

# How 20+ US universities are using Gluu to ease operation of a Shibboleth IdP

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InCommon®



## Today's Agenda

1. Introduction & Overview
2. Typical Gluu Deployments
3. The Business Case
4. Gluu Demo
5. Q&A

Hosted by:



**Mike Schwartz**

Gluu CEO and Founder

# Gluu Overview

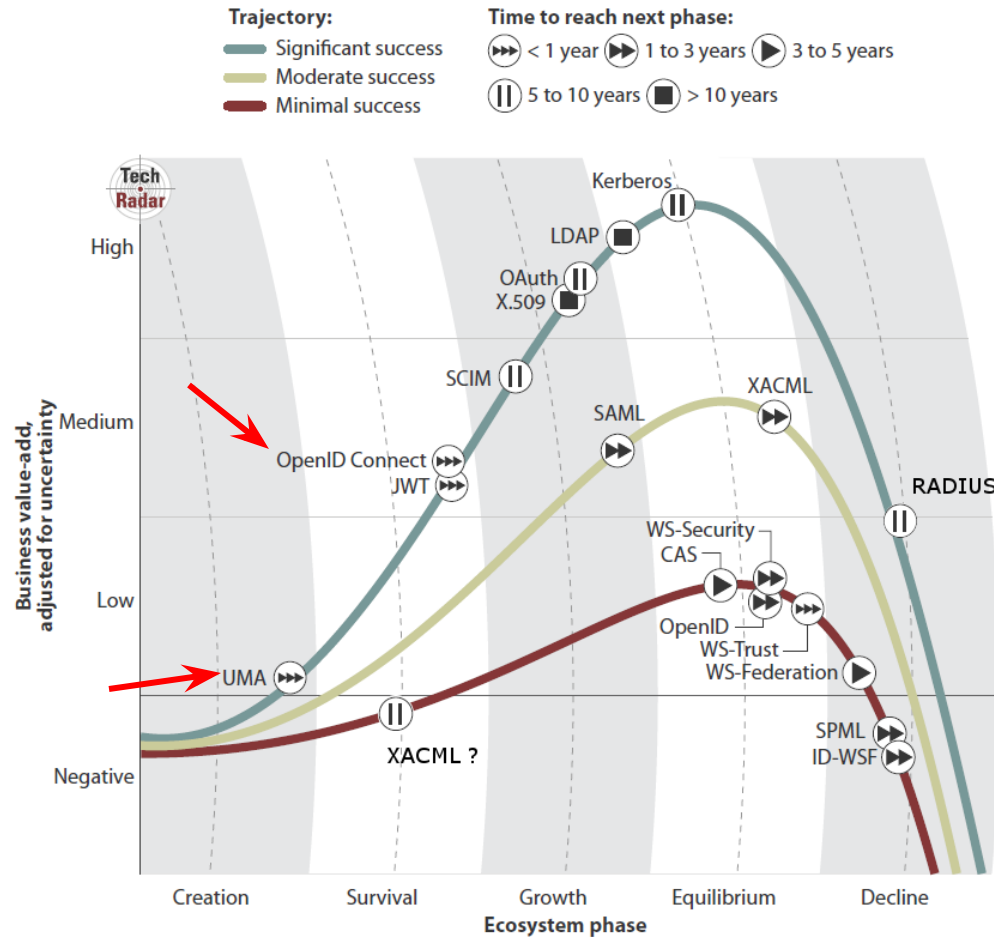
- Founded in 2009 to help organizations decrease the cost and increase the quality of authentication and authorization services.
- Authors of “OX”, a leading open source project that implements new OAuth2 protocols and older protocols like SAML and RADIUS.
- Gluu offers scalable “utility” services to large organizations who want to use OX
- Gluu eases the on-boarding of new IDPs to a federation

# Market Trends

- **Current “WAM” Web Access Management platforms are old**
  - Commercial WAM products result in vendor lock-in
  - Very custom: too expensive to design, build and operate
  - Don’t play nice with mobile applications
- **Move to strong authentication**
  - New two-factor authentication mechanisms have better price and usability
- **Move to Open Standards**
  - OAuth2 and SAML make it possible to centralize authentication and authorization for both internal and SaaS applications
- **Move to Open Source**
  - Open source is the best. OX will be aligned with a major open source foundation like Apache or Shibboleth.

