

# Grouper UI

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If you are using Grouper 2.2 or above you are in the right place to learn about the UI!

A bit of Grouper UI history:

- Grouper 2.2 and above features a UI which makes Grouper easy to use by end users and administrators.
- Prior to version 2.4.0, it co-exists with the legacy Admin UI and the [Lite UIs](#), and is installed as the default UI (default URL) when you [install the UI](#).
- In Grouper 2.4, the Admin UI and Lite UIs have been removed (though they can be [added back from a custom patch](#)).

Grouper 2.5 offers additional flexible options:

- Grouper 2.5+ features a [Custom UI](#) that can be used per group, on top of the UI described below.
- Grouper 2.5.43+ features [Grouper Custom Templates via GSH](#) that can be used for custom inputs to the UI

This page describes the Grouper 2.2+ UI.

- [Grouper configuration in the database and UI](#)
- [Grouper UI - Assign/view permissions](#)
- [Grouper UI - attribute action editor](#)
- [Grouper UI - attribute name editor](#)
- [Grouper UI - Auditing](#)
- [Grouper UI - Check version](#)
- [Grouper UI - Composites](#)
- [Grouper UI - Delete Folder](#)
- [Grouper UI - Folder attribute view and edit](#)
- [Grouper UI - Membership View Advanced Options](#)
- [Grouper UI - subject API diagnostics](#)
- [Grouper UI - Templates](#)
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## Other screens not captured here

- [Subject API diagnostics](#)
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- [Grouper attribute name editor](#)
- [Deprovisioning](#)
- [Attestation](#)

## General information

The Grouper 2.2+ UI is based on ajax. The URLs change for bookmarking and back button, but the page does not reload (so the tree can remain in a constant state)

## Main screen

The main screen is a dashboard that shows a search, quick links, a tree control to browse the repository, recent tasks that the user has performed, and small windows that the user can use to find what they need in Grouper

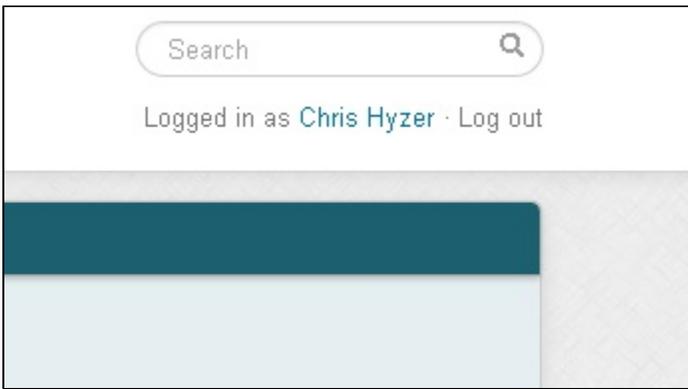
The screenshot shows the Grouper 2.2+ UI main screen. At the top left is the 'INTERNET' logo. At the top right is a search bar and the text 'Logged in as Chris Hyzer · Log out'. Below the search bar is a dark teal header with 'Home' and 'Grouper' text, and 'Institute of Higher Education' below it. A description of the website's purpose is provided. The main content area is divided into several sections:

- Quick links:** My groups, My folders, My favorites, My services, Admin UI, Lite UI.
- Browse Folders:** A tree view starting with 'Root' and containing folders like 'apetro-unicorn', 'apps', 'aStem', 'atest', 'chris', 'community', 'fgac', 'Grouper Administration', 'groupSync\_v2\_0\_0', 'QS University of Bristol', 'someFolder', 'test', 'test2', 'test3', and 'users'.
- Recent activity:** A table of recent actions:

Assigned 'Attribute update' privilege to Kevin Latimer for the folder kevinLatimer.	2014/06/18 10:12 AM
Assigned 'Attribute read' privilege to Kevin Latimer for the folder kevinLatimer.	2014/06/18 10:12 AM
Assigned 'Create group' privilege to Kevin Latimer for the folder kevinLatimer.	2014/06/18 10:12 AM
Assigned 'Create folder' privilege to Kevin Latimer for the folder kevinLatimer.	2014/06/18 10:12 AM
Added folder kevinLatimer.	2014/06/18 10:12 AM
Assigned 'Attribute update' privilege to Sharif Nijim for the folder sharifNijim .	2014/06/17 15:42 PM
- My favorites:** A list containing 'uiGroup' (Grouper Administration) and a 'View all favorites' link.
- Groups I manage:** A list of groups including 'java-devs' (apetro-unicorn : friends), 'users' (apps : issueTracker), 'library' (aStem), 'testGroup' (atest), 'admin' (chris : roles), 'user' (chris : roles), 'testGroup' (chris), and 'students'.
- My services:** A list containing 'issueTracker' and a 'View all services' link.

## Search

There is a search box at the top right of the main 2.2 UI screen where you can search for entities, groups, folders, attribute definitions, or attribute names



## Tree browser

The tree on the left shows folder, groups, attribute definitions and attribute names. If you click on an item in the tree it will go to the main screen for that item. The folder is ajax based, it will retrieve the data as you click on items. It will only show a certain configurable number of items in a folder so there are not performance problems. The tree is secure, only items the user can see will be displayed. As edits to the registry occur, or as screens are navigated, the tree on the left will not change by default, although there is a property to set to enable this. To repopulate the tree and navigate to the object on the page, click the double arrow icon next to the Browse Folders heading. To refresh the tree without navigating to the current object, refresh the page.

A screenshot of a web application's tree browser. The tree is on the left, showing a hierarchy of folders and groups. Annotations with red arrows point to specific items: "Folder" points to the "Root" folder, "Group" points to the "testGroup" group under "atest", "Attribute definition" points to the "attrExternalSubjectInvite" folder under "attribute", and "Attribute name" points to the "externalSubjectInviteAttrDe" attribute under "attrExternalSubjectInvite". The right sidebar contains "Recent activity" with a list of actions like "Assigned 'Attribute update' privilege" and "Added folder kevinLatimer.", and "My favorites" with a "uiGroup" and "Grouper Administration".

## Recent activity

The main screen shows several line items of recent activity that the user has done. The user might need to do a similar function again and can easily find the required objects.

Action	Timestamp
Added attribute <a href="#">Grouper user data</a> to a membership for member <a href="#">GrouperSysAdmin</a> .	2014/06/23 06:45 AM
Added <a href="#">GrouperSysAdmin</a> as a member of the <a href="#">grouperUiUserData</a> group.	2014/06/23 06:45 AM
Edited group <a href="#">grouperUiUserData</a> .	2014/06/23 06:45 AM
Added group <a href="#">grouperUiUserData</a> .	2014/06/23 06:45 AM
Added folder <a href="#">grouperUi</a> .	2014/06/23 06:45 AM
Added <a href="#">my name is test.subject.5</a> as a member of the <a href="#">group1</a> group.	2014/06/22 16:34 PM

## Quick links

The quick links on the left of the UI help the user quickly find objects they need to use. "My groups" shows groups the user can manage. "My folders" shows folders that the user manages. "My favorites" shows objects the user has tagged to be favorites. "My services" shows folders that are marked as services that the user is a member of or an admin of.

