

- Origin of Shib
- Status of Shib
- System architecture
- Demo
- Technologies involved
- How to implement a target site
- AAI-specific configuration
- Need to know & pitfalls
- Open issues

Part of Internet2

Middleware Architecture Committee for Education (MACE)

Design goals:

- Federated administration
- **Privacy**
- Web-based resources

Latest Version: **alpha 2.5**

- difficult to install
- just enough functionality for a working Shib implementation

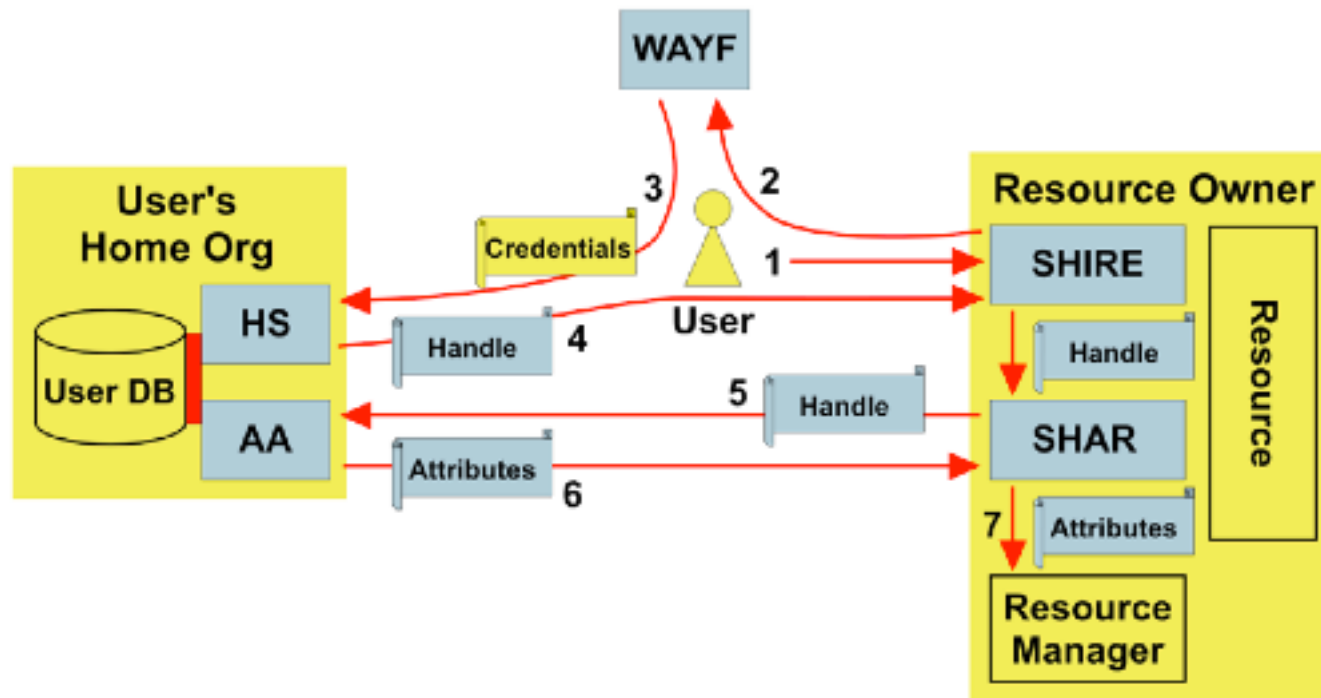
Next release: **beta**

- goes to first test site in the US later this week
- should be easier to install (./configure, make install)
- complete rewrite of target side, no tomcat/java anymore on target side

