

# Turplango: Playing Nice with Others

Integrating Plone with WSGI and repoze  
For the 2008 DZUG Tagung, Saarbruecken  
Tres Seaver, Agendaless Consulting

Your mission...



*... should you choose to accept it*

Repoze

# Build a company extranet

## Requirements:

Document sharing / collaboration

Dashboard to existing RDBMS data

Web 2.0-style tagging of all content

Issue tracking

Display corporate branding

Single sign-on (SSO)

Alternative: Pot pie

Implement it all in Plone



## Alternative: Pot pie

### Pros:

Familiar

SSO not an issue (integrate via PAS)

Administer a single server

Maybe behind Apache proxy

## Alternative: Pot pie

### Cons:

Minimal reuse

Lots of custom Plone-specific software

Reimplement branding in ZPT, viewlets

Zope RDBMS support is low-level

no ORM or forms integration

## Alternative: Smorgasboard

Integrate best-of-breed tools



## Alternative: Smorgasboard

### Tools available:

Plone for document sharing, collaboration

Django for RDBMS dashboard

Tasty (TurboGears) for tagging

Trac for issue tracking



# Alternative: Smorgasboard

Pros:

Better reuse

Tasty, Trac are “off the shelf” apps

Django provides easy admin UI for RDBMS data

## Alternative: Smorgasboard

### Cons:

Redo branding in **four** templating systems

Integrate SSO **four** times

Administer **four** servers

Worse as we add more applications later

## Alternative: Turducken

Integrating Best-of-breed Poultry, Cajun-style

A turkey, wrapped around a duck, wrapped around a chicken

*CMF Turducken from Cajun Creations*



## Alternative: Turducken

Integrate the same tools from the smorgasboard

Share branding via Deliverance

Integrate SSO via repoze.who

Run under WSGI

## Alternative: Turducken

### Pros:

Same reuse as Smorgasboard

Reuse existing branding

Static HTML

or fetched over HTTP

## Alternative: Turducken

### Pros:

- Implement SSO once

  - Reuse existing repoze.who integrations

- Run one server

  - Paste

  - `mod_wsgi`

## Alternative: Turducken

### Pros:

Reuse existing WSGI components

Profiling / debugging

Transactions / sessions

Virtual hosting

Migrate between deployment models

Development sandbox

Production buildout

## Alternative: Turducken

### Cons:

Unfamiliar technology

Deployment doesn't match product docs

Does it ever really match?



# Theming with Deliverance



- Merges elements from content DOM into theme DOM
- Can work without changing either application or theme
- Declarative rules defined in XML

