

Beyond the IP Address: Shibboleth and Electronic Resources

InCommon Library/Shibboleth Project

INTERNET®

Holly Eggleston, UCSD



What is the Library/Shibboleth Project?

- Established 2007
- Five universities + Internet2
- Campus IT, Library IT, Librarians



INTERNET²

Holly Eggleston, UCSD

Library concerns with Shibboleth

- Communication with campus IT
- Privacy
 - Privacy with individual vendors
 - Privacy across vendors
 - Session persistence
- Walk-in users
- Library patron database integration

Electronic resources background

- Ten years of growth
- Prevalence of home computing
- Increase in distance education
- Convenience and user expectation
- Hundreds of vendors, thousands of resources
- Significant part of the library collection budget
- Access and use restrictions
- Substantial work to integrate this seamlessly

Electronic resource challenges

- Remote access is problematic
- Maintaining IPs is time consuming and unreliable

Focus of the Library/Shibboleth Project

- Improving access to licensed electronic resources
- Identify user scenarios
- Document business practice and technology issues
- Test solutions

In an ideal world ...

- Integrated access to licensed library resources regardless of user location
- Consistent user experience for authentication
- Reduced maintenance overhead for library resources
- Reliable authentication for vendors

How do we get there?

INTERNET[®]

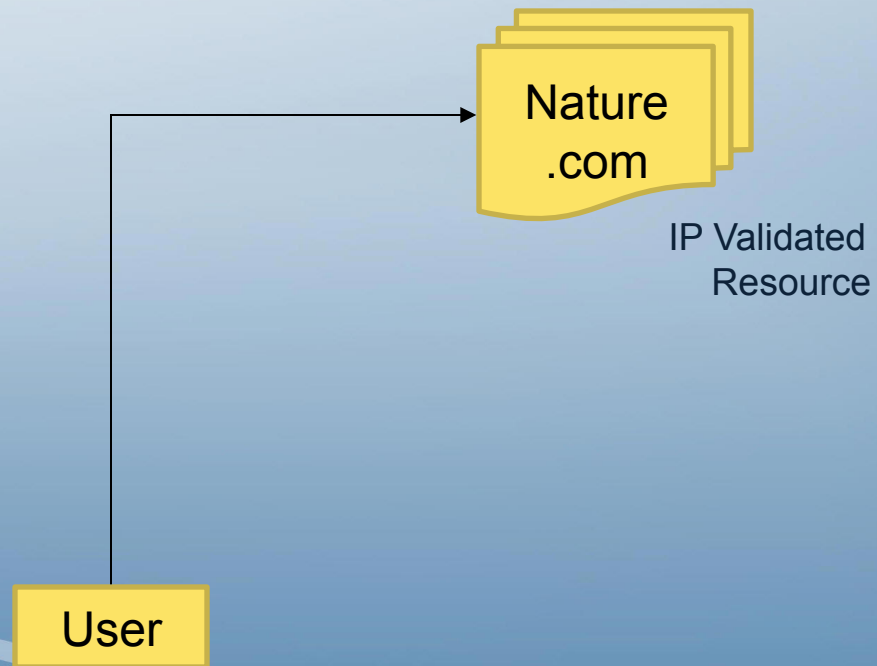
Holly Eggleston, UCSD



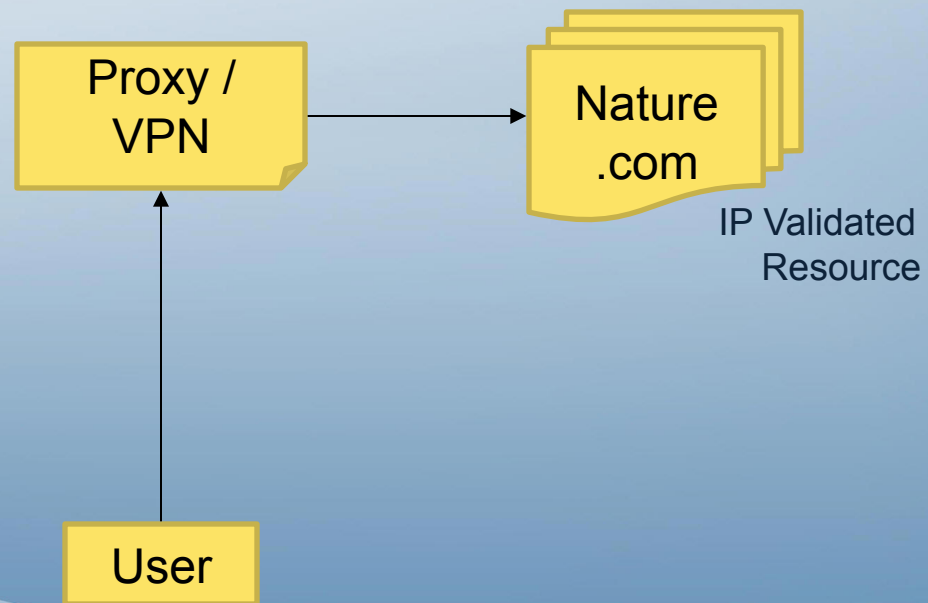
Technologies explored

- Shibboleth
- EZproxy
- mod_auth_location

Scenario 1 - IP validated resource, on campus



Scenario 2 - IP validated resource, off campus

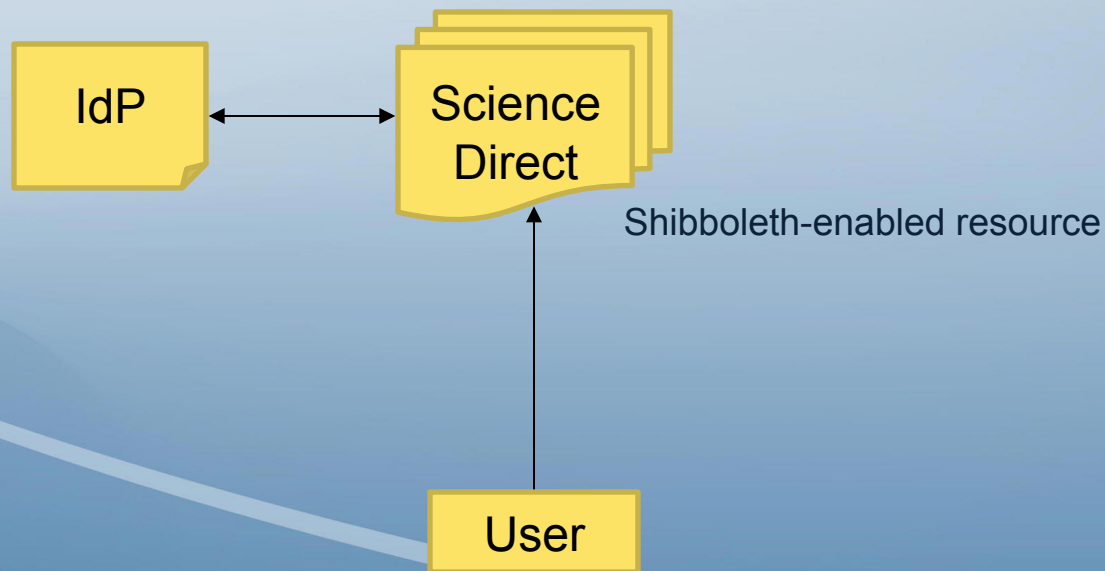


What is Shibboleth?

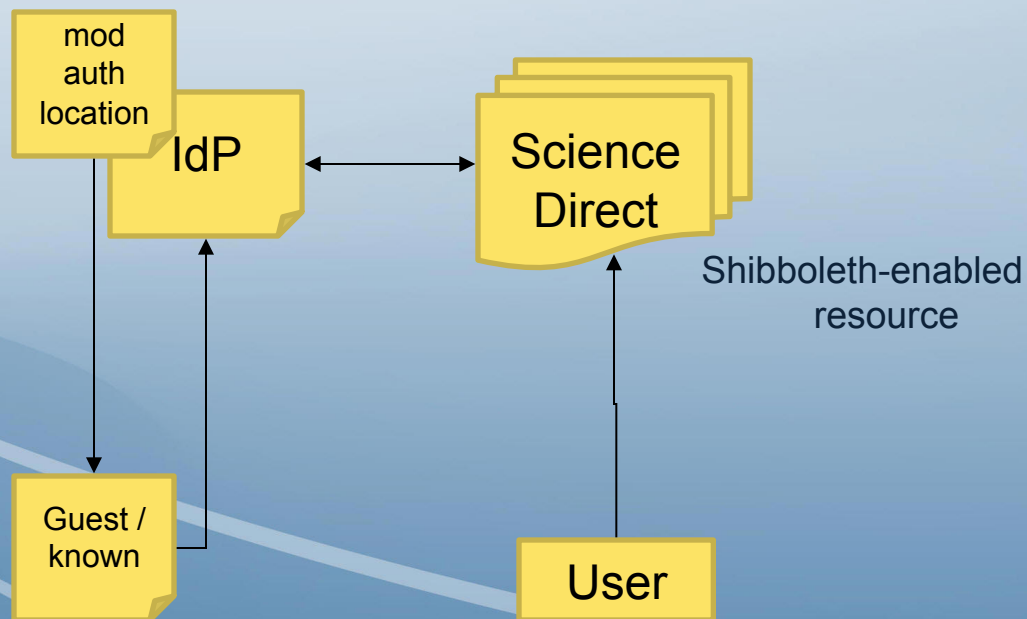
- Open source standards-based web single sign-on package
- Leverages local identity management system
- Enables access to campus and external applications
- Protects users' privacy
- Helps your service partners
- Plays well with others



