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AAI at Unil

Home Organization Integration

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GESTU

- Gestion des utilisateurs
  - Accès informatique (username/password)
  - Mailbox and email address
  - Security groups
- Students: automatic
- Employees: web interface or paper formular
- Gestu is integrated in RH and students database


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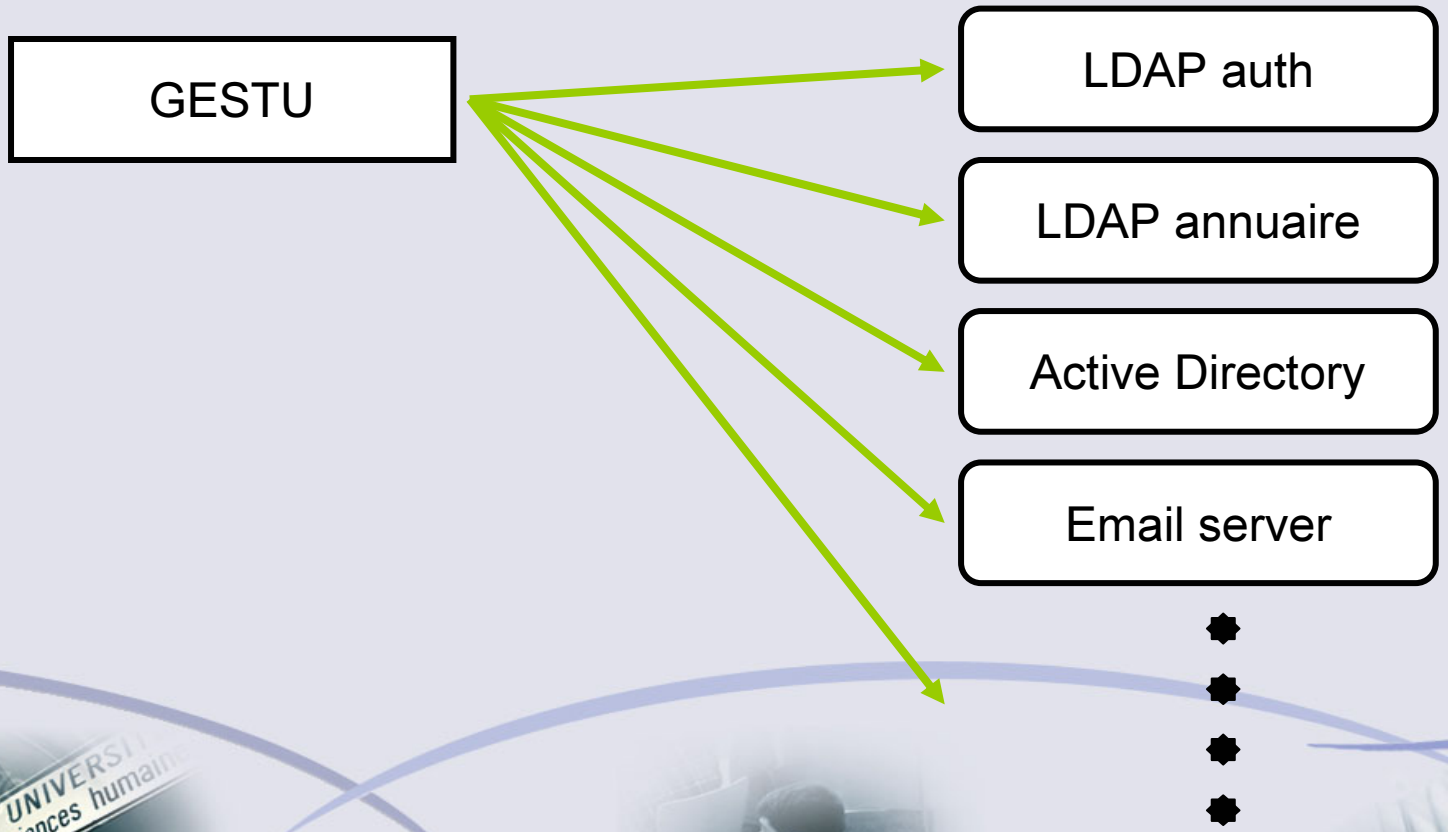
GESTU



