

2019 TECHNOLOGY exchange

DECEMBER 9-12  NEW ORLEANS LA

Grouper FoF (Fish of a Fin)

PRESENTER NAMES:

Chris Hyzer, Penn
Shilen Patel, Duke
Chad Redman, UNC
Bill Thompson, Lafayette



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CORE TEAM

Correlate a face to the slack comments



Grouper Team (alphabetical) - people who work on Grouper

- Carey Matt Black (Ohio State) – general support
- Emily Eisbruch (Internet2) - work group support
- Chris Hyzer (Penn) - Grouper lead, API, WS, and UI
- Shilen Patel (Duke) – API, loader, UI
- Chad Redman (UNC) – Dev tools, UI
- Vivek Sachdeva (independent) – API, WS, UI
- Bill Thompson (Lafayette College) – GDG and Grouper Training Environment

Note: many others in Internet2 spend time working on Grouper

WHAT IS GROUPEUR

<Insert fish pun here, Matt Black will laugh>



What is Grouper

- Central authorization
- Loading data from systems of record
- Groups
- Provisioning
- Deprovisioning
- Auditing
- Delegation and distributed management
- Permissions

Grouper and InCommon Trusted Access Platform

InCommon delivers a packaged suite of components (Shibboleth Identity Provider, **Grouper**, COmanage, midPoint) with a set of APIs to provide consistency and flexibility.

TIER provides the Grouper project:

- Requirements for development

- Funding

- Architectural guidance

- Standards to harmonize with other TIER products

- Contributions in areas such as: packaging, plugins, administrative help, etc

ROADMAP AND SCHEDULING

This compass helps navigate the roadmap



Grouper Roadmap Schedule

- Finish development on Grouper v. 2.5
- Test 2.5
- Release 2.5 (2 months out)
- Low risk improvement patches in 2.5
- Work on 2.6
- Release 2.6 (Q4 2020)

Grouper Roadmap - 2.4 patches remaining

<https://spaces.internet2.edu/display/Grouper/Grouper+Product+Roadmap>

- SQL provisioning and syncing
- Asynchronous UI improvement
- Rule update for deprovisioning (effective non-group membership changes)

Grouper Roadmap - 2.5 release items

- Grouper enabled/disabled dates
- WS for point in time memberships
- Database changes for future 2.5 patches
- Better UI support for attributes on memberships
- WS for audits
- Improved paging in WS

Grouper Roadmap - 2.5 patches (long term)

- Support JSON in Grouper client
- Subject source configuration wizard GUI
- Random access change log
- Rules in the UI
- [Provisioning framework harmonization](#)
 - Integrate with connid provisioning framework?
- PSPNG integrate with provisioning UI
- PSPNG configuration wizard GUI
- PSPNG performance improvements
- Harmonize Azure AD provisioners
- WS authn for local entities, self provision WS credential
- Minimum group size
- Insert your item here

Grouper Roadmap - Containers

You will save time managing Grouper and the support burden will be reduced if you migrate to using the ITAP container

- When you upgrade to 2.5 you should start using the ITAP container
 - If you really don't want to, perhaps build a container and copy the file structure out to your server
- You should centralize your configuration in the database
- The grouper team will provide documentation and integration with the Grouper Installer for containers
 - What do you need?

Grouper Roadmap - Merged directory in Grouper?

- Grouper builds into various directories
- ITAP container has three main directories
 - /opt/grouper/grouper.ui
 - /opt/grouper/grouper.ws
 - /opt/grouper/grouper.apiBinary
- Imagine one directory
 - /opt/grouper/grouper.webapp
- That has UI/WS/daemon
- grouper.properties configs would enable / disable the ui / ws / daemon
 - All plugins/jars would be there by default
 - Pspng, messaging, box, etc
- Do people want this? Would it make things less confusing? Ponder it?

COMMUNITY CONTRIBUTIONS



Community Contributions

<https://spaces.at.internet2.edu/display/Grouper/Community+Contributions>

2019 Updates from:

- University of Montana
- Penn
- UMBC
- UNC
- University of Illinois

CHRIS - PROGRESS SINCE GLOBAL SUMMIT

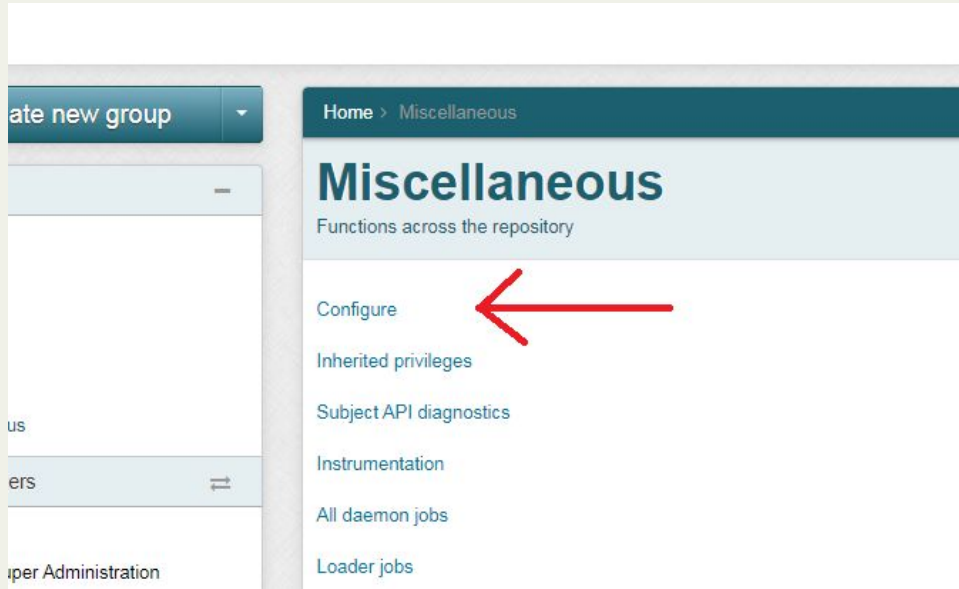


Configuration in UI

<https://spaces.at.internet2.edu/display/Grouper/Grouper+configuration+in+the+database+and+UI>

- 6 config files in UI, need to add more (log4j? Externalized text?)
 - Grouper, subject, ui, ws, loader, cache
- Properties files are still there, you can use those if you like (not recommended)
- Metadata about each entry
- Documentation still largely in base properties file
- Auto-encrypt passwords (cannot see raw password)
- Wizards and better UI screen on schedule in future
- Can restrict by source IP address
- Import existing config files
- Does take some effort to consolidate
- Consolidate your configuration (fewer errors), make containerization easier

Configuration in UI (continued)



Configuration in UI (continued)

Home > Miscellaneous > Configure

Configure

Configure Grouper settings. Changes take a couple minutes to propagate to all JVMs connected to this database.

