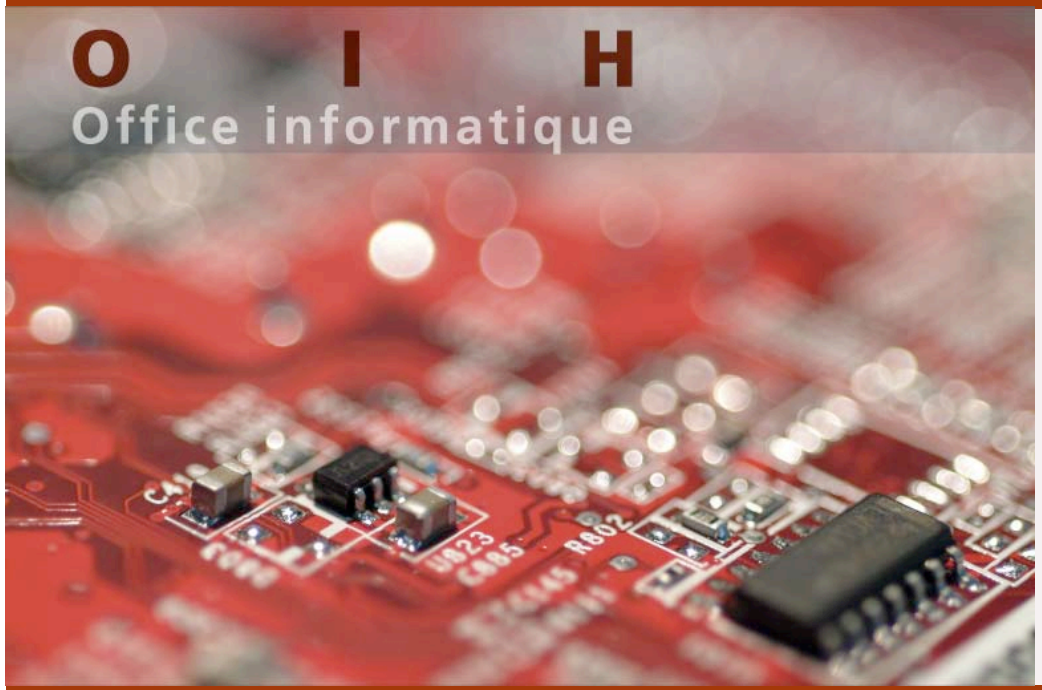

AAI @ CHUV

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Agenda

- Presentation of the CHUV
- Security concepts at CHUV
- The challenge
- AAI implementation for UNIL students

Some indicators

- 7100 Employees + 400 Students
- 1300 Beds
- 2 campuses and several small remote sites

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- Equipments
  - PC 7000
  - Printers 1930
  - Servers 250
  - Applications 750
  - Storage
    - 70Tbytes

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- Locations
  - One LAN spread on 2 main campuses
  - 23 Small remote sites
- 385 network equipments
  - VPN
  - Firewalls
  - Routers
  - Switches
  - WiFi
  - …

Agenda

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- Security concepts at CHUV
- The challenge
- AAI implementation for UNIL students

Security concepts at CHUV

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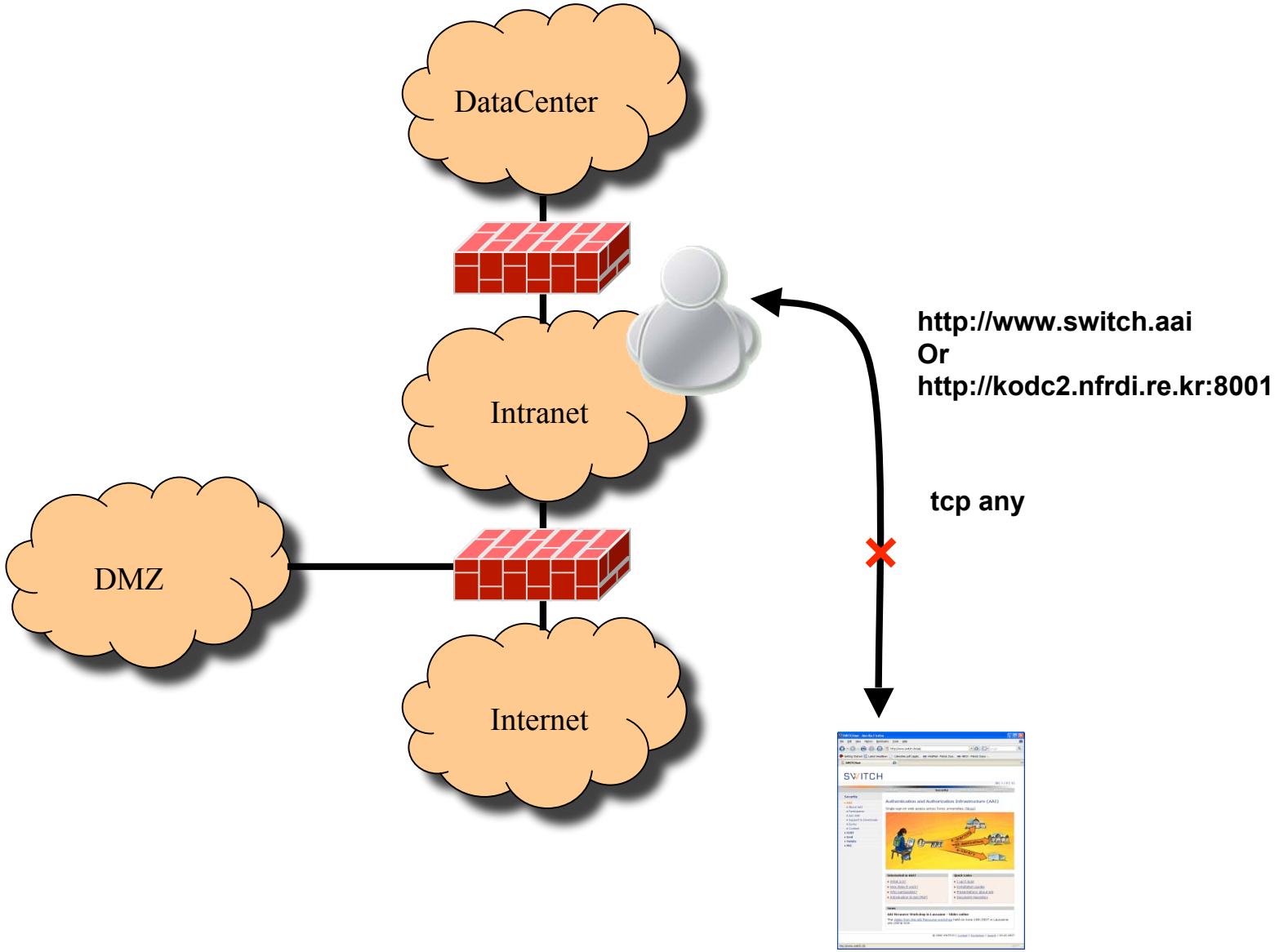

