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# SWITCH

The Swiss Education & Research Network

## Configuring Access Rules in Apache

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# Configuring Access Rules in Apache

Rules in httpd.conf or .htaccess

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

Any AAI user

```
<Location /restricted>  
  AuthType shibboleth  
  require uniqueID 314592@aatest.switch.ch  
</Location>
```

One user

```
<Location /secure>  
  AuthType shibboleth  
  require homeOrganizationType ~ ^[^\vV][^\hH][^\oO]  
</Location>
```

All users except from VHO

Reference: <http://www.switch.ch/aai/docs/shibboleth/internet2/1.2/deploy-guide-target1.2.html#4.d>.

- ❑ **Default behaviour: OR**
- ❑ **Behaviour with ShibRequireAll (Shibboleth 1.2): AND**

```
<Location /secure>  
  AuthType shibboleth  
  ShibRequireAll on  
  require affiliation student  
  require homeOrganization aaitest.switch.ch  
</Location>
```

- ❑ **In future: API and XACML**

# Snippet from AAP.xml

```
<AttributeRule Name="urn:mace:switch.ch:attribute-def:swissEduPersonUniqueID"
              Header="Shib-SwissEP-UniqueID" Alias="uniqueID">
  <AnySite>
    <AnyValue/>
  </AnySite>
</AttributeRule>

<AttributeRule Name="urn:mace:dir:attribute-def:sn"
              Header="Shib-Person-surname" Alias="surname">
  <AnySite>
    <Value Type="regexp">^.+</Value>
  </AnySite>
</AttributeRule>
```

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## Linking Web-Applications with AAI

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```
<Location /secure>  
AuthType shibboleth  
ShibExportAssertion on  
require valid-user  
</Location>
```

httpd.conf



Environment-Variables  
(e.g. HTTP\_SHIB\_SWISSEP\_UNIQUEID)