Config file [view or edit](#)

- grouper.cache.properties
- grouper.client.properties
- grouper-loader.properties
- grouper.properties
- grouper-ui.properties
- grouper-ws.properties
- subject.properties

loader.ldap.requireTopStemAsStemFromConfigGroup Type: boolean (true or false)	true by default the top folder for an ldap group of groups is the folder where the config group lives. set to false if you want to be able to provision groups to anywhere	grouper-loader.base.properties
loader.ldap.defaultGroupFolder Type: text	groups: if you dont specify a groupNameExpression, groups will be loaded into this folder if this property doesnt exist, it will be groups: if it is blank, then there is no top level folder e.g. loader:groups	grouper-loader.base.properties
loader.ldap.resultsTransformationDelimitedValueExampleDelimiter Type: text	- Delimiter used in the example edu.internet2.middleware.grouper.app.loader.Ldap.LdapResultsTransformationDelimitedValueExample	grouper-loader.base.properties
loader.allowStemDisplayNameChangesUnderStems Type: folder , multiple comma separated values	Comma separated list of stems under which the display name changes in stems are allowed. eg: loader.allowStemDisplayNameChangesUnderStems=school:courses:english, school:faculty	grouper-loader.base.properties
loader.allowBlankGroupDescriptions Type: boolean (true or false)	false If a job creates or updates a group, and the job parameters do not compute a description, true if a blank description is allowed. If false, the description will be set to "[groupExtension] auto-created by grouperLoader".	grouper-loader.base.properties
loader.fixIncludeExcludes Type: boolean (true or false)	false fix include excludes on each run	grouper-loader.base.properties
loader.deleteGroupsNoLongerInSource Type: boolean (true or false)	false potentially delete groups that are no longer in the source system	grouper-loader.base.properties

Auditing lifetimes

Property name	Value	Configured in
loader.retain.db.audit_entry_no_logged_in_user.days Type: integer	1825 number of days to retain db rows in grouper_audit_entry with no logged in user (loader, gsh, etc). -1 is forever. suggested is 365 or five years: 1825. Default is -1 audit entries with no logged in user aren't really all that useful. There is point in time data still. So removing these shouldn't be a big deal	grouper-loader.properties Default value: -1
loader.retain.db.audit_entry.days Type: integer	3650 number of days to retain db rows in grouper_audit_entry. -1 is forever. suggested is -1 or ten years: 3650 Some think its ok to remove all audit entries over 10 (or X) years, but will default this to never since even at large institutions there aren't that many records. These are audits for things people do on the UI or WS generally (as a different to records with no logged in user)	grouper-loader.properties Default value: -1
loader.retain.db.point_in_time_deleted_objects.days Type: integer	365 number of days to retain db rows for point in time deleted objects. -1 is forever. suggested is 365 or five years: 1825. Default is -1 After you delete an object in grouper, it is still in point in time. So if you want to know who was in a group a year ago, you need this info However, after some time it might be ok to let it go. So the default is 5 years	grouper-loader.properties Default value: -1
loader.retain.db.folder.courses.days Type: integer	1825 Sample value: 1825 number of days after a subfolder (directly in a parent folder) is created that it will be obliterated (deleted) and point in time will be deleted too. "courses" or "anotherLabel" are variables you make up in these examples This is optional. You can automatically obliterate folders "directly in a parent folder" that are a certain age old e.g. courses. so you could delete a term of courses 4 years old if you like. Note, make sure the loader isn't going to recreate or you will get chum Note this can also delete the point in time data as well.	grouper-loader.properties

Configuration in UI (continued)

Home > Miscellaneous > Configure > Configuration files > Import config file

Import config file More actions ▾

Import a config file to load configuration to the database

Config file grouper-ui.properties

Config file to add / update settings. Must be named one of: grouper.cache.properties, grouper.client.properties, grouper-loader.properties, grouper.properties, grouper-ui.properties, grouper-ws.properties, subject.properties

Configuration in UI (continued)

```
Success: 14 properties uploaded to grouper-ui.properties. Added: 14, updated: 0, unchanged: 0, warnings: 0, errors: 0.
Success: the property 'grouperUi.autoCreateUserFolderCreateParentFoldersIfNotExist' value was added to the database
Success: the property 'inviteExternalPeople.link-from-admin-ui' value was added to the database
Success: the property 'inviteExternalMembers.enableInvitation' value was added to the database
Success: the property 'externalMembers.enabledRegistration' value was added to the database
Success: the property 'grouperUi.autoCreateUserFolderOnLogin' value was added to the database
Success: the property 'require.group.for.inviteExternalSubjects.logins' value was added to the database
Success: the property 'inviteExternalPeople.link-from-lite-ui' value was added to the database
Success: the property 'grouperUi.logout.redirectToUrl' value was added to the database
Success: the property 'uiV2.admin.subjectApiDiagnostics.must.be.in.group' value was added to the database
Success: the property 'require.group.for.logins' value was added to the database
Success: the property 'externalMembers.emailAdminsAddressesAfterActions' value was added to the database
Success: the property 'inviteExternalMembers.allowInviteByIdentifier' value was added to the database
Success: the property 'grouperUi.autoCreateUserFolderName' value was added to the database
Success: the property 'inviteExternalMembers.emailAdminsAddressesAfterActions' value was added to the database
```

+ Create new group

Quick links

- My groups
- My folders
- My favorites
- My services
- My activity
- Miscellaneous

Browse folders

- Root
 - Grouper Administration
 - QS University of Bristol
 - aStem
 - apetro-unicon
 - apps
 - atest
 - chris
 - community
 - deprovisioning

Home > Miscellaneous > Configure > Configuration files

Configuration files

More actions

Configure Grouper settings. Changes take a couple minutes to propagate to all JVMs connected to this database.