Security concepts at CHUV

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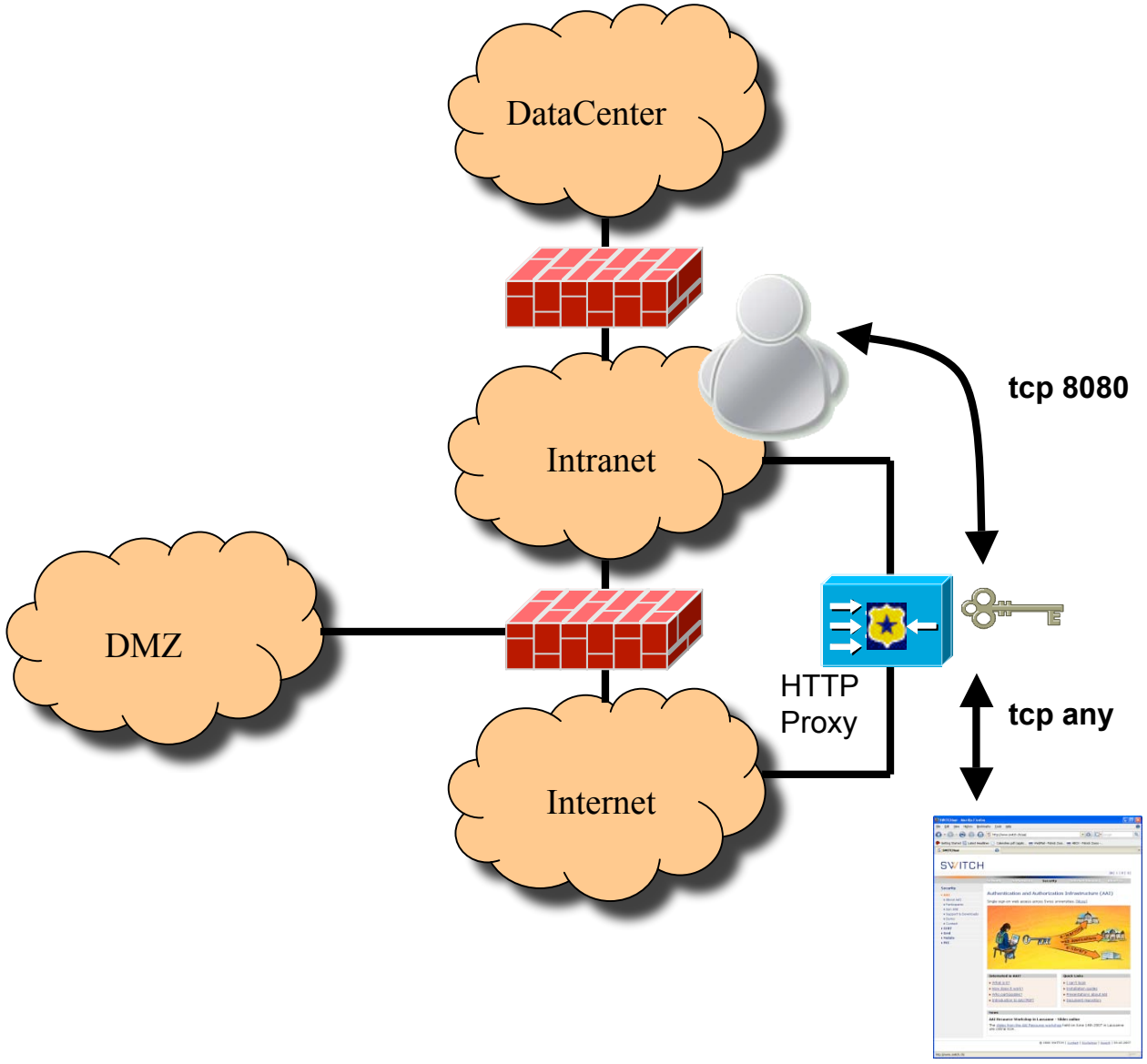

