Grouper UI - Types on objects

Overview

Grouper allows you to assign tags (called types) to objects such as folders and groups. There can be metadata on the assignment.

Grouper types helps support and clarify the usage of types as defined in the Grouper Deployment Guide.

This is a more structured and consistent way of accomplishing what could also done through the attribute framework.

Attribute definitions

Definition	Assigned to	Purpose	Value	Cardinality
grouperObjectTypeDef	folder, group	identify a group type	marker	Multi assign
grouperObjectTypeValueDef	folder assignment, group assignment	name/value pairs	String	Single assign, single valued

Attribute names

Name	Definition	Value
grouperObjectTypeMarker	grouperObjectTypeDef	<none>
grouperObjectTypeName	grouperObjectTypeValueDef	ref, basis, policy,etc, bundle, org, test, service, app. See the TIER Grouper Deployment Guide for descriptions.
grouperObjectTypeDataOwner	grouperObjectTypeValueDef	e.g. Registrar's office owns this data
grouperObjectTypeMembersDescription	grouperObjectTypeValueDef	human readable description
grouperObjectTypeDirectAssignment	grouperObjectTypeValueDef	if this is directly assigned or inherited
grouperObjectTypeServiceName	grouperObjectTypeValueDef	name of the service that this app falls under
grouperObjectTypeOwnerStemId	grouperObjectTypeValueDef	if this is not a direct assignment, then this is the stem id where it is inherited from

Assign type on UI

On a folder or group, a menu item under the "more actions" button will say "Type." (Shown in screenshot below.) This "Type" option will only show if user can edit types.

Table should show which are assigned, if inherited or not. There is also the option to add more assignments. If assigned, call the keep inherited method below.

Note: implement the attributes like "Deprovisioning" used attributes

Group or Folder ADMINs can assign types

View on UI

Note, if a user can view a group, they can view this attribute assignment from a high level.

On the group or folder screen show what type(s) this group is

Show the data owner and service description if applicable

Show this all in one paragraph. Show toolips on each type

As part of types, the loader summary should be moved from the loader "view" screen to this paragraph too. It should read as follows: This group is managed by loader group testSqlSimple, last fully loaded on Sat Dec 01 06:00:04 UTC 2018 with summary: 167 total, 0 inserted, 5 deleted, 2 updated.

E.g. shows on group UI: Group types: ref, readonly. The data owner is: the registrar's office. The member description is: faculty, staff, temps.

If the type is "app", and it is an indirect assignment, and the folder which assigns it has a display extension of "Wiki", then followup with a sentence (note, the folder should be linkable to that folder): This is in the Wiki app.

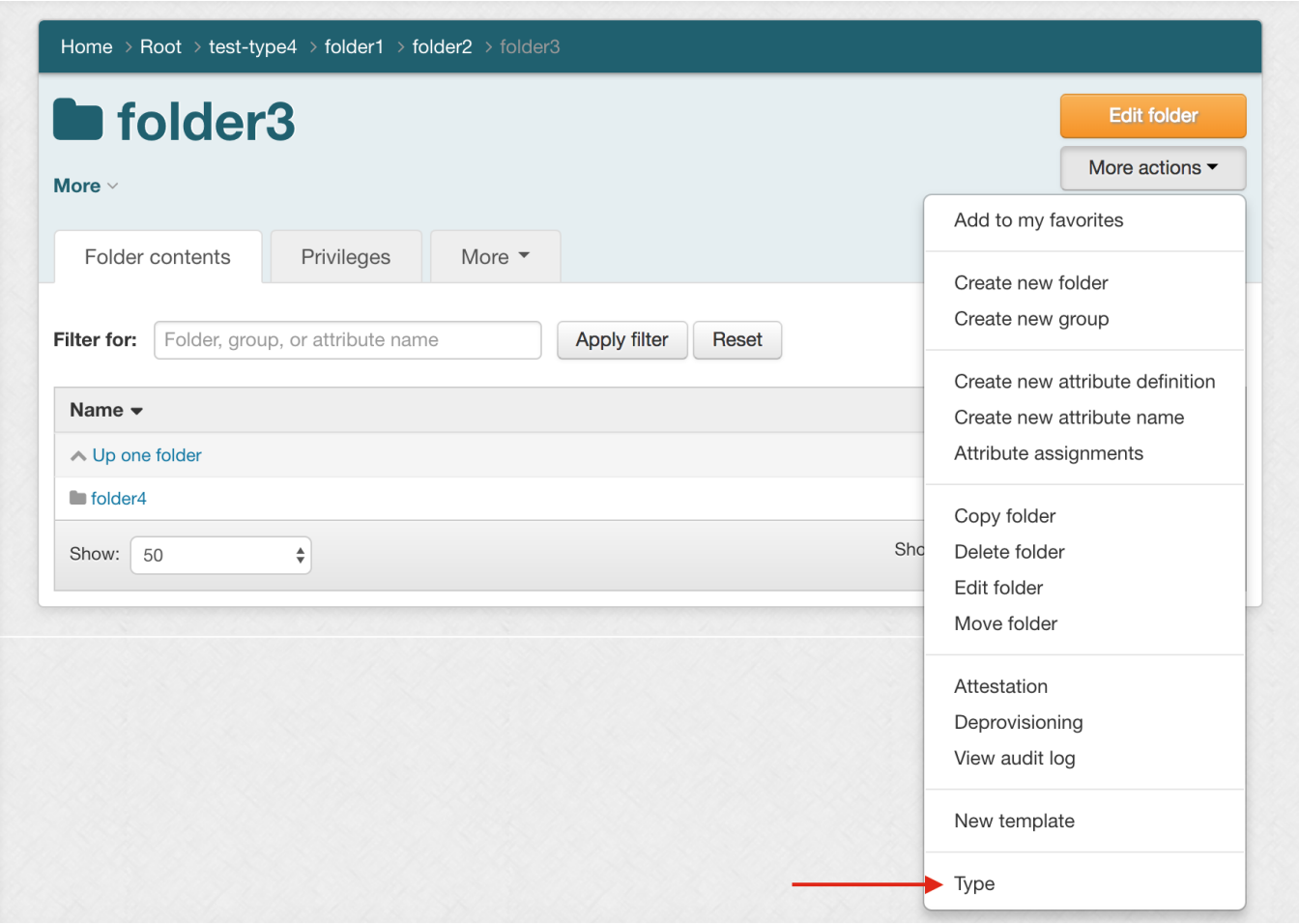
If the type is "service", and it is an indirect assignment, and the folder which assigns it has a display extension of "Student systems", then followup with a sentence (note, the folder should be linkable to that folder): This is the Student systems service.

