SWITCH

The Swiss Education & Research Network

Integration of Resources

The AAI Team <aai@switch.ch>

Integration of Resources

- ❑ Installation and Configuration

- ❑ AAI-enabling IIS Web Servers

- ❑ AAI-enabling Apache Web Servers

- ❑ Already "shibbolized" Applications

Installation and Configuration

Patrik Schnellmann <schnellmann@switch.ch>

Service Provider Deployment Guides

❑ HOWTOs and Guides

> http://www.switch.ch/aai/howto/

❑ Apache

- ❑ Linux (Debian sarge)
- ❑ Solaris 8, 9, 10
- ❑ Mac OS X (10.4)

❑ IIS

- ❑ Windows Server 2003

Installation and Configuration Steps

1. Get X.509 Server Certificate
2. Install and configure Shibboleth Service Provider (SP)
3. Register SP in AAI Resource Registry
4. Install and configure federation metadata update script
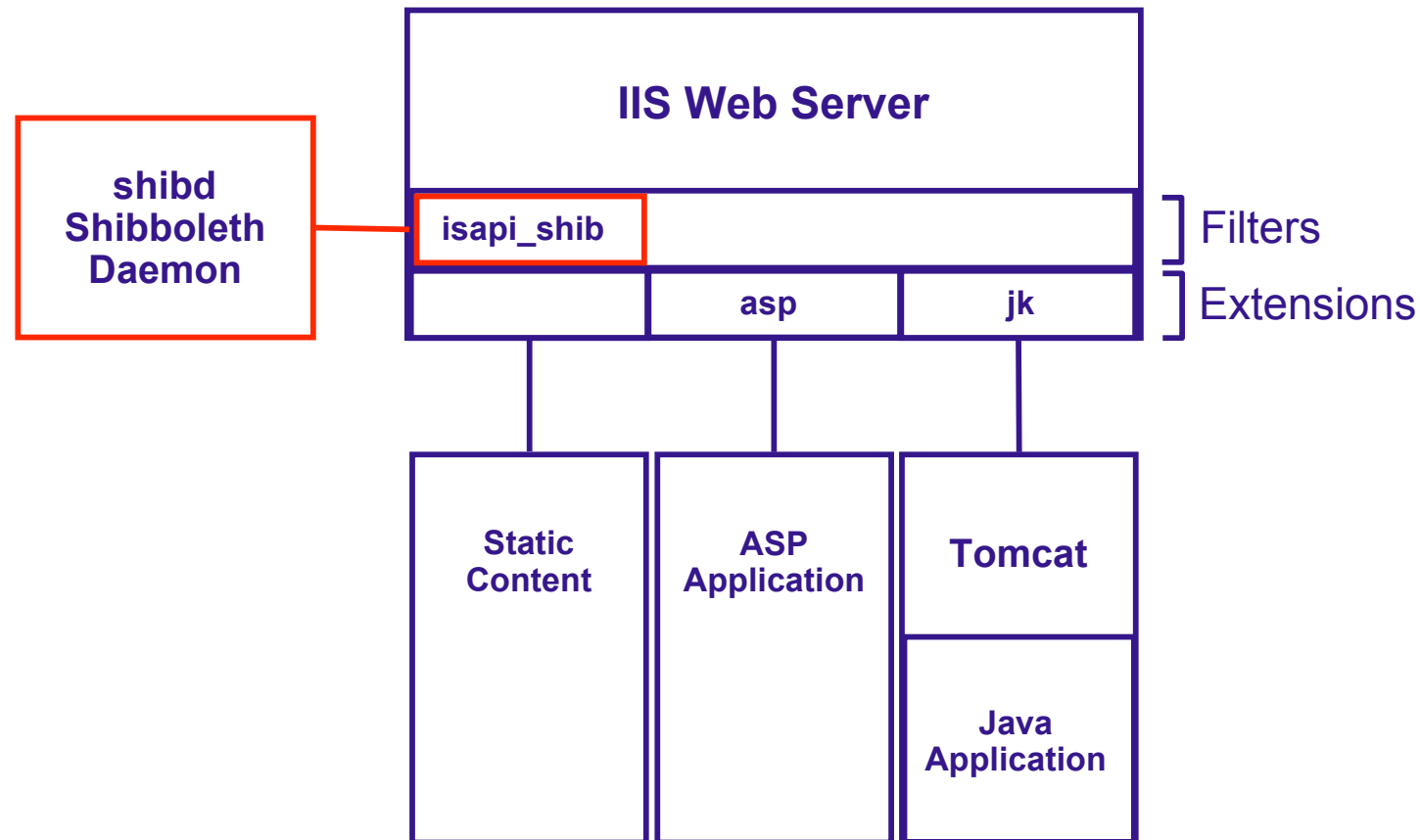5. Configure Shibboleth authentication (access rules)