INTERNET®

+ Create new group

Home

Group  
Institute of

This website allows  
frequently asked qu

Recent ac

Edited attribute va

Added attribute va

Quick links

- My groups
- My folders
- My favorites
- My services
- Admin UI
- Lite UI

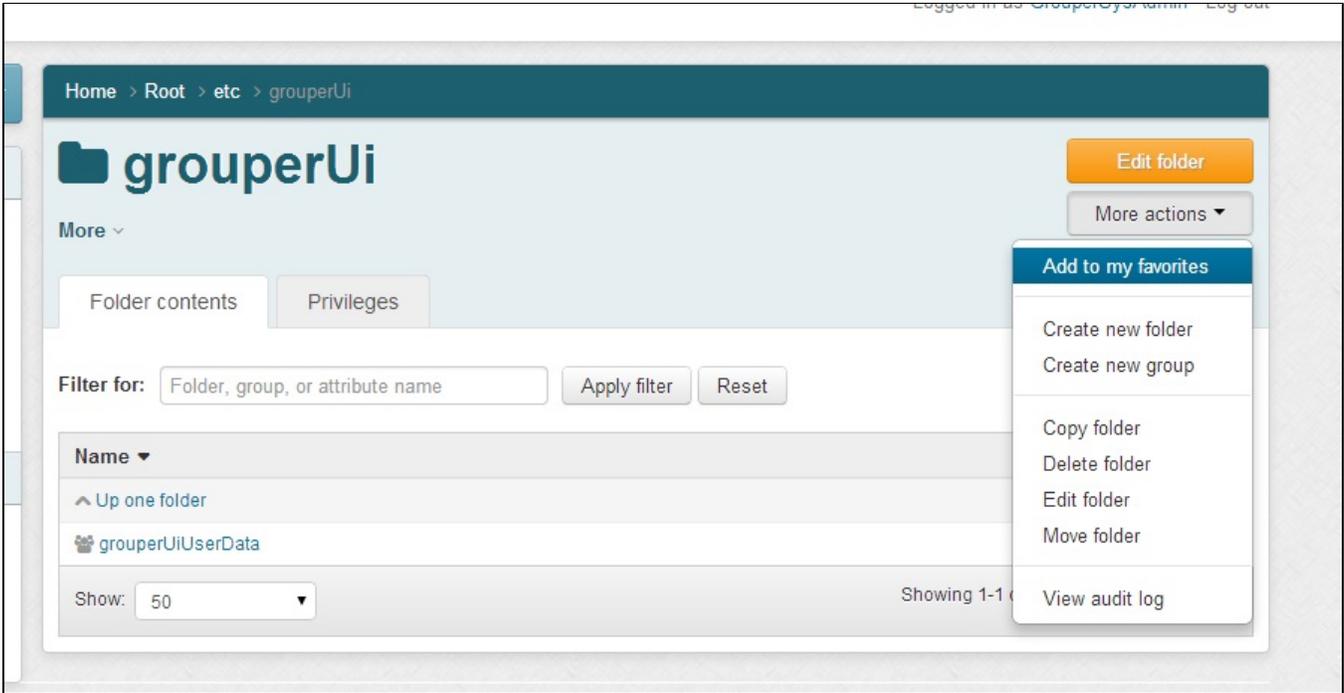
Browse Folders

Root

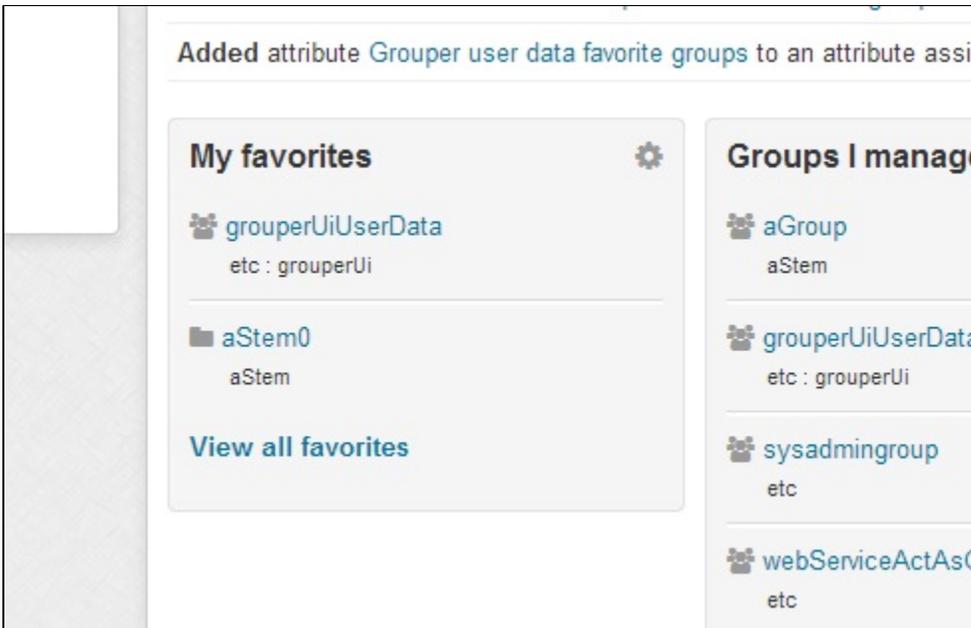
## Favorites

On the object screens (as of v2.2.0 this is the Group screen, Folder screen, and Entity screen), you can use the "More actions" button to add or remove that object from favorites. A short list of favorites is available on the main screen widgets, and a link is provided to see all of the favorites. If there are objects that the user uses frequently, "favorites" can help reduce the time needed to find those objects in the registry.

Here is how to add/remove an object from favorites



Favorites widget on the main screen



Favorites screen

Home > My favorites

## My favorites

Filter for:

Favorite path	Favorite name
etc : grouperUi	 grouperUiUserData
aStem	 aStem0

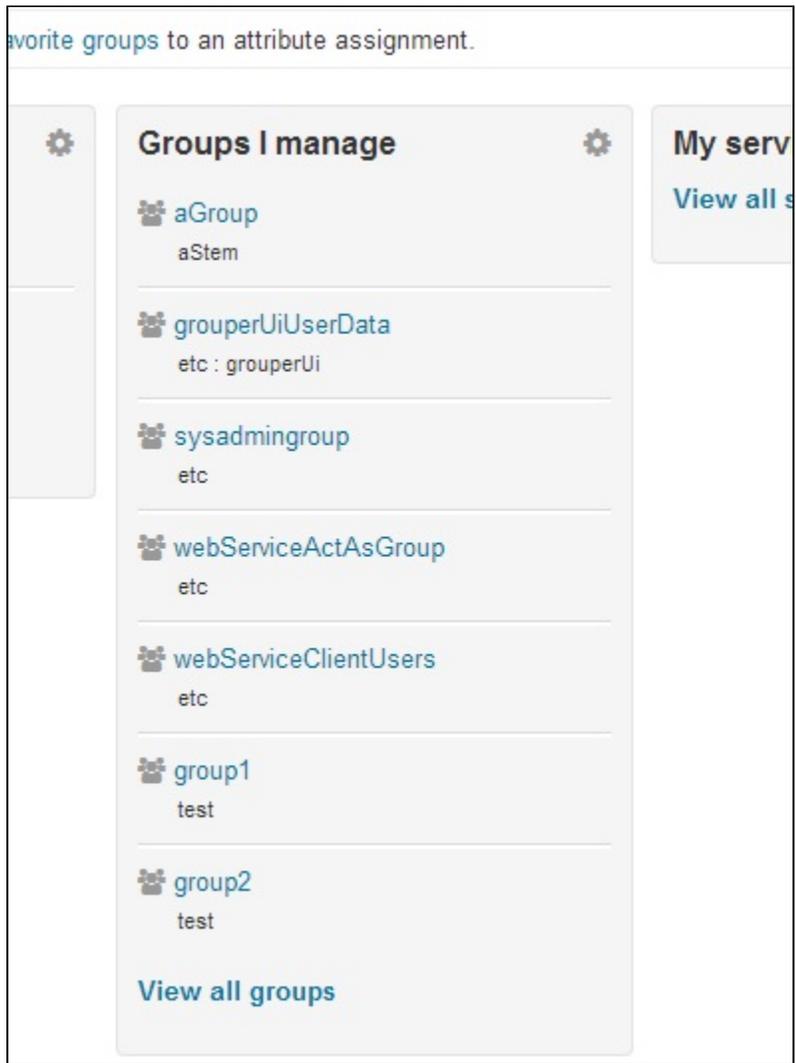
Show:

Showing 1-2 of 2 · [First](#) | [Prev](#) | [Next](#) | [Last](#)

### Groups I manage

There is a widget on the main UI, a page linked from the widget "View all groups", and a link from the "Quick links".

Quick links on main page:



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## My groups

These tabs show groups that the user is a member of, has privileges on, or can join

### Groups I manage

This tab gives a paged, sorted, and searchable view into the groups the user can manage. These are groups that the use has UPDATE or ADMIN privileges on.

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[+ Create new group](#)

Home > My groups

## My groups

Groups I manage | My memberships | Groups I can join

The following table lists all groups in which you are allowed you to manage the group's membership list.

Filter for:  [Apply filter](#) [Reset](#)

Folder	Group name
apetro-unicorn : friends	java-devs
apps : issueTracker	users
aStem	library
atest	testGroup
chris	christest

### My memberships

The "my memberships" tab shows groups that the user is a member of either directly or indirectly. Note, if you have privileges to leave one of the groups (ADMIN, UPDATE, OPTOUT), you will see a button that allows you to leave the group.

[+ Create new group](#)

Home > My groups

## My groups

Groups I manage | My memberships | Groups I can join

The following table lists all groups in which you are a member, whether directly or indirectly.

Filter for:  [Apply filter](#) [Reset](#)

Folder	Group name
apetro-unicorn : friends	java-devs
apps : issueTracker	users
atest	testGroup
chris	christest
chris	testGroup
Group Administration	externalSubjectInviters <a href="#">Leave group</a>
Group Administration : grouperUi	grouperUIUserData

### Groups I can join

The "groups I can join" tab shows groups that the user is not a member of but which they are allowed to add themselves to. This means they have ADMIN, UPDATE, or OPTIN privileges on the group.

Logged in as Chris Hyzer - L

new group

Home > My groups

## My groups

Groups I manage | My memberships | Groups I can join

The following table lists all groups which you are allowed to join as a member.

Filter for:

Folder	Group name	
■ aStem	👤 library	<input type="button" value="Join group"/>
■ chris : roles	👤 admin	<input type="button" value="Join group"/>
■ chris : roles	👤 user	<input type="button" value="Join group"/>
■ community	👤 students	<input type="button" value="Join group"/>
■ fgac : apps : secureUserData : roles	👤 user	<input type="button" value="Join group"/>

## My folders

These tabs show folders the user can manage, folders with groups the user manages, or folders with attributes the user manages

### Folders I manage

This tab gives a paged, sorted, and searchable view into the folders the user can manage. These are folders that the use has any privileges on.

Logged in as Chris Hyzer - Log out

new group

Home > My folders

## My folders

Folders I manage | Folders with groups I manage | Folders with attributes I manage

The following table lists the folders on which you have privileges

Filter for:

Folder path	Folder name
Root	■ Root
Root	■ apetro-unicon
apetro-unicon	■ friends
Root	■ apps
apps	■ issueTracker
Root	■ aStem

### Folders with groups I manage

This tab shows folders that contains groups that the user manages. This means the user has UPDATE or ADMIN on the groups

Home > My folders

## My folders

Folders I manage | Folders with groups I manage | Folders with attributes I manage

The following table lists the folders containing groups that I manage

Filter for: All | Folder name | Apply filter | Reset

Folder path	Folder name
apps	issueTracker
Root	atest
Root	chris
Group Administration	grouperUI
Root	test
test	chris

### Folders with attributes I manage

This tab shows folders that contain attributes that the user manages. This means the user has ATTR\_UPDATE or ATTR\_ADMIN on the attributes

Home > My folders

## My folders

Folders I manage | Folders with groups I manage | Folders with attributes I manage

The following table lists the folders containing attributes that I manage

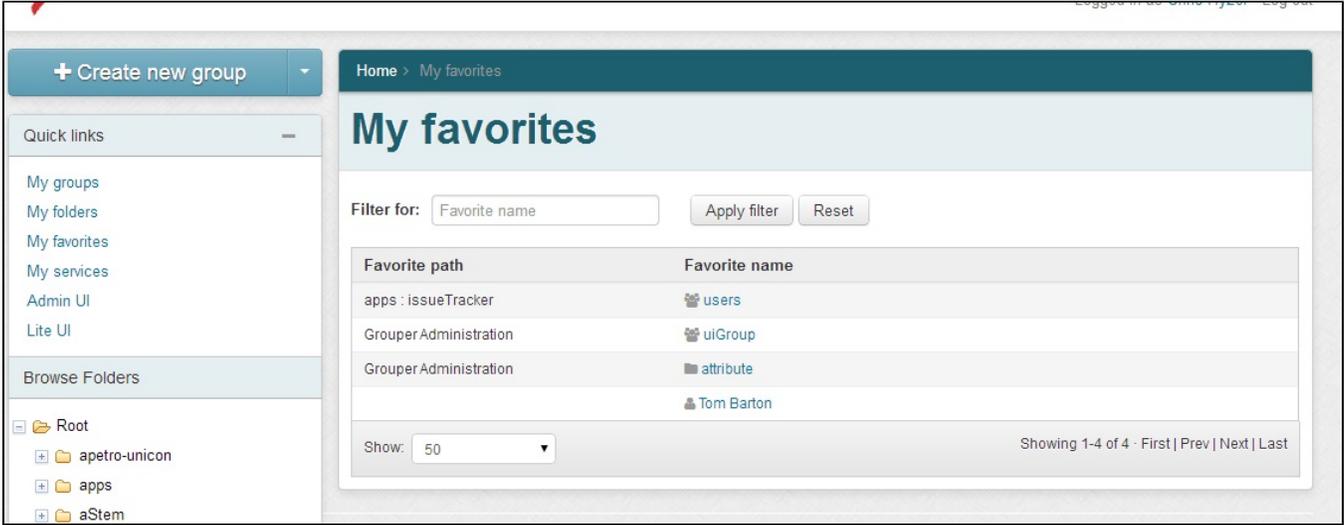
Filter for: All | Folder name | Apply filter | Reset

