

Synnefo - Feature # 449

Status:	Closed	Priority:	Medium
Author:	Giorgos Verigakis	Category:	Pithos
Created:	04/28/2011	Assignee:	
Updated:	02/08/2013	Due date:	
Subject:	Create a module that sets and checks permissions		
Description			
<p>We need Read, Write and ModifyACL permissions that can apply to either a user or a group. Permissions need to be hierarchical: permissions of the parent apply to all the children too (unless overridden).</p> <p>Since we have a pseudo-hierarchy we will probably have to use a prefix based inheritance ("photo" is a parent of "photos"). A possible interface could be something like the following:</p> <pre>def set_permission(path, user_or_group, read=False, write=False, modify=False): return def delete_permission(path, user_or_group): return def get_permissions(path): """Returns a list of tuples (USER_OR_GROUP, READ, WRITE, MODIFY, LOCAL). LOCAL is a boolean value to differentiate between permissions that have been set for this path and permissions that apply due to inheritance. """ return [] def check_permission(path, user_or_group, perm): """`perm` can be one of "read", "write" and "modify". This method will check `path` and all its parents and decide if `user_or_group` is allowed to perform `perm`. """ return False</pre> <p>This module will be used by the backends.</p>			

Associated revisions

Revision 3436eeb0 - 06/21/2011 05:00 pm - Antony Chazapis

Initial permissions support.

- Use 'X-Object-Sharing' header to get/set permissions.
- Replaces 'X-Object-Public' header (now obsolete).
- No permission enforcement yet.

Refs #449

Refs #595

Revision 3436eeb0 - 06/21/2011 05:00 pm - Antony Chazapis

Initial permissions support.

- Use 'X-Object-Sharing' header to get/set permissions.
- Replaces 'X-Object-Public' header (now obsolete).
- No permission enforcement yet.

Refs #449

Refs #595

Revision cca6c617 - 06/23/2011 03:47 pm - Antony Chazapis

Updated permissions support.

- Allow deleting/clearing permissions.
- Report inheritance via 'X-Object-Shared-By' header.
- Enforce permissions.

Refs #449

Revision cca6c617 - 06/23/2011 03:47 pm - Antony Chazapis

Updated permissions support.

- Allow deleting/clearing permissions.
- Report inheritance via 'X-Object-Shared-By' header.
- Enforce permissions.

Refs #449

Revision 02c0c3fa - 06/24/2011 04:39 pm - Antony Chazapis

Add account groups, merge into sharing. Fix tests.

Refs #449

Revision 02c0c3fa - 06/24/2011 04:39 pm - Antony Chazapis

Add account groups, merge into sharing. Fix tests.

Refs #449

Revision 3ab38c43 - 07/04/2011 01:09 pm - Antony Chazapis

- Account groups.
- Container policies (not enforced for now).
- Document sharing/permissions.

Refs #449

Revision 3ab38c43 - 07/04/2011 01:09 pm - Antony Chazapis

- Account groups.
- Container policies (not enforced for now).
- Document sharing/permissions.

Refs #449

Revision 1993fea9 - 07/04/2011 03:47 pm - Antony Chazapis

Return the conflicting path in the reply, when refusing to change permissions because of a conflict.

Refs #449

Revision 1993fea9 - 07/04/2011 03:47 pm - Antony Chazapis

Return the conflicting path in the reply, when refusing to change permissions because of a conflict.

Refs #449

History

#1 - 04/28/2011 06:03 pm - Antony Chazapis

Permissions are not the only "inherited" attribute in Pithos. Consider also "shared", "deleted" and maybe others in the future. Assuming generic metadata handling in the backend, we could easily implement permissions from another module (access control module) that indeed follows some API like this, and communicates with the backend via generic put/get metadata calls.

The backend would need a mechanism to retrieve a hierarchy (pseudo, given the namespace structure), along all metadata keys specified in a mask, using a function like: `list_object_tree(user, container, name, prefix, delimiter, meta_mask)`.

#2 - 07/07/2011 02:15 pm - Antony Chazapis

- *Status changed from New to Resolved*
- *Assignee set to Antony Chazapis*
- *Target version set to 0.4*

We have decided to impose a prefix-based inheritance scheme, although with no overlapping permission directives.

#3 - 07/07/2011 02:16 pm - Antony Chazapis

- *Status changed from Resolved to Closed*
- *Assignee deleted (Antony Chazapis)*

#4 - 02/08/2013 07:01 pm - Vangelis Koukis

- *Project changed from Pithos to Synnefo*
- *Target version deleted (0.4)*

#5 - 02/08/2013 07:03 pm - Vangelis Koukis

- Category set to Pithos