

Open Source Identity for the Web 2.0 Era

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Agenda

- OSIS
 - A confederation of open source projects
- OpenSSO
 - Sun's open source identity project
- Project Lightbulb
 - Bringing open identity standards to the wider world
- Demo
 - With source code!
- Resources
 - All the URLs

OSIS

- Open Source Identity System – 'Identity 2.0'
- Umbrella Organization
 - Bandit (Novell)
 - Heraldry (Apache)
 - Higgins (Eclipse)
 - OpenSSO (Sun)
 - OpenXRI (Epok)
 - Shibboleth (Internet2)
 - Whobar (Sxip)
- Goals:
 - Internet-scale identity interoperability across projects, protocols, companies and platforms
 - Enable a pluralistic technology and business ecosystem for identity product and service components



OpenSSO

- Based on Sun Java System Access Manager 7.0
- Basis for Sun Java System Access Manager 8.0
- Enterprise
 - Access Control
 - Single Sign-On
- Federation
 - SAML 1.x
 - Liberty ID-FF
 - SAML 2.0
- Web Services
 - WS-I BSP
 - Liberty ID-WSF



What's New

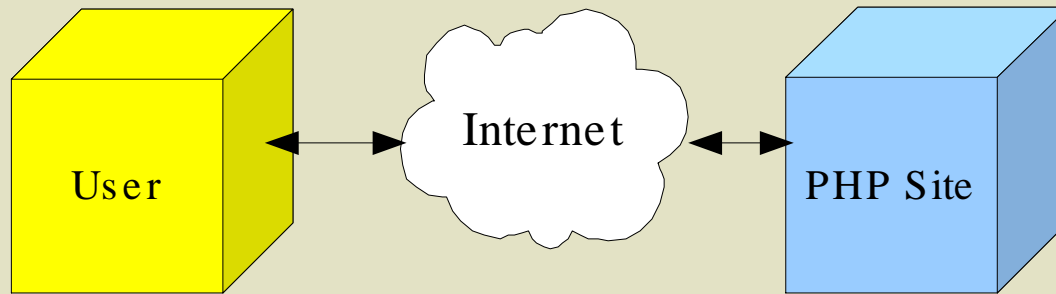
- Java EE Web Application
 - Single WAR file deployment
- CDDL License
- ID-WSF 2.0
- WS-* support
 - WS-Federation – integration with Active Directory Federation Services (ADFS)
 - WS-Trust – integration with Windows Communication Foundation (WCF/Indigo)
- External participation
 - Already have code contributed from participants outside Sun



Requirements from Web 2.0 world

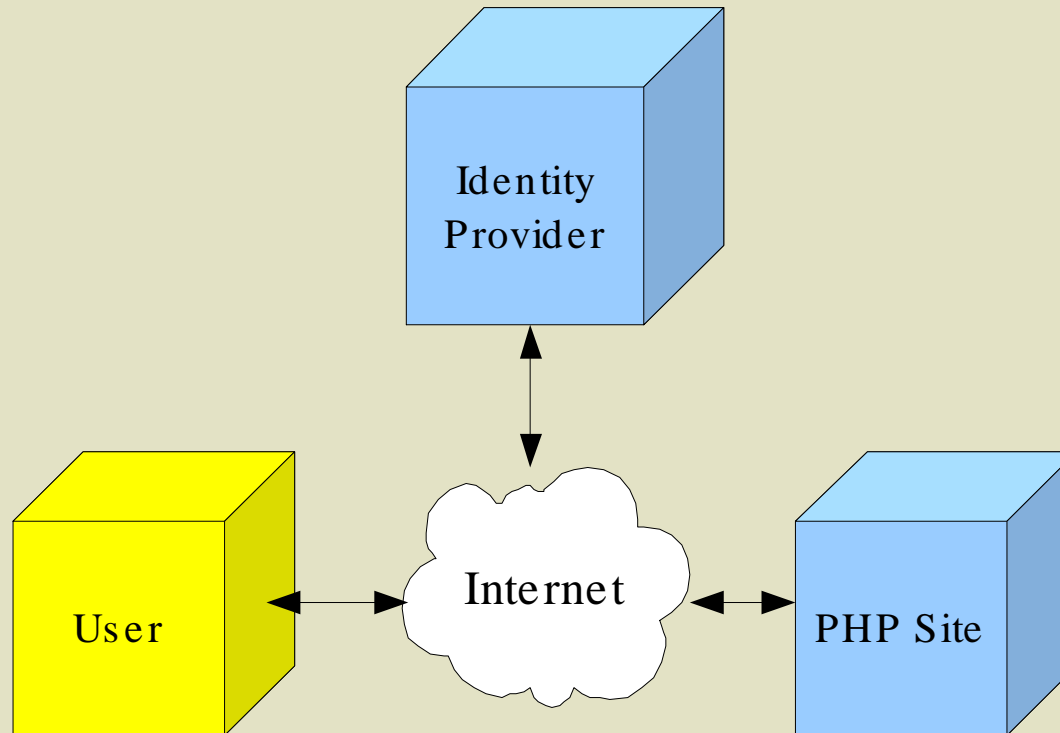
- Mashups involve multiple sites
 - Need mechanisms to transport identity across sites
- SAML 2.0
 - Open Standard
 - + Security, Privacy, Industrial Strength
 - - Complexity: SOAP, XML Signature
- Lightweight language
 - PHP
 - Perl
 - Python
 - Ruby
- LAMP
- Open Source

