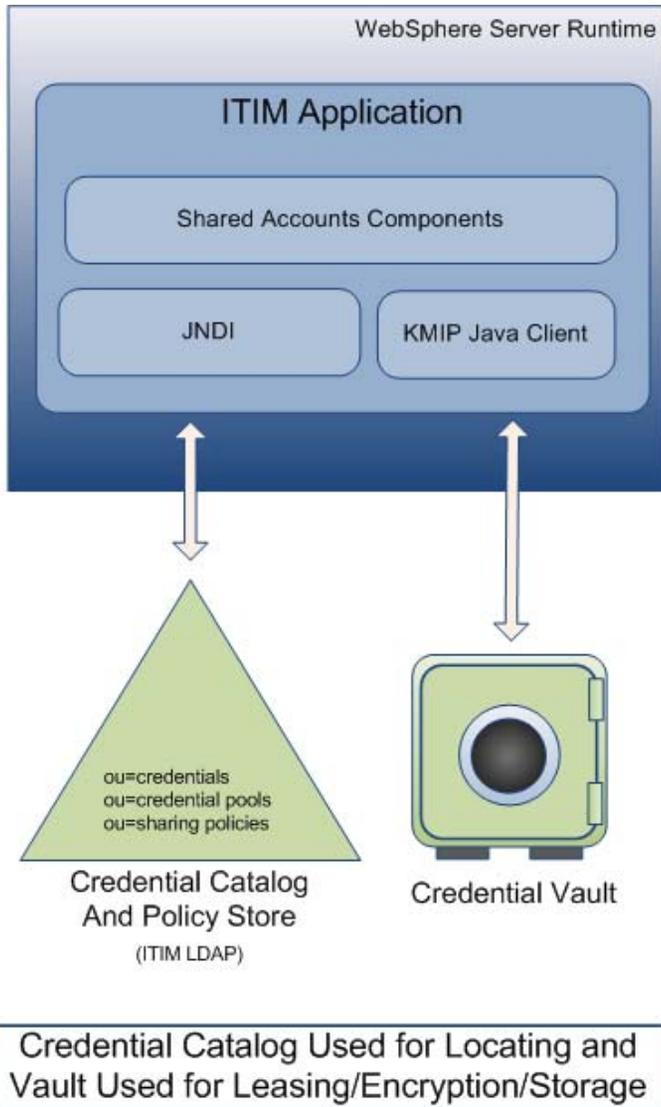
Administrators share privileged userids

- Risk of losing Individual Accountability
- Issues with password management and security
- Out of step with regulatory thinking

The strategic **reusable ID** solution provides a solution combining the best features of both approaches, without the disadvantages



Privileged Identity Management Solution Overview

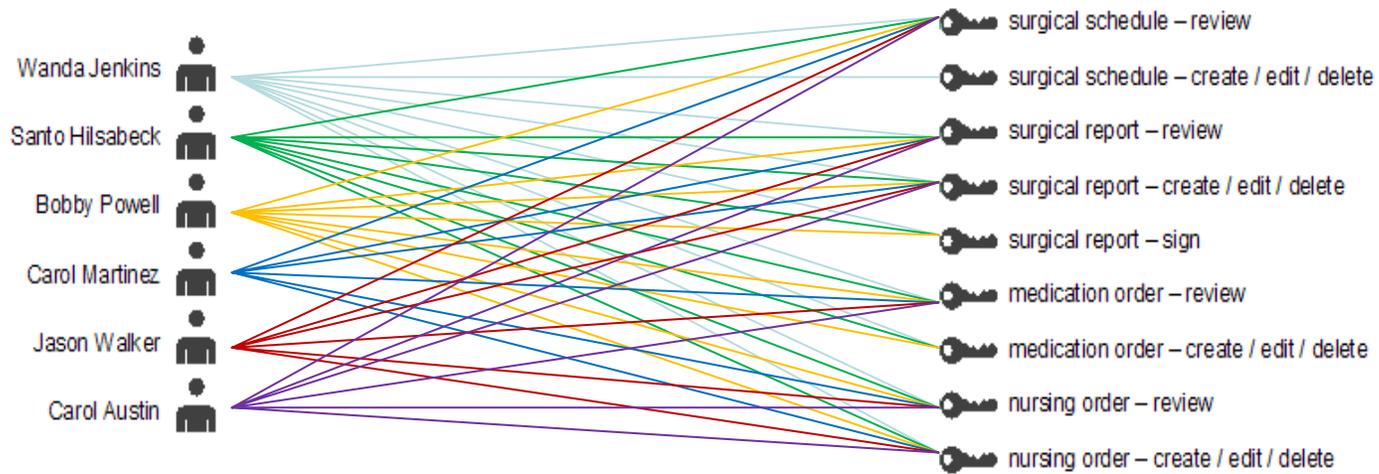


- Bundle Identity Mgr and ESSO to offer the PIM solution
- Access is shared via sensitive accounts.
- Credential Vault Administration
- Credential Pools
- Shared Privilege Policy
- Check In/Out of Shared Credentials
- Fine-grained audit reporting

