

# SWITCH

The Swiss Education & Research Network

## **Integration of Web-Applications in AAI**

**Patrik Schnellmann, <[schnellmann@switch.ch](mailto:schnellmann@switch.ch)>**

shibboleth.xml

```
<RequestMap ...>
  <Host ...>
    <Path name="secure"
      requireSession="true"
      ...>
```

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

Use attribute in PHP:

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

Use attribute in ASP:

```
<%
  Set uniqueID = Request.ServerVariables("HTTP_SHIB_SWISSEP_UNIQUEID")
  ... %>
```

# Snippet from AAP.xml

Attributes in the Environment-Variables are controlled through 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>
```

# SWITCH

The Swiss Education & Research Network

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

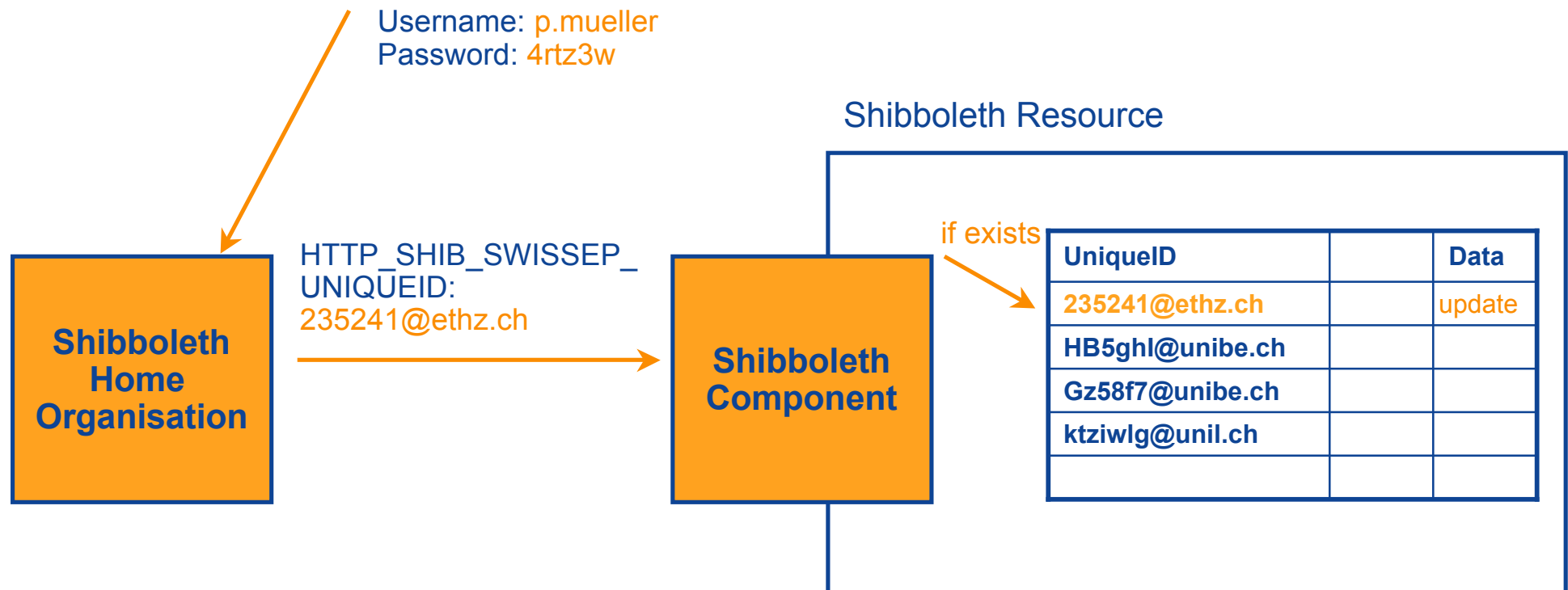
**Patrik Schnellmann <[schnellmann@switch.ch](mailto:schnellmann@switch.ch)>**

Username: pmueller  
PW: 5\*er2x+p

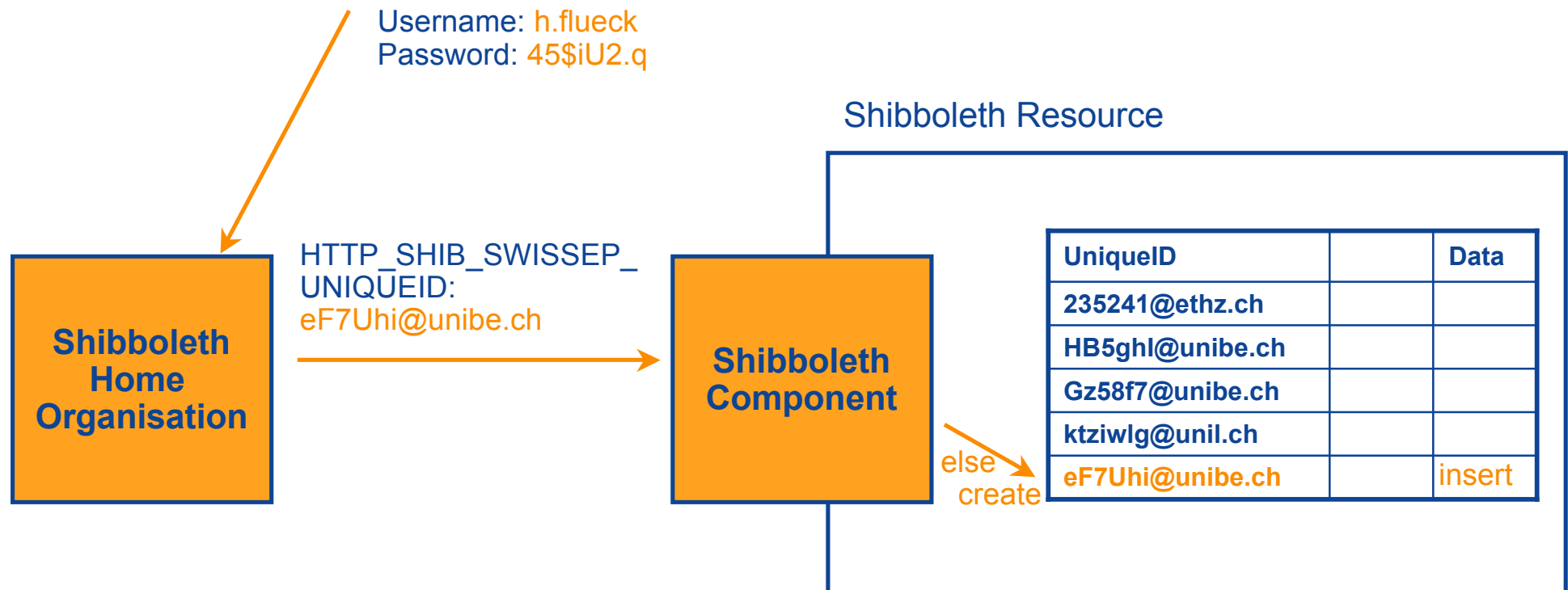


Username	Password	Data
pmueller	5*er2x+p	
jmeier		
jsample		
petudiant		

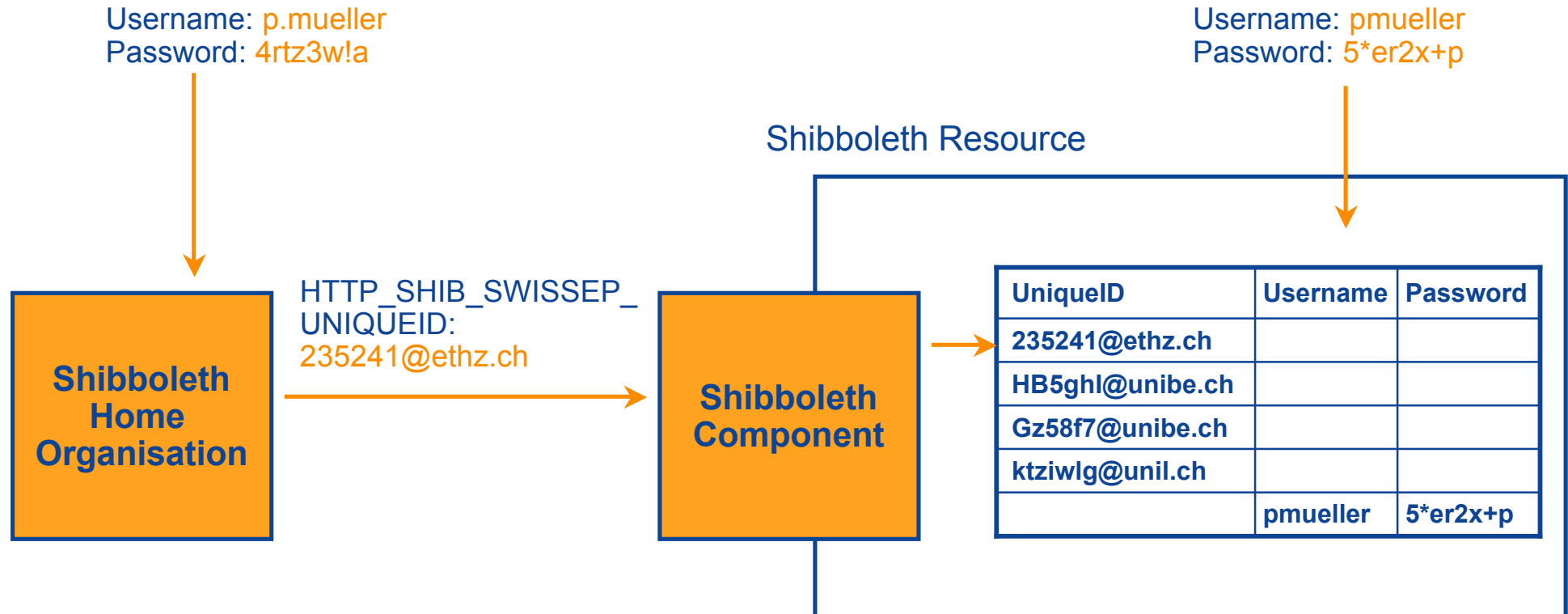
# Personalized System, Shibbolized



# Personalized System, Shibbolized, Creating New Users



# Personalized System, For Shib & non-Shib Users





# Sample personalized App (without AAI) in PHP

