

Turplango: Playing Nice with Others

Integrating Plone with WSGI and repoze
For the 2008 DZUG Tagung, Saarbruecken
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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

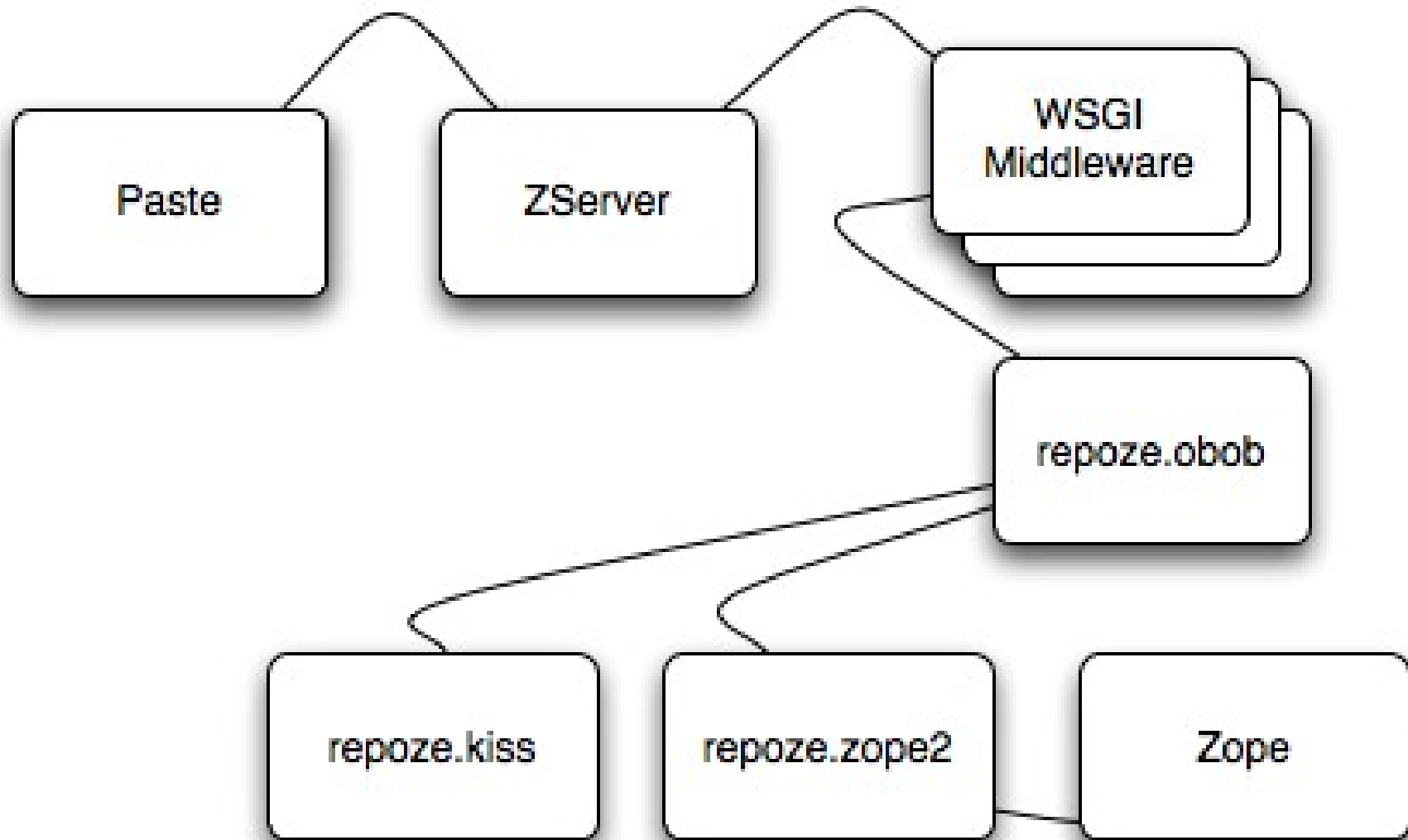
Authentication with repoze.who

WSGI middleware using PAS-style plugins:

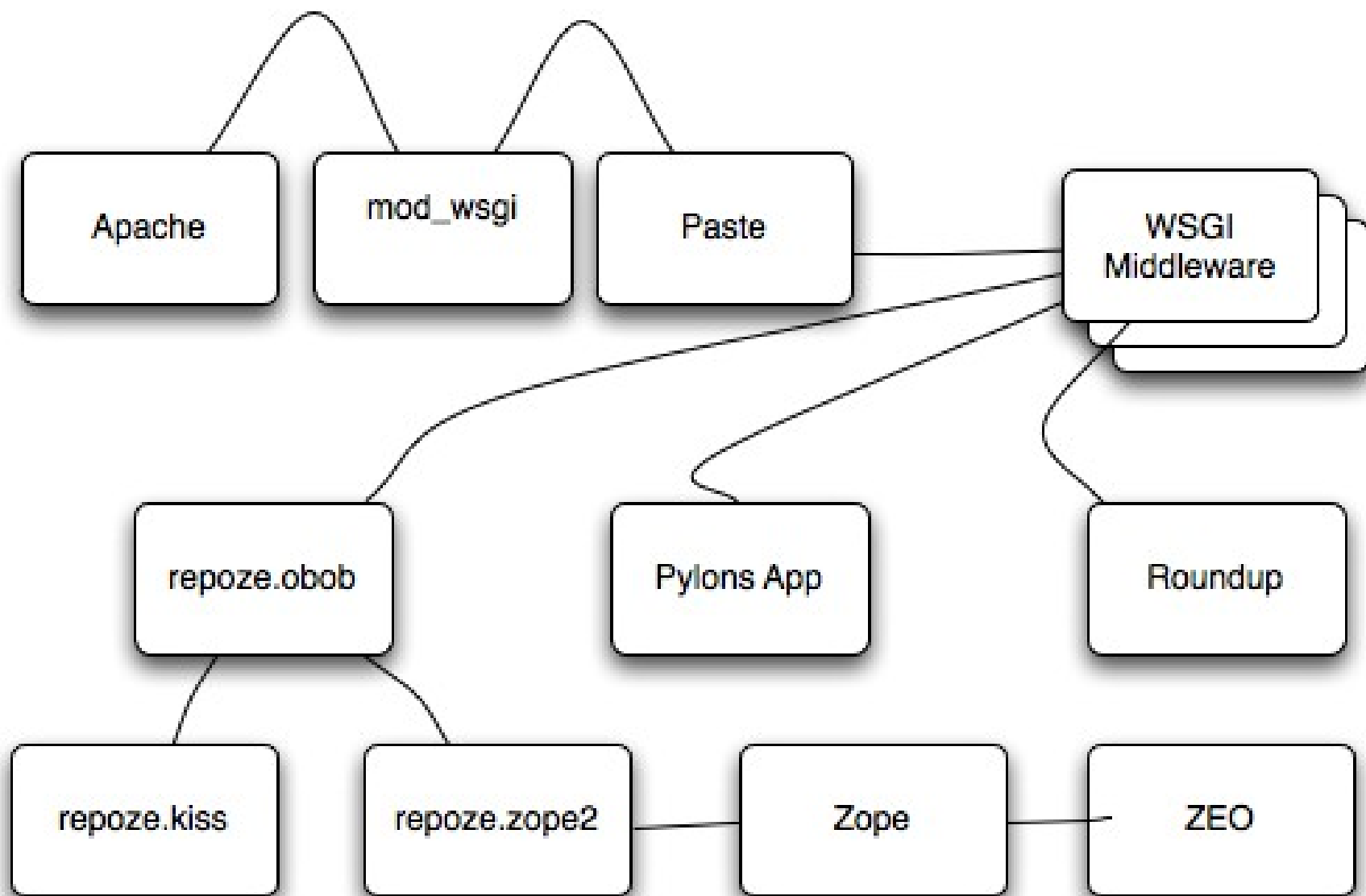
- Extract credentials
- Authenticate user
- Decorate user (groups, properties)

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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