# Rising Tide : OAuth 2.0 Profiles

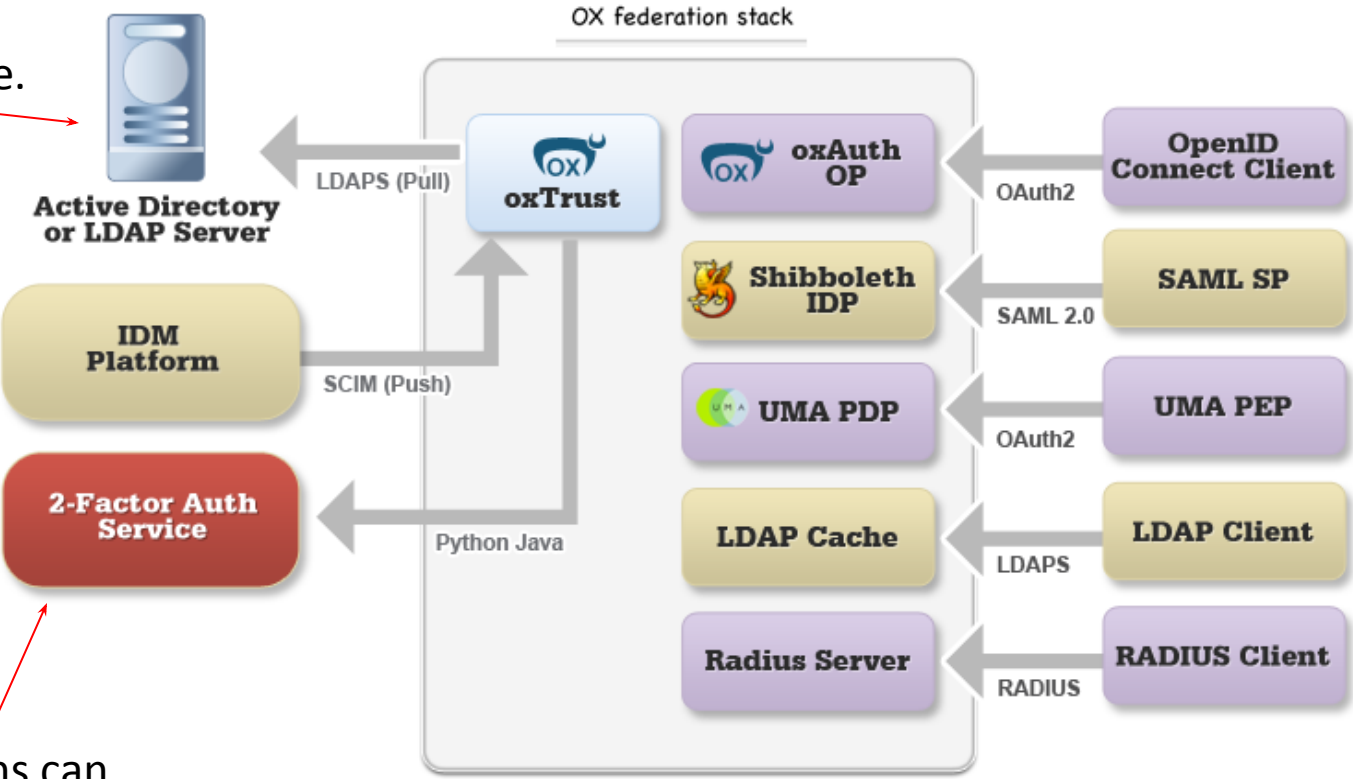
Figure 1 TechRadar™: Zero Trust Identity Standards, Q3 '12 Technologies Evaluated



Gluu supports two profiles of OAuth2: OpenID Connect and UMA

# How OX Works

OX enables an organization to use existing LDAP or IDM infrastructure.



Organizations can support multiple strong authentication providers.

The OX Platform is in this grey box !

Apps use open standards like SAML and OAuth2 to authenticate and authorize people using OX

# What is a Gluu Server?

- **Automatic “Puppet” deployment of OX**
  - Puppet is a central configuration platform that enables Gluu to create a recipe for a type of server
  - Gluu’s marginal cost per server is low
- **Shared operational model**
  - Gluu / Customer both have “root access” on IDP
  - Customer provides IAAS service
  - Customer interfaces with App Developers
  - Gluu manages OAuth2 / SAML configuration for IDP
  - Gluu provides monitoring / SLA Reporting

# Typical Deployments:

## Number of Gluu Servers

### **1 Server:**

1 Production Server.

### **2 Server:** *(More Stable)*

1 Production Server, 1 Development Server.

### **4 Servers:** *(Most Stable)*

2 Production Servers, 2 Development Servers

w/ Clustering for High Availability



# BOT Business Model

- **Build**
  - Help customers quickly deploy OX using our automatic puppet deployment model
- **Operate**
  - Customers can reduce the cost of “care and feeding” and leverage Gluu’s infrastructure for monitoring, reporting.
- **Transfer**
  - Provide training and certifications

