Alfresco at University of Zaragoza A history of (open) conversation

José A. Gutiérrez
Systems Analyst at University of Zaragoza

Angel Borroy
Developer at keensoft

The history



ProtohistoryWhen Alfresco was born

4.2.c



Middle Ages
Fighting against the Elements

5.0.d



Machine AgeFinding automation paths

201605



Information AgePlan for World Domination

201704





Protohistory Before 2014

When Alfresco was born

Little history about Alfresco in the University of Zaragoza till 2014

- Early 2013: First installation: National Security Framework (only one site)
- Installed by Central Services Staff
- Main blocking problems detected (LDAP synch...)
- End 2013: General Secretariat request a custom development for document management

When Alfresco was born

Setup of the current system

• September 2014: Installation of a development server with Alfresco 4.2.c

- October 2015: Setup as production server with Alfresco 5.0.c
- Access: Alfresco Share / WebDAV

Strange users requests

File Server

Request

Use Alfresco as a pure file server ("shared folder")

- · Current fileserver at the University can't be integrated with our LDAP server
- Alfresco makes it easy to delegate management of access and permissions

Response

This is a Bad Idea. It is better to fix the server that using an inappropriate tool.

Lesson learned

The customer is not always right



Strange users requests

Web Server

Request

Use Alfresco to make some documents available in an intranet.

· User already knows how to limit access using Alfresco

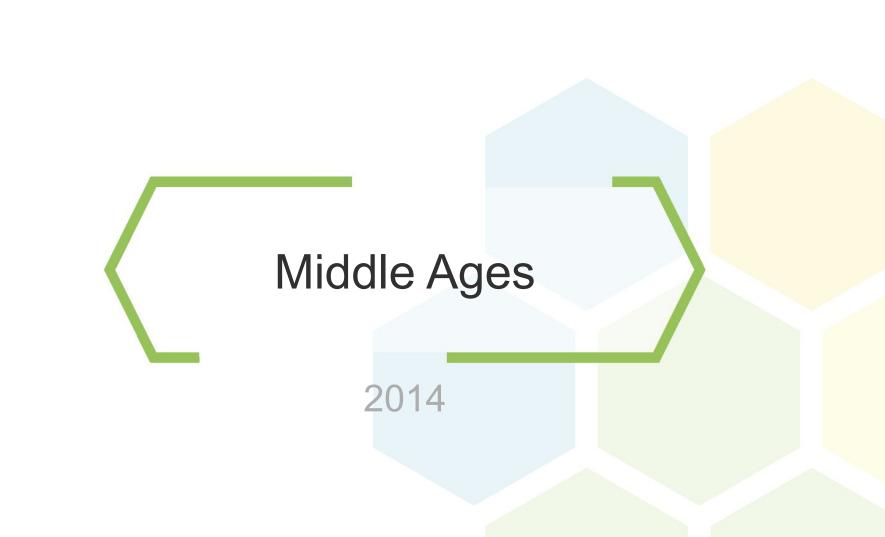
Response

This is also a Bad Idea. Learn how to administer your existing web content management system instead.

Lesson learned

Users should be informed about what they can already do, and about what Alfresco is for.





Fighting against the Elements

Element 1 : LDAP

Request

We use the ou=Accounts branch to authenticate and to lookup uidNumber, and then the ou=Admon to get the businessCategory, which is used to limit access permissions.

uidNumber -> uid=\$uname,ou=Accounts,dc=unizar,dc=es uid=\$uidNumber,ou=Admon,dc=unizar,dc=es

Response

https://github.com/keensoft/alfresco-summit-2014/tree/master/10-enhancements/06-custom-ldap-id

Lesson learned

Extending an Alfresco subsystem

Fighting against the Elements

Element 2 : Site creation

Request

Not every user should be able create a site in Alfresco

Response

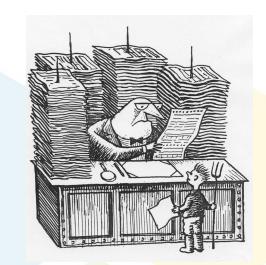


POST /share/service/modules/create-site?sUazqGRHn3Rd9x18TX4sOXWz/zNx8Go9gQ6MOoFt+V4= HTTP/1.1

* The requested URL returned error: 403 Forbidden

Lesson learned

Extending an Alfresco feature



Fighting against the Elements

Element 3: Folder quota

Request

Users are allowed to upload unlimited amount of data in Sites but a quota is required for other zones (as shared folders)