Available Types

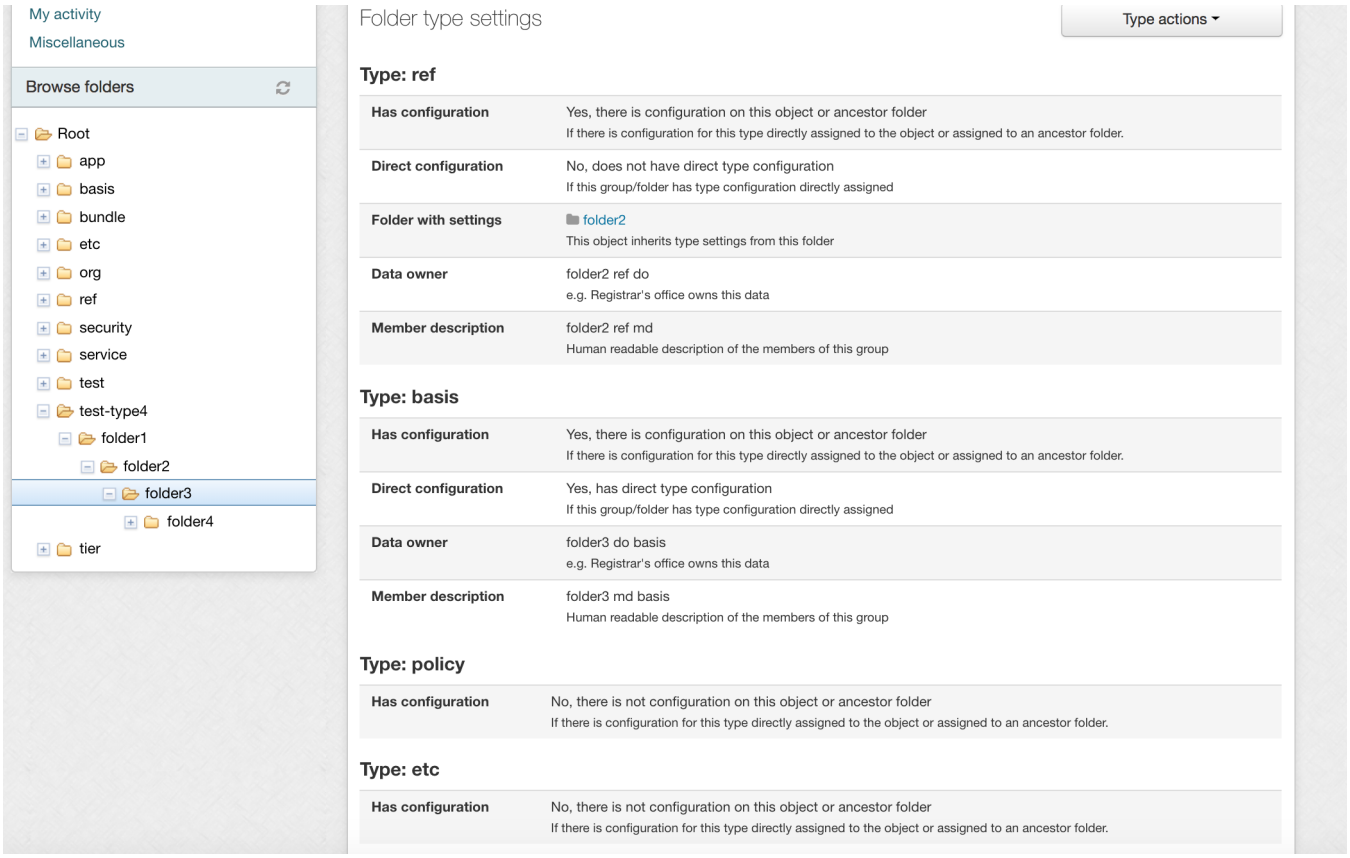
Type	Owner type	Tooltip
ref	group /folder	Reference groups are institutionally meaningful cohorts used in access policy.
basis	group /folder	Basis groups represent arcane codes or attributes from external systems are used generally in reference groups and not directly in access policy.
readonly	group /folder	Read-only groups should not have membership changes except by the process that manages the group; perhaps external from the central authorization system
policy	group /folder	Access policy groups are used by downstream systems to allow or deny users access to services or resources.
bundle	group /folder	Bundles are reference groups which aggregate multiple other reference groups. Reference groups are institutionally meaningful cohorts used in access policy.
security	group /folder	Security groups are collections of entities who have from access privilege on a group/folder/attribute, e.g. studentSystemAdmins.
org	group /folder	"Org" or organization groups or folders are delegated to and owned by organizations in the community.
test	group /folder	Test groups or folders are not used in production systems. They could be for dev, test, performance, etc environments.
app	group /folder	App groups or folders exist to be used in a specific application.
service	group /folder	A service is a collection of one or many apps that comprise of a service offered to users.