# The Business Case: **Buy vs. Build..?**

Typical **Gluu EDU** deployment:

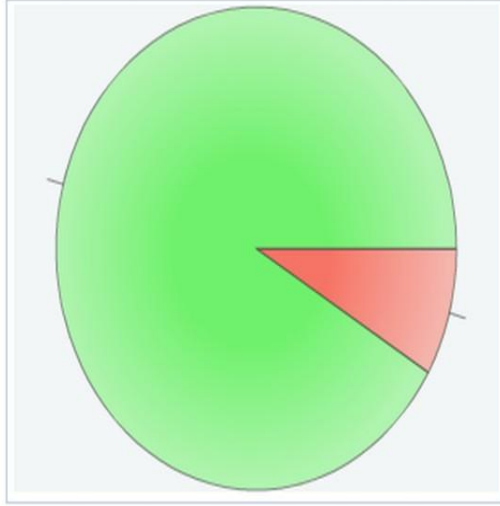
2 Servers = \$5,200/yr = ~ 8% FTE (Full Time Employee)

## **For 8% FTE resource:**

- A GUI for Shibboleth (*No More Manual XML!!*)
- Expert support from team of federation specialists
- 24/7 Monitoring
- Configuration management
- Revision Control
- SLA reporting

Host:  From 01/01/2012 00:00 to 11/07/2012 00:00

Reporting Period: This Year or From  to



Host state

State	Duration	Total Time	Mean Time	Alerts
UP	5M 3w 2d 20h 42m 14s	91.42%	91.42%	190
DOWN	2w 2d 11h 17m 46s	8.58%	8.58%	160
UNREACHABLE		0%	0%	0
SCHEDULED DOWNTIME		0%		
UNDETERMINED		0%		
<b>Total</b>	<b>6M 1w 3d</b>			<b>350</b>

State Breakdowns For Host Services

Service	OK		Warning		Critical		Unknown		Scheduled downtime	Undetermined
	%	Alert	%	Alert	%	Alert	%	Alert		
check_idif_app_average_load	14.96% (26.05%)	784	2.56% (4.45%)	2459	39.9% (89.5%)	2656	0% (0%)	0	0%	42.58%
check_idif_app_ds_status	100% (100%)	61	0% (0%)	0	0% (0%)	1	0% (0%)	0	0%	0%
check_idif_app_free_disk_space	100% (100%)	60	0% (0%)	0	0% (0%)	0	0% (0%)	0	0%	0%
check_idif_app_free_memory	100% (100%)	61	0% (0%)	0	0% (0%)	1	0% (0%)	0	0%	0%
check_idif_app_vds_status	81.52% (81.52%)	32	18.38% (18.38%)	38	0.1% (0.1%)	6	0% (0%)	0	0%	0%
check_idif_app_free_swap	100% (100%)	61	0% (0%)	0	0% (0%)	1	0% (0%)	0	0%	0%
check_idif_app_last_update	97.86% (97.86%)	86	0.05% (0.05%)	23	2.09% (2.09%)	19	0% (0%)	0	0%	0%
check_idif_app_person_count	100% (100%)	62	0% (0%)	0	0% (0%)	2	0% (0%)	0	0%	0%
check_idif_app_ssl_expiry	100% (100%)	61	0% (0%)	0	0% (0%)	1	0% (0%)	0	0%	0%
check_idif_app_system_uptime	100% (100%)	62	0% (0%)	0	0% (0%)	2	0% (0%)	0	0%	0%
check_idif_app_http_status	72.56% (72.56%)	66	0% (0%)	3	27.44% (27.44%)	3	0% (0%)	0	0%	0%
<b>Average</b>	<b>87.9% (88.91%)</b>	<b>1396</b>	<b>1.91% (2.08%)</b>	<b>2523</b>	<b>6.32% (9.01%)</b>	<b>2692</b>	<b>0% (0%)</b>	<b>0</b>	<b>0%</b>	<b>3.87%</b>

# Gluu EDU Add-ons:

- Multi-Factor Authentication (vendor neutral)
- Clustering for High Availability (min. 4 Servers)

# DEMO

- Authentication
- Identity Management
  - Attributes
  - LDAP Mapping
- Look and Feel
- SAML
  - Trust Relationships
  - Federation Hosting
- OpenID Connect
  - Two Factor Authentication
  - Scopes
  - Clients
  - Discovery
- UMA

# Q & A

Learn More at

<http://gluu.org/edu>

## Some Gluu EDU Customers:

- University of Kentucky
- Oklahoma State University
- The University of Oklahoma
- Georgia State University
- Franklin and Marshall
- Boise State University

## We Support:

