Grouper recent memberships / grace periods

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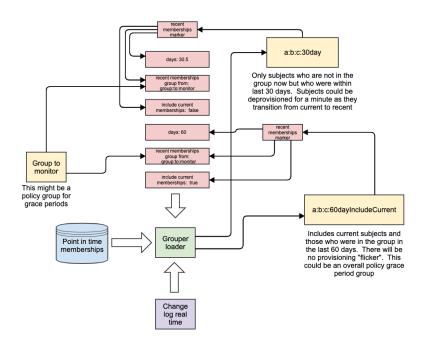
A recent-membership group is a group that contains members who used to be in a certain group a certain number of days ago. You can have multiple recent-membership groups on one group to monitor. (the recentMembershipMarker attribute is assigned to the target group). If a subject is added back to the group to monitor, they will be removed from the recent-membership group. If you want to delegate the ability to assign recent-memberships (by default only admins can do this), just add privileges to the three recentMembership attribute definitions (attr read and attr update).

Note: this feature is based on any type of memberships not just immediate memberships.

If you will have a policy group that includes the eligible group and the grace period (recent-memberships) group, you might want the grace group to include the current memberships. The recent-memberships group could be the overall policy group. Then if the group is provisioned to a system, there will be no "flicker". Flicker is the brief period of time after a subject is removed from the eligible group until it is added to the recent-memberships group (could take a few minutes). If current memberships are included in the recent-memberships group then when a subject is removed from the group to monitor they will be not removed from the recent memberships group (until X days passes).

If you want a grace period group, and you want to know if eligible or in grace, and you don't want flicker, then you need three groups:

- 1. Eligible group (policy without considering grace period)
- 2. Grace period policy group: recent-memberships including current memberships (eligible group)
- 3. Grace period only group: composite of recent-memberships-with-eligible minus eligible).



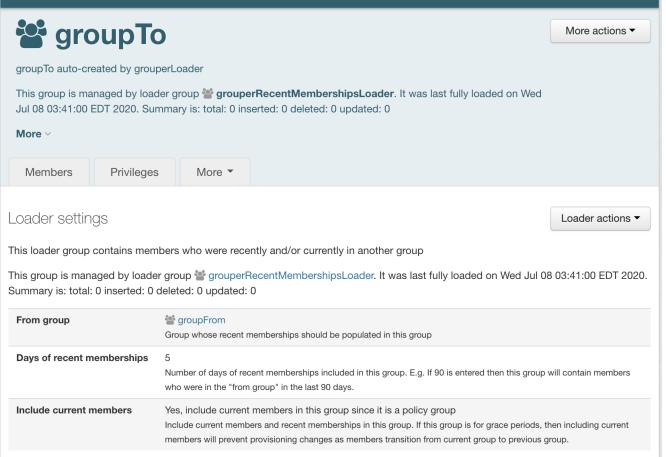
Create a new recent-memberships group

- 1. Create or navigate to the group which holds the recent memberships
- 2. Click on the More Tab Loader, and configure a recent memberships loader

Home → Root → test → groupT	0	
📽 groupTo		More actions -
groupTo auto-created by group	perLoader	
0 1 0 7	ler group ** grouperRecentMembershipsLoader . It was last fully loaded on Wed nmary is: total: 0 inserted: 0 deleted: 0 updated: 0	
More ~		
Members Privileges	More 🔻	
dit loader settings		Loader actions -
Loader	Yes, has loader configuration	
Source type	Recent memberships v * pull members from an existing group's recent memberships	
From group	test:groupFrom *	
	Group whose recent memberships should be populated in this group	
Days of recent memberships	5 Number of days of recent memberships included in this group. E.g. If 90 is entered then this group who were in the "from group" in the last 90 days.	will contain members
Include current members	Yes, include current members in this group since it is a policy group Include current members and recent memberships in this group. If this group is for grace periods, t members will prevent provisioning changes as members transition from current group to previous g	-
	Save Cancel	

- a. Select the "from group"
 b. Select the "days of recent memberships". Note, this can be a decimal
 c. Identify if include current memberships
 3. Wait a minute and if the change log is up to date the recent-memberships group will be created and populated
 4. Nightly loader job will sync things up but it should be up to date in near real time using the change log
 5. Note, if you remove these recent-memberships attributes, the recent-memberships group and members will still be there. You will need to delete the orphaned recent-memberships group

