

# Umbrella authentication

## Local implementation overview

- « Umbrellifying » web application  
*what to do in order to allow umbrella users to authenticate on my web application?*
- Infrastructure overview
- Implementing an authentication server (optional)

# « Umbrellifying » an application

- Your application should:
  - Speak SAML(2.0) or get a translator
  - Implement the user mapping workflow

- SAML = web Single Sign On
- You are probably already familiar with SSO protocols:
  - CAS, OpenID, Oauth, ...
  - Diamond/ILL, Google, Facebook, ...
- 3 parties :
  - User's browser
  - Application (SP)
  - Authentication server (IdP)

Your application should understand SAML assertions during **login** and **logout**. You can :

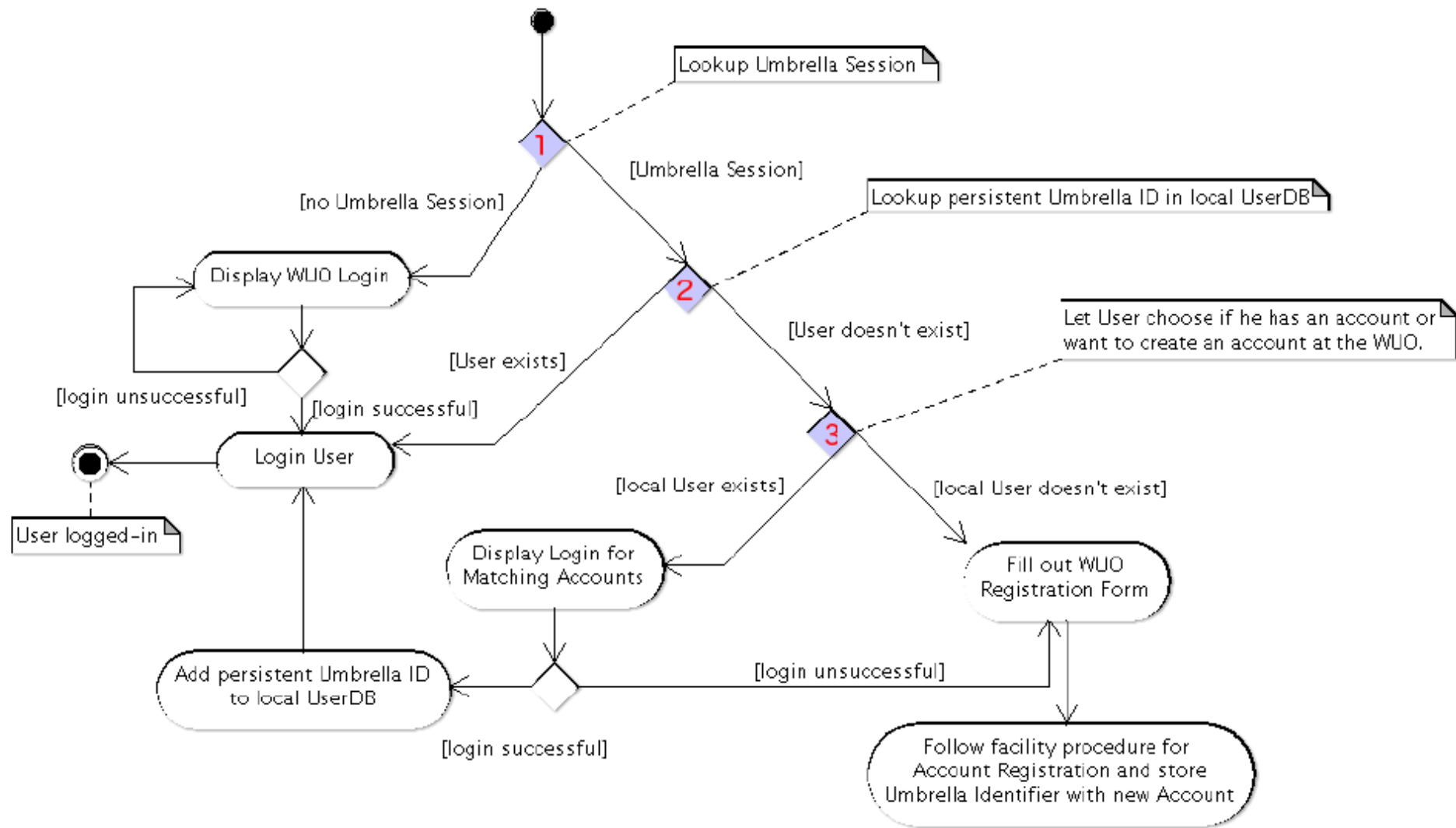
- Add SAML understanding to your code (through the use of existing libraries)
- Use a front end that will speak SAML for you (easiest way for starting)