```
<?php  
$uniqueID = $_SERVER['HTTP_SHIB_SWISSEP_UNIQUEID'];  
...  
?>
```

sample.php

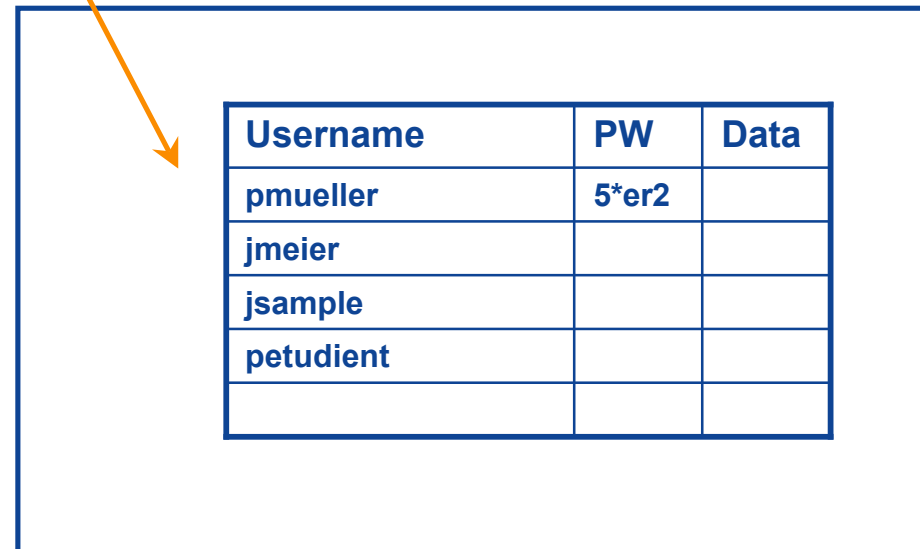
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## **AAI-based User-Management in personalized Web-Applications**

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Valéry Tschopp, <tschopp@switch.ch>**