```
<?php
session_name('nonshib');           // Set session name
session_start();                   // Use PHP session cookies
if (!isset($_SESSION['counter'])) { // Set session counter variable, if not set already
    $_SESSION['counter'] = 0;
}
print '<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en"><body>';

    if (empty($_SESSION['username'])) { // No user-session
        if (empty($_POST['username'])) { // No username submitted, show login form
            ?>
<pre><form method="POST" action="<?php
    print $_SERVER['SCRIPT_NAME'];
?>">Username: <input type="text" name="username">
Password: <input type="password" name="password">
        <input type="submit" value="login">
</pre></form><?php
        } else { // Check password
            if ($_POST['password'] == "pass") { // Store username in session
                $_SESSION['username'] = $_POST['username'];
            } else {
                print "Wrong password. Go back and try again!";
            }
        }
    }
    if (!empty($_SESSION['username'])) { // User is identified, show personalized page
        print "<h3>Hello " . $_SESSION['username'] . "!</h3>";
        if (!empty($_SESSION['counter'])) {
            print "<p>You were already here " . $_SESSION['counter'] . " times!";
        }
        $_SESSION['counter']++;
        if (!empty($_SESSION['date'])) {
            print "<p>Last visit: " . $_SESSION['date']; // Show date of last visit
        }
        $_SESSION['date'] = date("F j, Y, g:i a");
        print "<hr/>";
        print "Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Plattform, DB)";
    }
print "</body></html>";
?>
```

Login Form

Check password

<http://teon.switch.ch/public/sample.php>

# Sample personalized App (without AAI) in ASP

```
<%
If Not(Session("counter") > 0) Then
    Session("counter") = 0
End If
Response.Charset="UTF-8"
Response.Write ("<?xml version="1.0" encoding="UTF-8"?>" & _
    "<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" & _
    ""http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">" & _
    "<html xmlns=""http://www.w3.org/1999/xhtml" xml:lang=""en"">")

If (IsEmpty(Session("username"))) Then
    If (IsEmpty(Request.Form("username"))) Then
%><pre><form method="POST" action="<% Response.Write(Request.ServerVariables("SCRIPT_NAME")) %>"
Username: <input type="text" name="username">
Password: <input type="text" name="password">
        <input type="submit" value="login">
</pre></form><%
    Else
        If (Request.Form("password") = "pass") Then
            Session("username") = Request.Form("username")
        Else
            Response.Write("Wrong password. Go back and try again!")
        End If
    End If
End If
If Not (IsEmpty(Session("username"))) Then
    Response.Write("<h3>Hello " + Session("username") + "!</h3>")
    If (Session("counter") > 0) Then
        Response.Write("<p>You were already here " & Session("counter") & " times!</p>" )
    End If
    Session("counter") = Session("counter") + 1

    If Not(IsEmpty(Session("date"))) Then
        Response.Write("<p>Last visit: " & Session("date") & "</p>")
    End If
    Session("date") = MonthName(month(Now)) & " " & day(Now) & ", " & year(Now) & " " & Time
    Response.Write("<hr/>")
    Response.Write("Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Platform, DB)")
End If
Response.Write("</html></body>")
%>
```

Login Form

Check password

<http://teon.switch.ch/public/sample.asp>

# Sample personalized App (with AAI) in PHP