Scenario 3 - Shib-enabled resource anywhere



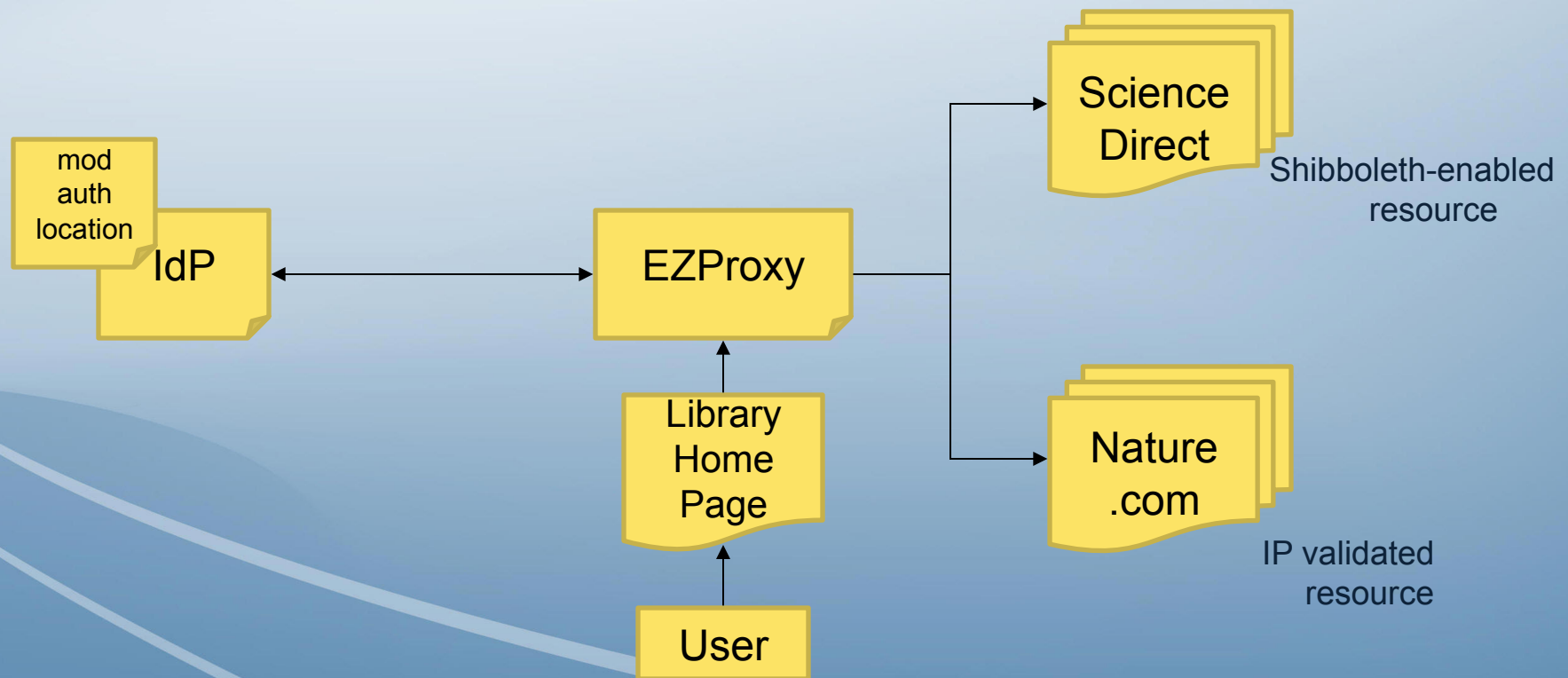
Scenario 4 - Shib-enabled resource, on campus



What is EZproxy?

- Server side proxy
- Inexpensive
- Library-focused
- Single-sign on compatible

Scenario 5 - Single sign on proxy



Shibboleth + EZProxy Benefits?

Benefits to users

- Single sign on
- Personalization while maintaining privacy

Benefits to librarians

- Manage IP's locally
- Reduced cost of support

Benefit to library administration

- Tracking of usage

UCSD as case study

- Implemented Shibboleth (2005)
- Shibboleth enabled campus services
 - Financial, employee and student systems
 - Blogs, recreation scheduling, housing
- Piloting electronic resource access (2007)
 - Shibboleth-enabled EZProxy
 - Shibboleth-enabled electronic resources
- Investigating ILS-managed services
 - ILL, account management

What can you do?

- Work with what you have
- Get EZProxy
- Implement Shibboleth
- Explore local issues and concerns with your librarians and staff
- Pilot existing SSO vendors
- Discuss interest in SSO to commercial vendors

Next steps – Library/Shibboleth Project

- Recommending best practices and solutions to common use cases
- Conducting pilots to validate approaches
- Encourage adoption of Shibboleth by US institutions and libraries
- Partner with other federations to leverage existing work and encourage vendor participation in US federation
- Enable community information sharing

Shibboleth-enabled information providers

- American Chemical Society
- Atlas (ILLiad/ARES)
- Atypon
- CSA
- EBSCO
- Elsevier Science Direct
- Ex Libris
- EZprozy
- JSTOR
- Literary Encyclopedia
- OCLC WorldCAT
- OVID/SilverPlatter
- Project MUSE
- Proquest
- Safari (underway)
- SCRAN
- Serials Solutions
- Springer
- Thomson Gale
- Thomson ISI (underway)

More information

<https://spaces.internet2.edu/display/InCCollaborate/Home>

heggleston@ucsd.edu

INTERNET[®]

Holly Eggleston, UCSD