A LDAP auth user

```
> dn: uid=uone,ou=unil-users,ou=gesu,dc=unil,dc=ch
> objectClass: top
> objectClass: person
> objectClass: organizationalPerson
> objectClass: inetOrgPerson
> objectClass: posixAccount
> uid: uone
> sn: One
> cn:User One
> givenName:User
> mail: User.One@ci.unil.ch
> uidNumber: 10281
> gidNumber: 10010
> loginShell: /bin/ksh
> gecos: User One
> homeDirectory: /users/uone
> userPassword:****************
```

A LDAP auth group

```
> cn=ci-g, ou=unil-groups,ou=gesu,dc=unil,dc=ch
> objectClass=top
> objectClass=groupOfUniqueNames
> objectClass=posixGroup
> cn=ci-g
> description=ci-g
> gidNumber=20001
> uniqueMember=uid=uone,ou=unil-users,ou=gesu,dc=unil,dc=ch
> uniqueMember=uid=utwo,ou=unil-users,ou=gesu,dc=unil,dc=ch
> uniqueMember=uid=uthree,ou=unil-users,ou=gesu,dc=unil,dc=ch
> memberUid=uone
> memberUid=utwo
> memberUid=uthree
```

An other LDAP attr

- A LDAP that contains AAI attributres: LDAP attr
  - adapt the LDAP schema
- All students and staff: ~15000 entries
- Same dn as LDAP auth
- Implements the following attributes

eduPersonPrincipalName
swissEduPersonUniqueID
surName
givenName
preferredLanguage
swissEduPersonDateOfBirth
swissEduPersonGender
mail
swissEduPersonHomeOrganization
swissEduPersonHomeOrganizationType
eduPersonAffiliation
swissEduPersonStudyBranch3
swissEduPersonStudyLevel
swissEduPersonStaffCategory
eduPersonEntitlement