Security concepts at CHUV

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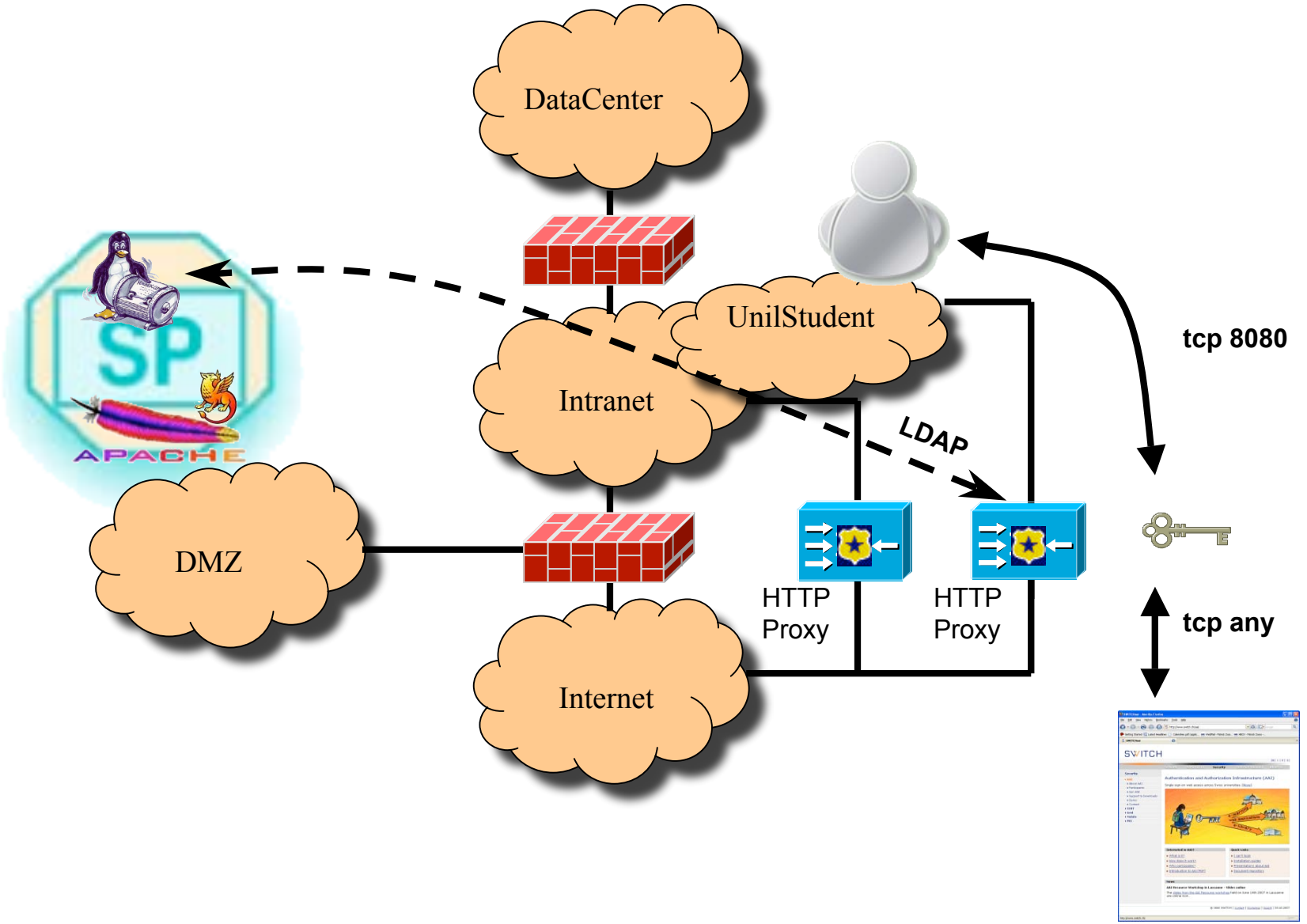

Agenda

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- The challenge
- AAI implementation for UNIL students

The situation:

- Users who are not CHUV employees (UNIL students) need to access internet from our premises
- They use specific PCs from the library
- They use PCs configured to automatically logon with a generic account

The needs:

- We need to identify the users who access internet for policy enforcement purpose

The Challenge

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The environment:

- Our proxies are currently BlueCoat appliances
- BlueCoat does not support mod_shib authentication
- Shibboleth is “easy” to implement on IIS or Apache
- We need to force the PCs to use the proxy

The solution:

- A dedicated BlueCoat proxy
- A Service Provider on Debian 4.0
- Apache 2.2 with mod_shib enabled
- Open LDAP
- Two CGI scripts
- A GPO to force the user's PCs to use the proxy

Agenda

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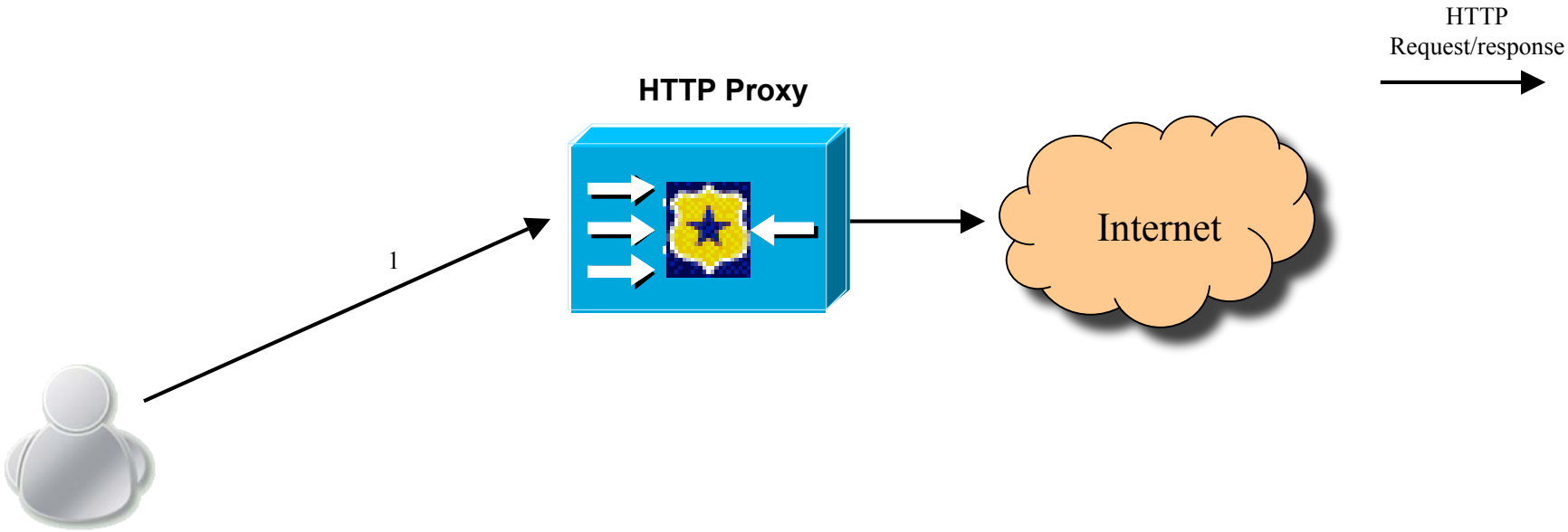
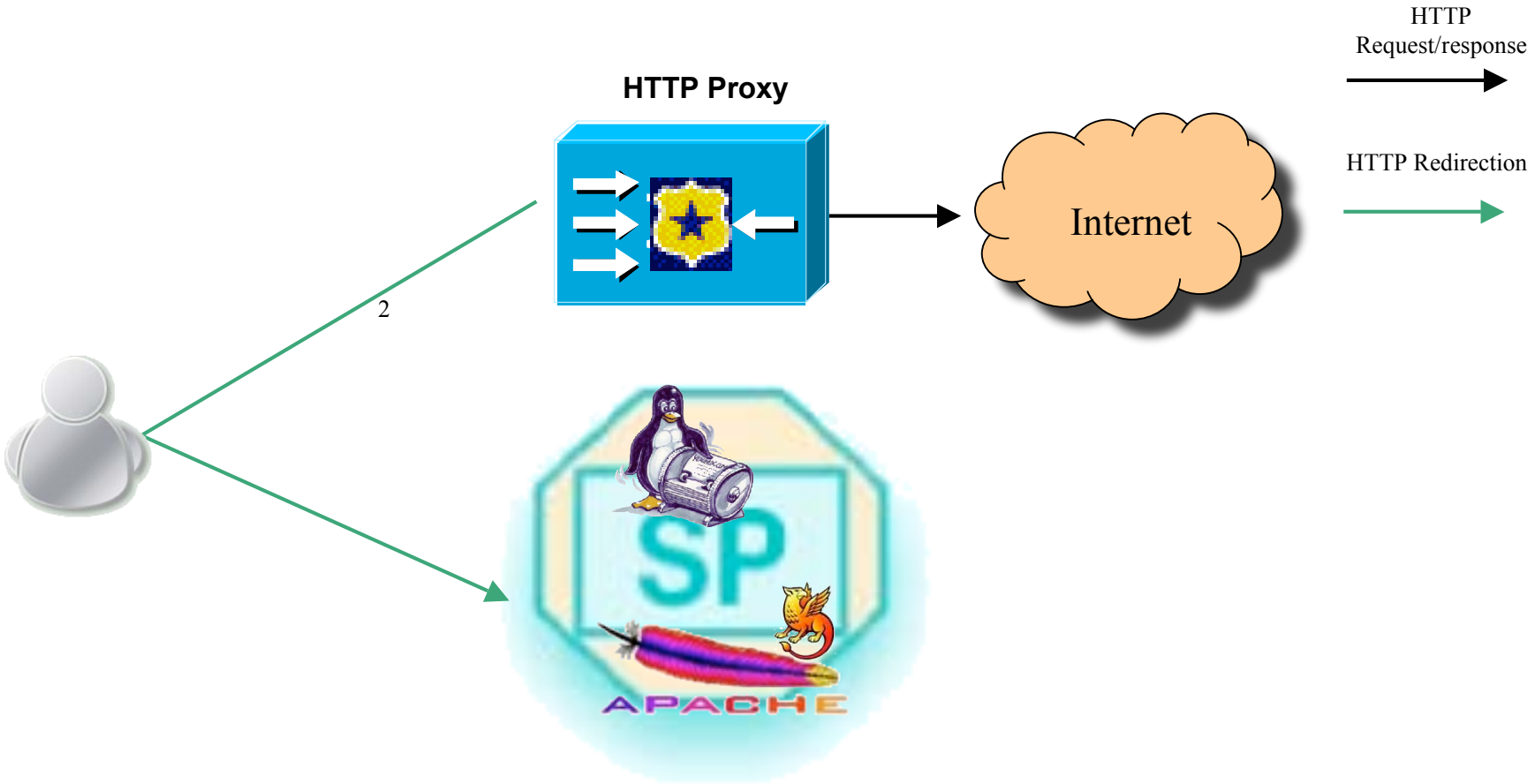
- AAI implementation for UNIL students