Folder path	Folder name
apps	issueTracker
Root	atest
users : penn	mchzyer

Show: 50 | Showing 1-3 of 3 - First | Prev | Next | Last

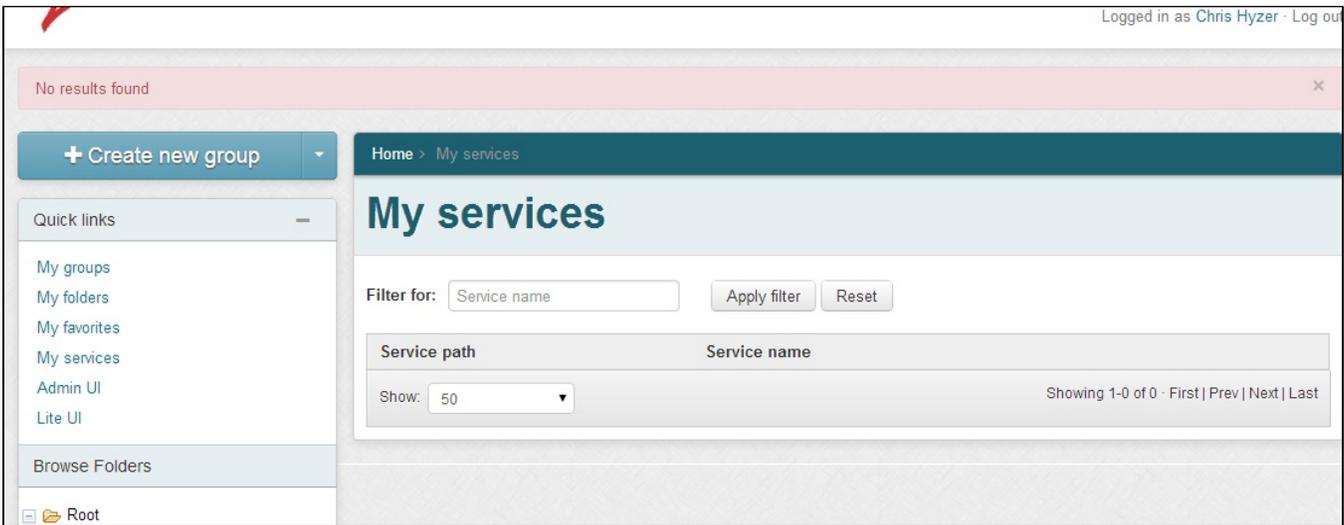
### My favorites

The "my favorites" screen shows all the objects in Grouper that the user has marked as a favorite. Initially this is just Groups, Folders, and Entities (e.g. people), but eventually will also cover attributes and permissions. This list is paged, sorted, and searchable. This screen is accessed from the Quick Links list on the left of the UI.



## My services

The "my services" screen shows all the services in Grouper (a special attribute on a folder) where the folder contains groups that the user manages or is a member of. This list is paged, sorted, and searchable. This screen is accessed from the Quick Links list on the left of the UI.



## Search

The search function of the new UI is accessed from the top right of the UI. This will submit to the search screen. This search screen can filter in 6 areas: all object types, groups, folders, entities, attribute definitions, attribute names. The results are organized by object type and paged.

The screenshot shows the Grouper web interface. At the top left is the 'INTERNET' logo. At the top right, there is a search bar containing 'test' and a 'Log out' link for user 'Chris Hyzer'. Below the header is a navigation bar with a '+ Create new group' button and a breadcrumb 'Home > Search results'. The main content area is titled 'Search results' and contains a search form with 'stem' in the search box and 'Everything' in the filter dropdown. Below the search form are 'Search' and 'Reset' buttons. A table displays the search results, listing folders and their names.

Folder	Name
Root	aStem
aStem	aFolder32
fgac : apps : secureUserData	schemas
QS University of Bristol : Non Academic Departments	Information Systems and Computing
aStem	library
users : duke : shilen	students system of record
users : penn2 : brunk	brunk_group includes
users : penn2 : brunk	brunk_group system of record
users : penn2 : brunk	brunk_group system of record and includes
users : penn2 : brunk	brunk_students_group system of record

## New group

The "new group" screen creates a new group in a specified folder in the Grouper namespace. The "new group" button is in the upper left of the UI. The folder combobox will default to whatever folder is being accessed, but can be changed to another folder. The combobox will only show result folders where the user is allowed to create groups. Generally the group name and group ID are the same, so to save time and help with consistency, as the user types in the group name, the ID will be populated with the same text unless the user chooses to have them differ.

Logged in as Chris Hyzer · Log out

+ Create new group
Home > New group

## New group

Create in this folder:   
Enter a folder name or [search for a folder where you are allowed to create new groups](#).

Group name:   
Name is the label that identifies this group, and might change.

Group ID:   Edit the ID  
ID is the unique identifier for this group. It should be short and simple, and might have character restrictions. The ID should rarely change, if ever.

Description:   
Description contains notes about the group, which could include: what the group represents, why it was created, etc.

[Show advanced properties](#)

Quick links

- My groups
- My folders
- My favorites
- My services
- Admin UI
- Lite UI

Browse Folders

- Root
  - apetro-unicorn
  - friends
  - java-devs
- apps
- aStem
  - aFolder32**
  - library
- atest
- chris
- community

In advanced properties, a "role" can be chosen as the group type, and privileges can be assigned to EveryEntity so that all users can VIEW or READ a group.

Description contains notes about the group, which could include: what the group represents, why it was created, etc.

[Hide advanced properties](#)

**Assign privileges to everyone:**

ADMIN
 UPDATE
 READ
 VIEW
 OPTIN
 OPTOUT
 ATTRIBUTE READ
 ATTRIBUTE UPDATE

Select which privileges should be public for everyone. This is the same as assigning a privilege to EveryEntity.