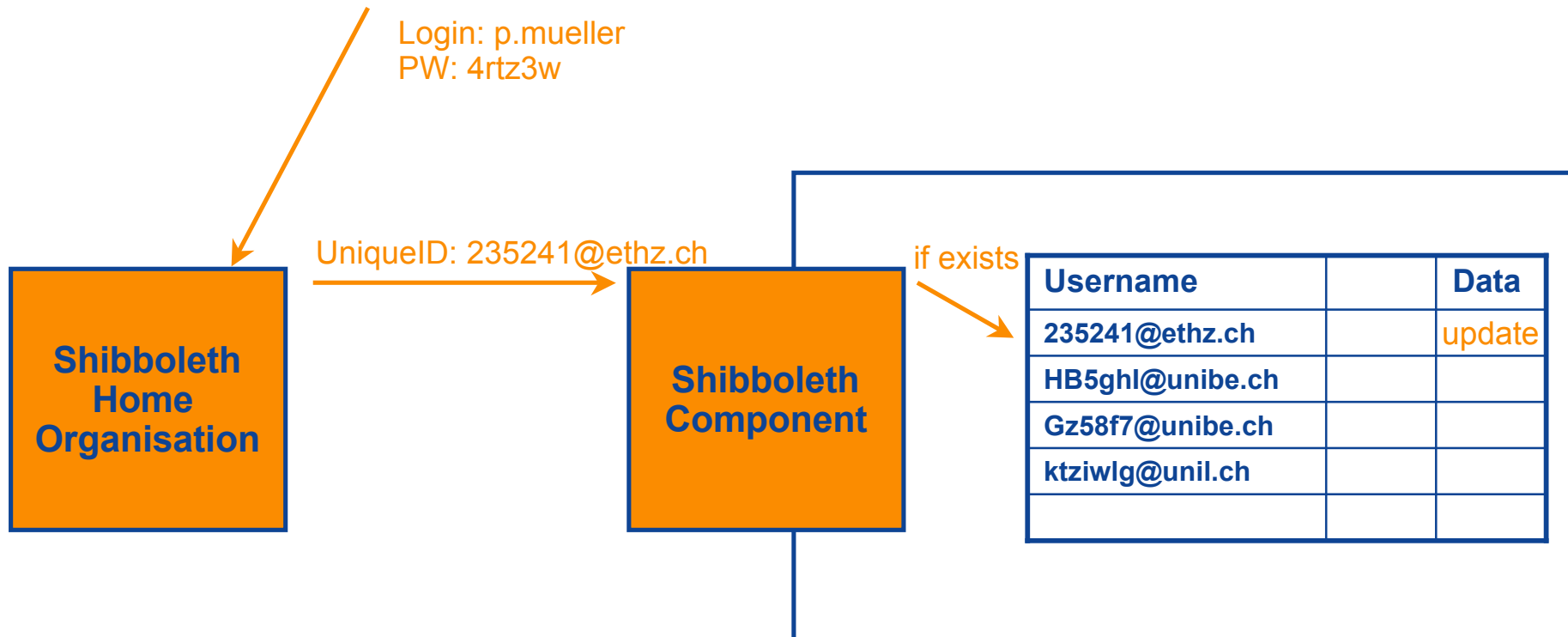
Login: pmueller  
PW: 5\*er2



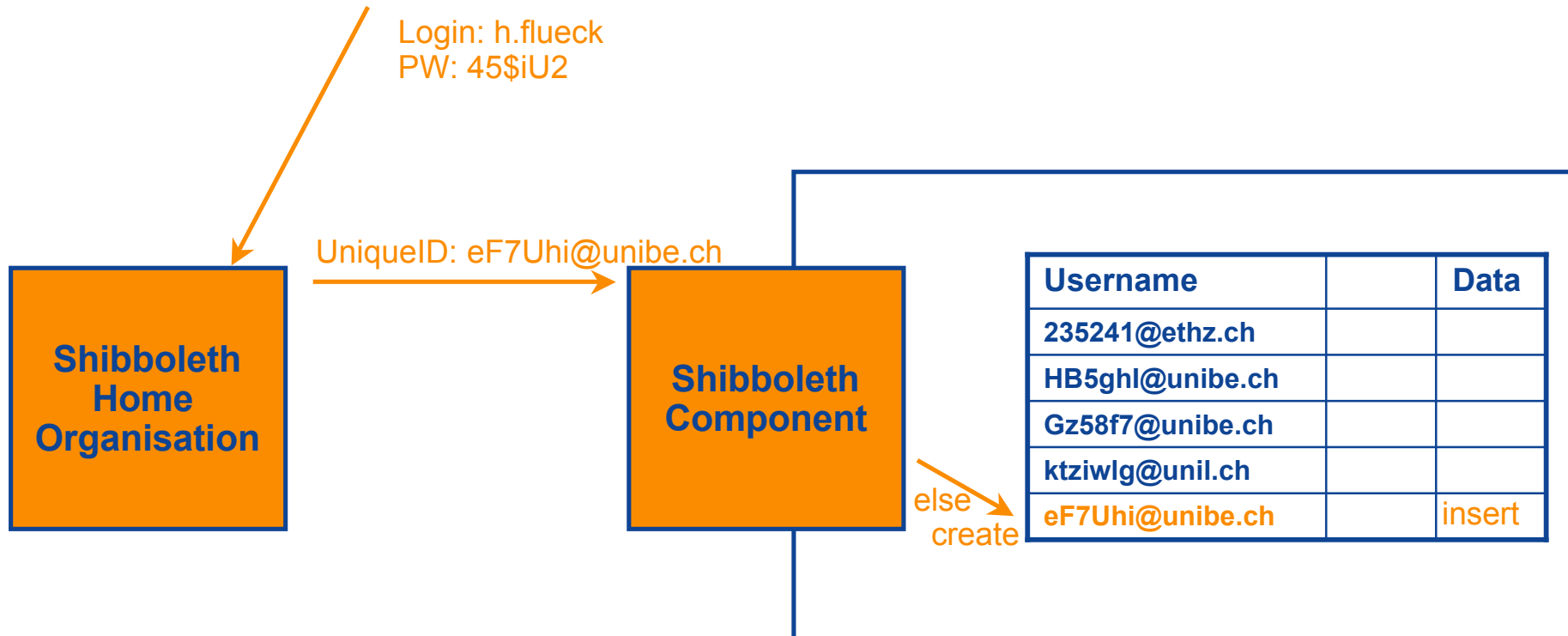
Username	PW	Data
pmueller	5*er2	
jmeier		
jsample		
petudiant		



# Personalized System, Shibbolized



# Personalized System, Shibbolized, Creating New Users



# Sample personalized App (without AAI)