Config file grouper-ui.properties

Select the config file you would like to view or edit

grouper-ui.properties

Config chaining hierarchy

The grouper UI properties uses Group Configuration Overlays (documented on wiki) By default the configuration is read from grouper-ui.base.properties (which should can be applied to the grouper-ui.properties

Choose action	Property name	Value
Actions	grouperUi.config.hierarchy Type: text , multiple comma separated values	classpath:grouper-ui-ng.base.properties, classpath:grouper-ui.p comma separated config files that override each other (files on the right over file.c:/something/myconfig.properties
Actions	grouperUi.config.secondsBetweenUpdateChecks Type: integer	60 seconds between checking to see if the config files are updated

Configuration in UI (continued)

Home > Miscellaneous > Configure > Configuration files > Add config entry

Add config entry

More actions ▾

Add a configuration line to the configuration stored in the database

Config file ▾
Config file to add setting to

Property name
Property name to add to config file

Expression language script ▾
If this is an expression language script that should be evaluated when the property is read

Is password? ▾
Password credentials will be encrypted in the database if not stored externally in a file

Value
Value or scriptlet to assign to the property name

grouper-loader.properties

Config chaining hierarchy

Grouper loader uses Grouper Configuration Overlays (documented on wiki) By default the configuration is read from grouper-loader.base.properties (which should not be edited), and the grouper-loader.properties overlays the base settings. See the grouper-loader.base.properties for the possible settings that can be applied to the grouper.properties

Choose action	Property name	Value	Configured in
<input type="button" value="Actions"/>	loader.config.hierarchy Type: text , multiple comma separated values	classpath:grouper-loader.base.properties, classpath:grouper-loader.properties, database:grouper comma separated config files that override each other (files on the right override the left) each should start with file: or classpath: e.g. classpath:grouper-loader.example.properties, file:c:/something/myconfig.properties	grouper-loader.base.properties
<input type="button" value="Actions"/>	loader.config.secondsBetweenUpdateChecks Type: integer	60 seconds between checking to see if the config files are updated	grouper-loader.base.properties

General settings

Choose action	Property name	Value	Configured in
<input type="button" value="Actions"/>	loader.autoadd.typesAttributes Type: boolean (true or false)	false auto-add grouper loader types and attributes when grouper starts up if they are not there	database Default value: true

Expression language script

If this is an expression language script that should be evaluated when the property is read

Is password?

Password credentials will be encrypted in the database if not stored externally in a file

Value

Value or scriptlet to assign to the property name

<input type="button" value="Actions"/>	loader.use.transactions Type: boolean (true or false)	false if a transaction should be used when loading groups. If not, then commits will happen as the group is loaded (and memory usage might be less intensive, and caching settings need to be set right)	grouper-loader.base.properties
<input type="button" value="Actions"/>	loader.use.membershipThreads Type: boolean (true or false)	true if should use threads in the loader for add/remove member	grouper-loader.base.properties

Configuration in UI (continued)

Home > Miscellaneous > Configure > Configuration files

Configuration files

More actions ▾

Configure Grouper settings. Changes take a couple minutes to propagate to all JVMs connected to this database.

Config file

grouper-loader.properties ▾

Select the config file you would like to view or edit

grouper-loader.properties

Config chaining hierarchy

Grouper loader uses Grouper Configuration Overlays (documented on wiki) By default the configuration is read from grouper-loader.base.properties (which should not be edited), and the grouper-loader.properties overlays the base settings. See the grouper-loader.base.properties for the possible settings that can be applied to the grouper.properties

Choose action	Property name	Value	Configured in
Actions ▾	loader.config.hierarchy Type: text , multiple comma separated values	classpath:grouper-loader.base.properties, classpath:grouper-loader.properties, database:grouper comma separated config files that override each other (files on the right override the left) each should start with file: or classpath: e.g. classpath:grouper-loader.example.properties, file:c:/something/myconfig.properties	grouper-loader.base.properties
Actions ▾	loader.config.secondsBetweenUpdateChecks Type: integer	60 seconds between checking to see if the config files are updated	grouper-loader.base.properties

General settings

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Actions ▾	loader.autoadd.typesAttributes Type: boolean (true or false)	false auto-add grouper loader types and attributes when grouper starts up if they are not there	database Default value: true
Actions ▾	loader.use.transactions Type: boolean (true or false)	false if a transaction should be used when loading groups. If not, then commits will happen as the group is loaded (and memory usage might be less intensive, and caching settings need to be set right)	grouper-loader.base.properties
Actions ▾	loader.use.membershipThreads Type: boolean (true or false)	true if should use threads in the loader for add/remove member	grouper-loader.base.properties

Edit

Delete

SQL provisioning

<https://spaces.at.internet2.edu/display/Grouper/Grouper+SQL+database+provisioning>

- Sync a database table/view from one database to another
- Does not have to be same database vendor
- Full / group / incremental
- Membership sync'ing to SQL via change log
- Not completely finished yet

When to use

- Sync a subject source table
- Sync memberships to a service for provisioning
 - Sync data to IdP for SAML entitlements
- Sync memberships to reporting database
- Sync data for loading purposes

Template for policy group

<https://spaces.at.internet2.edu/display/Grouper/Grouper+new+template+wizard+-+policy+groups>

- New include/exclude/require
- Allow / deny groups
- Can have ad hoc groups
- Can auto add lock out group(s)

Template for policy group

Template type ▼
Pick the template type you want to run

Key *
Alphanumeric key for template being run. Might be used for object names.