1 Internet access request



2 Redirection to a perl script protected by Shibboleth



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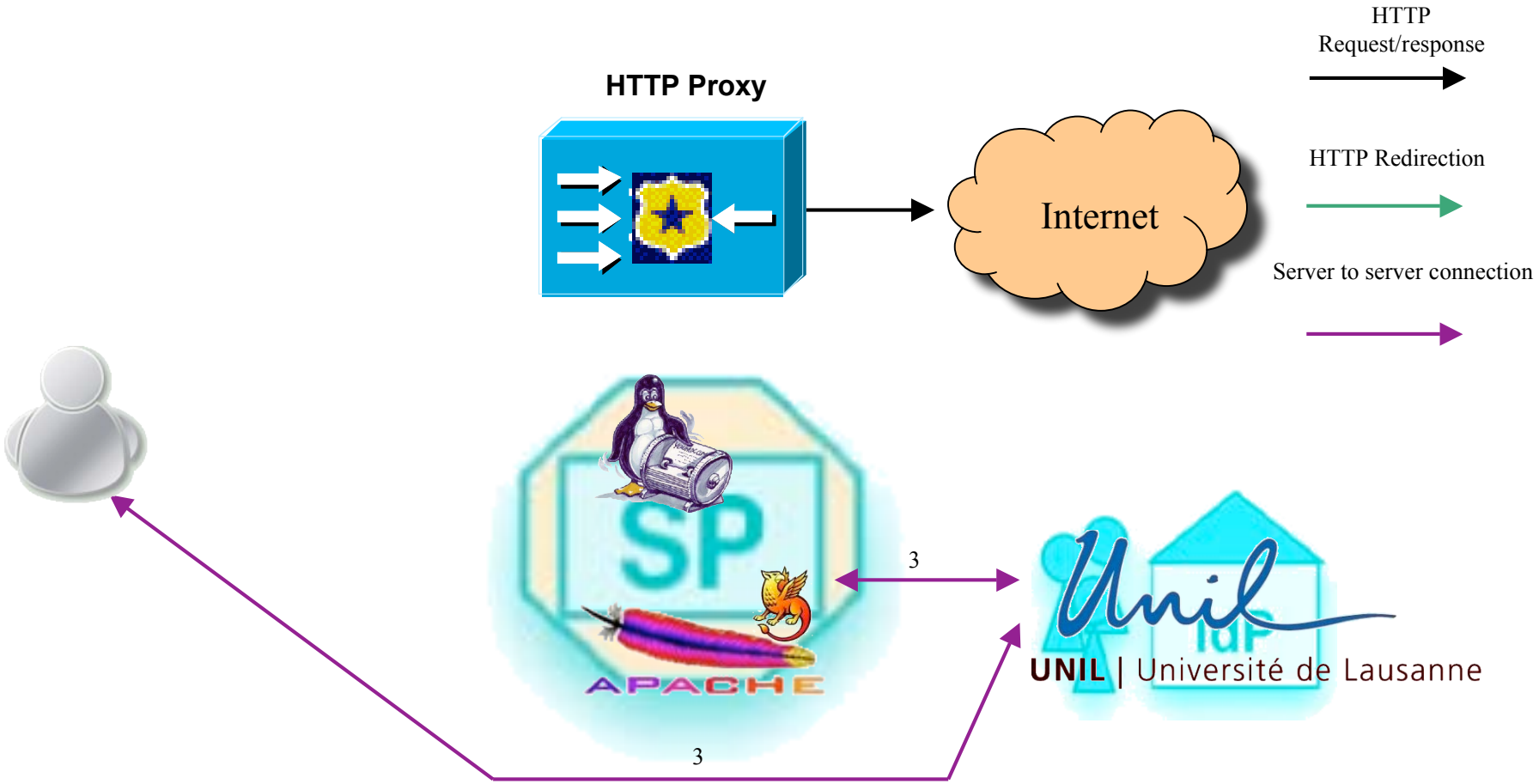
3 AAI authentication



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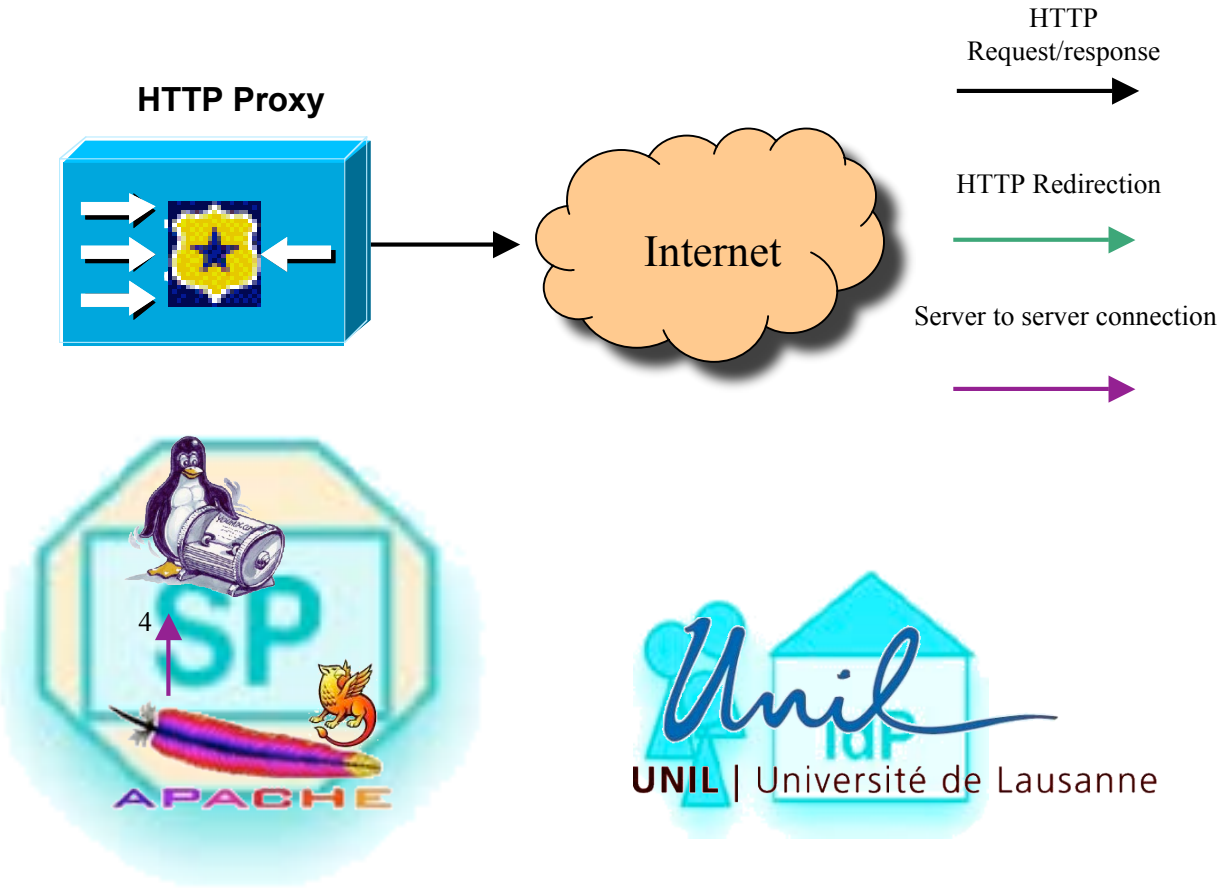
4 Creating the LDAP user



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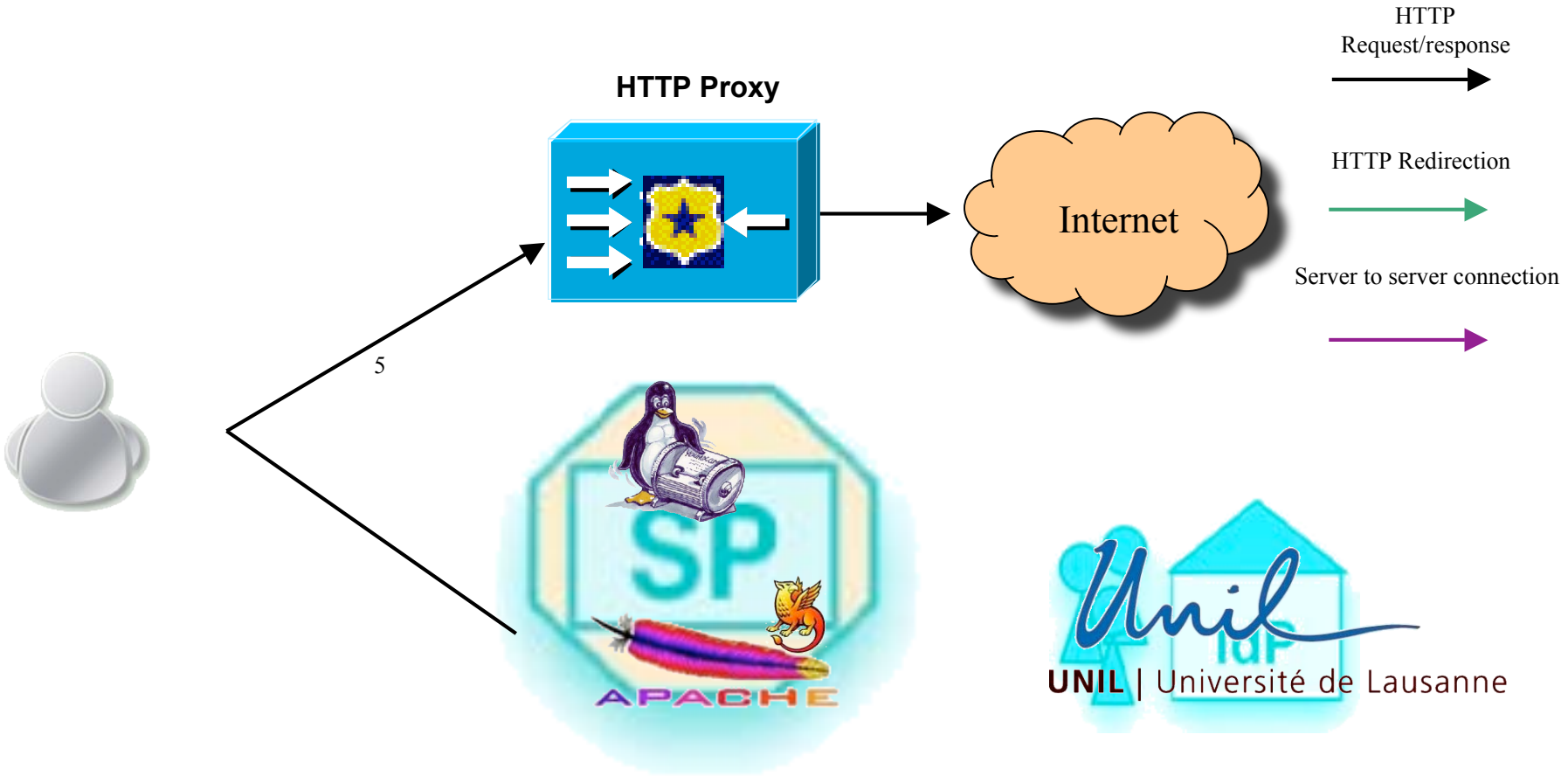
5 Creating and sending the authentication form