Response

https://github.com/keensoft/alfresco-myfiles-quota

Lesson learned

Adopting an Alfresco addon

Machine Age 2015

First use conditions

Request

Every new user has to accept Terms of Use for the service

Response

https://github.com/keensoft/alfresco-agreement-filter

Lesson learned

@WebFilter annotation as non-intrusive mechanism (web-fragment also will do)

Blocking uploads by mime type

Request

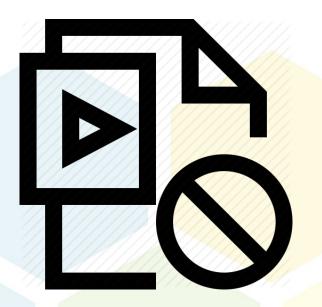
Some mime types (as videos) are not allowed in Alfresco

Response

https://github.com/keensoft/alfresco-mimetype-blocker

Lesson learned

Developing a behaviour to stop an uploading



Delegating group creation to Site Managers

Request

As there are a lot of users, local groups to sites are required to be managed by Site Managers

Response

https://github.com/keensoft/alfresco-site-groups

Lesson learned

Aikau!



Administering with CURL

Request

Managing resources creation requires to be integrated in automatic processes by using scripts.

Bacht creating of sites from CSV file.

Response

https://github.com/ecm4u/alfresco-shell-tools

Lesson learned

Scripting (a lot of)

Administering with CURL

- 1. Existing shell tools (September 2015) won't work with Alfresco 4.2 or later
- 2. New Cross-Site Request Forgery (CSRF) protection
- 3. Parsing headers to get cookies (JSESSIONID) required
- 4. Request "create-site" and parse initial response to get Alfresco-CSRFToken
- 5. POST all of this together with JSON data to get the site created



Unzipping contents automatically

Request

Unzip every ZIP file when uploading to Alfresco

Response

https://angelborroy.wordpress.com/2015/05/22/alfresco-customizing-alfresco-unzip-action-addon/

Lesson learned

Programming is not always required

Information Age

2016+

Sharing documents with external users

Request

Content should be shared with external (public) users but metadata should not

Response

https://loftux.se/en/products-and-add-ons/alfresco-add-ons/alfresco-sharebox-1

Lesson learned

Wheel has not to be re-invented every time



Sharing documents with external people

Request

Share externally not a single file but a full directory

Response

https://www.drupal.org/project/cmis

Lesson learned

Open Standards are good!



& Alfresco Community

Solicitud_confin_Servidores_DIIS_2016_1.odt Modified by JOSE ANTONIO GUTIERREZ ELIPE on Mon 11 Apr 2016 14:08:30

Previous Next

Sharing documents with external people

Request

Share externally a file but hide author's name

Response

In-house php development to "translate" Alfresco URL public page to direct link to document

https://documenta.example.com/share/s/3CFfr9acT9yuBdM0gyZmWA

https://auxiliar.example.com/ur.php?u=3CFfr9acT9yuBdM0gyZmWA https://documenta.example.com/share/proxy/alfresconoauth/api/internal/shared/node/3CFfr9acT9yuBdM0gyZmWA/content/?c=force&a=false

Lesson learned

Keep it simple!

Inviting service issues

Request

Inviting external users using a Manager created by InviteService results in DeniedAccess Exception

Response

https://issues.alfresco.com/jira/browse/ALF-21833

Lesson learned

Raising and following (solved) issues

Current HW/SW features

VMware vSphere - CPU:2vCPU / RAM:8GB

HD: OS - 25 GB (SAS 15 krpm, Write RAID 10, Read RAID 5)

Swap - 4 GB SSD

Data - 100 GB (similar to OS) - Grown to 500 GB

CentOS GNU/Linux 7.0 – MySQL 5.x







Some statistics (April 2017)

Number of users: 1511

Number of sites: 93

Storage in users' Homes: 243 MB

Main storage: 94 GB

• Files: 79879

Database storage: 627 MB / 3 GB

Service support requests: 75/year, approx.



Learning from the history



ProtohistoryWhen Alfresco was born

Finding experts outside the University



Middle Ages
Fighting against the Elements

Extending Alfresco



Machine AgeFinding automation paths

Annotation, scripting, Aikau



Information AgeTo Infinity and Beyond!

Issues, PHP



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