```
<?php
  session_name('non-shibboleth');
  session_start();
  session_register('user'); // Use PHP session cookies
  session_register('counter'); // Associate the variable $user with the session
  session_register('date'); // Associate the variable $counter with the session
  session_register('date'); // Associate the variable $date with the session

  echo "<html><body>";

  if (empty($user)) { // No user-session
    if (empty($_GET['username'])) { // No username submitted -> display login form
      echo "<form method='GET'>";
      echo "Username:<input type='text' name='username'><br>";
      echo "Password:<input type='password' name='password'>";
      echo "<input type='submit' value='login'>";
      echo "</form>";
    }
    else { // Check password
      if ($_GET['password']=="pass") { // Store username in session
        $user = $_GET['username'];
      } else {
        echo "Wrong password. Go back and try again!";
      }
    }
  }

  if (!empty($user)) { // User is identified -> display personalized page
    echo "<h3>Hello $user !</h3>";

    if (!empty($counter)) echo "<p>You were already here $counter times!";
    $counter++;

    if (!empty($date)) echo "<p>Last visit: $date"; // Display date of last visit
    $date= date("F j, Y, g:i a");

    echo "<hr>";
    echo "Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Plattform, DB)";
  }

  echo "</body></html>";
?>
```

Login Form

Check password

<https://koolau.switch.ch/nonshib/sample.php>

# Sample personalized App (with AAI)

```
<?php
  session_name('shibboleth');
  session_start();
  session_register('counter');
  session_register('date');

  echo "<html><body>";

  $uniqueID = $_SERVER['HTTP_SHIB_SWISSEP_UNIQUEID']; // Read Shibboleth attribute
  if (empty($uniqueID)) { // UniqueID attribute is missing
    echo "Attribute (SwissEduPerson-) 'UniqueID' is missing.";
    echo "<br>Please contact the administrator of your AAI Home Organisation.";
  }
  else {
    // Read Shibboleth attributes from HTTP server
    $name = $_SERVER['HTTP_SHIB_PERSON_SURNAME'];
    $name= utf8_decode($name);
    $firstname= $_SERVER['HTTP_SHIB_INETORGPPERSON_GIVENNAME'];
    $firstname= utf8_decode($firstname);

    if (empty($name) or empty($firstname)) {
      $userid= $uniqueID;
    }
    else {
      $userid= "$firstname $name ($uniqueID)";
    }

    echo "<h3>Hello $userid !</h3>";

    if (!empty($counter)) echo "<p>You were already here $counter times!";
    $counter++;

    if (!empty($date)) echo "<p>Last visit: $date"; // Display date of last visit
    $date= date("F j, Y, g:i a");

    echo "<hr>";
    echo "Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Plattform, DB)";
  }