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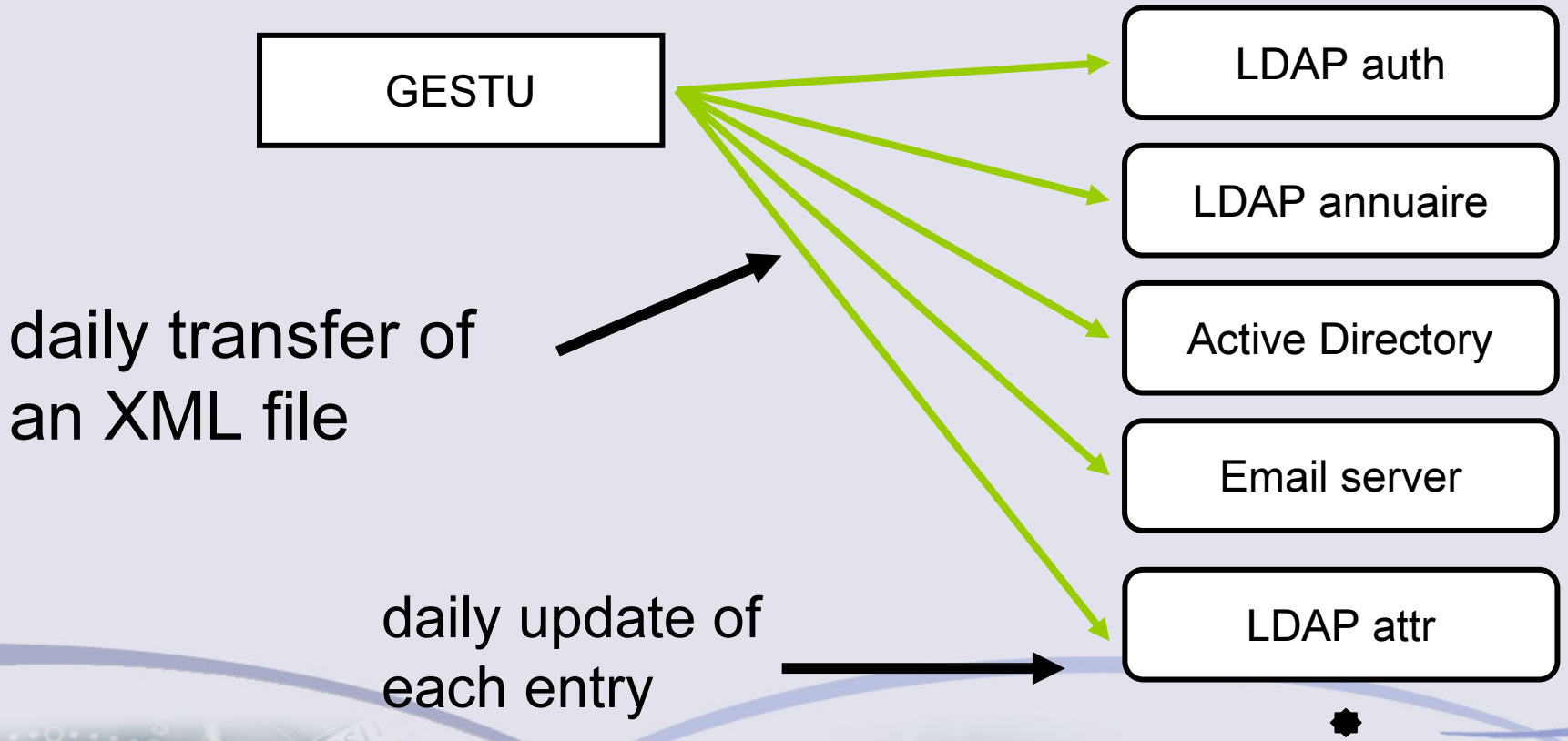
AAI: Home integration



XML entry (staff)

<swissEduPerson>
<uid>arootti</uid>
<unilPerNum>485</unilPerNum>
<swissEduPersonUniqueID></swissEduPersonUniqueID>
<surName>Rootti</surName>
<givenName>Aregg</givenName>
<swissEduPersonDateOfBirth>19640927</swissEduPersonDateOfBirth>
<swissEduPersonGender>1</swissEduPersonGender>
<mail>Aregg.Rootti@ci.unil.ch</mail>
<swissEduPersonHomeOrganization>unil.ch</swissEduPersonHomeOrganization>
<swissEduPersonHomeOrganizationType>university</swissEduPersonHomeOrganizationTy
pe>
<swissEduPersonHomeOrganization>unil.ch</swissEduPersonHomeOrganization>
<swissEduPersonHomeOrganizationType>university</swissEduPersonHomeOrganizationTy
pe>
<eduPersonAffiliation>staff</eduPersonAffiliation>
<swissEduPersonStaffCategory>300</swissEduPersonStaffCategory>
<eduPersonEntitlement>Acces-soft@unil.ch</eduPersonEntitlement>
<eduPersonEntitlement>All-users-portail@unil.ch</eduPersonEntitlement>
</swissEduPerson>

XML entry (student)

<swissEduPerson>
<uid>ostudent</uid>
<unilPerNum>58573</unilPerNum>
<swissEduPersonUniqueID></swissEduPersonUniqueID>
<surName>Student</surName>
<givenName>One</givenName>
<swissEduPersonDateOfBirth>19831228</swissEduPersonDateOfBirth>
<swissEduPersonGender>2</swissEduPersonGender>
<mail>One. Student@etu.unil.ch</mail>
<swissEduPersonHomeOrganization>unil.ch</swissEduPersonHomeOrganization>
<swissEduPersonHomeOrganizationType>university</swissEduPersonHomeOrganizationType>
<eduPersonAffiliation>student</eduPersonAffiliation>
<swissEduPersonStudyBranch3>1415</swissEduPersonStudyBranch3>
<swissEduPersonStudyBranch3>1600</swissEduPersonStudyBranch3>
<swissEduPersonStudyBranch3>1700</swissEduPersonStudyBranch3>
<swissEduPersonStudyLevel>1415-10</swissEduPersonStudyLevel>
<swissEduPersonStudyLevel>1600-10</swissEduPersonStudyLevel>
<swissEduPersonStudyLevel>1700-10</swissEduPersonStudyLevel>
<eduPersonEntitlement>All-etu@unil.ch</eduPersonEntitlement>
</swissEduPerson>