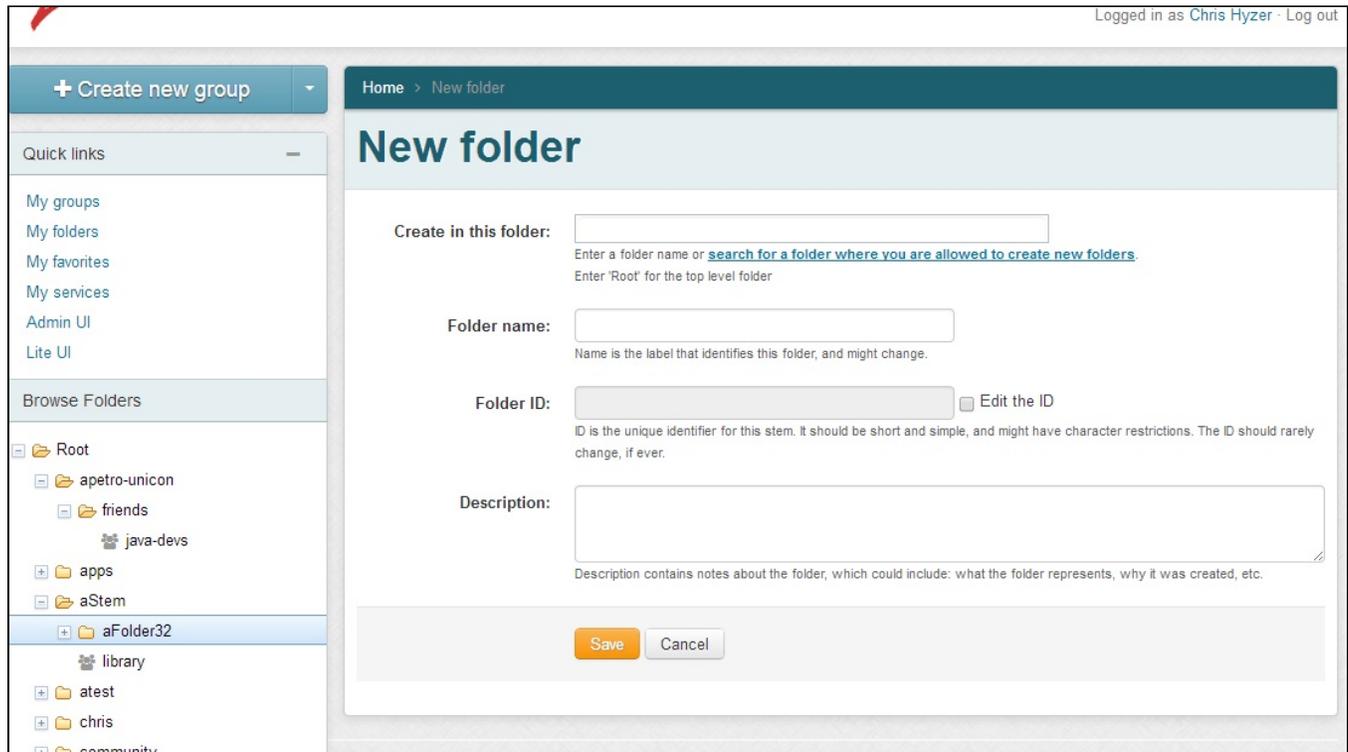
**Type:**

Group
 Role

This could be a Group or a Role. A Group is a collection of entities. A Role is a Group which can also hold permission information centrally for the application.

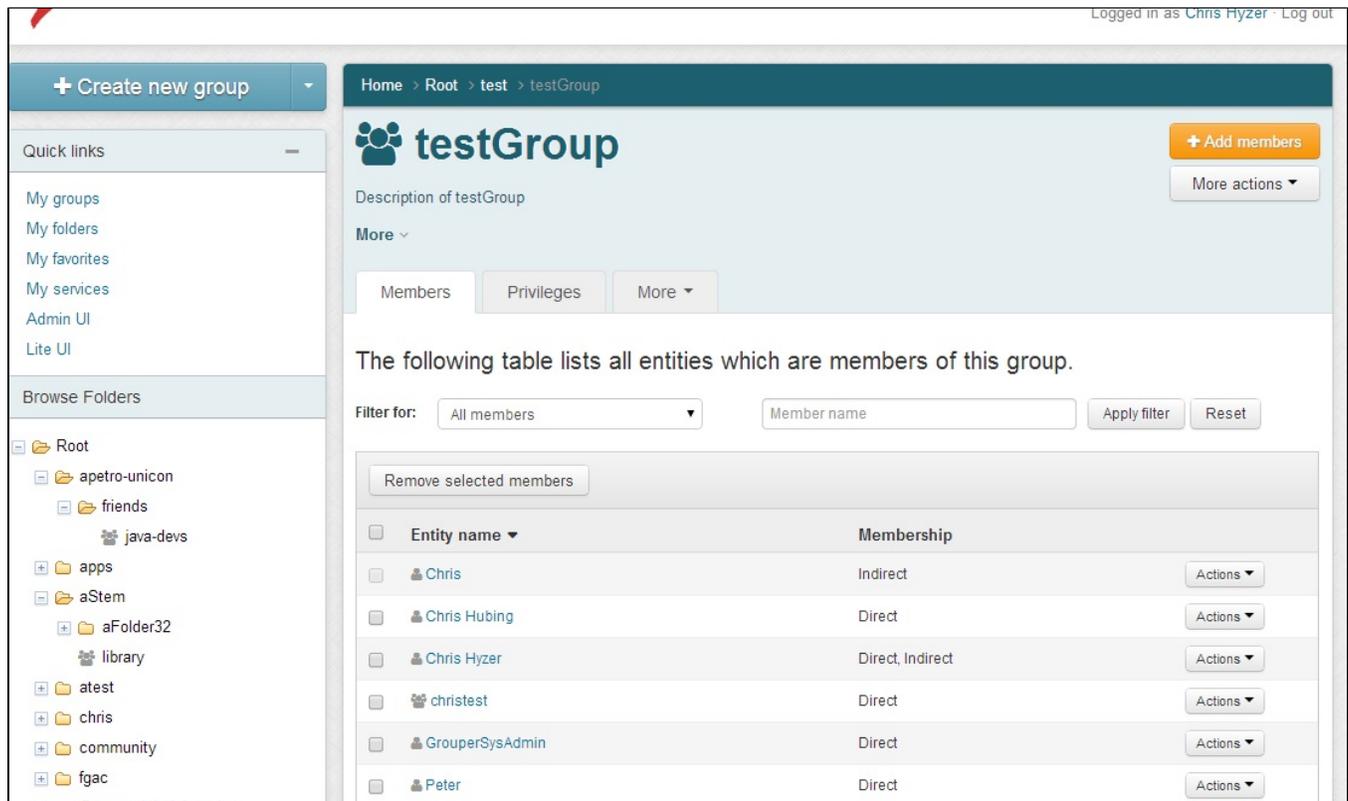
### New folder

The "new folder" screen creates a new folder in a specified folder in the Grouper namespace. The "new folder" button is in the "new group" drop down in the upper left of the UI. The parent folder combobox will default to whatever folder is being accessed, but can be changed to another folder. The combobox will only show result folders where the user is allowed to create folders. Generally the folder name and folder ID are the same, so to save time and help with consistency, as the user types in the folder name, the ID will be populated with the same text unless the user chooses to have them differ.