AAI-enabling IIS Web Servers

Patrik Schnellmann <schnellmann@switch.ch>

Service Provider Software Components

⇨ On Windows, the components of the Shibboleth Service Provider are a service (shibd) and an ISAPI filter.

Protecting Web Resources in IIS

RequestMap in **shibboleth.xml**

```
<!-- ... -->
  <RequestMap applicationId="default">
    <Host name="my.sp.ch">
      <Path name="secure"
            requireSession="true"
            exportAssertion="false">
      </Path>
    </Host>
  </RequestMap>

<!-- ... -->
```

⇨ Requests for files in http(s)://my.sp.ch/secure/ require Shibboleth authentication.

Protecting Web Resources in IIS

XMLAccessControl in RequestMap (as of Shibboleth SP version 1.3b)

```
<!-- ... -->
  <Host name="my.sp.ch">
    <Path name="secure" authType="shibboleth" requireSession="true">
      <AccessControl>
        <AND>
          <OR>
            <Rule require="affiliation">staff</Rule>
            <Rule require="affiliation">student</Rule>
          </OR>
          <NOT>
            <Rule require="homeOrganizationType">vho</Rule>
          </NOT>
        </AND>
      </AccessControl>
    </Path>
  </Host>
<!-- ... -->
```

⇨ Users with any homeOrganizationType which is not vho and with affiliation
   staff or student and can access content in http(s)://my.sp.ch/secure/.

Shibboleth-enabling Apache

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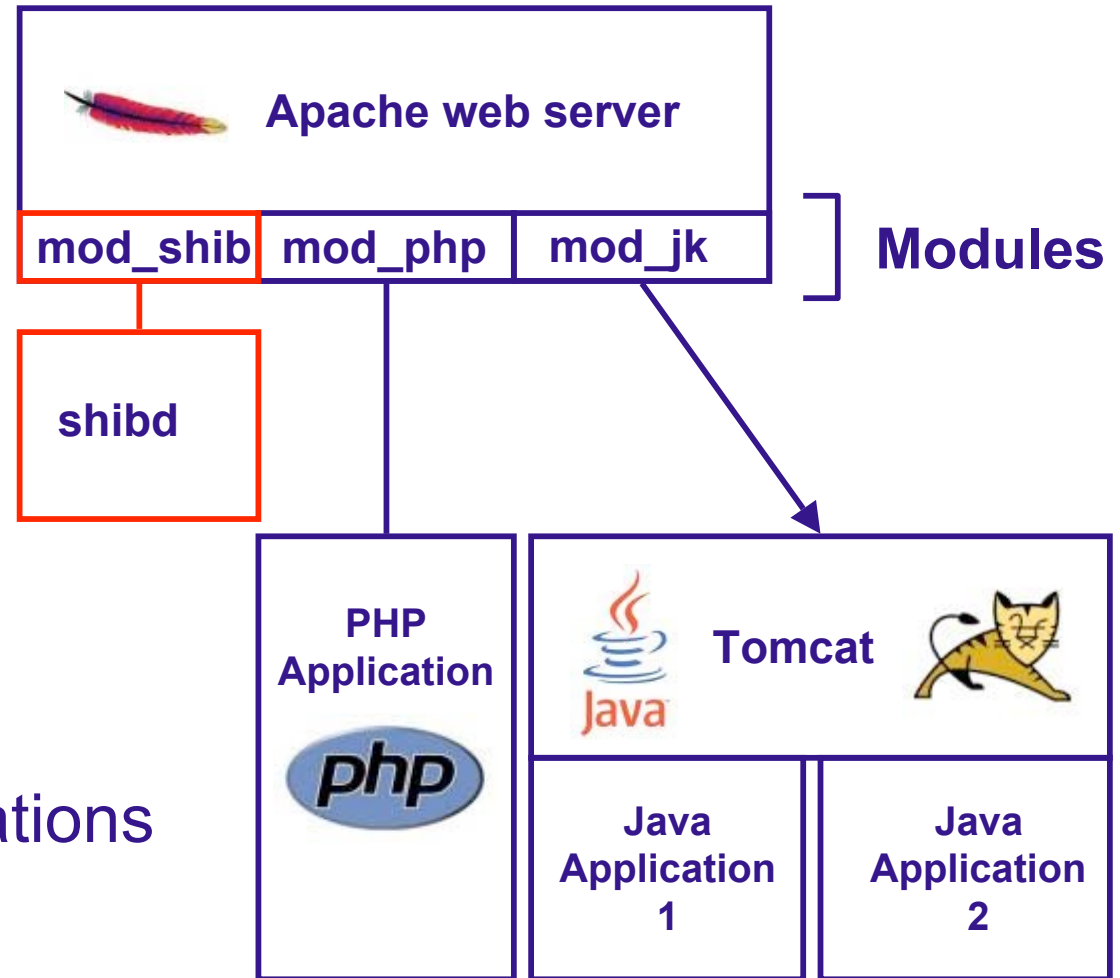
Shibboleth SP/mod_shib for Apache