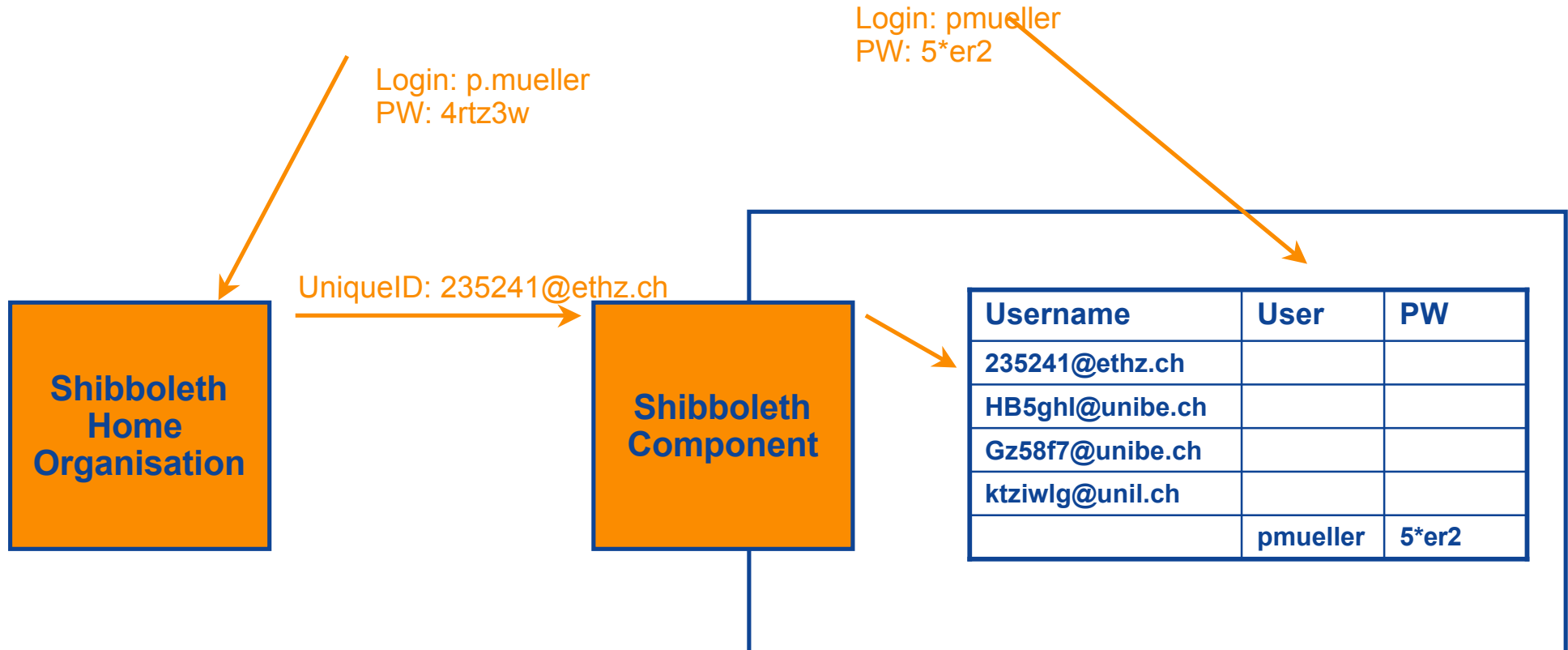
  echo "</body></html>";
?>
```

Check for required attributes

Preprocess attributes

<https://koolau.switch.ch/shib/sample.php>

# Personalized System, For Shib & non-Shib Users



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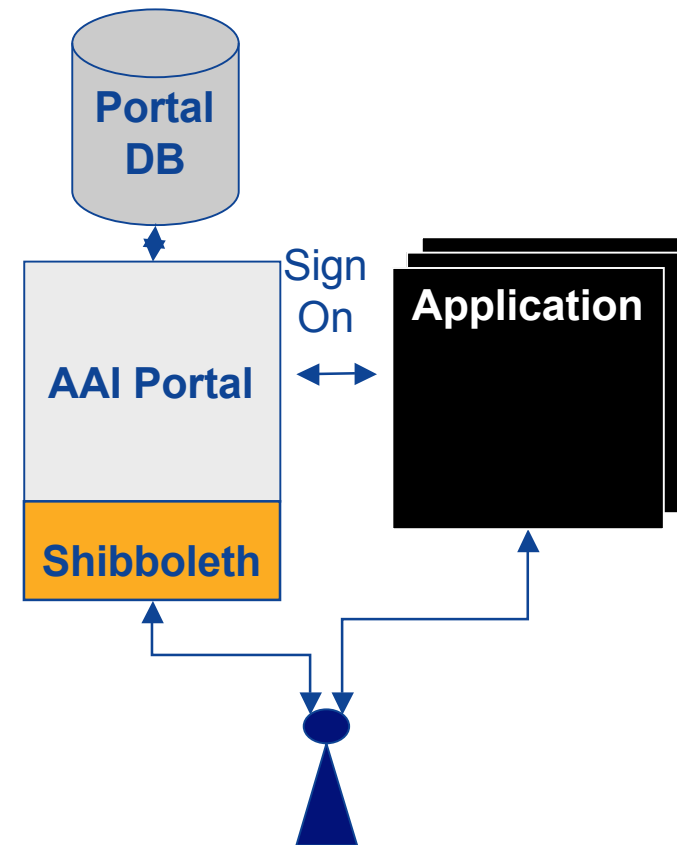
## The AAlportal as a Tool for User-Mangement

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# The AAIportal