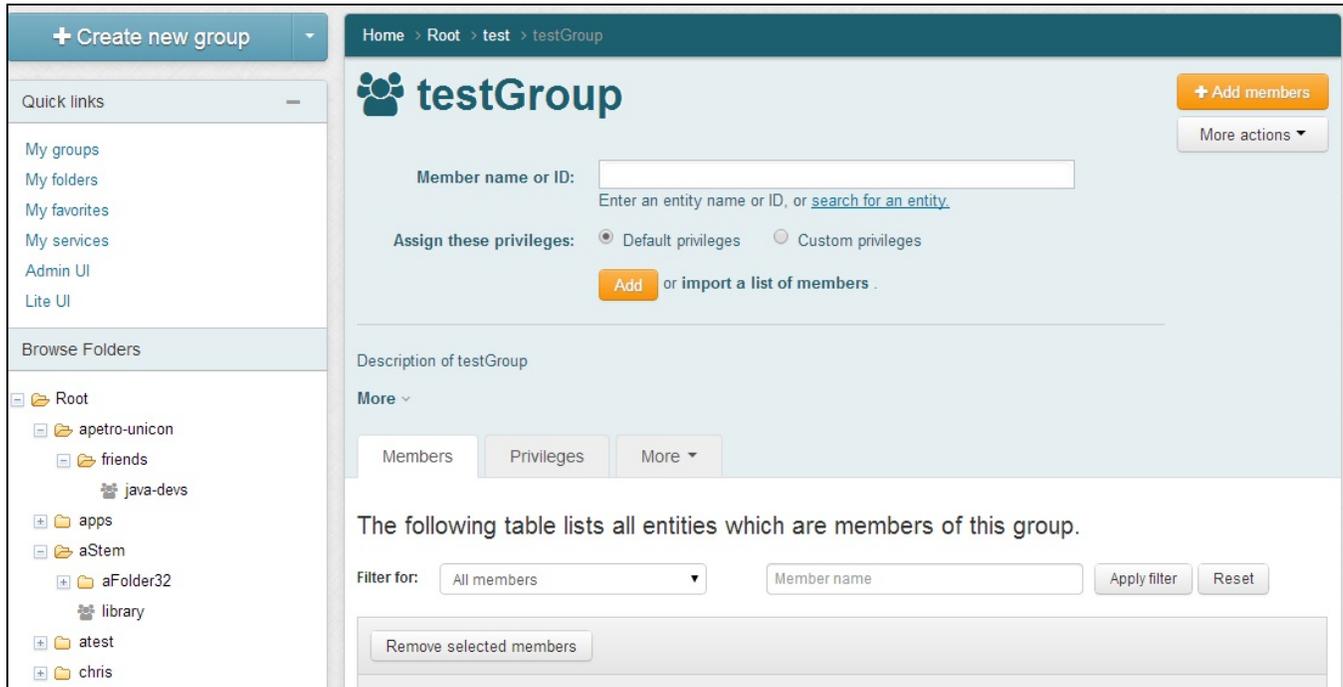
## Group screen

The group screen is reached when a group is clicked on the UI. This could be in the menu, search results, or other screens that show groups. By default the group screen shows the group name and description and the members. The members tab of the group screen is sorted, paged, and filterable. It shows immediate or effective members of the group which could be groups or non-group entities.



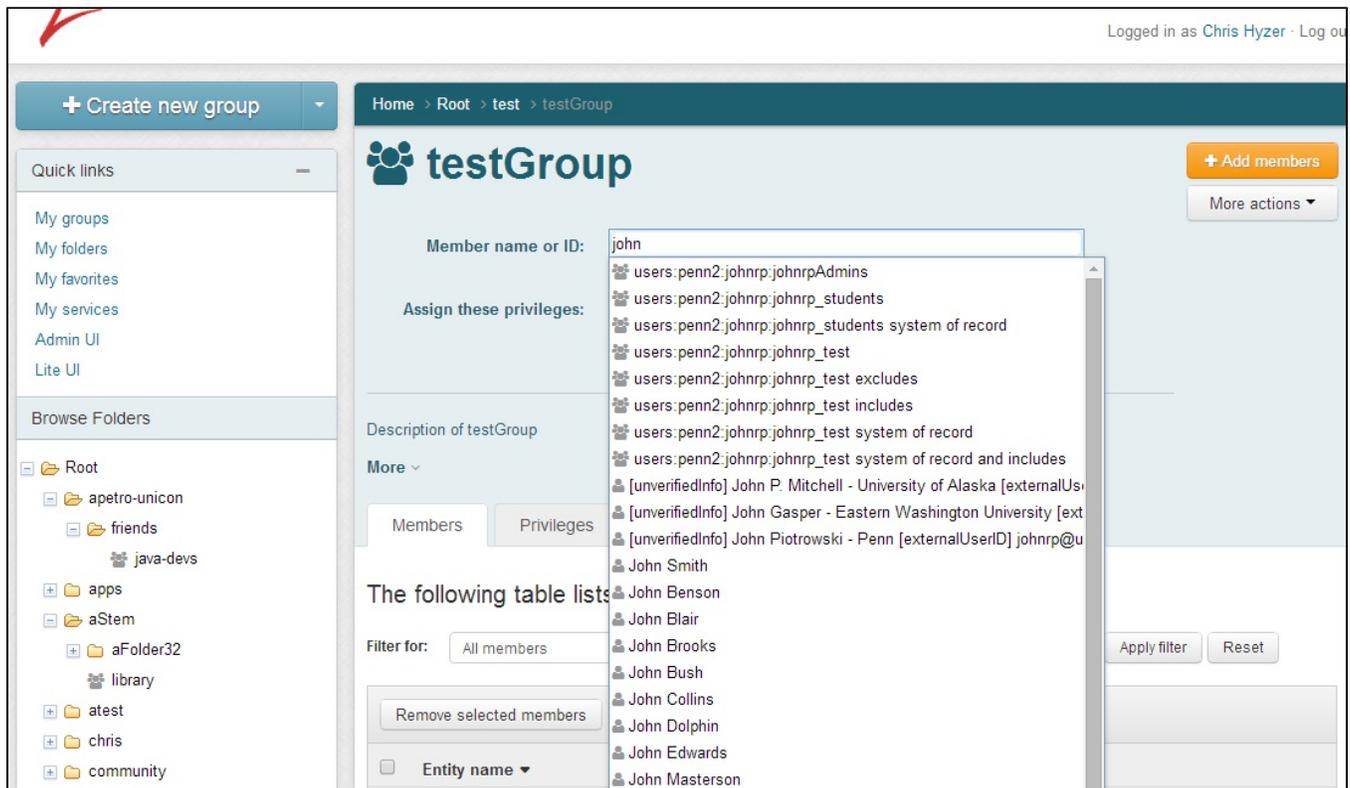
## Group add members

The "add members" button in the upper right will show a hidden panel which has a combobox to find members to add.



