BOF4803

Open source identity and access management

1 October 2012   5:30p

San Francisco CA

Expert Panel

- Ludovic Poitou, ForgeRock
- Matt Hardin, Symas
- Pascal Jakobi, Thales Group
- Shawn McKinney, JoshuaTree

Moderator

- Kelly McKinney, JoshuaTree

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Agenda

- Panelist Presentations (5 minutes each)
- Questions

Why are we here?

- Why open source software for security?

- What are you doing now?

- What needs to be done?

- How can we work together?

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ForgeRock

Ludovic Poitou

JavaOne

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ForgeRock

- Founded in October 2009
- ~80 Employees Worldwide
- Headquartered in San Francisco
- Subsidiaries in US, UK, Norway, New
- Zealand & France
- Marquee Investor: Accel Partners
- Marquee Advisors: McNealy / Gosling

-
  - Director ForgeRock France
  - Software Engineer,
  - Started with Java in 1995 at Sun.

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ForgeRock Open Identity Stack
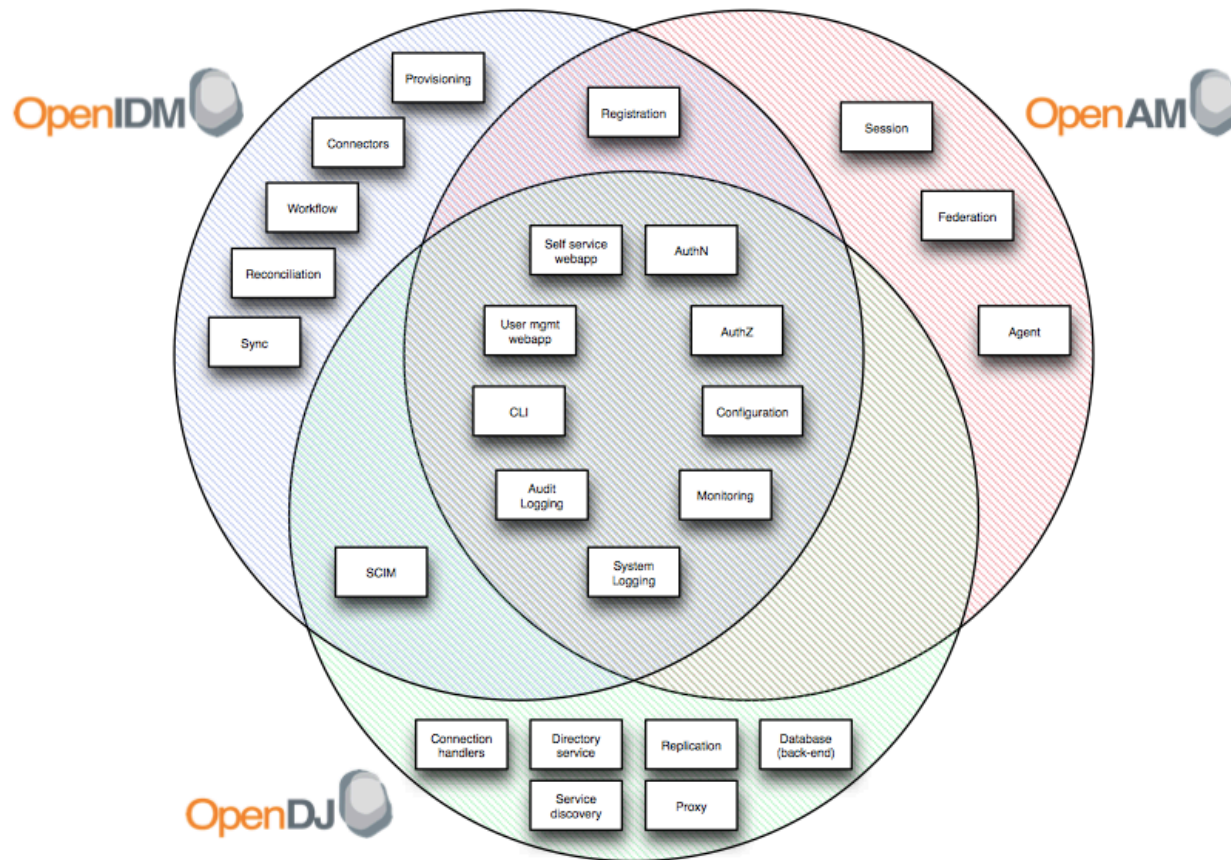
ForgeRock

Architecturally Unique

- Open Source
- Common Modules
- Common API
- Common Libraries
- Common UI
- 100 % Java