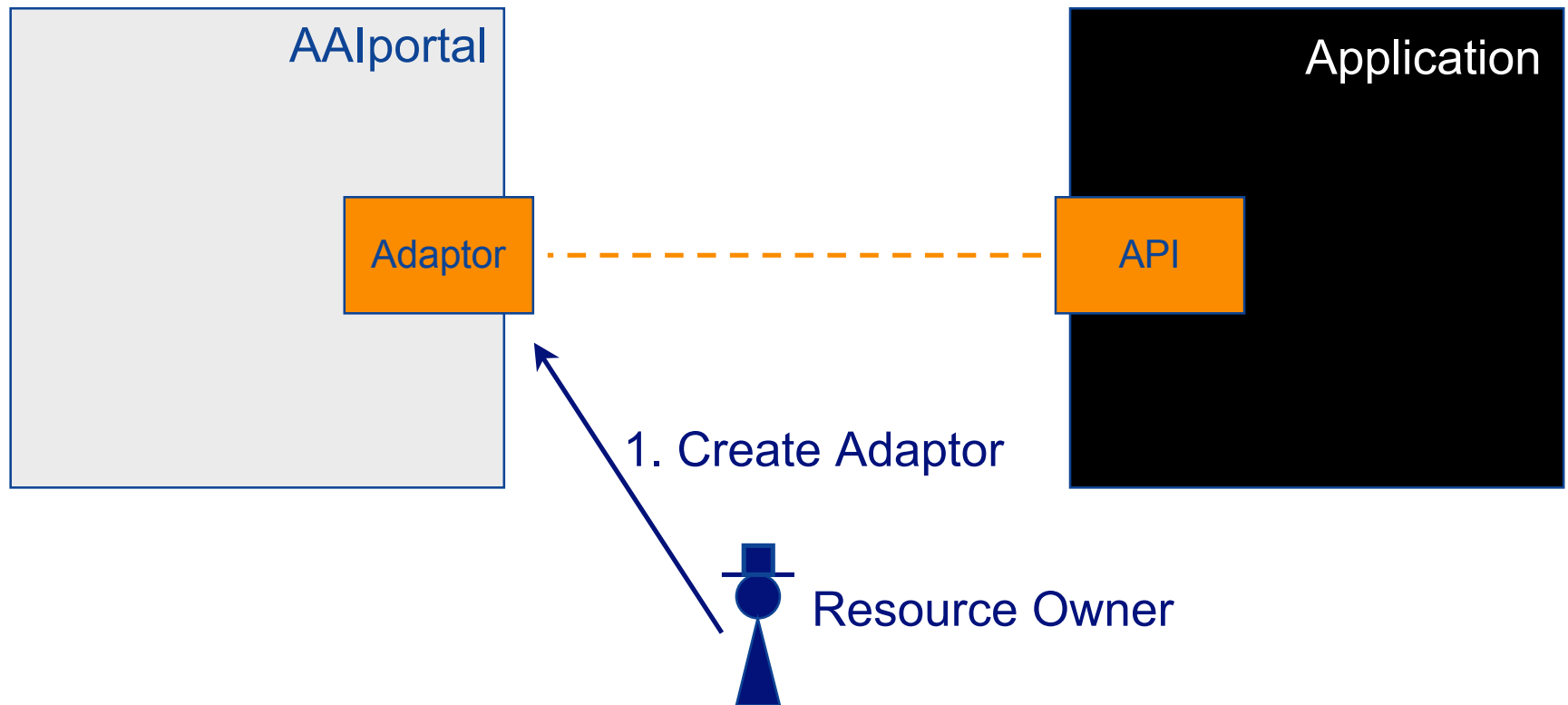
- ❑ Originally developed by IAM at Uni Bern
- ❑ Since 2004 maintained by SWITCH
- ❑ Further developed by IAM & SWITCH
- ❑ Open-Source project  
<http://aai-portal.sourceforge.net/>

- Portal Functionality
- Authentication Gateway
- User Management
- Adaptors to “Black boxes”



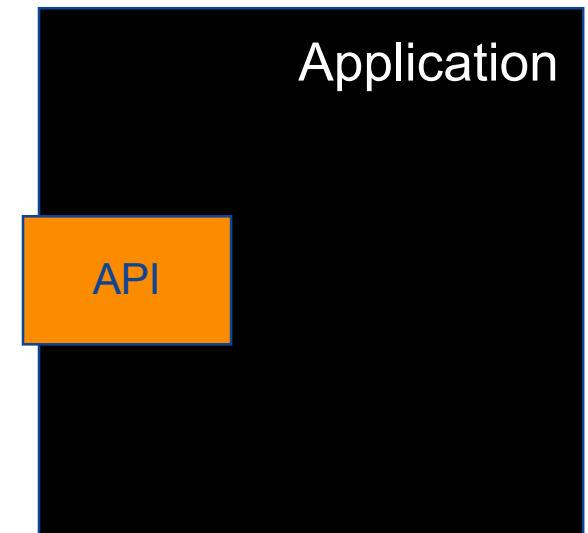
