Installation and Configuration

Valéry Tschopp, <tschopp@switch.ch>

Deployment Guides

- HOWTOs and Guides
  - http://www.switch.ch/aai/howto/
- Shibboleth Target Deployment Guides
  - http://www.switch.ch/aai/targetdeployment.html
- Apache
  - Compilation and Installation on Linux (debian stable)
  - Compilation and Installation on Solaris
  - Configuration Guide for Linux and Solaris
- IIS
  - Deployment Guide for Windows

What you need to get...

SWITCH
The Swiss Education & Research Network

- **Shibboleth Install Package:**

  http://www.switch.ch/aai/docs/shibboleth/internet2/1.2/

- **Sample configuration files for SWITCHaai**

  http://www.switch.ch/aai/docs/shibboleth/SWITCH/1.2/

- **SWITCHpki certificate for your Web Server**

  http://www.switch.ch/aai/certificates.html

SWITCHaai Settings

SWITCH
The Swiss Education & Research Network

- shibboleth.switchaai.xml
  - Identifier in <Applications>
    providerId=urn:mace:switch.ch:SWITCHaai:pilot:{HOSTNAME}
  - SWITCHpki Server Certificate Location in <Credentials>
    /etc/apache/ssl.key/{HOSTNAME}.key
    /etc/apache/ssl.crt/{HOSTNAME}.crt
  - Error Pages Customization in <Errors>
    supportContact={CONTACT_EMAIL}
    HTML pages, logo and stylesheet
  - SWITCHaai Federation Metadata
    {FederationProvider} for sites.switchaai.xml
    {TrustProvider} for trust.switchaai.xml
    {AAPProvider} for AAP.switchaai.xml

SWITCHaai Settings specific for IIS

SWITCH
The Swiss Education & Research Network

- IIS specific settings in shibboleth.xml
  - Protected Web Locations in <RequestMapProvider> (Access Rules Configuration)
  - IIS Site ID Mapping in <Implementation>

Federation Metadata

SWITCH
The Swiss Education & Research Network

- **SWITCHaai Federation Metadata**
  - **Accepted Certification Authority certificates within SWITCHaai**
    - ⇨ **trust.xml**
  - **Home Organizations participating within SWITCHaai**
    - ⇨ **sites.xml**

- **More information:**

  http://www.switch.ch/aai/metadata.html
  http://www.switch.ch/aai/ca-acceptance-policy.html

Federation Metadata - Auto-Updates

SWITCH
The Swiss Education & Research Network

- **Siterefresh**
  - Shell script (Standard Linux shell / Windows Cygwin)
  - Automatical updates of the Federation Metadata (sites.xml / trust.xml)
  - Security given by verification of the files' signatures

- Get the script and documentation:

  http://www.switch.ch/aai/siterefresh.html

SWITCH

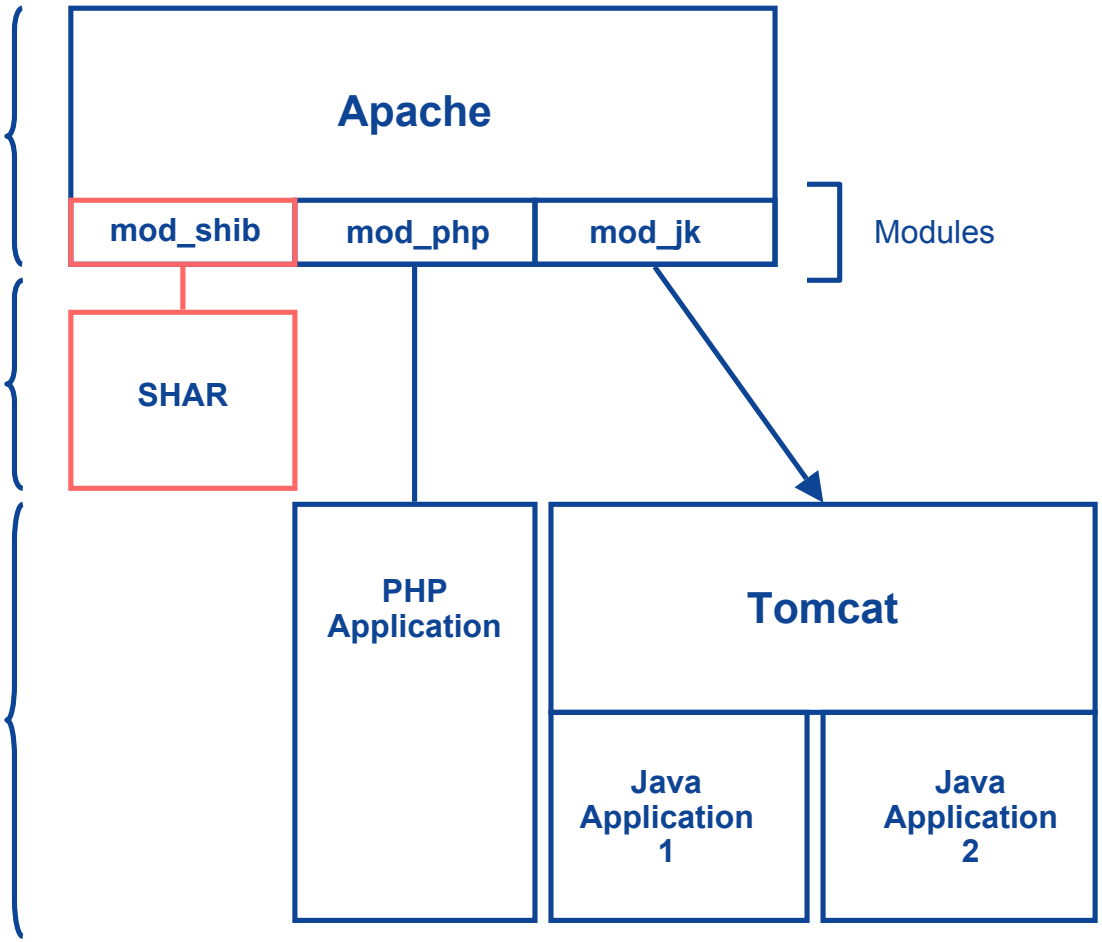
The Swiss Education & Research Network

Authorization with Apache

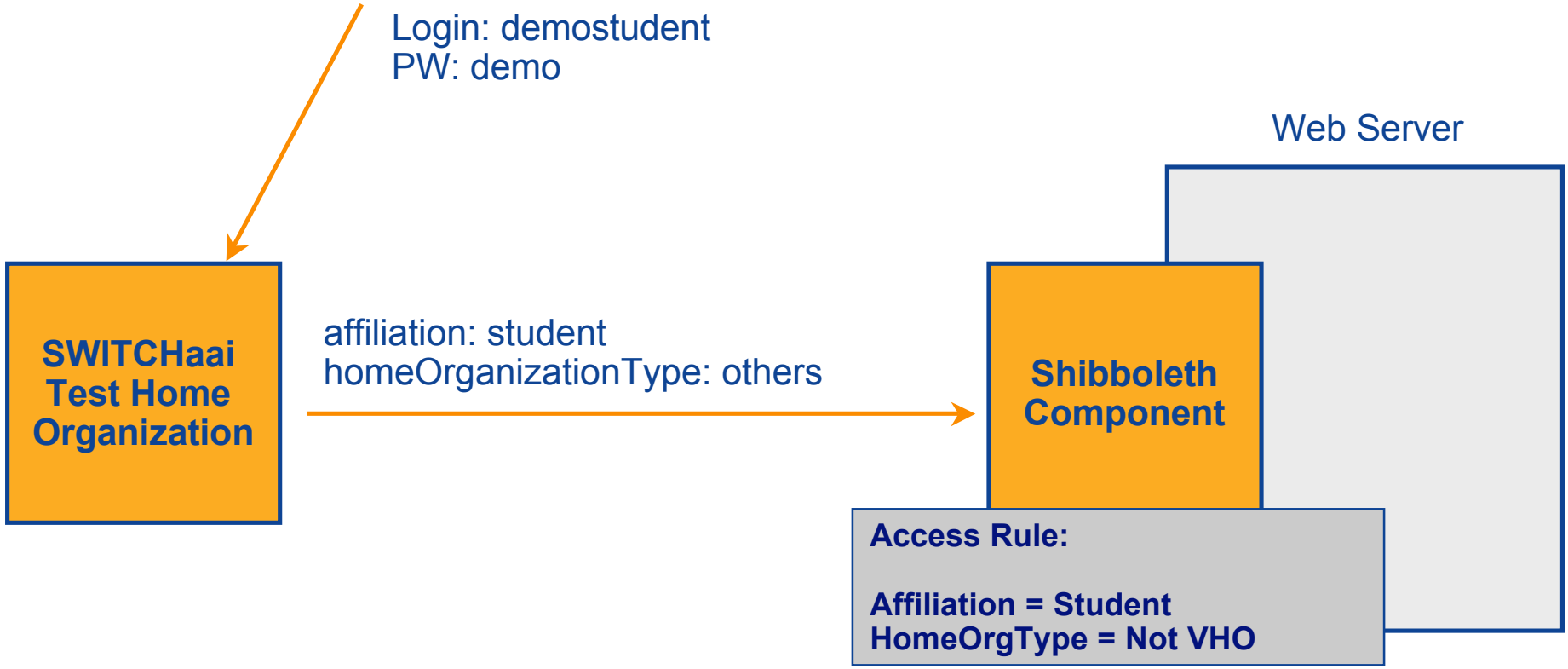
Patrik Schnellmann, <schnellmann@switch.ch>