LDAP attr : a user (staff)

```
> dn: uid=uone,ou=unil-users,ou=gesu,dc=unil,dc=ch
> objectClass: swissEduPerson
> cn: User One
> eduPersonPrincipalName: uone
> swissEduPersonHomeOrganizationType: university
> swissEduPersonGender: 1
> uid: uone
> swissEduPersonHomeOrganization: unil.ch
> swissEduPersonDateOfBirth: 19640821
> swissEduPersonUniqueID: 578067@unil.ch
> swissEduPersonStaffCategory: 300
> eduPersonAffiliation: staff
> sn: One
> eduPersonEntitlement: Pat-unil@unil.ch
> eduPersonEntitlement: Gesu@unil.ch
> eduPersonEntitlement: Ci@unil.ch
> eduPersonEntitlement: Argos-users@unil.ch
> eduPersonEntitlement: Acces-soft@unil.ch
> eduPersonEntitlement: Rect-da-services@unil.ch
> eduPersonEntitlement: Switch-oper@unil.ch
> mail: User.One@ci.unil.ch
> givenName: User
```

LDAP attr : a user (student)

```
> dn: uid=sone,ou=unil-users,ou=gesu,dc=unil,dc=ch
> objectClass: top
> objectClass: person
> objectClass: organizationalPerson
> objectClass: inetOrgPerson
> objectClass: swissEduPerson
> cn: Student One
> eduPersonPrincipalName: sone
> swissEduPersonHomeOrganizationType: university
> swissEduPersonGender: 1
> uid: sone
> swissEduPersonHomeOrganization: unil.ch
> swissEduPersonDateOfBirth: 19831224
> swissEduPersonUniqueID: 589456@unil.ch
> eduPersonAffiliation: student
> sn: one
> eduPersonEntitlement: All-etu@unil.ch
> eduPersonEntitlement: Etu-lett-geographie@unil.ch
> swissEduPersonStudyLevel: 1600-10
> swissEduPersonStudyLevel: 4905-10
> swissEduPersonStudyLevel: 1415-10
> mail: Student.One@etu.unil.ch
> swissEduPersonStudyBranch3: 1600
> swissEduPersonStudyBranch3: 1415
> swissEduPersonStudyBranch3: 4905
> givenName: Student
```