Typical Scenario



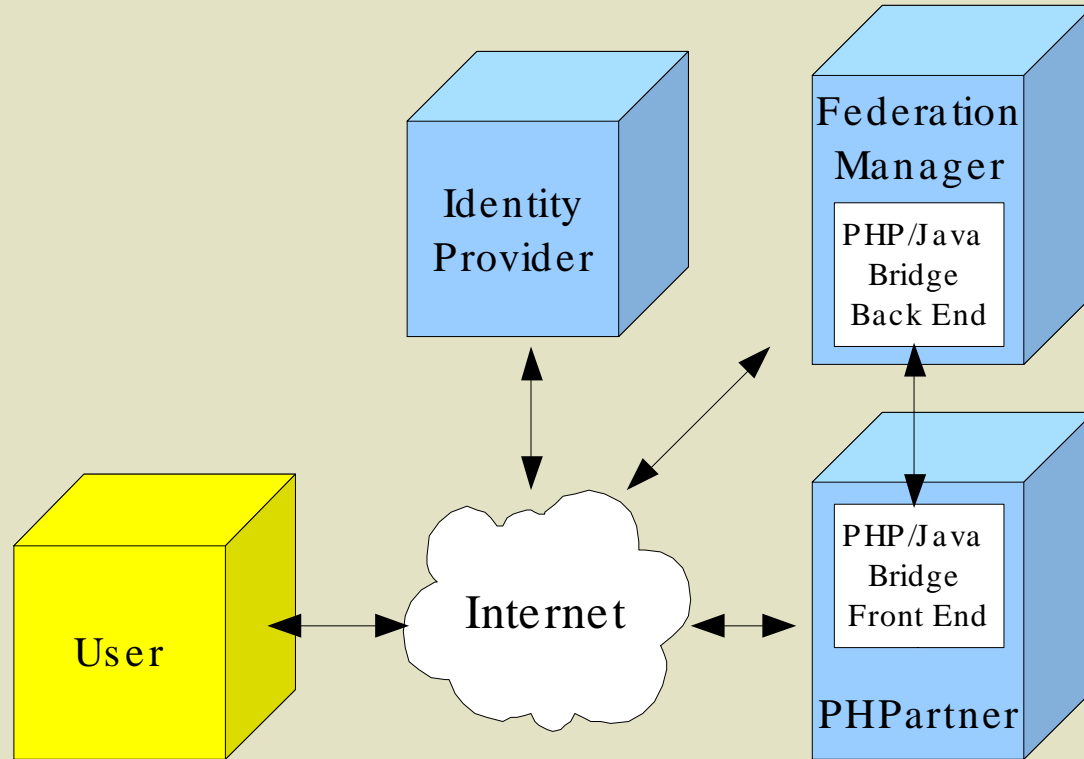
- PHP Site currently authenticates all users locally