Shib v1.0: should be available on 25.10.02

Origin site

Target site

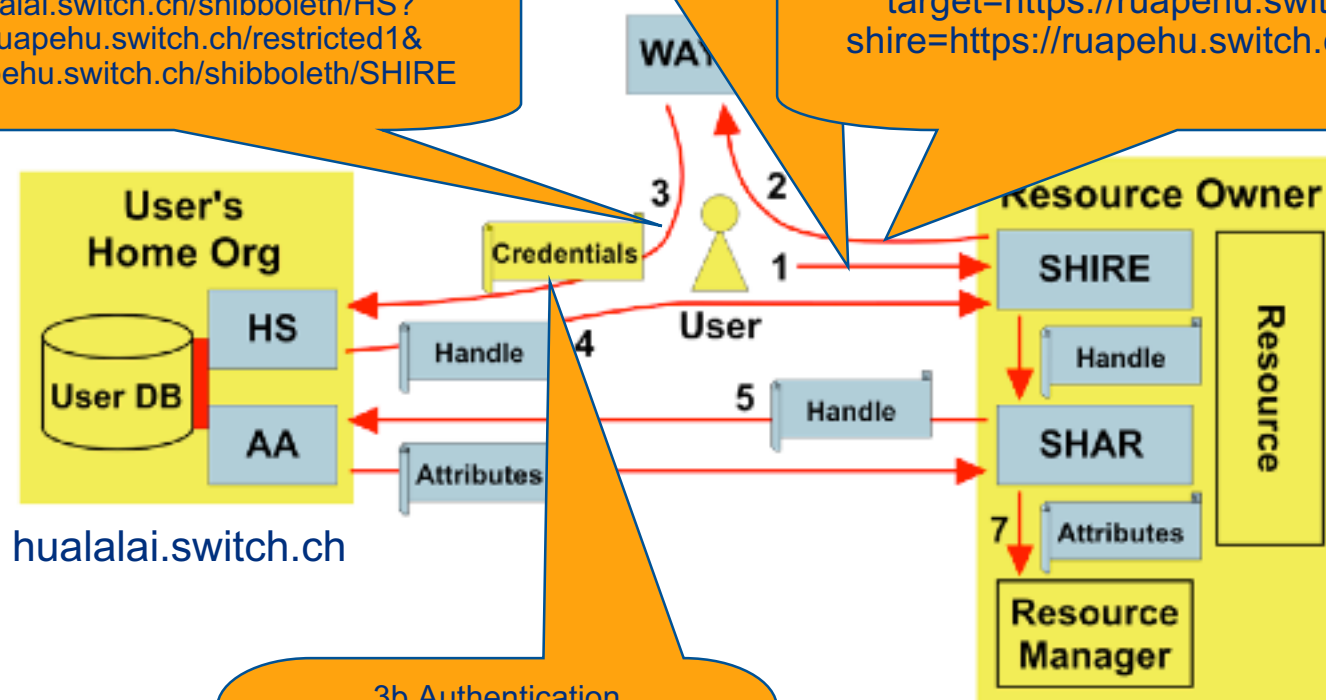


HTTP(S) calls, Part 1/2

1. <https://ruapehu.switch.ch/restricted1>

2. <http://hualalai.switch.ch/shibboleth/WAYF?target=https://ruapehu.switch.ch/restricted1&shire=https://ruapehu.switch.ch/shibboleth/SHIRE>

