Application Integration at the University of Málaga

Victoriano Giralt

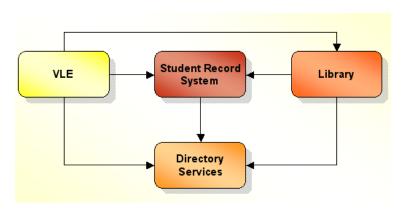
Central ICT Services University of Malaga

Advanced EuroCAMP Budapest November 18th 2009



An ideal

Enterprise Application Integration for Universities







Tools for collaborating





Tools for colaborating





Tools for colaborating

We want to provide tools for groups to work together

Group management



Tools for colaborating

Start

- Group management
- Wiki





Tools for colaborating

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- Blog





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- Group management
- Wiki
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- Mailing list





Central ICT clustered apps

Tools for colaborating

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- Group management
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- Web Forum





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- Web file sharing





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- ...





Central ICT clustered apps

Tools for colaborating

We want to provide tools for groups to work together

- Group management
- Wiki
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- Mailing list
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- Chat
- Web file sharing
- ...

all of them sharing the same credentials





Central ICT clustered apps

Tools for colaborating

We want to provide tools for groups to work together

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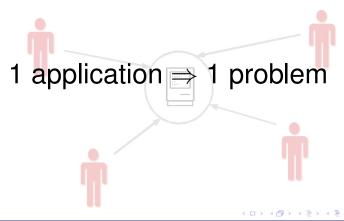
all of them sharing the session





The platform application

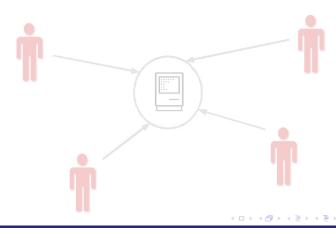
a cure for our problems





Application centric

the paradigm of the monolithic platform





Application centric

the paradigm of the monolithic platform





The feature race

and endless rush to nowhere







The platform application

a cure for our problems?

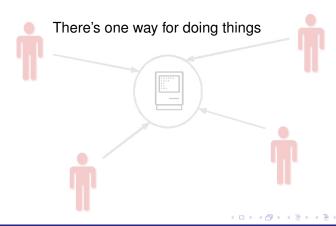


Applications have an attitude



The platform application

a cure for your problems?





The platform application

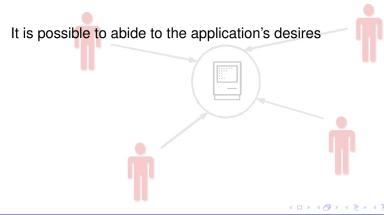
a cure for your problems?





Provisioning

bending processes to the attitude





bending processes to the attitude

It is possible to abide to the application's desires

Devising provisioning strategies





bending processes to the attitude

It is possible to abide to the application's desires

- Devising provisioning strategies
- Using not much extended technologies





bending processes to the attitude

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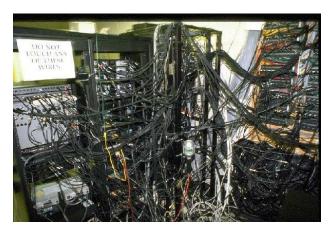






Provisioning

bending processes to the attitude







The institution

hostage to the application







Users with previous experiences

they bring expecttions







Are we doomed?

what can developers and sysadmins do?







FIAM

Federated Identity is coming to our rescue







Old model

rooms and walls







New model

an open seamless space

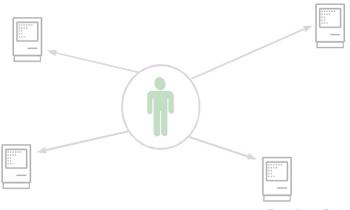






User centric

use the identity to put the user in control





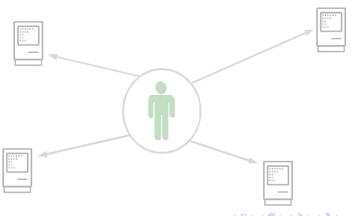
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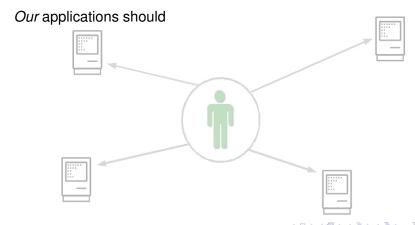
Requirements