The screenshot shows the 'testGroup' management interface. On the left is a sidebar with 'Quick links' (My groups, My folders, My favorites, My services, Admin UI, Lite UI) and 'Browse Folders' (Root, apetro-unicorn, friends, java-devs, apps, aStem, aFolder32, library, atest, chris). The main content area has a breadcrumb 'Home > Root > test > testGroup' and a '+ Add members' button. Below the breadcrumb is a search input for 'Member name or ID' with a placeholder 'Enter an entity name or ID, or [search for an entity](#)'. There are radio buttons for 'Assign these privileges: Default privileges' (selected) and 'Custom privileges'. An 'Add' button is present, along with the text 'or import a list of members'. Below this is a 'Description of testGroup' section with a 'More' dropdown and tabs for 'Members', 'Privileges', and 'More'. A message states: 'The following table lists all entities which are members of this group.' Below this is a 'Filter for:' dropdown set to 'All members', a search input for 'Member name', and 'Apply filter' and 'Reset' buttons. A 'Remove selected members' button is also visible.

The combobox will show results of searches in subject sources. Groups are returned which the user can READ. The control can be controlled with the keyboard.



This screenshot shows the same 'testGroup' management page, but with the search dropdown open. The dropdown lists various users and groups, including 'users:penn2:johnrp:johnrpAdmins', 'users:penn2:johnrp:johnrp\_students', and several 'users:penn2:johnrp:johnrp\_test' entries with different privileges. It also lists external users like 'John P. Mitchell - University of Alaska' and 'John Gasper - Eastern Washington University'. The 'Entity name' dropdown is visible at the bottom left of the dropdown menu. The 'Apply filter' and 'Reset' buttons are also visible on the right side of the page.

Members can be added with default privileges (member), or they can be given other privileges in addition or instead

More actions

Member name or ID:   
Enter an entity name or ID, or [search for an entity](#).

Assign these privileges:  Default privileges  Custom privileges

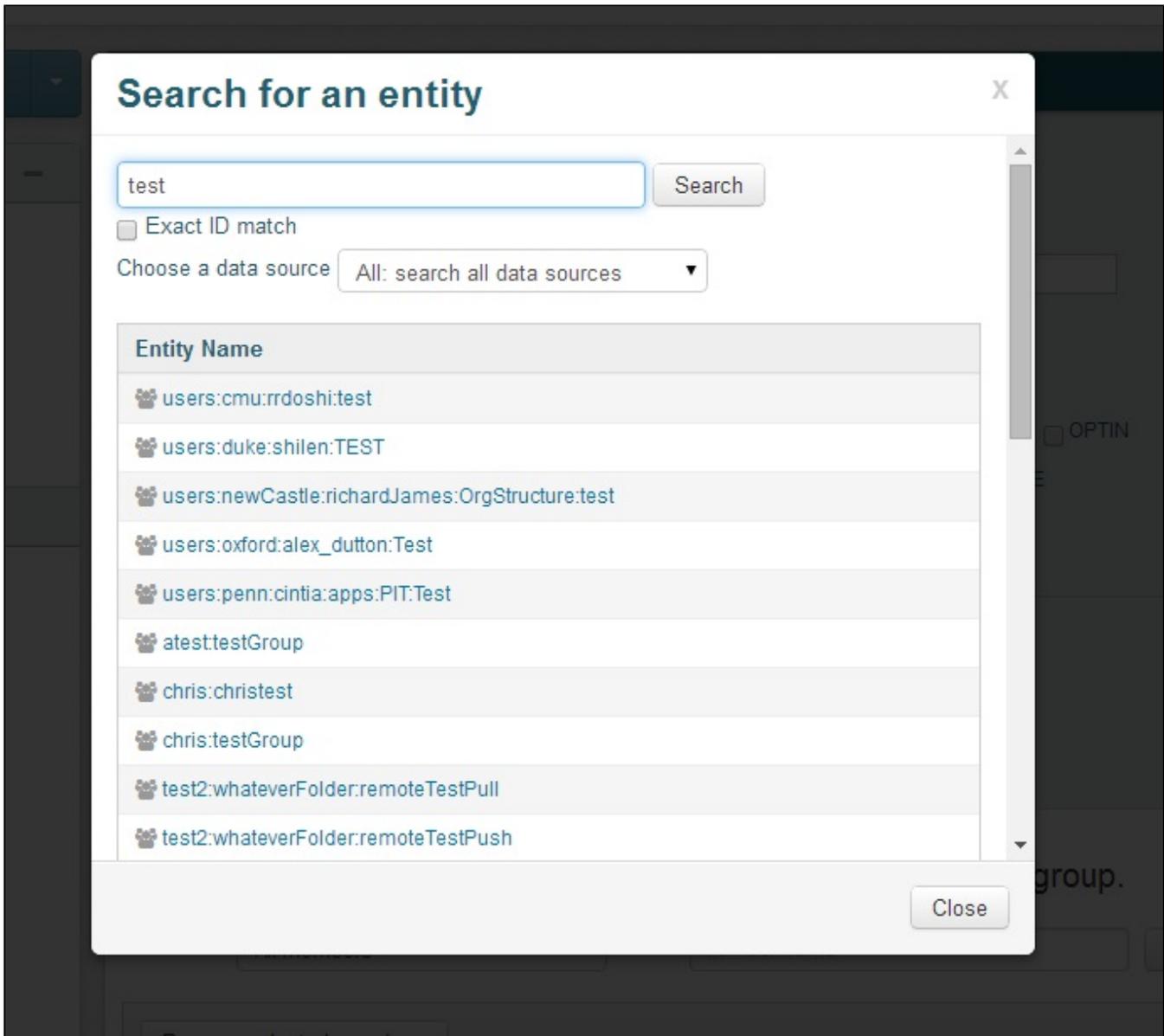
MEMBER  ADMIN  UPDATE  READ  VIEW  OPTIN  
 OPTOUT  ATTRIBUTE READ  ATTRIBUTE UPDATE

or import a list of members .

---

Description of testGroup

The user could use a modal dialog instead of the combobox. Note: a modal dialog can be used for any combobox in the new Grouper UI.



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### Group member action

For each member displayed on the Group screen, there is an action pull down which will show buttons available to the user depending on the row and the privileges of the user using the UI.

---

Members Privileges More ▾

The following table lists all entities which are members of this group.

Filter for: All members ▾ Member name Apply filter Reset

Remove selected members

<input type="checkbox"/> Entity name ▾	Membership	
<input type="checkbox"/> Chris	Indirect	Actions ▾
<input type="checkbox"/> Chris Hubing	Direct	Actions ▾
<input type="checkbox"/> Chris Hyzer	Direct, Indirect	Actions ▾
<input type="checkbox"/> christest	Direct	
<input type="checkbox"/> GrouperSysAdmin	Direct	
<input type="checkbox"/> Peter	Direct	Actions ▾
<input type="checkbox"/> Shilen Patel	Direct	Actions ▾
<input type="checkbox"/> Tom Barton	Direct	Actions ▾

Edit membership and privileges  
Revoke membership  
Trace membership

### Group member edit membership

From the member action drop down, you can edit the membership. If it is a direct membership you can assign start and end dates

# Chris Hyzer

## Membership and privileges in testGroup group

**Unique ID:** 0b5949edd3bf4b65a0ab7e9ce97a4cf9

**Name:** Chris Hyzer

**Description:** [unverifiedInfo] Chris Hyzer - Penn [externalUserID] mchyzer@upenn.edu

Chris Hyzer **is a direct member** of the testGroup group

Chris Hyzer **is an indirect member** of the testGroup group

**Start date:**

The date on which this entity's membership begins.