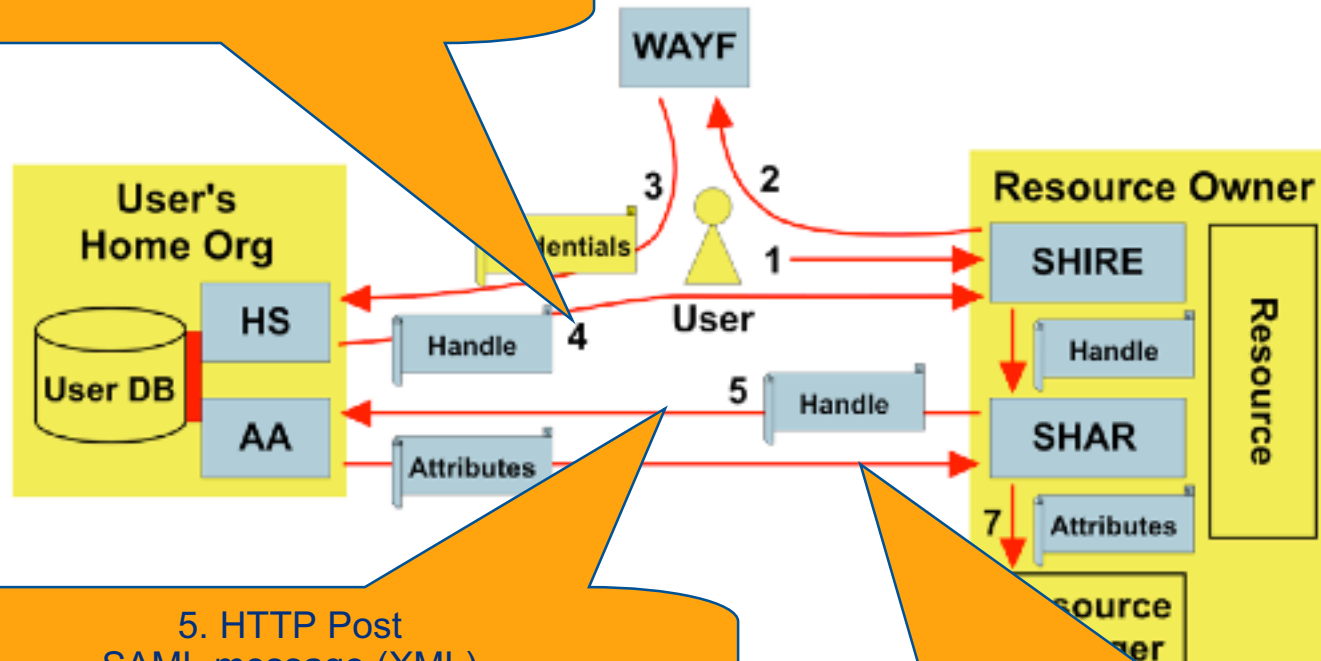
3a. <http://hualalai.switch.ch/shibboleth/HS?target=https://ruapehu.switch.ch/restricted1&shire=https://ruapehu.switch.ch/shibboleth/SHIRE>



3b Authentication

HTTP(S) calls, Part 2/2

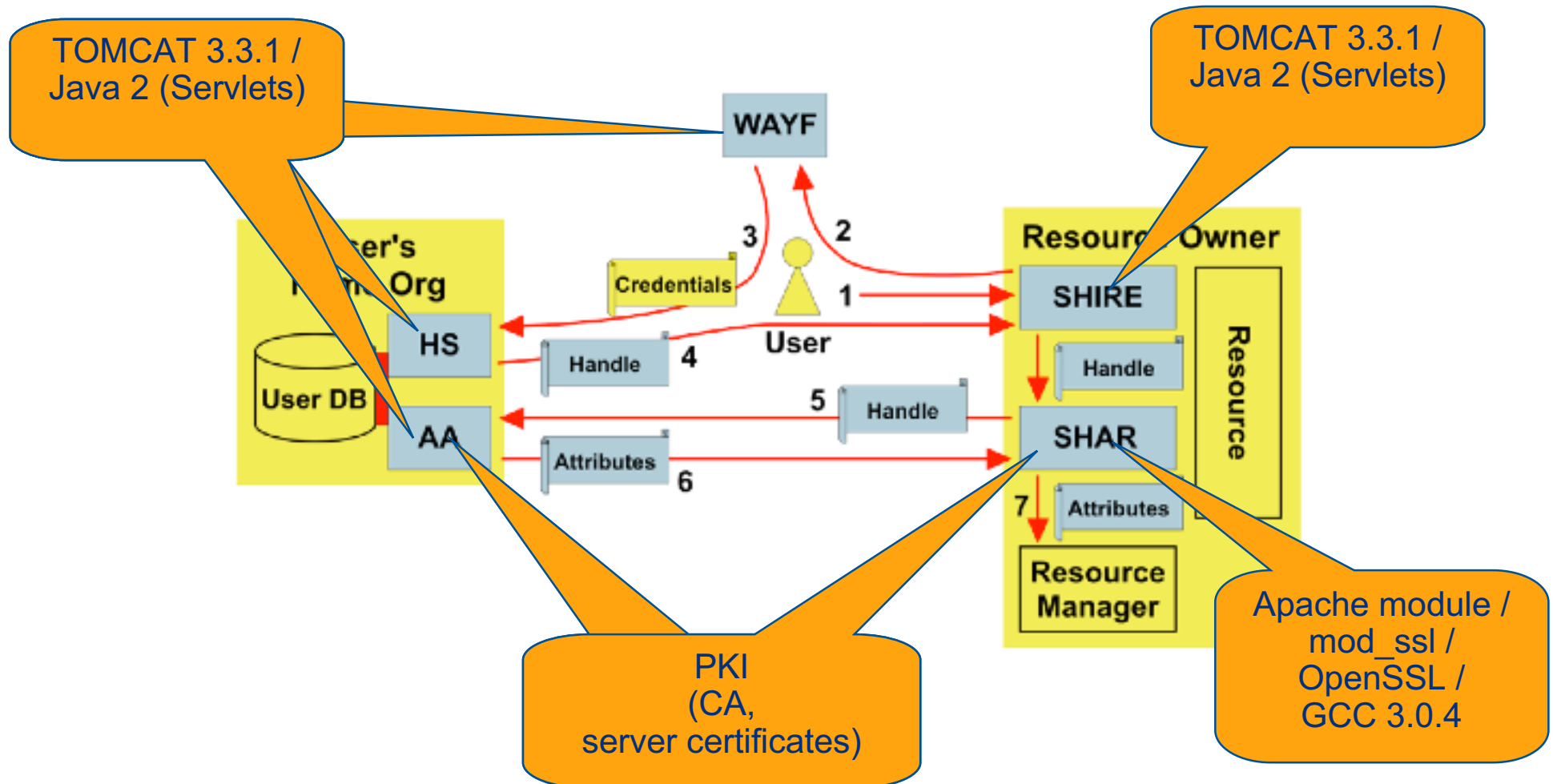
4. HTTP Post
TARGET=https://ruapehu.switch.ch/restricted1
SAMLResponse=..... Handle, AA,