Home > Root > test > groupTo



Configuration

To disabled the loader job edit this in grouper.properties

To edit the change log consumer edit this in grouper-loader.properties

```
# Recent-memberships consumer will update recent-memberships groups as memberships/attributes change
# {valueType: "class", mustExtendClass: "edu.internet2.middleware.grouper.changeLog.ChangeLogConsumerBase"}
changeLog.consumer.recentMemberships.class = edu.internet2.middleware.grouper.changeLog.esb.consumer.EsbConsumer
# recent-memberships runs as change log consumer
# {valueType: "string"}
changeLog.consumer.recentMemberships.quartzCron =
# if this many records happens in one change log session, just do a full loader job
# {valueType: "integer", defaultValue: "100"}
changeLog.consumer.recentMemberships.maxUntilFullSync = 100
# publishing class for recent-memberships
# {valueType: "class", mustExtendClass: "edu.internet2.middleware.grouper.changeLog.esb.consumer.
EsbMessagingPublisher"}
changeLog.consumer.recentMemberships.publisher.class = edu.internet2.middleware.grouper.app.serviceLifecycle.
GrouperRecentMembershipsChangeLogConsumer
```

Internal structures

· Configuration is stored in attributes on the "to" group

🚰 group]	Го		More	e actions -		
groupTo auto-created by gr	rouperLoader					
	loader group * grouperRecentMembers Summary is: total: 0 inserted: 0 deleted: 0		st fully loaded on Wed			
Members Privile	ges More *					
ttribute assignment	s		+ Assign at	tribute		
e tollowing table lists all at	tributes assigned to this group					
e following table lists all at Assignment type	tributes assigned to this group Attribute name	Enabled?	Assignment values	Attrib	ute definition	Choose action
Assignment type		Enabled?	Assignment values		ute definition JerMetadataDef	action
Assignment type	Attribute name		Assignment values	¢ load		Actions
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Assignment type Direct assignment Metadata on assignment	Attribute name & loaderMetadata & grouperLoaderMetadataGroupId	enabled enabled	aebaab14a5724b3caa2736333c	∲ load 1739c06 ⊽ ∲ load ∲ load	derMetadataDef derMetadataValueDef	Actions Actions Actions Actions
Assignment type Direct assignment Metadata on assignment Metadata on assignment	Attribute name © loaderMetadata © grouperLoaderMetadataGroupId © grouperLoaderMetadatLastFullMillisSin	enabled enabled ace1970 enabled	aebaab14a5724b3caa2736333c 1594194060098 👻	 ♦ load 1739c06 ♥ ♦ load ♦ load ♦ load ♦ load 	derMetadataDef derMetadataValueDef derMetadataValueDef	action Actions Actions Actions
Assignment type Virect assignment Metadata on assignment Metadata on assignment Metadata on assignment	Attribute name © loaderMetadata © grouperLoaderMetadataGroup/d © grouperLoaderMetadataLastFullMillisSin © grouperLoaderMetadataLastSummary	enabled enabled nce1970 enabled enabled	aebaab14a5724b3caa2736333c 1594194060098 💌 total: 0 inserted: 0 deleted: 0 up	 ♦ load 1739c06 ≠ ♦ load ♦ load ♦ load ♦ load ♦ load ♦ load 	der MetadataDef Jer MetadataValueDef der MetadataValueDef Jer MetadataValueDef	action Actions Actions Actions Actions Actions
Assignment type Virect assignment Metadata on assignment Metadata on assignment Metadata on assignment	Attribute name of loaderMetadata of grouperLoaderMetadataGroupId of grouperLoaderMetadataLastFullMillisSin of grouperLoaderMetadataLastSummary of grouperLoaderMetadataLoaded	enabled enabled enabled enabled enabled	aebaab14a5724b3caa2736333c 1594194060098 💌 total: 0 inserted: 0 deleted: 0 up	 ⇔ load 1739c06 ≠ ⇔ load ⇔ load ⇔ load ⇔ load ⇔ load ⇒ load ⇒ load ⊕ load ⊕ grout ⇒ grout	JerMetadataDef JerMetadataValueDef JerMetadataValueDef JerMetadataValueDef JerMetadataValueDef	action Actions Actions Actions Actions Actions Actions
Assignment type Direct assignment Metadata on assignment Metadata on assignment Metadata on assignment Direct assignment	Attribute name 0% loader/Metadata 0% grouperLoader/MetadataGroupid 0% grouperLoader/MetadataLastFullMillisSin 0% grouperLoader/MetadataLastSummary 0% grouperLoader/MetadataLastSummary 0% grouperLoader/MetadataLoaded 0% grouperRecent/MembershipsMarker	enabled enabled enabled enabled enabled From enabled	aebaab14a5724b3caa2736333c 1594194060098 \$ total: 0 inserted: 0 deleted: 0 up true \$	 ☆ load ☆ groud d27e13 v \$ \$ groud 	JerMetadataDef JerMetadataValueDef JerMetadataValueDef JerMetadataValueDef JerMetadataValueDef JerMetadataValueDef uperRecentMembershipsMarkerDef	Choose action Actions Actions Actions Actions Actions Actions Actions Actions