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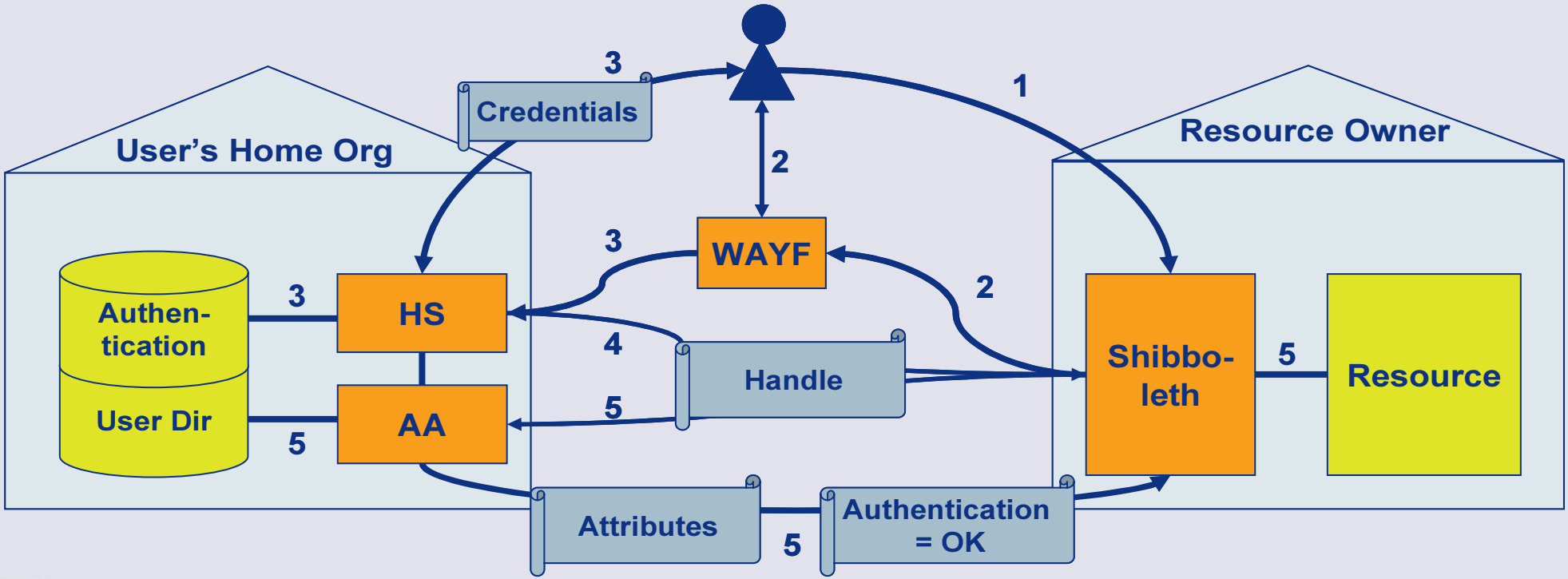
Shibboleth



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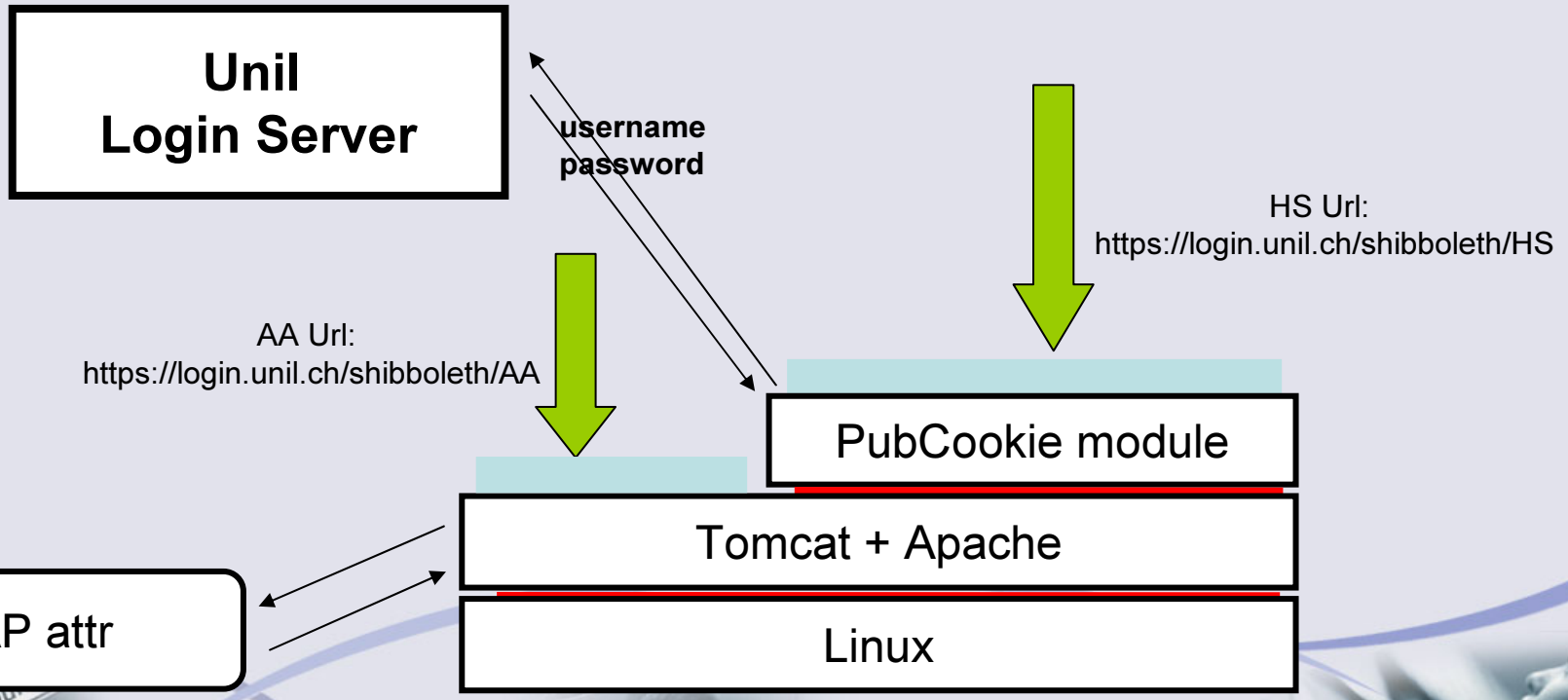
Shibboleth: origin site



