

# PySaml2

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# Why another implementation ?

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- Like with all other important protocols, every major programming language should have at least one implementation of it, in order for the protocol to be successful !!
- I had an application written in Python, which I wanted to SAML2 SSO enable and I wanted to do it natively.
- I wanted to really understand SAML2

# The context

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- WSGI - Web Service Gateway Interface (PEP 333)
  - ✓ a standardized interface between Web servers and Python Web frameworks/ applications
- The PEP specifies three roles:
  - ✓ the role of a server,
  - ✓ the role of a framework/app, and
  - ✓ the role of a middleware object.

# Lifecycle of a request (repoze.who)

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- Ingress

- request classification
- identification
- authentication
- metadata provision

- Egress

- challenge decision
- challenge
- remember

# So how far have I got ?

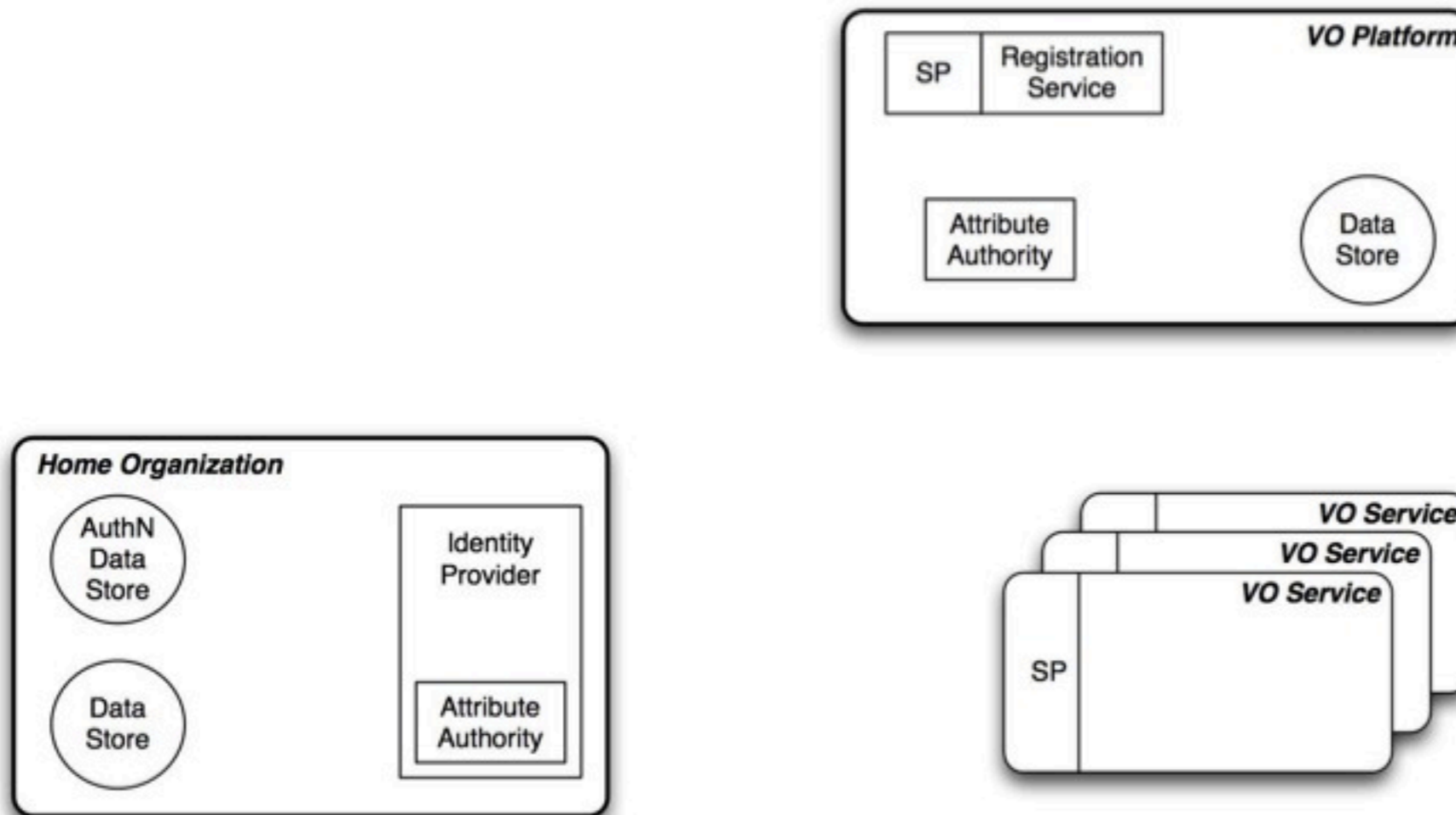
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- Started off with something done by Jeffrey Scudder, Google and modified by Takashi Matsuo.
- Initially concentrated on implementing a SP but have not IdP and AA support.
- Chose repoze/repoze.who as WSGI framework
- Have working prototype implementations that does:
  - ✓ Attribute aggregation
  - ✓ SSO support for AJAX based Admin GUIs
- Not production quality

# Attribute Aggregation Demo

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## The Components



# The demo walk through

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1. A user is registering to the VO platform.
  - This includes the VO platform getting information about the user from the users home organization. At this point in time the IdP of the home organization are creating a identifier for the user to be used by all parts of the VO
2. A VO manager is assigning entitlements to the user on the VO platform
3. The user uses a VO service that will access information about the user from:
  - The home organization
  - The Attribute Authority of the VO platform

# Where can it be found ?

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- No distribution package yet!
- The project hosted on Launchpad

bzr branch lp:~roland-hedberg/pysaml2/main pysaml2