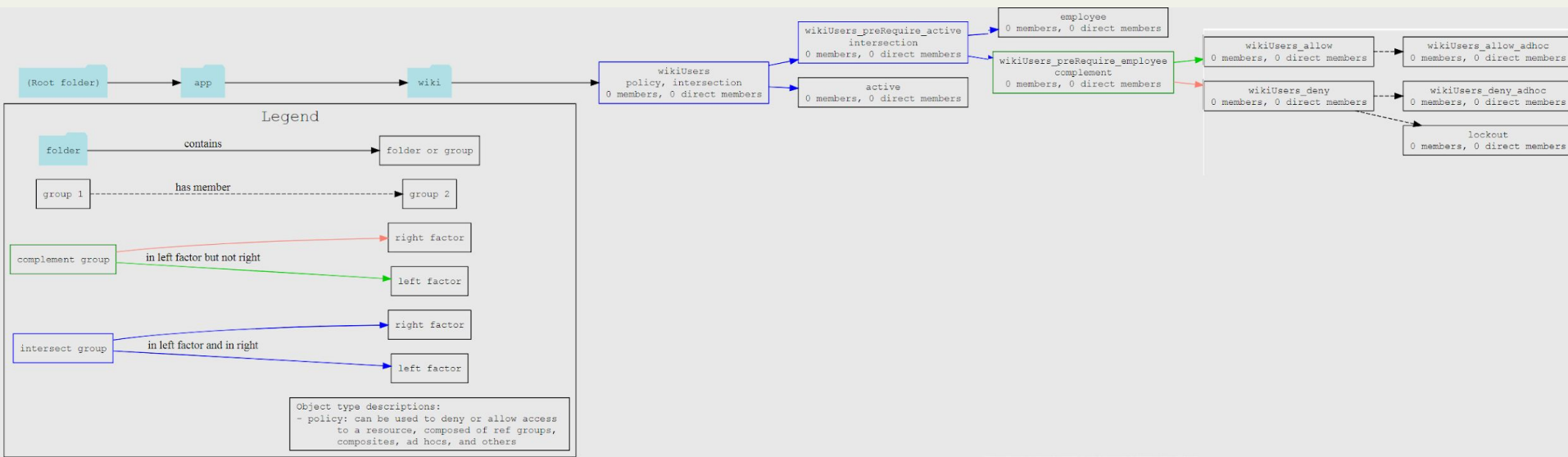
Friendly Name Edit friendly name
This will typically be the same as the key though could be more friendly. Might be used for object display names.

Description
Describe the purpose that the template is being run. Might be used on object descriptions.

Check the checkboxes below to create folders, groups, and assign privileges. If the folder or group already exists or privilege is already assigned, then that individual action is skipped.

- Create overall group "app:wiki:wikiUsers"?
- Assign "policy" type to group: "app:wiki:wikiUsers"?
- Create allow group to hold the allowed ref groups "app:wiki:wikiUsers_allow"?
- Create allow ad hoc group to hold individuals who are manually added to the allow policy "app:wiki:wikiUsers_allow_adhoc"?
- Add group "app:wiki:wikiUsers_allow_adhoc" as a member of "app:wiki:wikiUsers_allow"?
- Create deny group to hold the denied ref groups "app:wiki:wikiUsers_deny"?
- Add group "ref:lockout" as a member of "app:wiki:wikiUsers_deny"?
- Create deny ad hoc group to hold individuals who are manually removed from the policy "app:wiki:wikiUsers_deny_adhoc"?
- Add group "app:wiki:wikiUsers_deny_adhoc" as a member of "app:wiki:wikiUsers_deny"?
- Require members in the overall policy group to also be in this group: "ref:active"?
- Require members in the overall policy group to also be in this group: "ref:employee"?

Template for policy group



Schedule CSV to be SFTP'ed

<https://spaces.at.internet2.edu/display/Grouper/Grouper+CSV+files+SFTP>

- Construct a CSV with a SQL query
 - Can include memberships in columns
- Configure an SFTP site with password or public key
- Schedule the job

SHILEN - PROGRESS SINCE GLOBAL SUMMIT



Attestation using reports

- Attestation and reports were two existing features of Grouper
- Initially attestation was only group-based (i.e. are the members of this group correct?)
- This is great in many cases but problematic in some as well
- New feature allows you to attest a report instead

Stem attestation

Attestation actions ▾

No attestation is configured on this folder or parent folder

Attestation

Yes, does have attestation directly assigned ▾

If this folder has attestation configured on it directly, not inherited from ancestor folder

Has attestation

Yes, attestation is enabled ▾

If configured to be attested. It is possible that attestation is configured to be off.

Attestation type

 Attest group memberships
 Attest a report ▾

If on the results of a report

Send email

Yes, send email alerts (recommended) ▾

If email alerts should be sent out to people who need to review the membership

Email group managers

Yes, email the group admins and updaters ▾

If the group managers (can ADMIN or can READ and UPDATE) should be emailed when attestation is due

Use default recertify days

Yes, use default recertify days (180 days) ▾

Use the system wide default of 180 days for recertification

Folder scope

All groups in this folder or subfolders ▾

Do these attestation settings affect groups in this folder and all subfolders (default) or only groups directly in this folder

Mark groups as reviewed

No, do not mark these groups as reviewed ▾

For the groups in this folder, mark the last certified date as today

Save

Cancel

Improvements to All daemon jobs screen

Overall status now based on diagnostics

Home > Miscellaneous > All daemon jobs

All daemon jobs

Filter for: Show extended results?

Next refresh: 5

Job name	State	Overall status	Last run status	Actions
CHANGE_LOG_changeLogTempToChangeLog	ENABLED	ERROR	SUCCESS	<input type="button" value="Job actions"/>
CHANGE_LOG_consumer_grouperRules	ENABLED	ERROR	SUCCESS	<input type="button" value="Job actions"/>
CHANGE_LOG_consumer_syncGroups	DISABLED	DISABLED	SUCCESS	<input type="button" value="Job actions"/>
MAINTENANCE_builtInMessagingDaemon	ENABLED	SUCCESS	SUCCESS	<input type="button" value="Job actions"/>
MAINTENANCE_enabledDisabled	ENABLED	SUCCESS	SUCCESS	<input type="button" value="Job actions"/>
MAINTENANCE_rules	ENABLED	SUCCESS	SUCCESS	<input type="button" value="Job actions"/>
MAINTENANCE_cleanLogs	ENABLED	SUCCESS	SUCCESS	<input type="button" value="Job actions"/>
OTHER_JOB_attestationDaemon	ENABLED	SUCCESS	SUCCESS	<input type="button" value="Job actions"/>

Show and filter group memberships under a folder

Shows all memberships under a folder with advanced options

The screenshot shows a web interface for managing group memberships. At the top, there are tabs for "Folder contents", "Privileges", and "More". Below the tabs, a message states: "The following table lists all group memberships for groups under this folder".

Filtering options include:

- Filter for:** A dropdown menu set to "All members".
- Member name:** A text input field.
- Group filter:** A dropdown menu with a checkmark next to "Members who are not employees" and "Members who are IT people" below it.
- Enabled / disabled:** A dropdown menu.
- Point in time audit:** A dropdown menu set to "No, show current memberships only".

Buttons for "Apply filter" and "Reset" are located below the filters.