Requirement for Federation



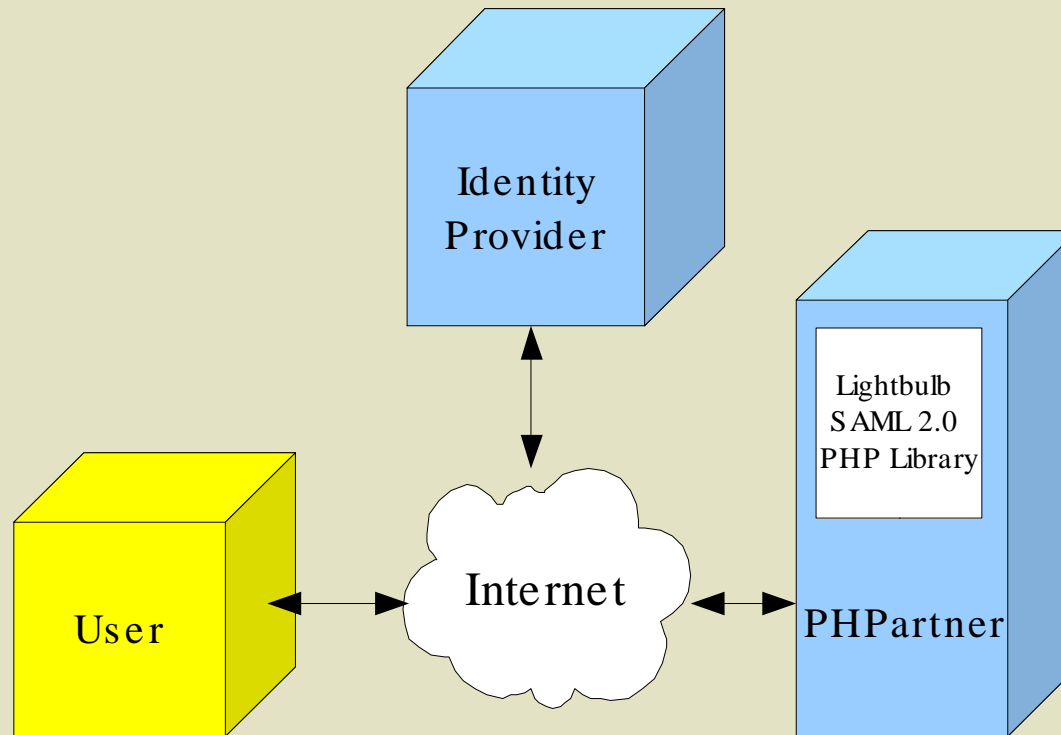
- PHP Site wants to delegate authentication for some set of users *to an identity provider*

Solution 1 – PHP/Java Bridge



- Requires Open Federation / Federation Manager

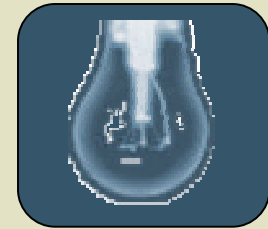
Solution 2 – 'Pure' PHP Library



- No separate federation server required

Project Lightbulb

- Extending OpenSSO
 - Linux/Apache/MySQL/PHP-Perl-Python (LAMP)
 - MySQL/Apache/Ruby/Solaris (MARS)
 - .NET
- Initial work is in PHP
 - 'Native' SAML 2.0 SP implementation
 - SSO, SLO
 - *No custom PHP modules required*
 - Source code available NOW in OpenSSO
 - Many thanks to Rob Richards for PHP XML Security code
 - 'Bridge' to OpenSSO
 - 'mashing up' PHP/Java
 - To be released later in 2006
 - Can SAML 2.0 enable Drupal, WordPress
- Ruby in pipeline



DEMO

Project Lightbulb

- What next?

Project Lightbulb

- What next?
 - You decide!

Participate!

- OpenSSO web site - opensso.dev.java.net
 - Join now!
- Downloads
 - Try it out!
- Mailing Lists
 - dev, users, announce
- IRC Channel - #opensso
 - Real-time
 - On-line community

Get OpenSSO Now!

Resources

- Liberty Alliance Project
 - <http://projectliberty.org>
- OSIS
 - <http://osis.netmesh.org/>
- OpenSSO
 - <https://opensso.dev.java.net/>
 - <irc://irc.freenode.net/#opensso>
- Shameless self-promotion :-)
 - <http://blogs.sun.com/superpat>
 - pat.patterson@sun.com