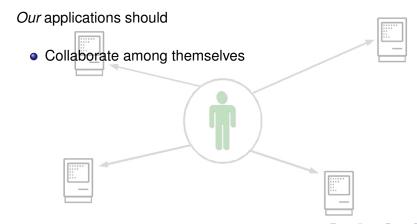
Requirements



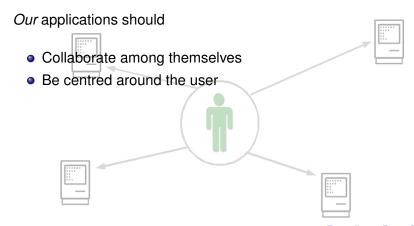




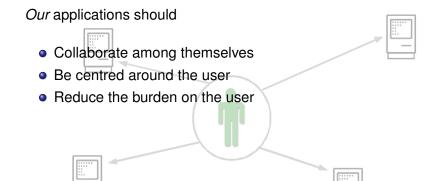
Requirements















to follow the traced path

- Collaborate among themselves
- Be centred around the user
- Reduce the burden on the user
- Integrate corporate data









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to follow the traced path

- Collaborate among themselves
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- Reduce the burden on the user
- Integrate corporate data
- Account for previous user experience
- Best of breed applications for each service
- Reduce the barrier to entry







Applications that play together

Centered around the user

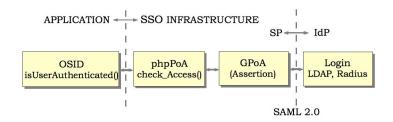






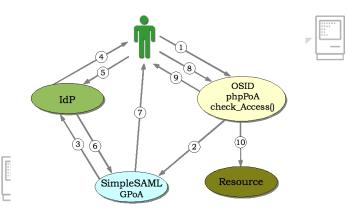
Authentication architecture

mechanism independence





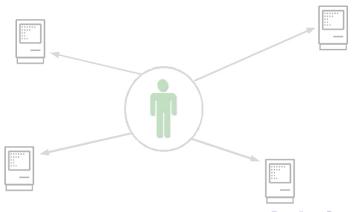
Authentication process







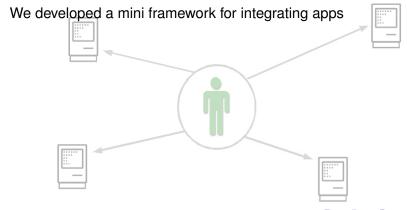
The glue







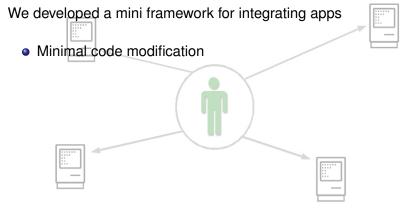
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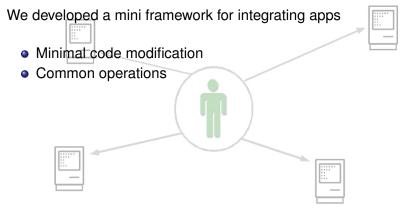




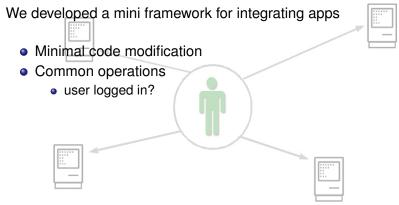
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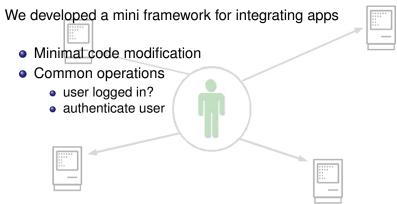