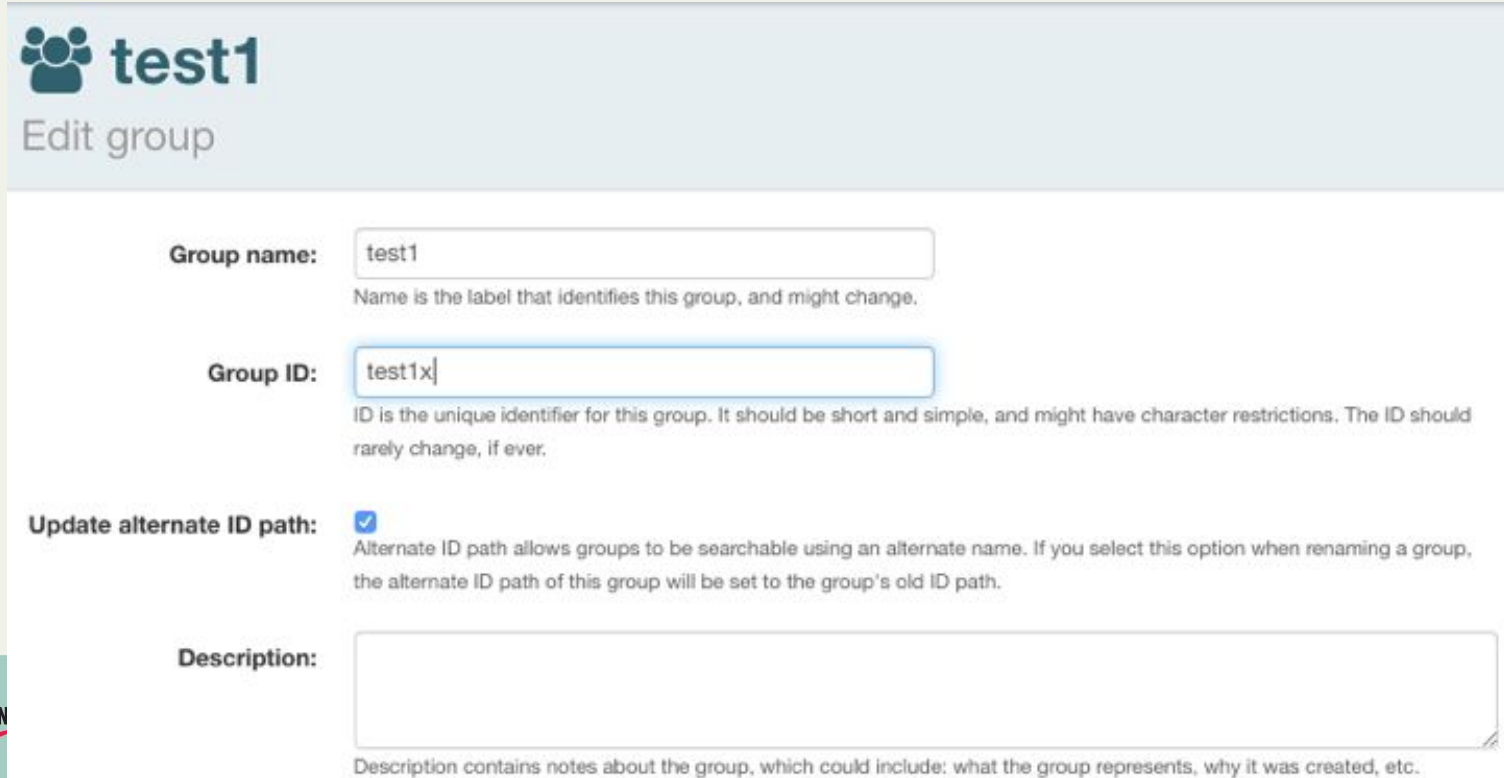
Below the filters is a button labeled "Remove selected members".

The main table displays the following data:

<input type="checkbox"/> Entity name ▼	Folder name	Group name	Membership	Choose action
<input type="checkbox"/> group0sub	test	group0	Direct	Actions ▼
<input type="checkbox"/> my name is test.subject.0	test	group0sub	Direct	Actions ▼
<input type="checkbox"/> my name is test.subject.0	test	group0	Direct, Indirect	Actions ▼
<input type="checkbox"/> my name is test.subject.1	test	group1	Direct	Actions ▼
<input type="checkbox"/> my name is test.subject.2	test	group0sub	Direct	Actions ▼
<input type="checkbox"/> my name is test.subject.2	test	group0	Indirect	Actions ▼

Added alternate name to UI group/folder screens

Option to change alternate name and option to no longer set alternate name during group rename



The screenshot shows the 'Edit group' interface for a group named 'test1'. The interface includes the following fields and options:

- Group name:** A text input field containing 'test1'. Below it, a note states: 'Name is the label that identifies this group, and might change.'
- Group ID:** A text input field containing 'test1x'. Below it, a note states: '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.'
- Update alternate ID path:** A checkbox that is checked. Below it, a note states: 'Alternate ID path allows groups to be searchable using an alternate name. If you select this option when renaming a group, the alternate ID path of this group will be set to the group's old ID path.'
- Description:** A large text area for entering a description. Below it, a note states: 'Description contains notes about the group, which could include: what the group represents, why it was created, etc.'

Other Jiras

- Subject source improvements
- Case insensitive option for incremental loader
- Upgrade tasks job
- Bad effective group sets
- Performance improvements to change log processor

