Webauth, EDS & Shibboleth

Integrating with the U of A’s single sign on and directory services.

Mark.Fischer@arizona.edu

February 13, 2013
FERPA

- University Records are protected by law
- Complete FERPA training before applying for EDS or Shibboleth Access
  - [http://ferpa.registrar.arizona.edu](http://ferpa.registrar.arizona.edu)
Webauth

- Who are you?
  - Offload login to another service
  - Don’t maintain your own list of users & passwords
  - Don’t need your own SSL certificate
EDS

- What can you do?
  - Offload basic authorization tasks
  - Retrieve user attributes
  - Determine if someone is in a particular class
  - Determine if someone is a staff, student, faculty, etc.
Shibboleth

- Who are you & what can you do?
  - Incorporates webauth login & EDS attributes
Webauth
Webauth

- Handled within your server-side code
- Register your website with the webauth service
  - http://uits.arizona.edu/forms
- Redirect someone to webauth service
- Receive a Ticket when they come back to your site
- Validate the Ticket
Initial Request

Redirect to WebAuth service with service name and return URL

Authenticate and set WebAuth cookie

Redirect to Web App with Ticket

Return to Web App with Ticket

Verify Ticket

Receive Verification & User Data

App Internal Authorization

Redirect to Application Content & set Application Cookie

Authorized Requests
Webauth Code Demo
EDS

- Look up information about people
- Names, Email Addresses, Departments, Enrollment, etc
- EDS is **not** a system of record. It aggregates information from multiple authoritative data sources.
  - UAccess Student
  - UAccess Employee
  - EPM
EDS

- “Is this person currently affiliated with the University?”
- “Is this person a current Student?”
- “Does this person work for department X?”
- “Is this person teaching a class this semester?”
EDS Attributes Examples
http://sia.uits.arizona.edu/eds_attributes
EDS Code Example
Shibboleth

- Webauth + EDS
- Uses Webauth for authentication
- Populates web server environment variables with EDS attributes
  - Not all EDS attributes are populated
  - Shibboleth attribute names differ from the EDS names
Shibboleth Server Instal

- Install the Shibboleth software on your web server
  - `yum install shibboleth`
- Read SIA’s Shibboleth deployment documentation
  - [http://sia.uits.arizona.edu/shibb_deployment](http://sia.uits.arizona.edu/shibb_deployment)
- Request access for your web application
  - [https://eds.arizona.edu/access/accounts/](https://eds.arizona.edu/access/accounts/)
- Sign up for the UA Identity and Access Management email list: `<UA-IAM@list.arizona.edu>`
- Bake Gary’s team cookies
Shibboleth Code Demo
## Comparison

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WebAuth</td>
<td>✔️</td>
<td></td>
<td>✔️ ✔️ ✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDS</td>
<td></td>
<td>✔️ ✔️ ✔️</td>
<td></td>
<td></td>
<td></td>
<td>✔️</td>
</tr>
<tr>
<td>Shibboleth</td>
<td>✔️</td>
<td>✔️ ✔️ ✔️</td>
<td>✔️ ✔️ ✔️</td>
<td></td>
<td></td>
<td>✔️</td>
</tr>
</tbody>
</table>