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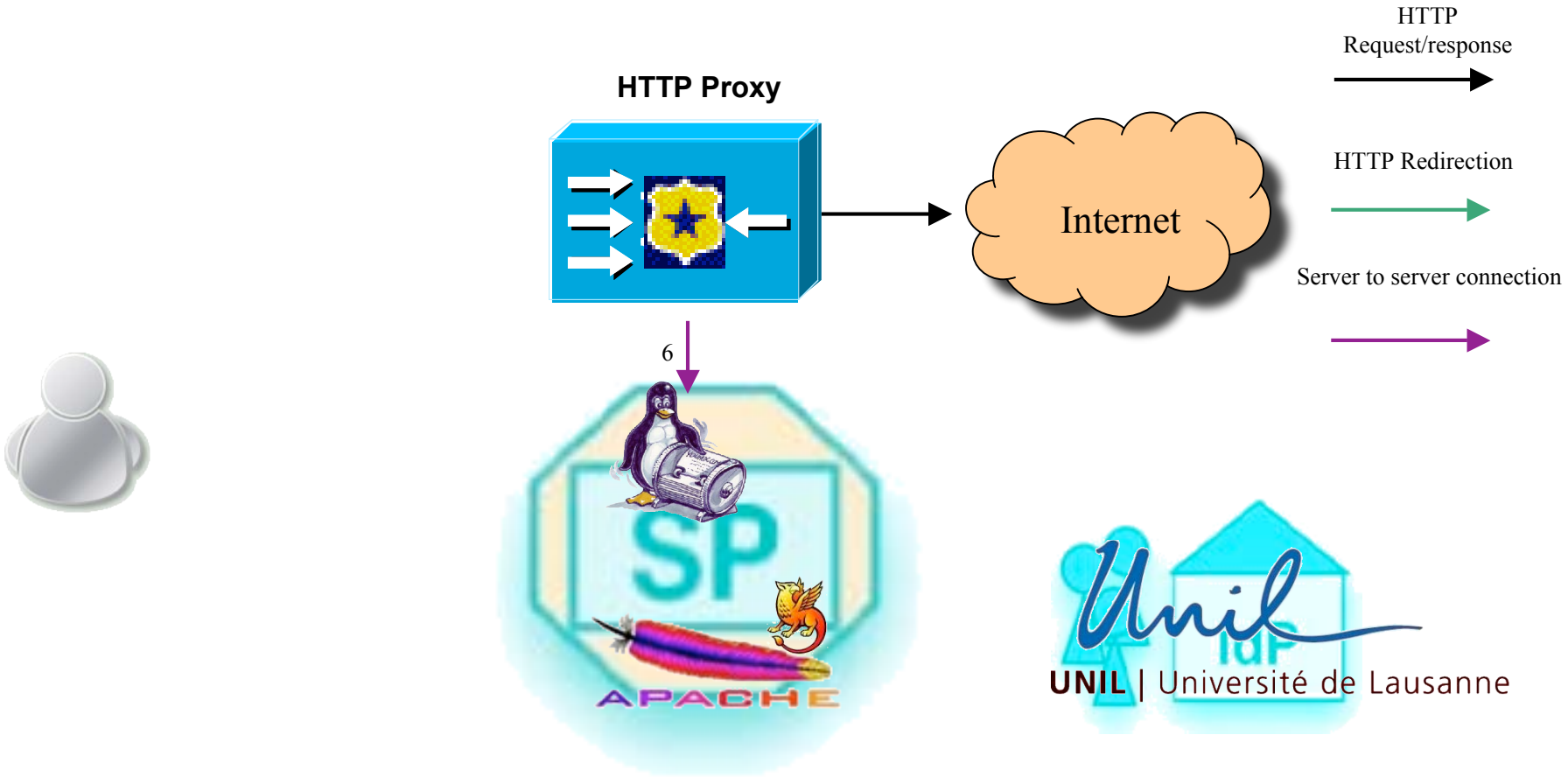
6 The proxy requests authentication to the LDAP server



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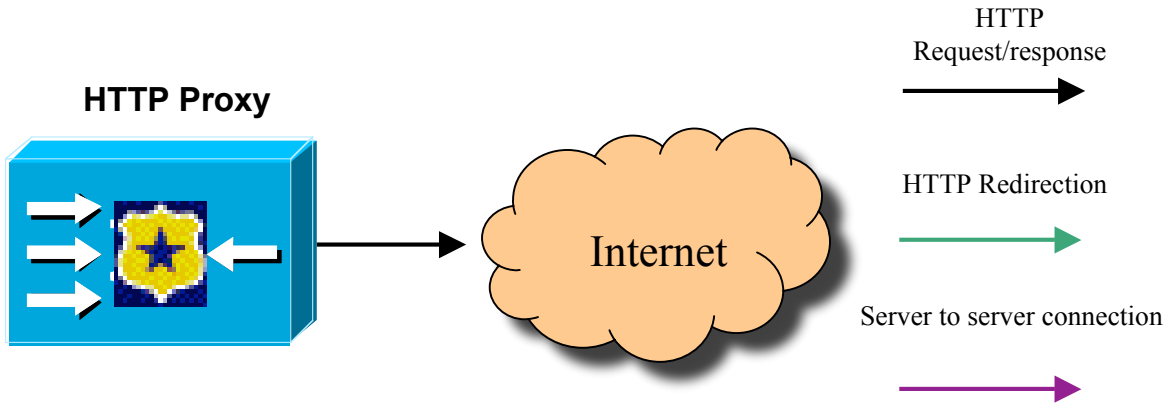
7 LDAP user gets deleted