5. HTTP Post
SAML message (XML)
Attribute Query Message

6. HTTP Response
SAML message (XML)
Attribute Query Response

Technologies involved



How to implement a target site

Installation

- Download Shib Distribution (<http://wayf.internet2.edu/shibboleth/>)
- Follow instructions in
- DEPLOY.TXT (part of shib distribution) and at
- <http://hualalai.switch.ch> (Installation Notes for ruapehu.switch.ch)
- For alpha 2.5 RedHat 7.2 suggested

Suggested Reading

- <http://middleware.internet2.edu/shibboleth/docs/draft-internet2-shibboleth-arch-v05.pdf>
- <http://www.internet2.edu/presentations/20020731-AdvCAMP-Cantor.ppt>

AAI-specific configuration of target site 1/2

SHIRE: web.xml

- registry-uri: <http://hualalai.switch.ch/shibboleth/sites.xml>
- ssl-only: false (optional)

SHAR: httpd.conf

- disable php4_module
- <Location /restricted1>
 - AuthType shibboleth
 - Require valid-user</Location>
- Add additional section as described in DEPLOY.TXT to httpd.conf
 - ShibCookieName shib_shib1
 - ShibSSLKeyFile /etc/httpd/conf/ssl.key/server.key
 - ShibSSLCertFile /etc/httpd/conf/ssl.crt/server.crt
 - ShibSSLKeyPass <whatever_password>
 - WAYFLocation <http://hualalai.switch.ch/shibboleth/WAYF>

AAI-specific configuration of target site 2/2

PKI:

- Generate a server.key with openssl, and send CSR to aai@switch.ch
- Overwrite server.crt with the one that is signed and returned from SWITCH
- Overwrite ca_bundle.crt with the one that is downloaded or sent from SWITCH

For more details see: <http://hualalai.switch.ch> (Installation Notes for ruapehu.switch.ch)

- ❑ **First call very slow (needs compilation of Java-servlets) (up to 1 min)**
- ❑ **Permissions of `/etc/httpd/conf/ssl.*` should be 755**
- ❑ **Remove unpatched `libssl.so.0.9.6b` and `libcrypto.so` in older Shib distributions**
- ❑ **Origin site and target site need to be synchronised (+/- some minutes)**
- ❑ **Remove `php4_module` from `httpd.conf`**

- Get <http://hualalai.switch.ch/shibboleth/sites.xml> properly signed
- Attributes and Attribute Release Policy
- Authentication at HS/AA, e.g. with LDAP-server

Q & A