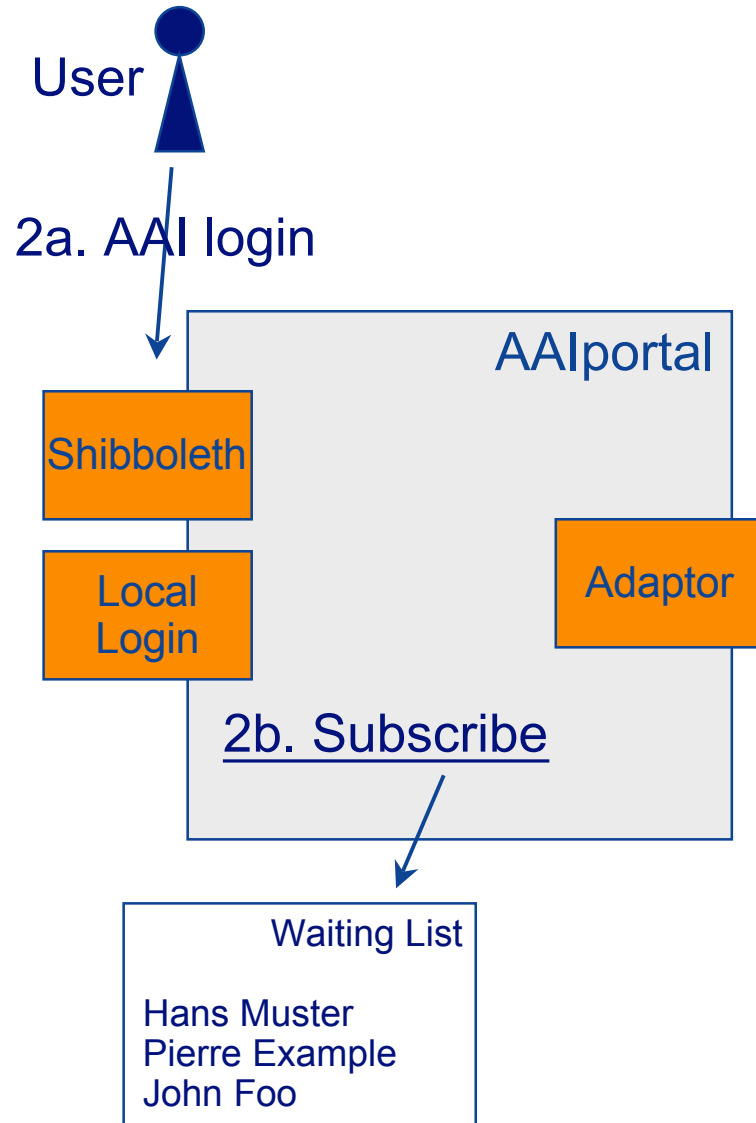


# AAIportal Step 1) Resource Owner creates new Adaptor

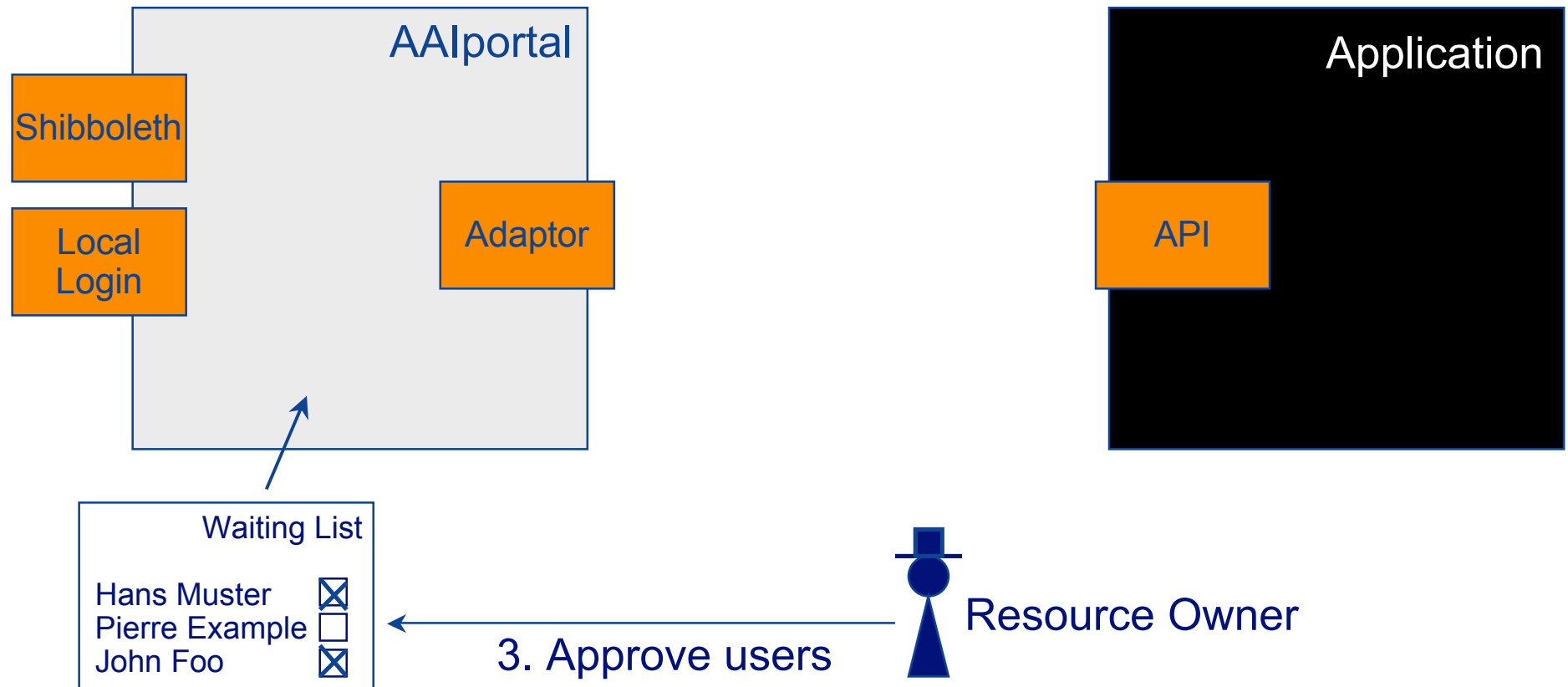


# AAIportal Step 2) Users Subscribe to Resource

<https://demo.aaportal.switch.ch/user>



# AAIportal Step 3) Resource Owner grants access



# AAIportal Step 4) User accesses Resource

<https://demo.aaiportal.switch.ch/user>