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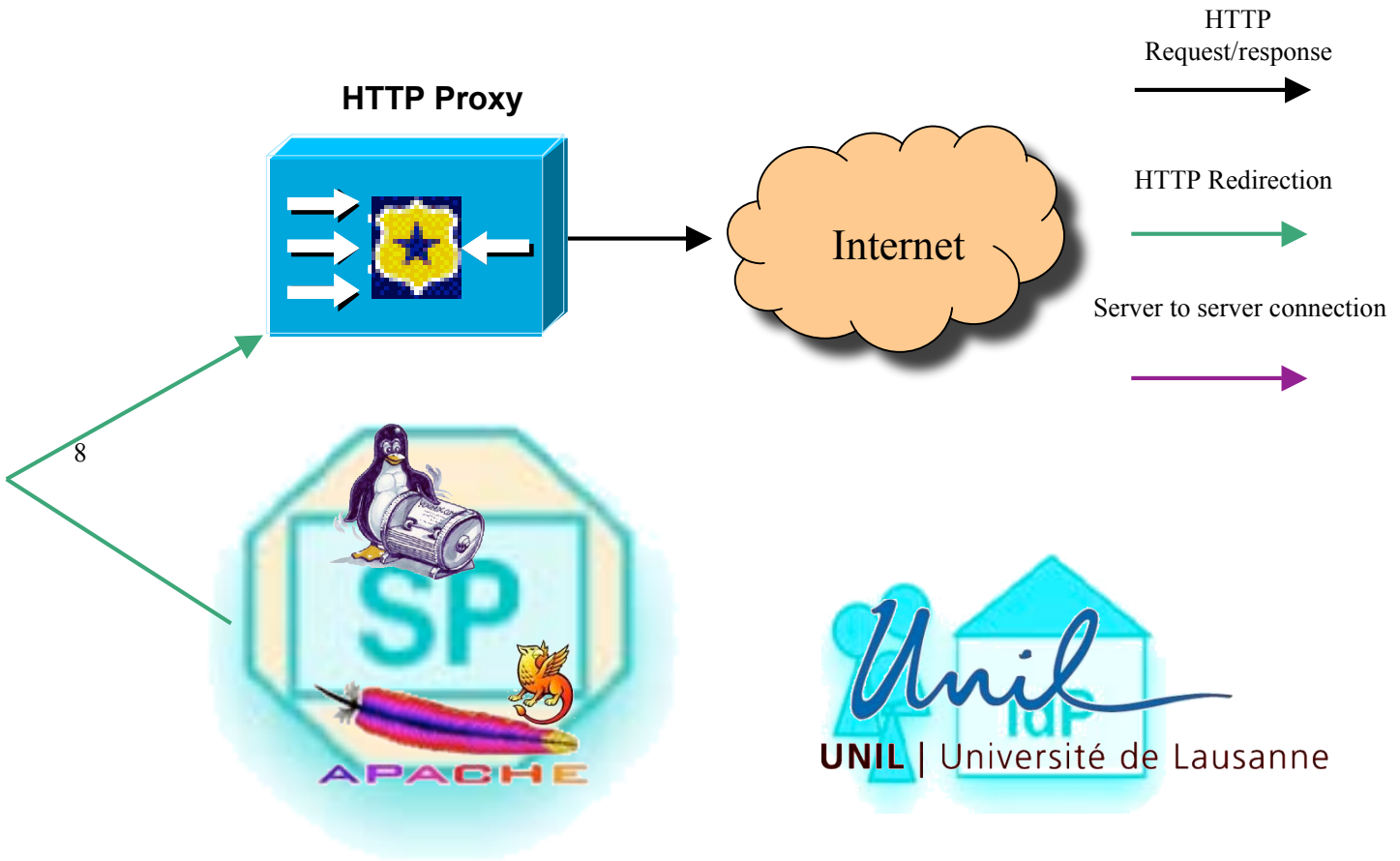
8 Redirection to the requested URL