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Open Source Community

ForgeRock

- 100% Open Source, Open development
- License: CDDL
- OpenAM – openam.forgerock.org
  - Authentication, Authorization, Federation, …
  - Continuation of Sun OpenSSO project (Sun Access Manager)
- OpenDJ – opendj.forgerock.org
  - LDAPv3 compliant directory services
  - Continuation of Sun OpenDS project
- OpenIDM – openidm.forgerock.org
  - Provisioning, Reconciliation, Workflows…
  - New project, built on OpenICF (Identity Connector Framework)
  -

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Matt Hardin

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About Symas

- Founded 1999

- 9 employees across two continents

- Main commercial developer of OpenLDAP

- Took OpenLDAP from a "Reference Implementation" to the leading Open Source LDAP directory implementation

- Core business built around developing OpenLDAP and providing commercial-grade support

- A-list of customers, supporting small to global deployments

- 100% Open Source

- NO DEBT!

Matt Hardin

- Generalist- right tool for the job (yes, I've used Java)
- Extensive software/hardware development background ranging from embedded systems to network server and security systems.
- M&A work in mid-90s performing technical due-diligence for IAM systems.
- Co-founder, Symas Corporation
- Many hats- VP Engineering, Chief Product Officer, Release Control, Janitor.
- mhardin@symas.com - http://www.symas.com

How We Got Here

- Besides having the fastest, most flexible, and the most stable directory server on the market… ☺
  - Heavy investment in OpenLDAP code base
  - Professional product discipline married to Open Source freedom
  - Responsible conduct engenders confidence in Open Source for mission-critical applications
  - Transparency and Access to personnel
  - Excellent value - Deliver more than is expected
  - Easy to do business with
  - Partnerships and Alliances
    - Sponsored development, results contributed to Project
    - Resellers and OEMs around the globe
    - Partnerships with organizations like Joshua Tree
  - Persistence, Reputation, and TRUST

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Open Source for Security?

- Why?
  - Best approach for developing security software
    - Security comes from algorithms and good design, not from obscurity
    - Extensive peer review - Many eyes makes for better code
  - Community-driven
    - Community defines important feature set, often implements big chunks
    - Benefit is ability to use free of charge*
    - Ownership by neutral, mission-focused entity
  - Partnerships for mutual benefit, not necessarily financial
- How?
  - Ubiquity – It's got to be accessible on many platforms and from many environments
  - Education – People need to know how to use it
  - De-facto standard

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Pascal Jakobi

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Shawn McKinney

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Shawn McKinney

- Experienced delivering custom IAM solutions to financial service datacenters in Europe, North and South America using open source technologies

- Formed JoshuaTree in 2011

- Using Java and LDAP technologies since 1999

- shawn.mckinney@joshuatreesoftware.us

Fortress Vision

- Open Source
- Standards-Based
  - RBAC, XACML, SAML
- Enterprise Class
  - OpenLDAP maturation
  - the 'ilities'
  - memory-mapped DB
  - auditing with access log

2009

JavaOne

Securing Web and SOA
with Apache Axis, WSS4J,
Spring, and OpenLDAP
Shawn McKinney

- Secure technology gap persists
- Needs remain for infrastructure that
  - is robust, cost-effective, extensible, and long-term viable
  - is well documented, easy to use and technically mainstream
  - includes a common, robust API that works across all platforms
- Opportunity exists to
  - consolidate efforts into a single IAM suite

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Fortress Today

- Standards-based Identity and Access Management system, written in Java.

- Uses LDAPv3 protocol to directory servers

- Representational state transfer over the Web.

- ANSI Role-Based Access Control (INCITS 359)

- Administrative Role-Based Access Control (ARBAC02)

- IETF Password Policies

- Centralized Audit covers AuthN, AuthZ, and Mod events

- Java EE Platform Security

- Multi-tenant capable

- Downloads available from iamfortress.org

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Fortress Tomorrow

- 2.0 En Masse Policy Server
  - 120 RESTful IAM services cover full identity mgmt lifecycle
  - Built using Apache CXF framework
  - Simple Cloud Identity Management (SCIM)
  - XACML
  - **October 2012 Release**
- 3.0 Commander Web UI Server
  - currently in development
  - Fortress & OpenLDAP administration
  - Building with Apache Wicket framework
  - April 2012 Release
- 4.0 Perimeter SSO Server
  - B2C and B2B
  - SAML 2.0, OpenID, and OAuth
  - inception phase
  - October 2013 Release

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Questions

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