Apache Software Components

- Apache Webserver
- Shibboleth Target (mod_shib)
- Tomcat Connector (mod_jk)
- PHP (mod_php)
- Shibboleth Target (SHAR)
- Dynamic Web Pages (PHP, Java, …)



Using access rules



Static Authorization in Apache

SWITCH
The Swiss Education & Research Network

Rules in **httpd.conf** or **.htaccess** for Shibboleth Target 1.2.1

Any AAI user

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

One specific user

```
<Location /restricted>
  AuthType shibboleth
  ShibRequireSession On
  require uniqueID 314592@aaitest.switch.ch
</Location>
```

All students without VHO

```
<Location /secure>
  AuthType shibboleth
  ShibRequireSession On
  require affiliation student
  require homeOrganizationType ~ ^[^vV][^hH][^oO]
</Location>
```

Reference: http://www.switch.ch/aai/docs/shibboleth/internet2/1.2/deploy-guide-target1.2.1.html#4.d.

SWITCH

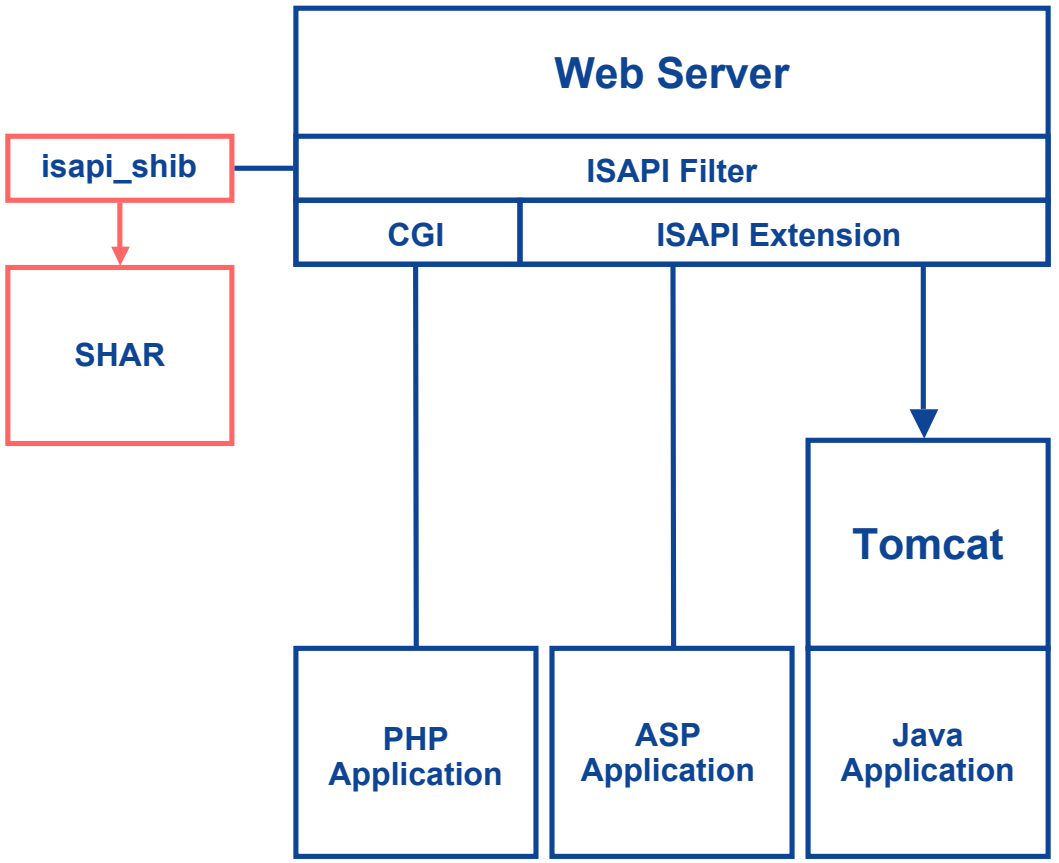
The Swiss Education & Research Network

Authorization with IIS

Patrik Schnellmann, <schnellmann@switch.ch>

Software Components

- IIS Web Server
- Shibboleth Target (isapi_shib)
- Shibboleth Target (SHAR)
- Tomcat via JK (isapi redirector)
- Dynamic Web Pages (ASP, Java, PHP, …)



