Building Federated Identity Infrastructure
**Building an Identity Federation**

› **Chicken & Egg**
  › **Identity Providers with People**
  › **Service Providers with Resources**

› **How can I be an identity provider?**
  › **Do you have information on people?**
  › **Choose some software...**
  › **Success!**

› **What about service providers?**
  › **EIFL talks to publishers**
  › **There are other resources available too...**

› **Why do federated identity at all?**
How big is your problem?

› How many “login” boxes do you have in your campus?
  › If it is more that one – you need federated identity.
  › Use Google to search
    › site:auca.kg login
    › site:your.domain sign-in
    › site:your.domain.org password
  › Then make a spreadsheet...

<table>
<thead>
<tr>
<th>Site</th>
<th>URL</th>
<th>Product</th>
<th>Audience</th>
<th>Authentication</th>
<th>Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course management</td>
<td><a href="http://e-course.auca.kg/">http://e-course.auca.kg/</a></td>
<td>Moodle</td>
<td>Staff/Students</td>
<td>Windows Username/Password</td>
<td>High</td>
</tr>
<tr>
<td>e-Portfolio system</td>
<td><a href="http://eportfolio.auca.kg/">http://eportfolio.auca.kg/</a></td>
<td>Mahara</td>
<td>Staff/Students</td>
<td>Windows Username/Password</td>
<td>Moderate</td>
</tr>
<tr>
<td>Library Remote Access</td>
<td><a href="http://library.auca.kg/en/remote_access/">http://library.auca.kg/en/remote_access/</a></td>
<td>Ezproxy</td>
<td>Library Users</td>
<td>IP Auth (no off campus access)</td>
<td>Low</td>
</tr>
<tr>
<td>Library Databases</td>
<td><a href="http://library.auca.kg/en/databases/">http://library.auca.kg/en/databases/</a></td>
<td>Off-site</td>
<td>Library Users</td>
<td>IP Auth (no off campus access)</td>
<td>Low</td>
</tr>
<tr>
<td>Library Patron System</td>
<td><a href="http://library.auca.kg/en/authentication/">http://library.auca.kg/en/authentication/</a></td>
<td>Follet</td>
<td>Library Users</td>
<td>Self Sign Up</td>
<td>Low</td>
</tr>
<tr>
<td>Forum system</td>
<td><a href="http://forum.auca.kg/">http://forum.auca.kg/</a></td>
<td>InvisionPower</td>
<td>Uni Community</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Webmail</td>
<td><a href="http://mail.auca.kg/">http://mail.auca.kg/</a></td>
<td>Roundcube</td>
<td>Staff/Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apply Online</td>
<td><a href="http://applyonline.auca.kg/">http://applyonline.auca.kg/</a></td>
<td></td>
<td>Potential Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Career Application</td>
<td><a href="http://career.auca.kg/">http://career.auca.kg/</a></td>
<td></td>
<td>Students</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Concentrate on the skills you have or those you want to develop.

Separate IdP/SP/DS
IdP is Java (runs within Tomcat)
SP is C (supports Apache + IIS)

simpleSAMLphp from UNINETT
Integrated IdP/SP/Bridge/Disco
SAML 2.0/OAuth/OpenID
Facebook, Google, Windows Live
PHP (AUCA run their IdP on Microsoft Windows)
Multi-lingual interface (includes support for RTL languages).
Where are Identity Federations?

- Europe
- ULAKAAI
- OMAN_KID
- CARS
- GakuNin
- InCommon
- CAF
- CAFr
- AAF
- Tuakiri

Pilot
Production
Federations you’re NOT a part of...
How do I connect to everyone?

› eduGAIN solves the scaling problem for Services
› No longer join “customers” federation but instead join your “preferred” federation.
What should I do next?

› Download the EuroCAMP Materials
  › Sign-up for a Dynamic DNS account (free)
  › Run through the training
  › Provide me with feedback - is it confusing?
› Deploy a Campus Identity Federation
  › AUCA didn’t have the above materials!
  › AMRES is scaling the service for Serbia.
› Tell publishers/EIFL that this is what you want!
› Technology is only part of the solution
  › Policy is important too!
  › Technology can work on your campus now and build a valuable service to justify future policy effort.
EuroCAMP Istanbul

› Building Federated Identity Infrastructure 3-Day Event
  › simpleSAMLphp IdP
  › Shibboleth SP
  › JANUS for Metadata Management

› 19 Participants / 9 countries
  › Armenia
  › Azerbaijan
  › Belarus
  › Estonia
  › Lithuania
  › Moldova
  › FYR Macedonia
  › Serbia
  › Turkey
EuroCAMP Amsterdam

› Building Federated Identity Infrastructure 3-Day Event
  › simpleSAMLphp IdP
  › Shibboleth SP
  › JANUS for Metadata Management

› 19 Participants/10 countries
  › Bulgaria
  › Cyprus
  › Estonia
  › Georgia
  › Israel
  › Latvia
  › Lithuania
  › Romania
  › Russia
  › Slovakia
What’s in the course materials?

› Virtual Machine Player
  › VirtualBox or equivalent
› Virtual Machine Image
  › Based on TurnKey LAMP
  › Preinstalled Apache, SSL Certificates, simpleSAMLphp Shibboleth, MySQL, LDAP, DynamicDNS
› Training Materials
  › Intro to Federated Identity (activity)
  › Setup your environment (hands on VM)
  › My First IdP (hands on and information)
  › Shibboleth Service Provider (hands on)
  › JANUS for Metadata Management
eduroam
Questions?

“Give a Man a Fish, Feed Him For a Day. Teach a Man to Fish, Feed Him For a Lifetime”

Lao Tzu