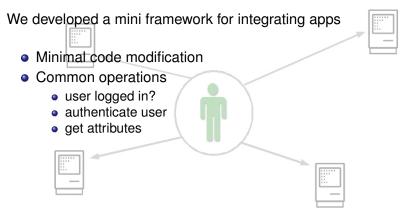




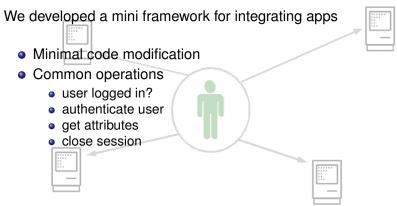












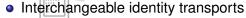


that holds pieces in place

We developed a mini framework for integrating apps



- Minimal code modification
- Common operations
 - user logged in?
 - authenticate user
 - get attributes
 - close session



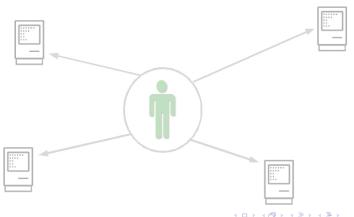






Again

Applications tend to have attitude

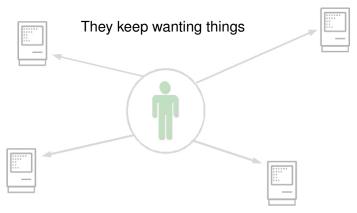






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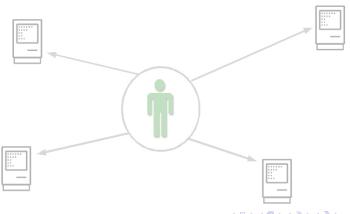
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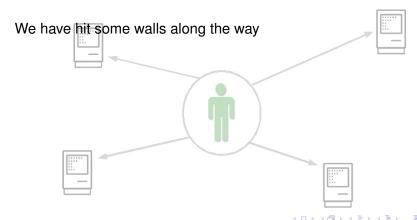
Issues







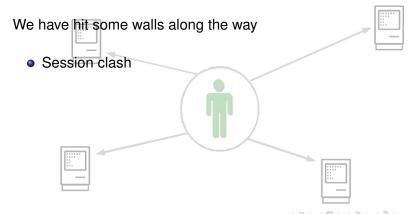
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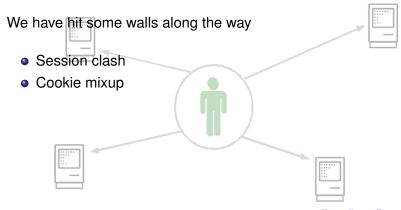
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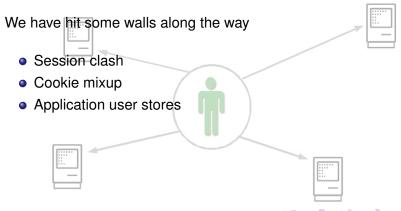
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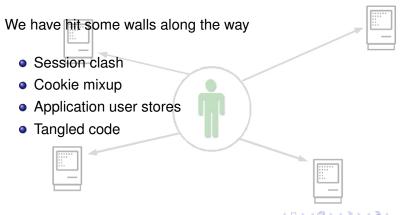


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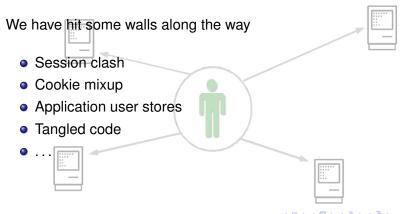


Issues





Issues





to make our apps play together



to make our apps play together



to make our apps play together

We desperately need

User decoupling





to make our apps play together

- User decoupling
- External authorization





to make our apps play together

- User decoupling
- External authorization
- Forget about provisioning





to make our apps play together

- User decoupling
- External authorization
- Forget about provisioning
- Proper group management





Things

to make our apps play together

- User decoupling
- External authorization
- Forget about provisioning
- Proper group management
- Collaboration management:
 Virtual Environments → Collaborative Organizations





to make our apps play together

- User decoupling
- External authorization
- Forget about provisioning
- Proper group management
- Collaboration management:
 Virtual Environments → Collaborative Organizations
- Logout that really works





Ideas anyone?

Thank you