- Runs on: Linux, Solaris, Windows, Mac OS X, FreeBSD, …

- Protects web applications

- Gets attributes from shibd

- Can authorize users with
  - Apache directives
  - Shibboleth XML Access rules

- Provides attributes to applications

Apache web server

| mod_shib | mod_php | mod_jk | **Modules** |

shibd

PHP Application

Tomcat Java

| Java Application 1 | Java Application 2 |

Authorization in with Apache require rules

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Example rules in **httpd.conf** or **.htaccess**

Any AAI user

```
<Location /secure>
  AuthType shibboleth
  ShibRequireSession On
  require valid-user
</Location>
```

One specific user

```
<Files ~ "login.jsp|authorize.jsp">
  AuthType shibboleth
  ShibRequireSession On
  require uniqueID 314592@aaitest.switch.ch
</Files>
```

All users except from VHO

```
<Directory /opt/www/aai>
  AuthType shibboleth
  ShibRequireSession On
  require homeOrganizationType ~ ^[^vV][^hH][^oO]
</Directory>
```

See **http://www.switch.ch/aai/support/serviceproviders/sp-access-rules.html**

Already Adapted Web Applications

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Status e-Learning Platforms

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- **WebCT CE 4, CE 6 and Vista**
  Shibbolized through AAIportal

- **OLAT**
  Native shibbolized, since version 3.0

- **Moodle**
  Shibboleth authentication mostly implemented by SWITCH, since version 1.5

- **Various proprietary SVC-projects**
  DOIT, VITELS, Alzheimerlearn

- **ILIAS**
  Shibboleth authentication implemented by SWITCH, since version 3.3

- **Blackboard**
  Working demo at Internet2, Project at Uni Luzern to adapt to SWITCHaai

- **Dokeos**
  Project at Uni Geneva

- **BSCW**
  Already used in production, official release with BSCW 4.4 expected

- **Claroline**
  Co-developed by NTB and University of Neuchatel

Shibboleth-Enabled Applications

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Shibboleth® Enabled Applications and Services

Main Shibboleth Site: shibboleth.internet2.edu

For corrections and additions to this table please contact <shib-info AT internet2 DOT edu>. On this page you will find:

Information Providers:
- ArtSTOR
- CSA
- Digitalbrain PLC
- EBSCO Publishing
- Elsevier ScienceDirect
- ExLibris - SFX
- ILIAS
- JSTOR
- NSDL
- OCLC
- Ovid Technologies Inc.
- Project MUSE
- Proquest Information and Learning
- Serials Solutions
- Thomson Gale
- Useful Utilities - EZproxy

Learning Management Systems:
- Blackboard
- Moodle
- OLAT
- WebAssign
- WebCT

Other Systems:
- Bodington.org
- Condor
- Confluence Wiki
- Darwin Streaming Server
- DSpace
- eAcademy
- Fedora
- GridSphere
- GridShib
- Higher Markets
- Horde
- Hupnet
- LionShare
- Media Wiki
- MyProxy
- Napster
- PHEAA
- Sharepoint® from Microsoft
- SYMPA
- Symplicity
- TurnItIn
- TWiki
- uPOrtal
- Zope + Plone

Internet2 SEAS List: https://wiki.internet2.edu/confluence/display/seas/Home