Screenshots

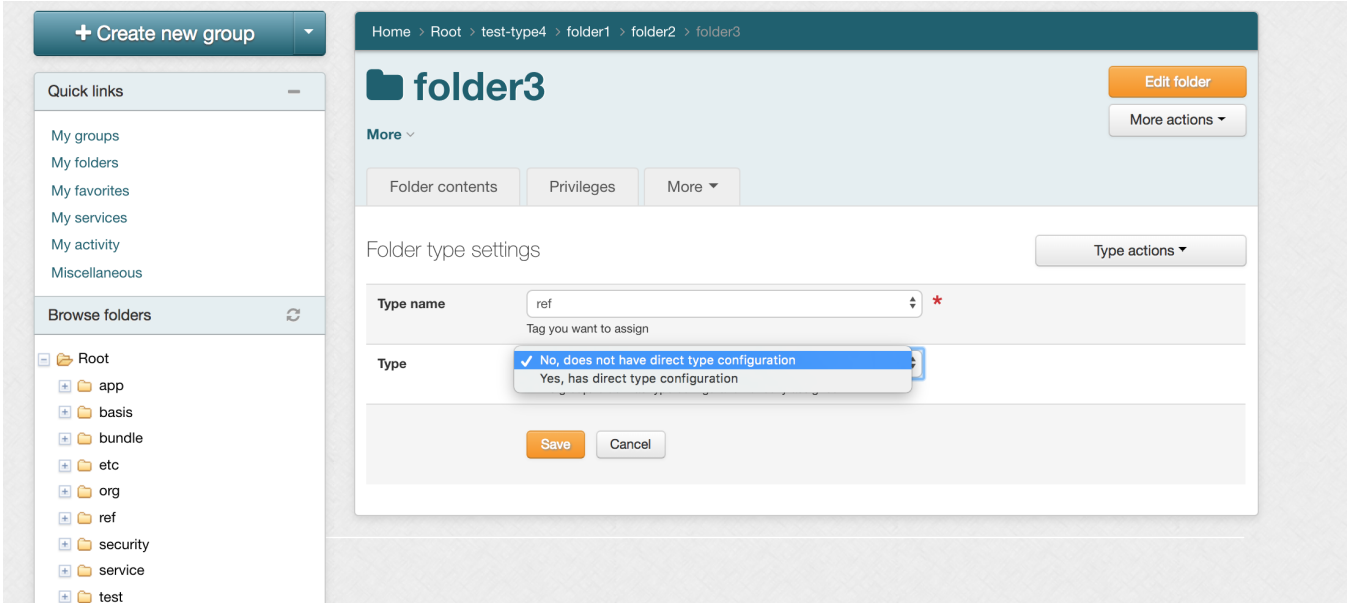
Use the "More actions" button to access Type.



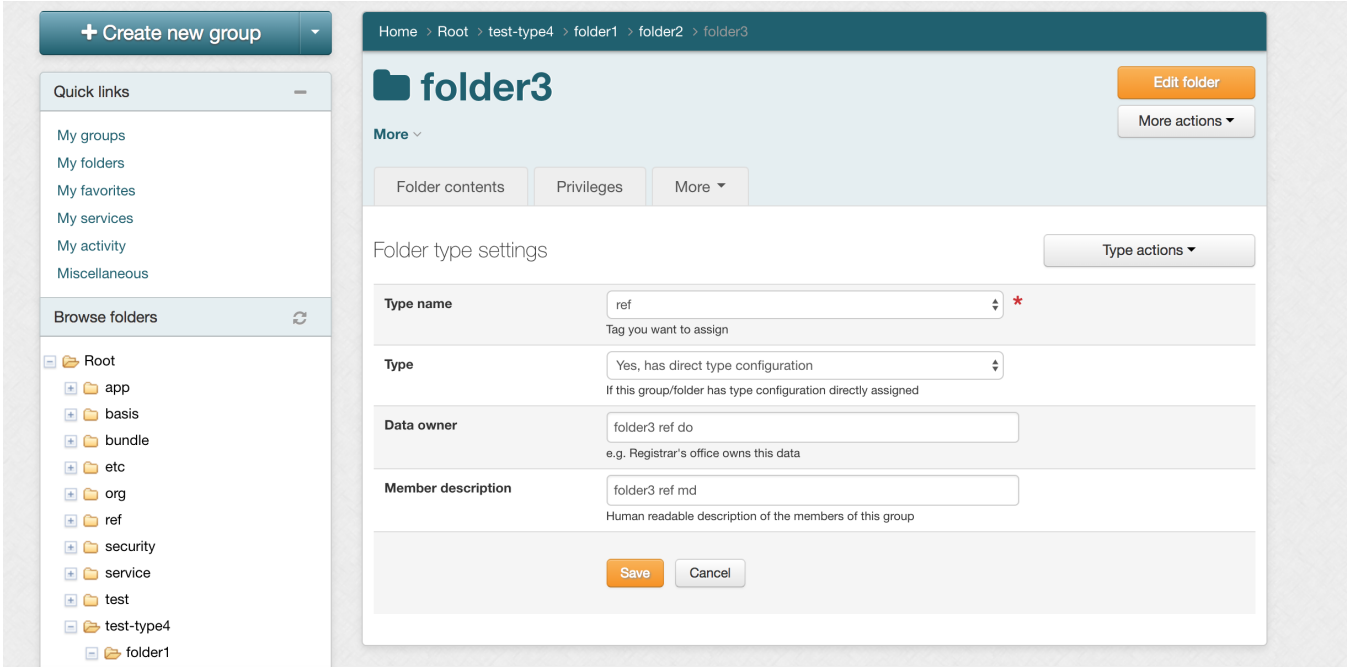
List of available Type settings for a folder