Disabling groups

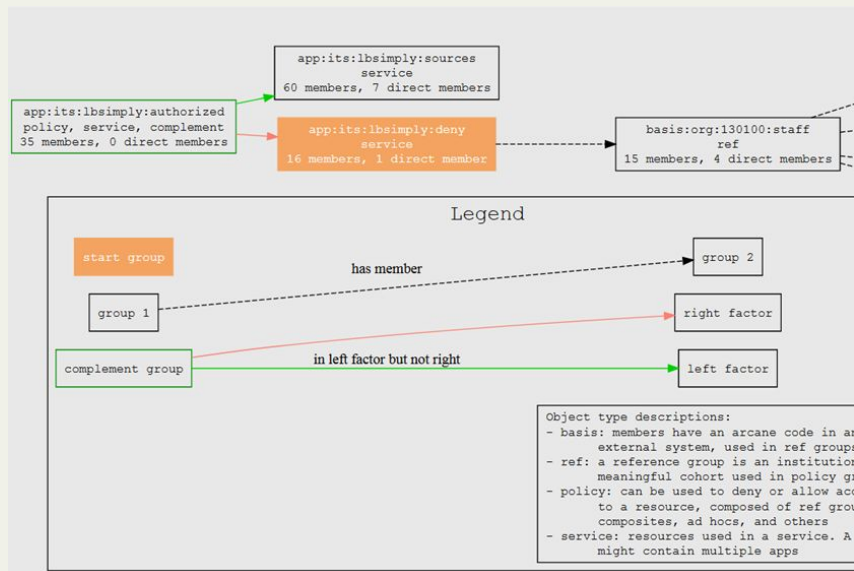
- Currently memberships and attribute assignments are the only objects that can be disabled
- Expanding this functionality to include disabling groups
- Groups would have 3 new fields – enabled flag, enabled time, disabled time
- When a group gets disabled, all memberships and attributes associated with that group also get disabled

CHAD - PROGRESS SINCE GLOBAL SUMMIT

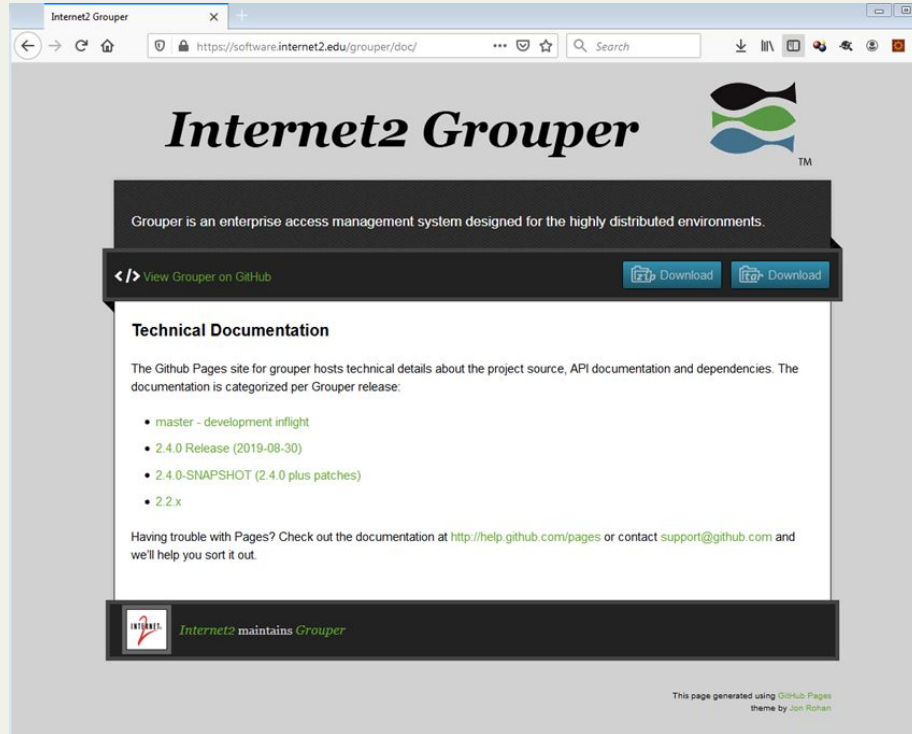


Visualization Enhancements (from Initial Release)

- Membership and owner reverse direction
- Always show both factors of composite groups
- Optional legend
- Show group types if set
- Full screen option
- Circular references no longer crash system :)



Updated Javadoc Site



The screenshot shows a web browser window with the URL `https://software.internet2.edu/grouper/doc/`. The page features the **Internet2 Grouper** logo and a tagline: "Grouper is an enterprise access management system designed for the highly distributed environments." Below this, there are two "Download" buttons. A section titled "Technical Documentation" explains that the GitHub Pages site hosts technical details about the project source, API documentation, and dependencies, categorized by release. A bulleted list includes: "master - development inflight", "2.4.0 Release (2019-08-30)", "2.4.0-SNAPSHOT (2.4.0 plus patches)", and "2.2.x". A footer note states "Internet2 maintains Grouper" and a small note at the bottom right says "This page generated using GitHub Pages theme by Jon Rohan".

Internet2 Grouper

Grouper is an enterprise access management system designed for the highly distributed environments.


[View Grouper on GitHub](#) [Download](#) [Download](#)

Technical Documentation

The Github Pages site for grouper hosts technical details about the project source, API documentation and dependencies. The documentation is categorized per Grouper release:

- [master - development inflight](#)
- [2.4.0 Release \(2019-08-30\)](#)
- [2.4.0-SNAPSHOT \(2.4.0 plus patches\)](#)
- [2.2.x](#)

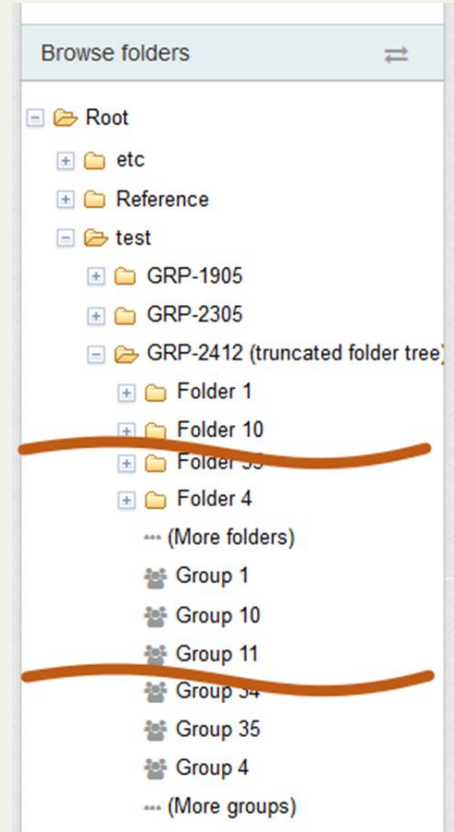
Having trouble with Pages? Check out the documentation at <http://help.github.com/pages> or contact support@github.com and we'll help you sort it out.