```
<?php
session_start(); // Use PHP session cookies

if (!isset($_SESSION['counter'])) { // Set session counter variable, if not set already
    $_SESSION['counter'] = 0;
}
print '<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en"><body>';

$uniqueID = $_SERVER['HTTP_SHIB_SWISSEP_UNIQUEID']; // Read Shibboleth attribute for Unique ID
if (empty($uniqueID)) { // Unique ID attribute is missing
    print "Attribute (SwissEduPerson-) 'UniqueID' is missing.";
    print "<br/>Please contact the administrator of your AAI Home Organisation.";
}
else {
    $surname = $_SERVER['HTTP_SHIB_PERSON_SURNAME']; // Read Shibboleth attributes for surname/givenname
    $givenname = $_SERVER['HTTP_SHIB_INETORGPERSOON_GIVENNAME'];

    if (empty($surname) or empty($givenname)) {
        print "<h3>Hello " . $uniqueID . "!</h3>";
    }
    else {
        print "<h3>Hello " . $givenname . " " . $surname;
        print " (" . $uniqueID . ")!</h3>";
    }
}

if ($_SESSION['counter'] > 0) {
    print "<p>You were already here ";
    print $_SESSION['counter'] . " times!</p>"; // Show number of visits
}
$_SESSION['counter']++; // Increment session variable for number of visits
if (isset($_SESSION['date'])) {
    print "<p>Last visit: " . $_SESSION['date']; // Show date of last visit
}
$_SESSION['date'] = date("F j, Y, g:i a");
print "<hr/>";
print "Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Platform, DB)";
}
print "</html></body>";
?>
```

Check attributes

Use attributes

<http://teon.switch.ch/secure/sample.php>

# Sample personalized App (with AAI) in ASP

```
<%  
Dim uniqueID, surname, givenname  
  
If Not(Session("counter") > 0) Then  
    Session("counter") = 0  
End If  
Response.Charset="UTF-8"  
Response.Write ("<?xml version=""1.0"" encoding=""UTF-8""?>" & _  
    "<!DOCTYPE html PUBLIC ""-//W3C//DTD XHTML 1.1//EN"" & _  
    ""http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd"">" & _  
    "<html xmlns=""http://www.w3.org/1999/xhtml"" xml:lang=""en"">")  
  
Set uniqueID = Request.ServerVariables("HTTP_SHIB_SWISSEP_UNIQUEID")  
If (isEmpty(uniqueID)) Then  
    Response.Write("Attribute (SwissEduPerson-) 'UniqueID' is missing.")  
    Response.Write("<br/>Please contact the administrator of your AAI Home Organisation.")  
Else  
    ' Read Shibboleth attributes from HTTP server  
    Set surname = Request.ServerVariables("HTTP_SHIB_PERSON_SURNAME")  
    Set givenname = Request.ServerVariables("HTTP_SHIB_INETORGPERSOON_GIVENNAME")  
  
    If (isEmpty(surname) OR isEmpty(givenname)) Then  
        Response.Write("<h3>Hello " & uniqueID & "!</h3>")  
    Else  
        Response.Write("<h3>Hello ")  
        Response.Write((givenname) & " " & surname)  
        Response.Write("!</h3>")  
    End If  
  
    If (Session("counter") > 0) Then  
        Response.Write("<p>You were already here " & Session("counter") & " times!</p>" )  
    End If  
    Session("counter") = Session("counter") + 1  
  
    If Not(isEmpty(Session("date"))) Then  
        Response.Write("<p>Last visit: " & Session("date") & "</p>")  
    End If  
    Session("date") = MonthName(month(Now)) & " " & day(Now) & ", " & year(Now) & " " & Time  
    Response.Write("<hr/>")  
    Response.Write("Here comes whatever personalized application (WebMail, Calendar, Forum, Chat, Portal, E-Learning Platform, DB)")  
End If  
Response.Write("</html></body>")  
%>
```

Check attributes

Use attributes

<http://teon.switch.ch/secure/sample.asp>

---

SWITCH

The Swiss Education & Research Network

# Configuring Access Rules – How it could be done with Apache

# Configuring Access Rules in Apache

Access rules in httpd.conf or .htaccess

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

Any AAI user

```
<Location /restricted>  
  AuthType shibboleth  
  require uniqueID 235241@ethz.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.>