Configuring Access Rules in IIS

SWITCH
The Swiss Education & Research Network

Rules in **shibboleth.xml** for Shibboleth Target 1.2.1

```
...
 <RequestMap applicationId="default">
   <Host name=”some.host.ch">
     <Path name="secure"
           requireSession="true"
           exportAssertion="false">
     </Path>
   </Host>
 </RequestMap>

...
```

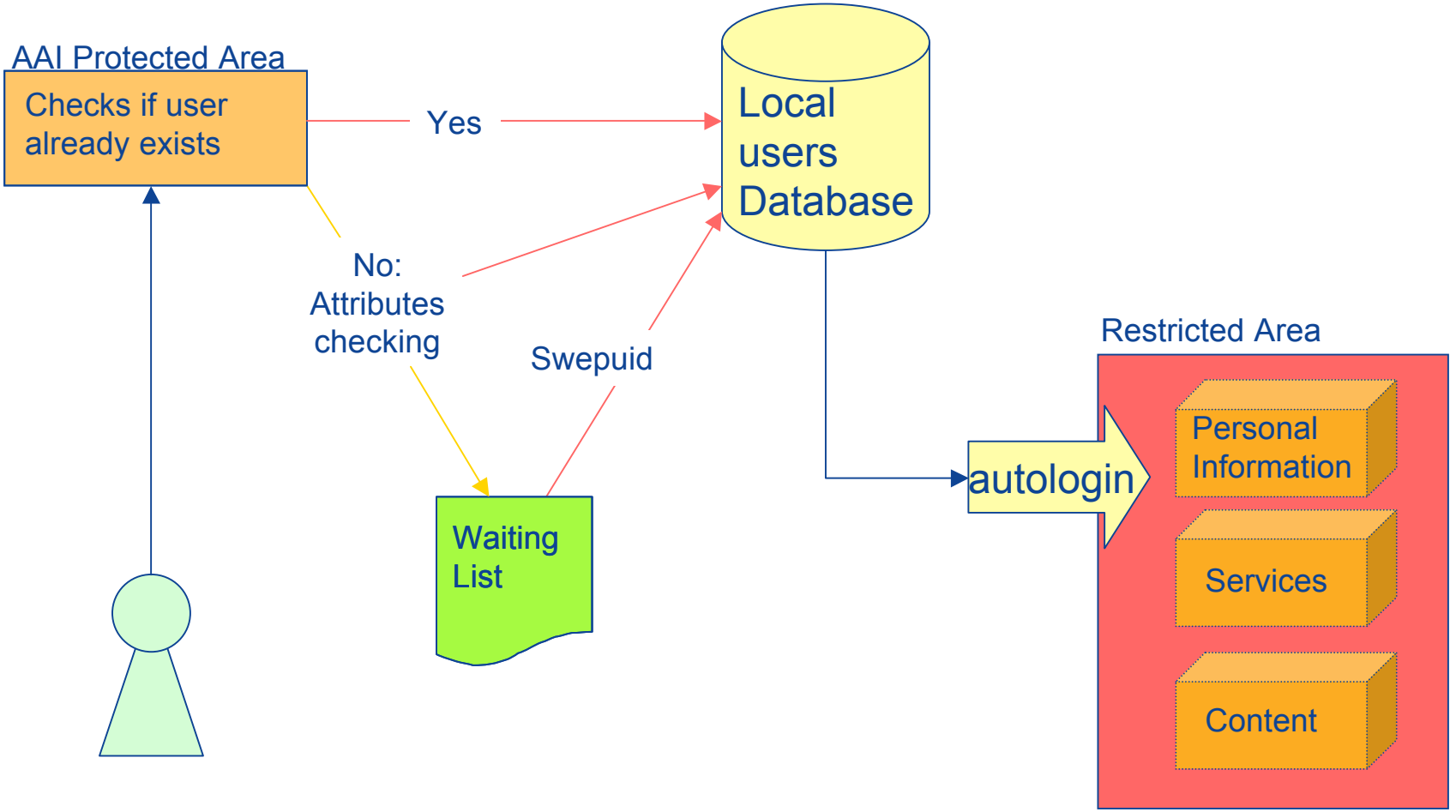
⇨ isapi_shib filter forces Shibboleth authentication on requests for files in http://some.host.ch/secure/

⇨ equivivalent to setting “require valid-user” in Apache

Access Rules Management with IIS

SWITCH
The Swiss Education & Research Network

AAI Inscription at first visit



Courtesy of ISREC, Yan Corneille, Pascal Py

Questions ?

SWITCH
The Swiss Education & Research Network

Q & A

http://www.switch.ch/aai

aai@switch.ch