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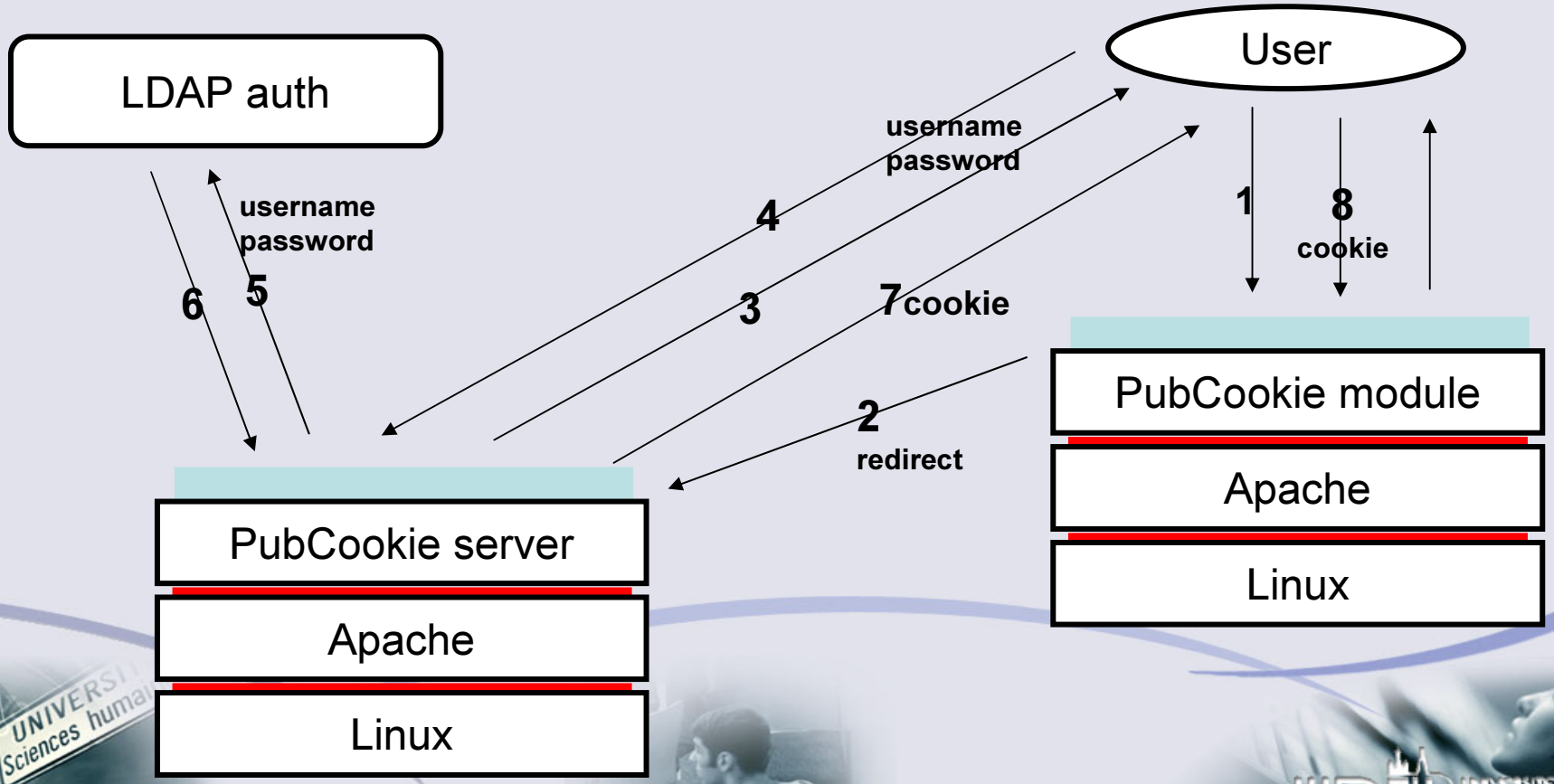
Pubcookie login server