 Internet2 maintains Grouper

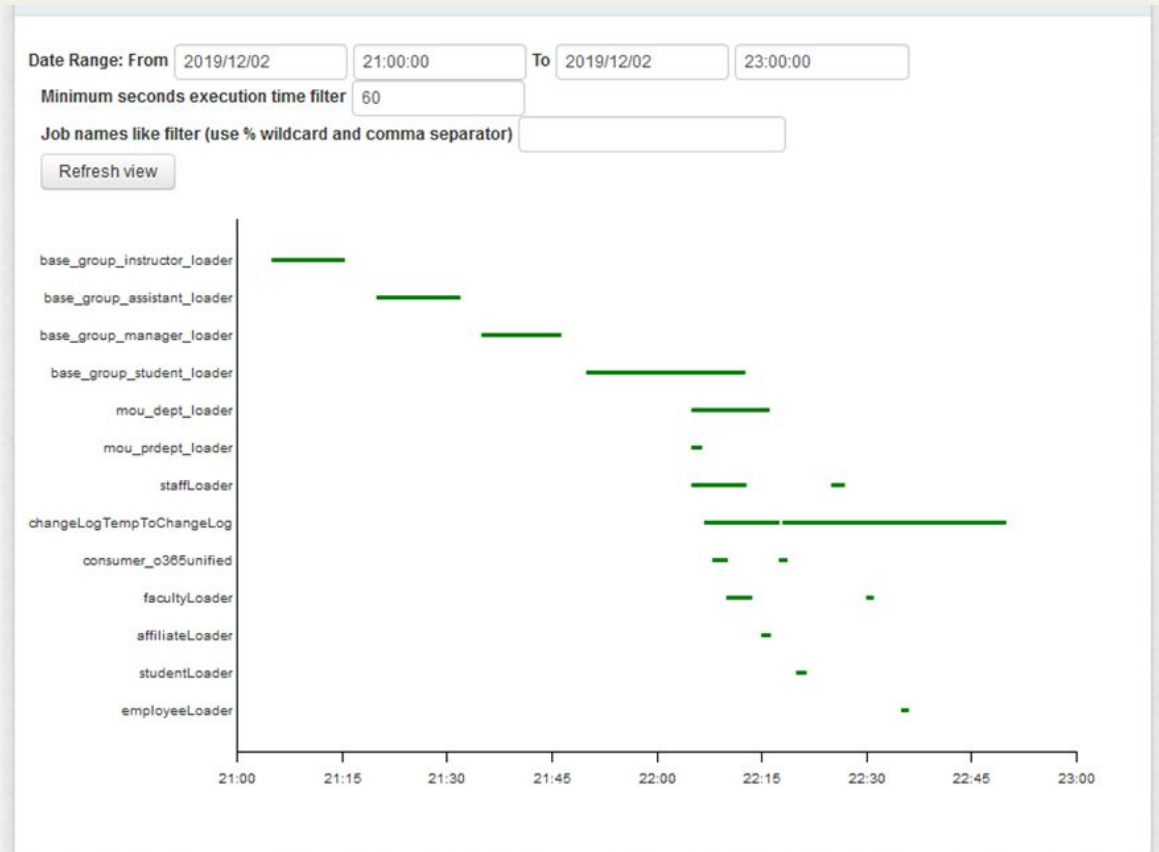
This page generated using [GitHub Pages](#) theme by [Jon Rohan](#)

JIRA Bug (and enhancement) Roundup 2019

- GRP-2031: Export objects to gsh generates valid Groovy syntax
- GRP-2048: Folder navigator tree follows current object
- GRP-2412: Folder tree shows truncation
- GRP-2244: List loaders no longer set loaded=false for the groups of other jobs



Job History Chart (in progress)



**VIVEK -
PROGRESS SINCE
GLOBAL SUMMIT**



Custom SQL Reports

<https://spaces.at.internet2.edu/display/Grouper/Grouper+reporting>

- Configure reports on folders/groups
- Run any sql (select) statement
- CSV output
- Flexible scheduling via custom cron expression
- Reports can be stored in S3 or disk
- Contents of reports are encrypted
- Notifies users via email when report is available
- Automatic clean up after 30 days or when there are more than 100 instances

testGroup2

+ Add members

More actions ▾

More ▾

Members

Privileges

More ▾

Report on group

Report actions ▾

SQL reports that generate a CSV spreadsheets can be configured on this group. The system admin can add reports.

Report name	myReport
Description	my service users
Config type	SQL
Query	SELECT gm.subject_id, gm.name, gm.description FROM grouper_memberships_lw_v gmlv, grouper_members gm WHERE gmlv.group_name = 'testB:testGroup2' AND gmlv.member_id = gm.id AND gmlv.subject_source = 'jdbc' ORDER BY 1
Config format	CSV
Quartz cron	0 0 6 * * ?
File name	usersOfMyService_\$\$timestamp\$\$.csv
Send email	Yes, send email when the report is ready

Grouper forms, workflow and approvals

<https://spaces.at.internet2.edu/display/Grouper/Grouper+forms%2C+workflow+and+approvals>

- Trigger workflow when requesting to join a group
- Admins and workflowEditors members configure workflow on groups
- Can configure custom html and fields to show on the request form
- Fields can be configured to be required or not
- Configure approval states via JSON
- Approval states must have `initiate` and `complete` state
- Configure visibility of html form elements at each state
- Full history is stored at each state in S3 or disk
- Users are notified via email when they have a pending action
- Reminder emails are sent in a digest form
- Approvers can see all the forms in their queue in Miscellaneous -> Forms -> Forms waiting for my approval
- Users can see all the forms they have submitted in Miscellaneous -> Forms -> My forms

Workflow configs on group

Workflow actions ▾

Config type

grouper

Workflow config type

Config name

test config

Name of workflow. No two workflows in the same owner can have the same name

Config id

test-config-id

Camel-case alphanumeric id of workflow. No two workflows in all of Grouper can have the same ID

Config description

Group: "aStem:aGroup" approval for membership. The group's managers will be notified about requests and can approve them.

Config description. Use this to describe the information in the config

Workflow approvals

```
"stateName" : "groupManager",
"approverManagersOfGroupId" : "ac3f8a62ad4c4e308d80b7ee2b73fcd2"
}, {
"stateName" : "complete",
"actions" : [{
"actionName" : "assignToGroup",
"actionArg0" : "ac3f8a62ad4c4e308d80b7ee2b73fcd2"
}]
}]
```

Config params

```
"params": [ {
  "paramName": "notes",
  "type": "textarea",
  "editableInStates": [ "initiate" ],
  "required": false
}, {
  "paramName": "notesForApprovers",
  "type": "textarea",
  "editableInStates": [ "groupManager" ],
  "required": false
}
```



Json formatted text with maximum 10 params.