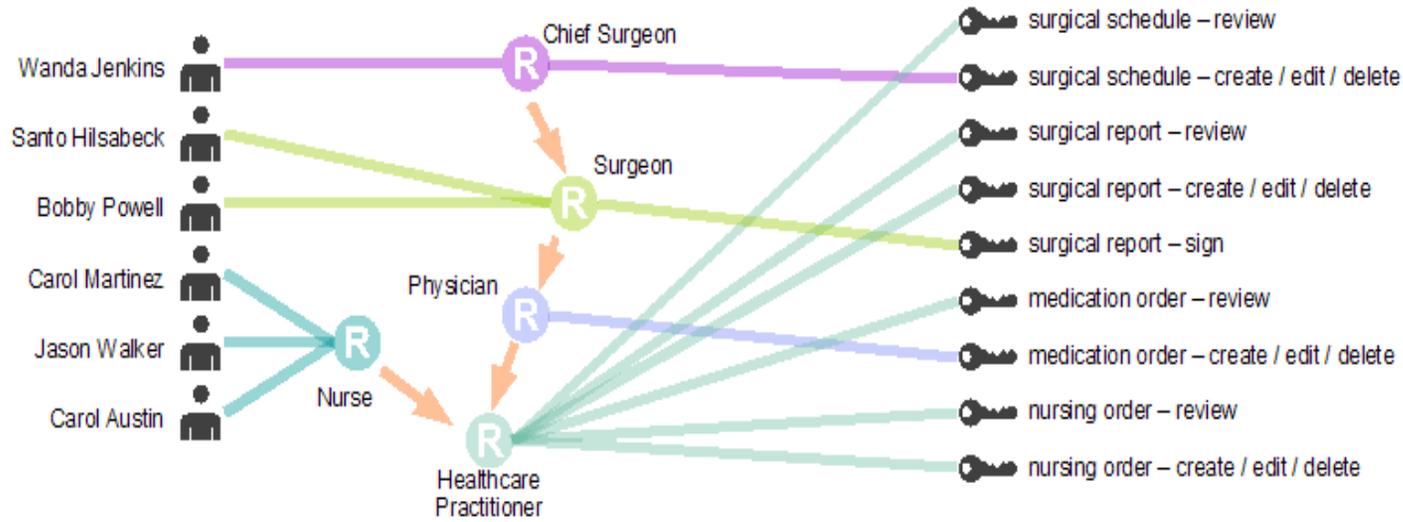
Sharing access to sensitive accounts is inevitable...
[However,] adequate control can mean the difference between disasters and effective operations."
Forrester Research



Intelligence building Identities



- Simplify roles and access assignments
 - Ability to handle growth and scale
- Facilitate accountability and compliance



name: Carol Martinez
 dept.: Surgery
 job title: Physician
 manager: Jason Walker
 emp. type: permanent

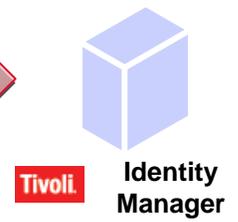
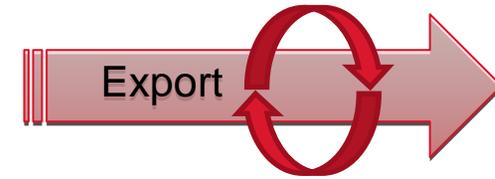
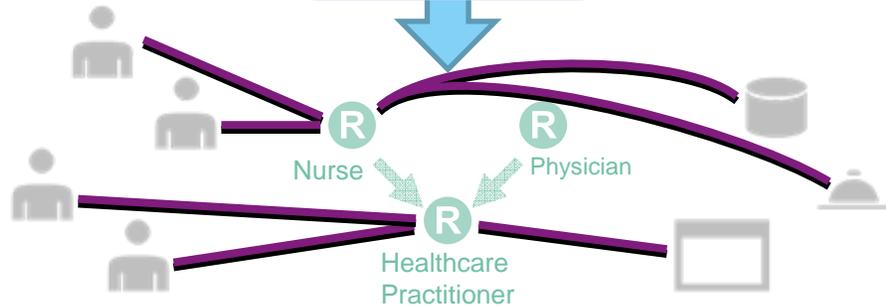
name: Jason Walker
 dept.: Surgery
 job title: Registered Nurse
 manager: Sandra
 emp. type: permanent

name: Janine Austin
 dept.: Surgery
 job title: Enrolled Nurse
 manager: Jason Walker
 emp. type: temporary



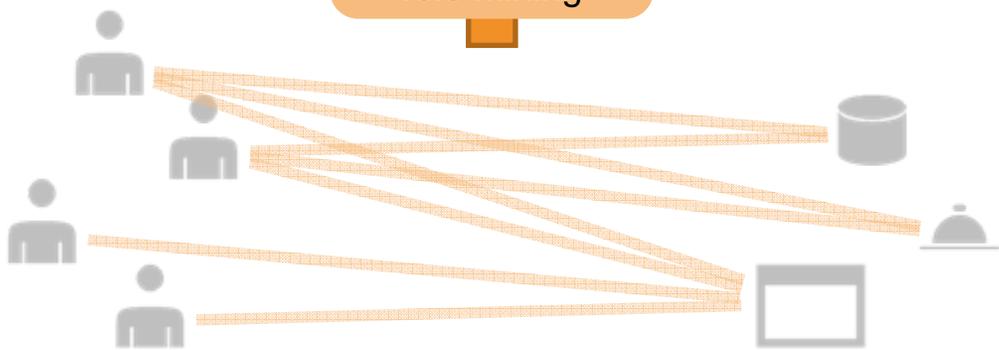
top-down
 role modeling

Record Feed - Identities



bottom-up
 role mining

Record Feed - Permissions





Engaging with IBM technologists

IBM Advocacy Program

- An initiative of the [IBM Academy](#)
 - A society of IBM's technical leaders organized to
 - advance the understanding of key technical areas
 - improve communications in and development of IBM's global technical community
 - engage clients in technical pursuits of mutual value
- Established in 1989, and loosely modeled on the National Academy of Science
 - transformed in 2009 for today's IBM
- Supports various forms of the advocacy:
 - Technical Advocacy Program (TAP)
 - Systems and Technology Group (STG) Advocacy program
 - Software Group (SWG) Advocacy
- Please discuss with the IBM Security Systems team if you'd like support from our development leaders



**IBM Academy
Of
Technology**





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