Origin site: httpd.conf Authentication

```
> <IfModule mod_jk.c>
> Include /etc/httpd/conf/mod_jk.conf
> </IfModule>

> # Pubcookie Configuration
> PubcookieAuthTypeNames EGNetID
> PubcookieInactiveExpire -1
> PubcookieLogin https://login.unil.ch/
>
> <Location /shibboleth/HS>
> AuthType EGNetID
> AuthName "shibboleth/HS"
> require valid-user
> </Location>
```

Origin site: resolver.xml Attributes

```
> <SimpleAttributeDefinition id="urn:mace:switch.ch:attribute-
  def:swissEduPersonUniqueID" > <DataConnectorDependency requires="directory"/>
     </SimpleAttributeDefinition>
  ….
> <JNDIDirectoryDataConnector id="directory">
  <Search filter="uid=%PRINCIPAL%">
  <Controls searchScope="SUBTREE_SCOPE" returningObjects="false" /></Search>
  <Property name="java.naming.factory.initial" value="com.sun.jndi.ldap.LdapCtxFactory"
  />
  <Property name="java.naming.provider.url" value="ldap://cati.unil.ch:390/ou=unil-
  users,ou=gesu,dc=unil,dc=ch" />
  <Property name="java.naming.security.principal" value="uid=xxxxxx,dc=unil,dc=ch" />
  <Property name="java.naming.security.credentials" value="xxxxx"  />
> </JNDIDirectoryDataConnector>
```

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Demo

> Shib Secure page on lita (valid user)

> Shib Secure page on lita (staff)

> Shib Secure page on lita (student)

> Secure page on exptest (staff only)

Fichier Edition Affichage Favoris Outils ?

Précédente Rechercher Favoris Média

Adresse C:\temp\aai\aai\index.html OK Liens

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Centre informatique

Serveur d'authentification

nom d'utilisateur

mot de passe

Envoyer

The resource you requested requires you to authenticate.

- Cette connexion vous donne accès aux applications utilisant ce système d'authentification (AAI) durant une période de 4 heures.
- **ATTENTION**: Pour protéger vos accès et éviter un accès non autorisé, la déconnexion compléte est effectuée en fermant toutes les fenêtres de votre navigateur et en quittant l'application.

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Poste de travail

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Conclusion

- Installation of Shibboleth-Origin
  -> No problem on Linux (RedHat, Debian)
- Two LDAP
  - LDAP for authentication
  - LDAP for attributes
- Extracting data (XML file) -> easy in our case
  - GESTU integrated in RH and Students databases
  - A single IT team at Unil -> cooperation