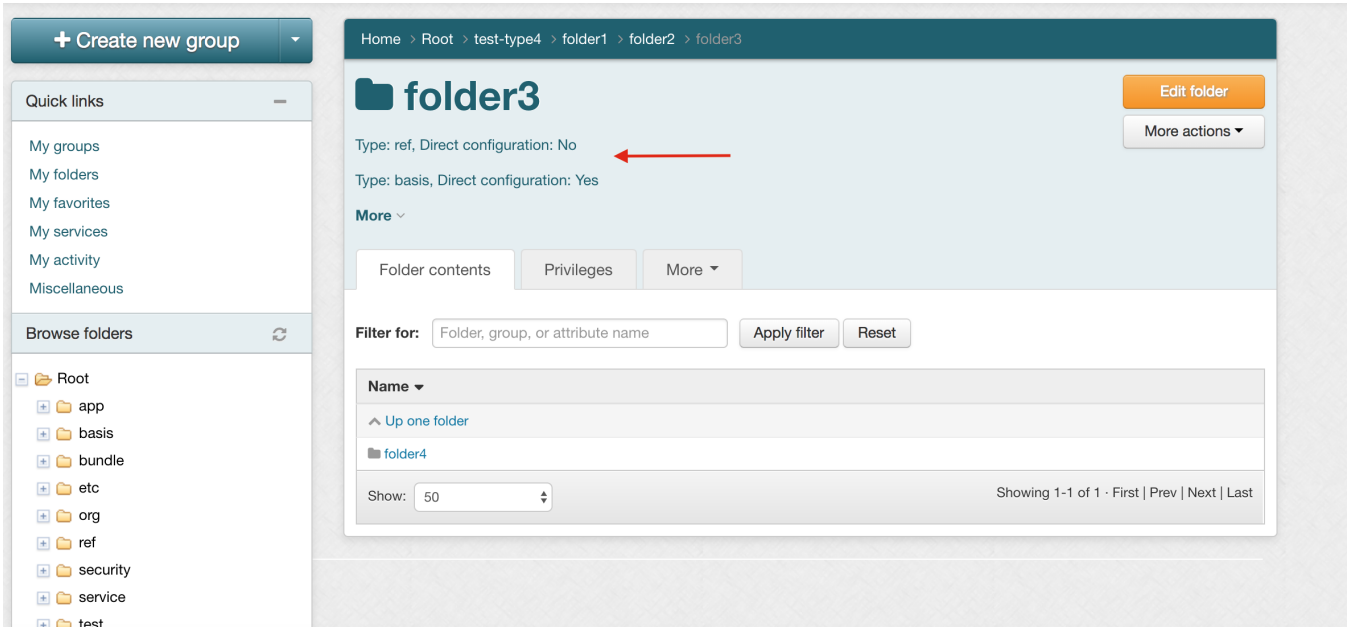
Assigning a Type setting to a folder



Shows Type setting and specifies if inherited or not.
Note, we plan to add text that states that type assignments and metadata can be viewed by anyone who can VIEW a group.



Type info is shown under the folder name to make it easily accessible.



The screenshots above show Types on folders. Similar Type configuration can be set on groups as well.

Keep inherited attributes up do date

A daemon should work like deprovisioning where inherited attributes are kept up to date.
When an attribute is assigned, it should call the propagate method for this object and subobjects if a stem.

To do now

- Put type name first, then direct/indirect
- When settings changed, it should use logic like deprovisioning where it updates the hierarchy tree
- Types and metadata should be displayed on object page under the description (not in "more")

To do later

- Source basis and ref metadata from loader
- Clarify the difference between app and service
- If there is a blank attribute, it should be unassigned
- Use this as a means to search for things