 In order to make the loader query more efficient and simpler to troubleshoot, a view consolidates the attributes into one simple place to get recent membership configuration

s	select * from grouper_rece	ent_mships_conf_v;			
	A V			0	
				select * from g select * from	
	Rows 1; select * fr	om grouper_recent_mships_conf_v;			Select Positio
			Results Meta data	Info Overview / Charts Rota	ted table Results as text
	group_name_from	group_uuid_from	recent_micros	group_uuid_to	group_name 😚 include_eligible
	test:groupFrom	e8c7f3b3020243159a98c58301d27e13	43200000000	94329c81369f44168340c97b98aa	86a8 test:groupTo T

· This is synced to a table for performance reasons

			<u>_</u>			
		select * from	g select * from g select * from	1 g		
ows 1; select * from grouper_	recent_mships_conf				Selected R Position: F	tows: 0, Cols: 0 Row: , Col:
ows 1; select * from grouper_	recent_mships_conf	Results Meta data Info	Overview / Charts Rotated tabl	e Results as text		
ows 1; select * from grouper_ group_uuid_to	recent_mships_conf group_name_to	Results Meta data Info	Overview / Charts Rotated tabl			

• The grouper_time table is consulted to make this database agnostic

				se	elect * from g
Rows 1; se	lect * from group	er_time;			
			(Results	Meta data
time_label	the_utc_timestamp	this_tz_timestamp	utc_millis_since_1970	utc_micr	os_since_1970

· A view on that table the PIT view will show the memberships to be loaded

<pre>select * from grouper_recent_mships_load_v;)</pre>					
A 7			0		
	select * from g	select * from g	select * from g	select * from g	select * from g
Rows 0; select * from grouper_recent_mships_load_v;					
	Results Meta	a data Info	Overview / Charts	Rotated table	Results as text
group_name	subject_source_id			subject_id	

Script a recent membership group

Just change the first 4 params and it will do the rest

```
String groupName = "ref:employee60dayNotIncludeCurrent";
String sourceGroupName = "ref:employee";
boolean includeCurrent = false;
int numberOfDays = 60;
GrouperSession grouperSession = GrouperSession.startRootSession();
Group destinationGroup = new GroupSave(grouperSession).assignName(groupName).assignCreateParentStemsIfNotExist
(true).save();
Group sourceGroup = GroupFinder.findByName(grouperSession, sourceGroupName, true);
long numberOfMicros = numberOfDays*24*60L*60*1000*1000L;
AttributeAssign attributeAssign = destinationGroup.getAttributeDelegate().assignAttributeByName("etc:attribute:
recentMemberships:grouperRecentMembershipsMarker").getAttributeAssign();
attributeAssign.getAttributeValueDelegate().assignValueString("etc:attribute:recentMemberships:
grouperRecentMembershipsGroupUuidFrom", sourceGroup.getId());
attributeAssign.getAttributeValueDelegate().assignValueString("etc:attribute:recentMemberships:
grouperRecentMembershipsIncludeCurrent", includeCurrent ? "T" : "F");
attributeAssign.getAttributeValueDelegate().assignValueInteger("etc:attribute:recentMemberships:
grouperRecentMembershipsMicros", numberOfMicros);
```

See Also

Grouper Deprovisioning