- You already have users
- They probably already got some Authorizations
- You need to “map” those users to their Umbrella credentials

perrin @ ILL = jfperrin @ umbrella

ILL UID = Umbrella EUU

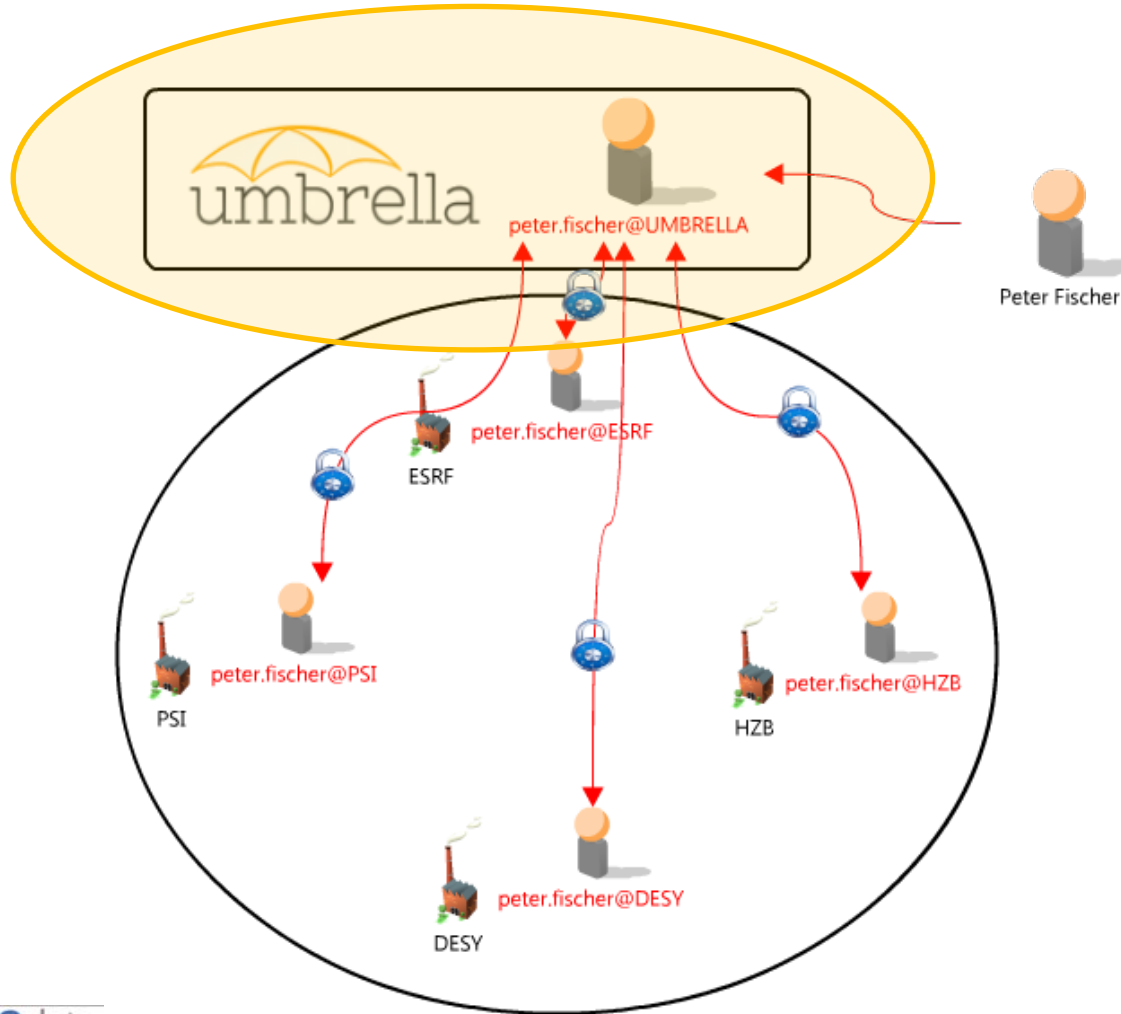
# Mapping user workflow



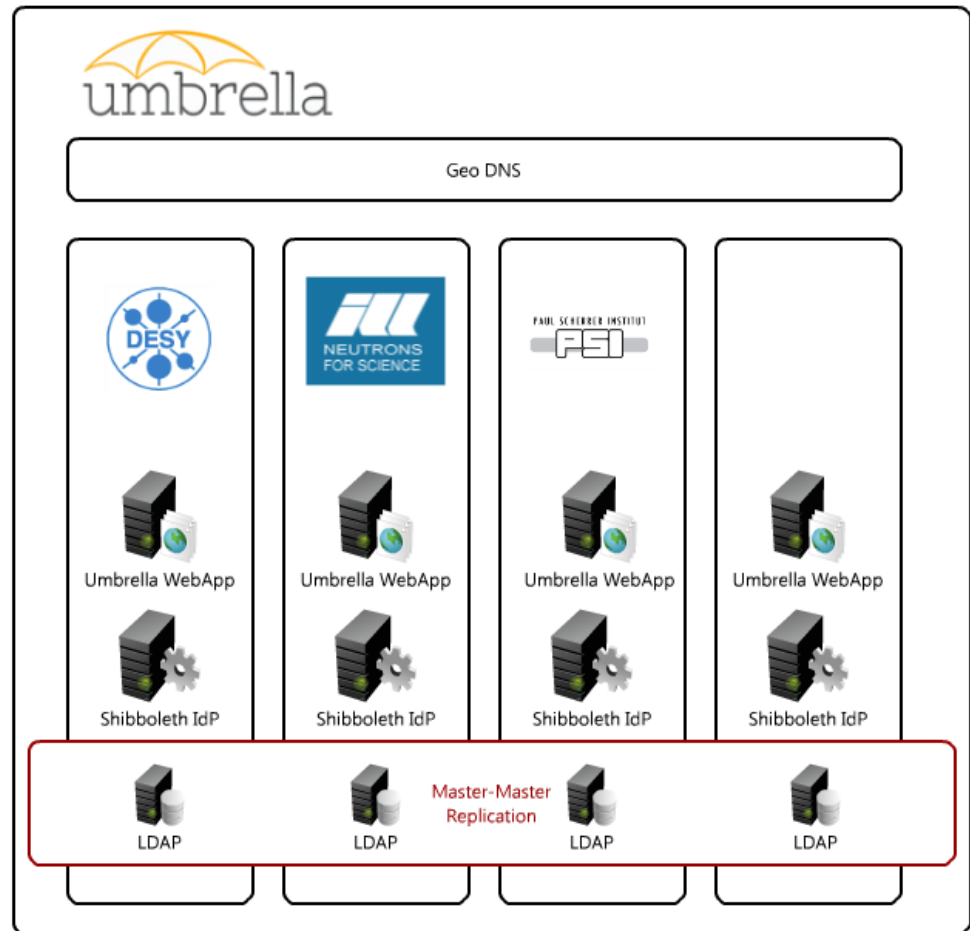


# Infrastructure overview

# Authentication server (IdP)



Strong need for  
high availability  
on the  
Authentication  
server



- IdPs are replicated: PSI + ILL + ...
- IdPs are monitored
  - If one down, users are redirected to another one.
- IP address resolution is based on geographic location for sharing the load.


Who is [www.umbrellaid.org](http://www.umbrellaid.org)?

- from UK, France networks: 193.49.43.138
- from Germany, Switzerland networks: 192.33.120.67

# Implementing an authentication server

## (Optional)

- Set-up
  - LDAP Master-Master Replication
  - Shibboleth IdP
  - Umbrella WebApp + Shibboleth client
  - Apache (SSL) + Tomcat
- Monitoring
  - Security - availability
  - Troubleshooting – client support

Want a try?  [umbrellaid.org](http://umbrellaid.org)

Still some questions?  
 [contact@umbrellaid.org](mailto:contact@umbrellaid.org)