Config form

```
Submit this form to be added to this group.<br /><br /> The managers of the group will be notified to
approve this request.<br /><br /> Notes (optional): <textarea rows="4" cols="50" name="notes"
id="notesId"></textarea><br /><br /> Notes for approvers: <textarea rows="4" cols="50"
name="notesForApprovers" id="notesForApproversId"></textarea><br /><br />
```

Group with javascript will enable or disable these form fields, or fill in values, as needed. The form field names need to match the names in the params. The id must match with "Id" appended to the end. If a name or id doesnt exist in the HTML there will be an error

Viewers group id

Group id of people who can view this workflow and instances of this workflow

Send email

If an email should be sent

Workflow enabled



More actions ▾

More ▾

Submit this form to be added to this group.

The managers of the group will be notified to approve this request.

Notes (optional):

Notes for approvers:

Submit

Cancel

Grouper Provisioning in UI

<https://spaces.at.internet2.edu/display/Grouper/Grouper+provisioning+in+UI>

- Configure provisioning in UI
- Configure targets via config file or database config
- Available for Duo connector
- PSPNG in the future

duo

Edit folder

More actions ▾

More ▾

Folder contents

Privileges

More ▾

Folder provisioning settings

Provisioning actions ▾

Target name

duo ▾ *

Target where you want to provision

Type

Yes, has direct provisioning configuration ▾

If this group/folder has provisioning configuration directly assigned

Provision

Yes, provision the object ▾

If this object should be provisioned or not

Folder scope

Only objects directly in this folder ▾

Do these provisioning settings affect objects in this folder and all subfolders (default) or only objects directly in this folder

Save

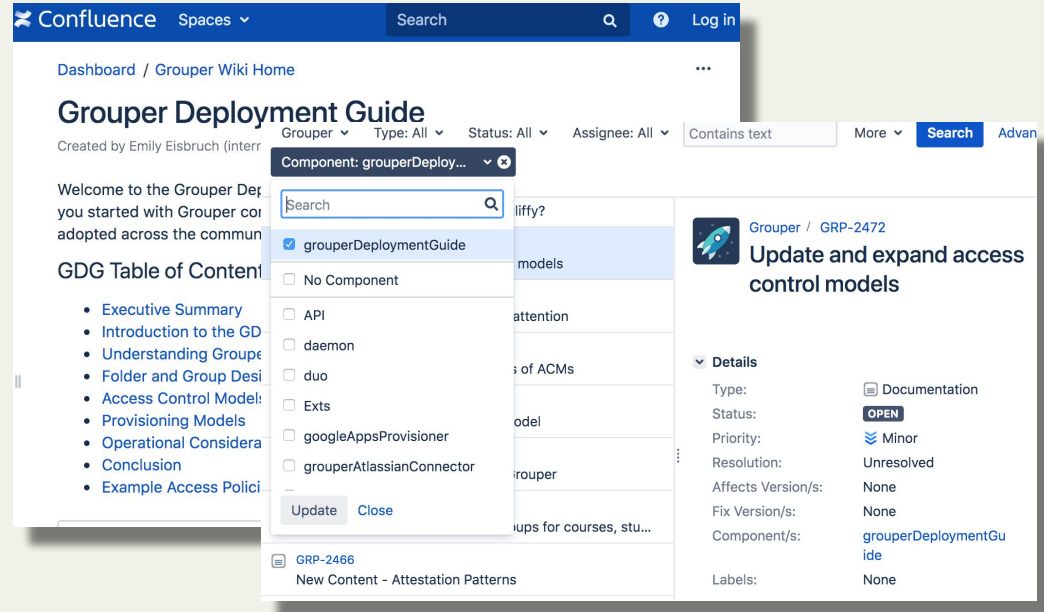
Cancel

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Grouper Deployment Guide - wiki version

- Wiki version
- Updates for current release
- Focus on explanation/context
- Community feedback
- GDG JIRA component
- ACAMP session



<https://spaces.internet2.edu/display/Grouper/Grouper+Deployment+Guide>

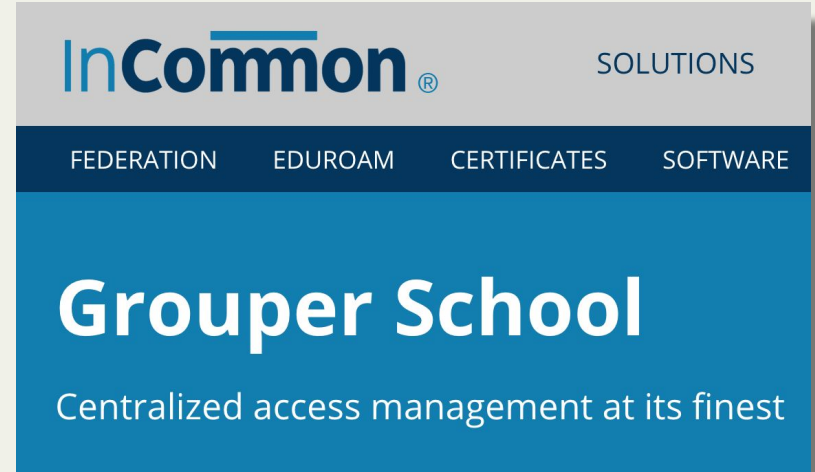
<https://todos.internet2.edu/browse/GRP-2472?jql=project%20%3D%20GRP%20AND%20component%20%3D%20grouperDeploymentGuide>

Grouper School

Grouper Training Environment Updates
Learning modules and docker environments

University of Wisconsin-Madison June 2019
Temple University Nov 2019

Upcoming Grouper School
University of North Carolina at Greensboro in
April 2020.
Minneapolis September 2020



The screenshot shows the InCommon website header with the logo and 'SOLUTIONS' text. Below the header is a navigation bar with links for 'FEDERATION', 'EDUROAM', 'CERTIFICATES', and 'SOFTWARE'. The main content area features the title 'Grouper School' in large white text on a blue background, followed by the subtitle 'Centralized access management at its finest'.

<https://www.incommon.org/academy/grouper/>

DISCUSSION

Additional text as needed

...SINCE THERE IS SO MUCH TIME REMAINING