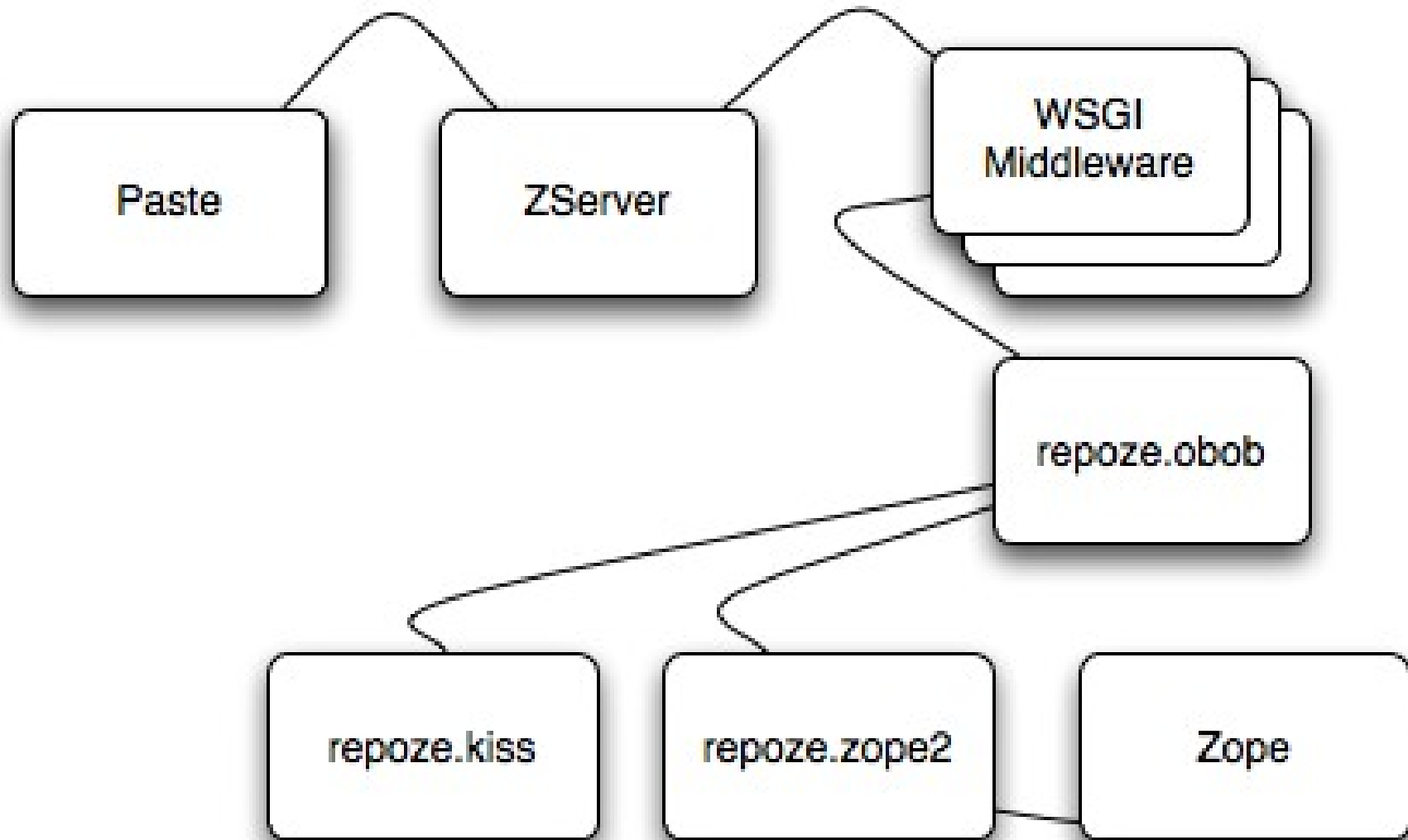
# Authentication with repoze.who

WSGI middleware using PAS-style plugins:

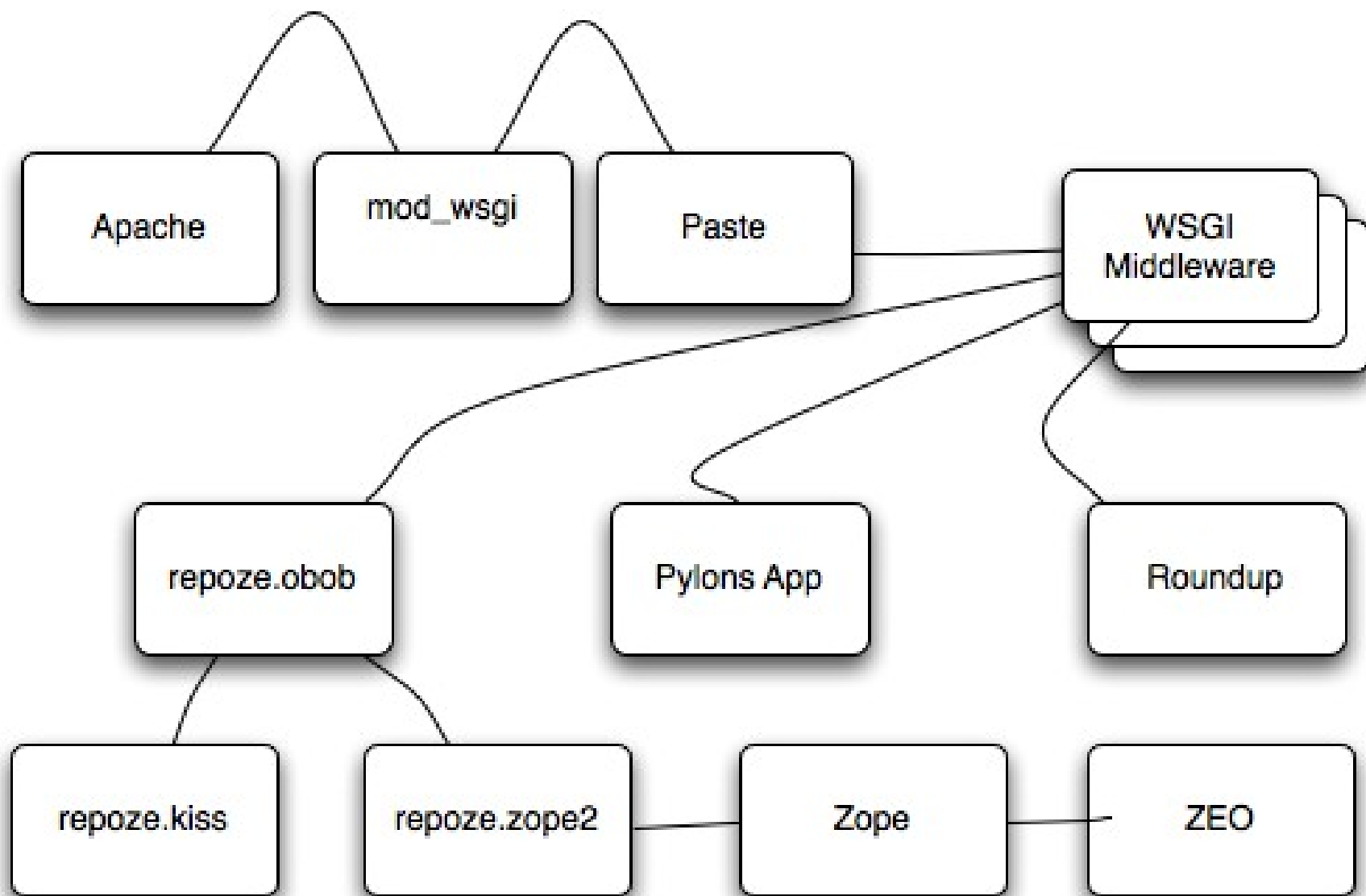
- Extract credentials
- Authenticate user
- Decorate user (groups, properties)

**Not** authorization

# Repoze in Development



# Repoze in a Deployment



# Repoze Resources

- Home page: <http://repoze.org/>
- Subversion: <http://svn.repoze.org/>
- Bug tracker: <http://bugs.repoze.org/>
- Mailing lists: <http://lists.repoze.org/>
- IRC: <irc://irc.freenode.net/#repoze>

# End

- Full-stop.
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- Tres Seaver, [tseaver@agendaless.com](mailto:tseaver@agendaless.com)