**End date:**

The date on which this entity's membership expires.

**Save**

Cancel

Trace

### Group member trace membership

The membership trace is available from the actions drop down on the members tab of the group screen. You can see the path that a user has to the overall group. The trace screen will explain nested groups, composite groups, and privilege inheritance (when dealing with privileges).



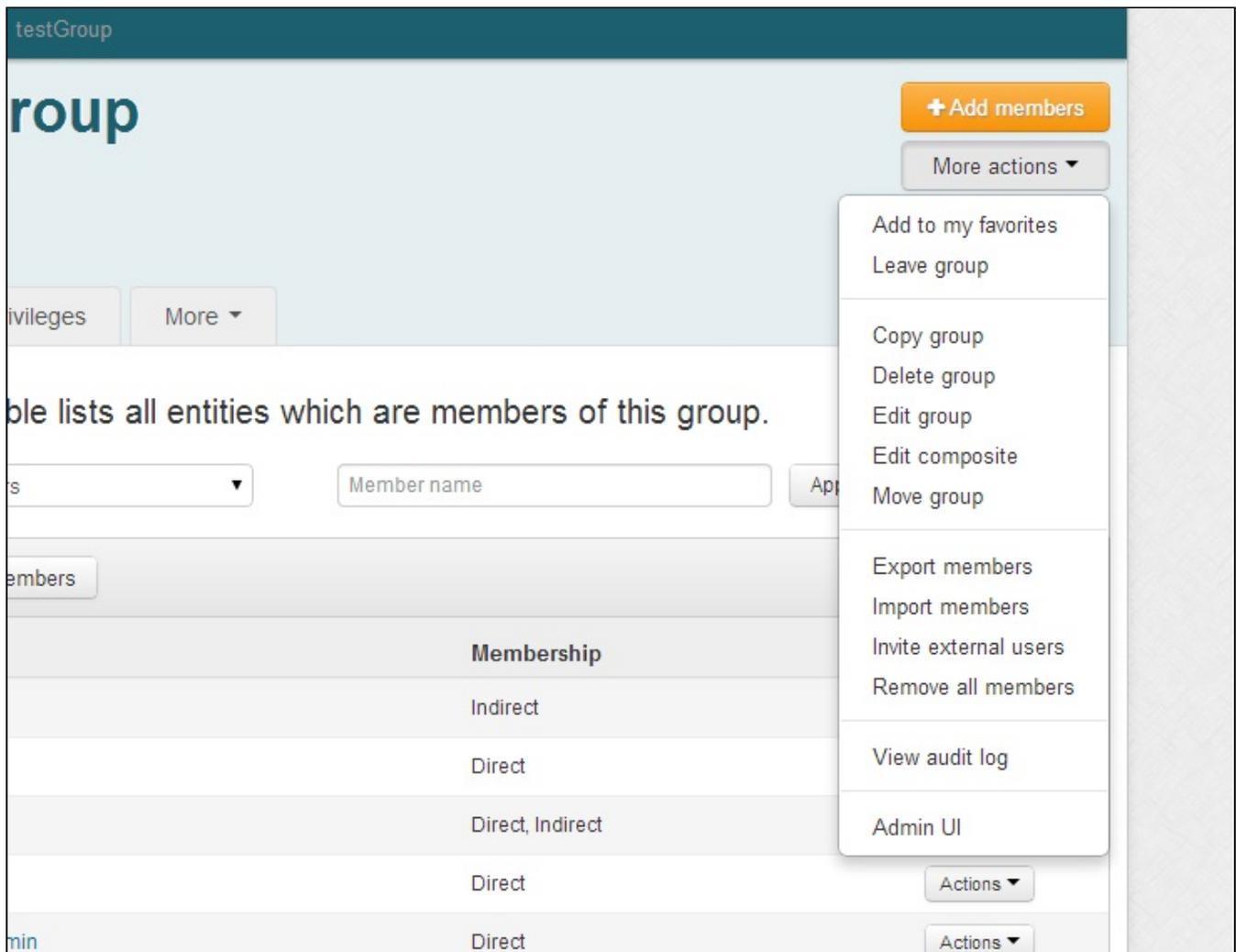
## Trace membership for Chris Hyzer

Chris Hyzer is a member of the *overallgroup* group by the following paths:

- Chris Hyzer is a **direct member** of
  - test:leftfactor
    - which is a **composite factor** intersect with rightfactor of
      - test:overallgroup
- Chris Hyzer is a **direct member** of
  - test:rightfactor
    - which is a **composite factor** intersect with leftfactor of
      - test:overallgroup
- Chris Hyzer is a **direct member** of
  - test:testGroup
    - which is a **direct member** of
      - test:leftfactor
        - which is a **composite factor** intersect with rightfactor of
          - test:overallgroup
- Chris Hyzer is a **direct member** of

### Group menu

The group dropdown menu shows actions to perform involving the group. These are in a drop down so the buttons do not clutter the screen. The items in this drop down vary depending on the state of the group and the privileges of the user.



### Copy group

You can select "Copy group" from the group menu to copy a group and optionally its members, privileges, and attributes to another folder

# testGroup

## Copy group

New group name:

Name is the label that identifies this group, and might change.

New group ID:

ID is the unique identifier for this group. It should be short and simple, and must be all lowercase with no spaces or special characters. The ID must be unique within this folder, and should rarely change.

Copy into this folder:

Enter a folder name or [search for a folder where you are allowed to create new groups](#).

- Copy attributes?  
If you select this option, all custom attributes will be copied to the new group. If you do not have read access to all attributes in the group, you will get a privilege error.
- Copy list memberships of the group?  
If you select this option, all members of the group in the default list along with any custom lists will be copied to the new group. If you do not have read access to any of the custom lists, you will get a privilege error.
- Copy privileges of the group?  
If you select this option, all privileges of the group will be copied to the new group. If you do not have read access to any of the privileges, you will get a privilege error.
- Copy list memberships where the group is a member of other groups?  
If you select this option and the group is a member of other groups, the new copied group will be added to the other groups' membership list. If you do not have access to add members to the other groups, you will get a privilege error.
- If you select this option and the group has privileges to other groups or folders, the new copied group will also be given privileges to those other groups or folders. If you do not have access to add privileges to the other groups or folders, you will get a privilege error.  
If you select this option and the group has privileges to other groups or folders, the new copied group will also be given privileges to those other groups or folders. If you do not have access to add privileges to the other groups or folders, you will get a privilege error.

### See Also

[Grouper UI Installation - Configuring the Grouper UIs](#)

[LITE UIs](#)