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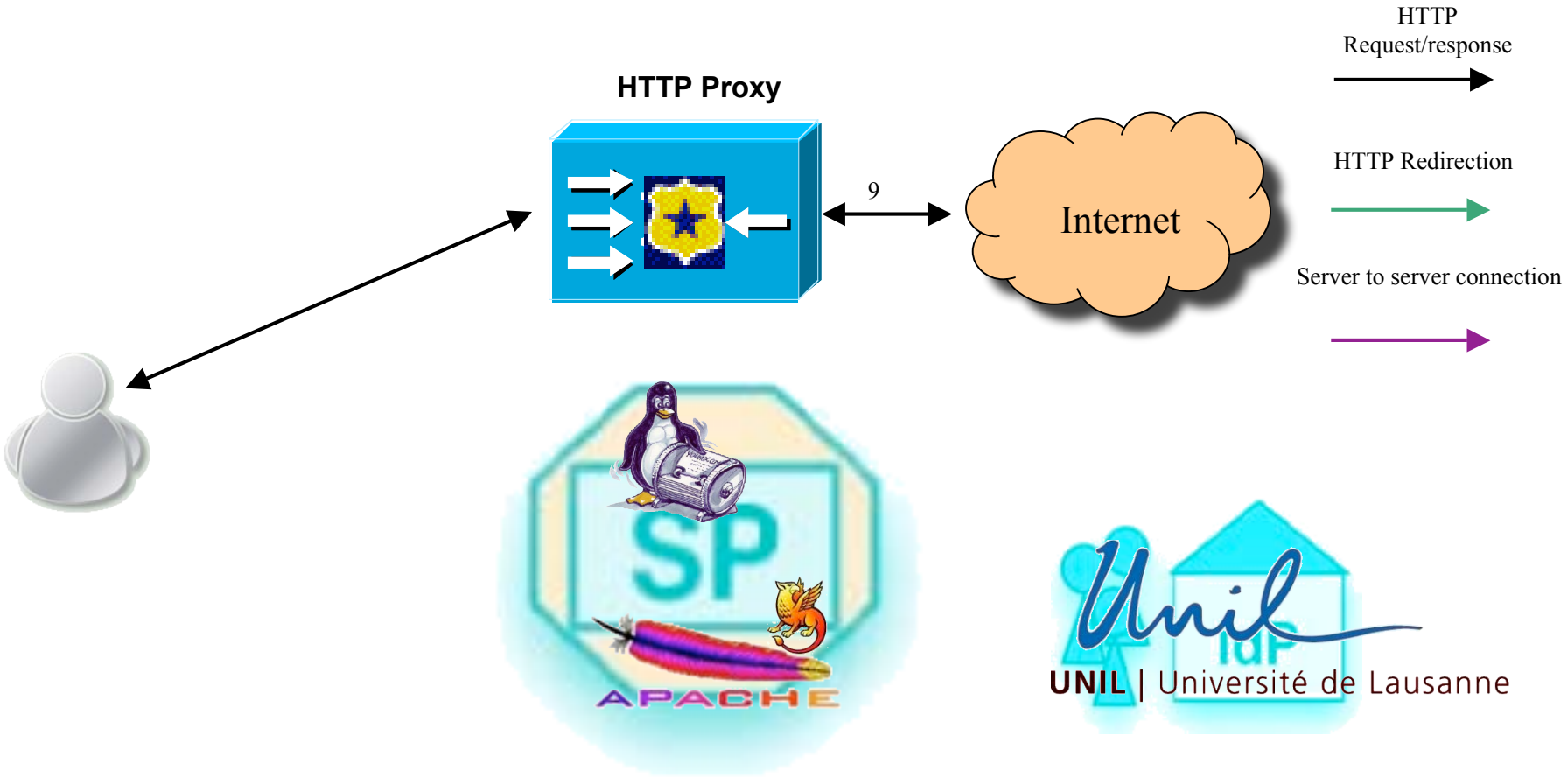
9 Internet access



AAI implementation for UNIL students

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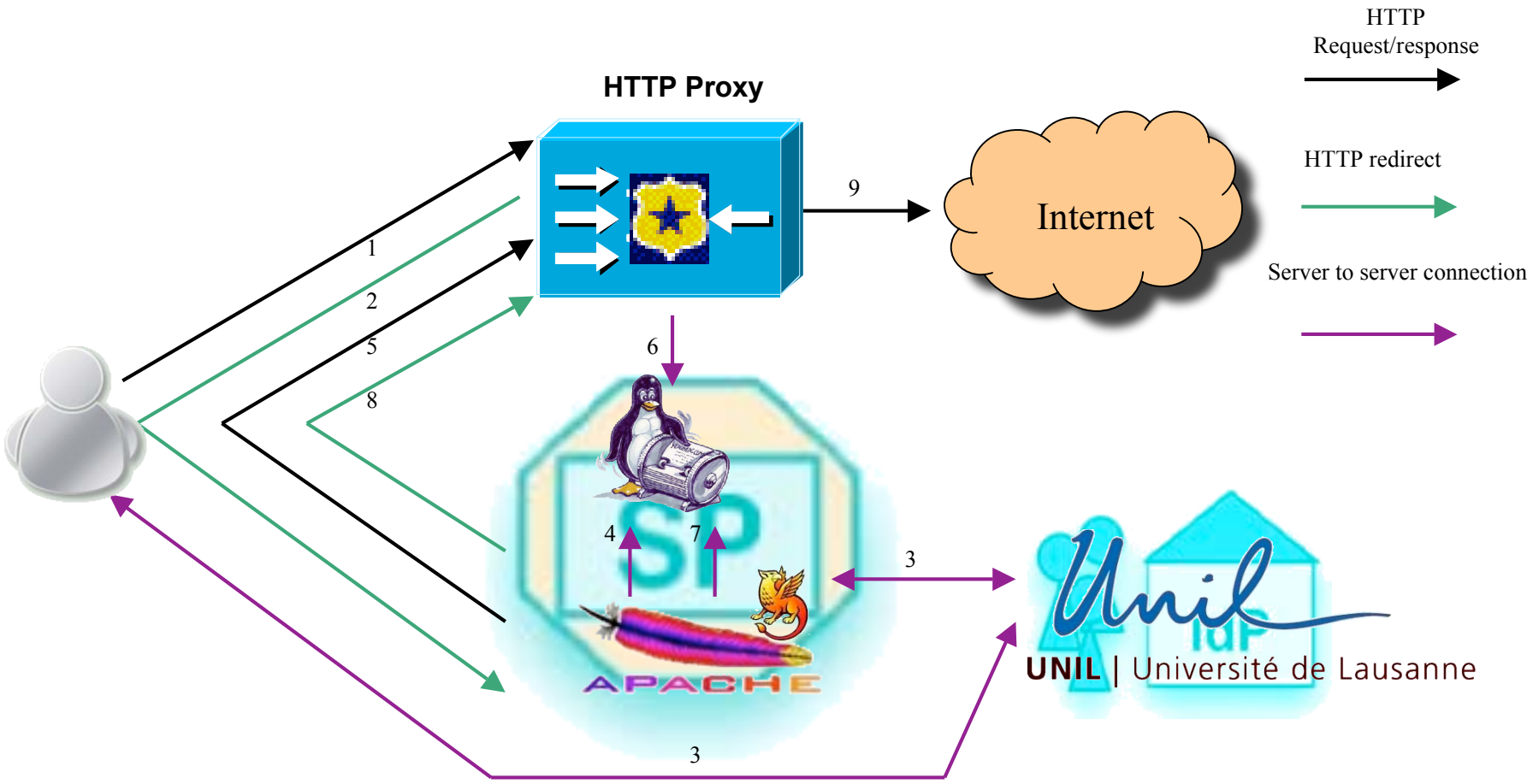

1 Internet access request
2 Redirection to a perl script protected by Shibboleth
3 AAI authentication
4 Creating the LDAP user
5 Creating and sending the authentication form
6 The proxy requests authentication to the LDAP server
7 LDAP user gets deleted
8 Redirection to the requested URL
9 Internet access

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