Grouper attestation

Wiki	Grouper Release	Grouper	Grouper Deployment	Community	Internal Developer
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Grouper attestation means marking a group or folder so that owners must review the membership list periodically. This is useful in ad hoc groups where deprovisioning is not automatic. Owners will be reminded by email to review the memberships. After reviewing the memberships, the group owner will click a button on the group indicating that it has been reviewed.

Attestation is available in a Grouper 2.3 patch and in Grouper 2.4 and above.

Note after installing the patches you should run from GSH:

loaderRunOneJob("OTHER_JOB_attestationDaemon");

Child pages:

- Grouper attestation audit log
- Grouper attestation edit settings
- Grouper attestation folder level folders and groups with settings
- Grouper attestation folder level groups that need attestation
- Grouper attestation global folders and groups with settings
- Grouper attestation global groups that need attestation
- Grouper attestation testing
- Grouper attestation view settings
- Grouper automatic membership removal if not attested

Outline:

- · Attest a group as reviewed
- Attestation menu
- Privileges
- Daemon
- Clear last reviewed date
- View folder attestation
- View all attestable groups
- Emails
- Configure for first time use
- Attributes
- Design
- Future scope
- See Also

Attest a group as reviewed

When a group needs it memberships reviewed (either initially or when the attestation period has elapsed), you can attest the group on the membership screen or on the attestation screen

On the membership screen you will see a note and a button:

Home ⇒ Root ⇒ testA ⇒ stemA	> groupAB	
📽 groupAE	3	+ Add members
		More actions -
Member name or ID:		
	Enter an entity name or ID, or <u>search for an entity</u> .	
Assign these privileges:	Obefault privileges	
	Add or import a list of members .	
More ~		
Members Privileges	More •	
The following table lists	all entities which are members of this group.	
The following table lists	all entities which are members of this group.	
Attention: this group's r	memberships need to be attested now. Mark group as review	ved
Filter for: All members	Member name Apply fill	er Reset
Remove selected members		
Entity name -	Membership	Choose action
my name is test.subject.0	Direct	Actions -
🔲 🔺 my name is test.subject.1	Direct	Actions -
Show: 50	Showing 1-2 of 2	First Prev Next Last

If you are on the attestation screen, you will see a menu item Attestation actions Attest group as reviewed

Home ⇒ Root ⇒ testA ⇒	stemA > groupAB	
📽 group	DAB	More actions -
More ~		
Members Priv	vileges More 🔻	
Group attestation	I	Attestation actions 🔻
This group has attestatior	n configured on ancestor folder 🖿 stemA	View attestation settings Edit attestation settings
Has attestation	Yes, attestation is enabled If configured to be attested. It is possible that attestation is configured to be off.	Clear last reviewed date
Attestation status	Overdue, this group's memberships need to be reviewed	Attest group as reviewed
Allestation status	If this group's memberships need to be reviewed	View folder attestation
Last date certified	Last date this group's memberships were reviewed and marked as certified	Run attestation daemon View audit log View all attestable groups
Date needs recertify	2017/10/29 Date this group needs to be recertified	view an accessable groups
Days left until recertify	0	

Attestation menu

You will notice a new menu item Attestation in the More actions dropdown for groups and folders as shown in the screenshots:

NTERNET.			Search	n Q
A I DA N E Is			Logged in as G	irouperSysAdmin · Log o
•				
+ Create new gro	oup -	Home → Root → scim		
Quick links	_	🖿 scim		Edit folder
				More actions-
My groups My folders		More ~		Add to my favorites
My favorites		Folder contents Privileges More -		
My services				Create new folder
My activity		Filter for: Folder, group, or attribute name Apply filter Reset		Create new group
Miscellaneous				Copy folder
Admin UI		Name 🕶		Delete folder
Lite UI		▲ Up one folder		Edit folder
Browse folders	3	Test Group1		Move folder
D. J.		Show: 50 \$	Showing 1-1	Attestation
Root Image: I	ForBuiltinObjec	-		View audit log
 airavata 	orbuiltinobjec			
🖃 🧰 aStem				
📧 🗀 attributeDefs				
📧 🧰 etc				
📧 🗀 PermissionStem				
🖃 🗁 scim				
Test Group1 8085/grouper/grouperUi/a		dex?operation=UiV2Group.viewGroup&groupId=71d534389a8b46a58b13d82		
Test Group1 8085/grouper/grouperUi/a	🛅 cj 🗋 Vivan	dex?operation=UIV2Group.viewGroup&groupId=71d534389a8b46a58b13d82 Tech Wiki ֎ Base64 Online - ba ● Windows Tip — Mat I Appropriate Uses F ≣ Home > Hoot > som > test Group1		
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Privileges

If you are a Grouper admin or if you have UPDATE or ADMIN privileges on a group, you can edit attestation.

If you can edit attestation or if you have READ on a group, you can READ the attestation.

NOTE: you dont need privileges on the attributes that configure the attestation.

To run the daemon you need to be a Grouper admin

Daemon

There is a cron job which runs everyday (by default) in the Grouper daemon and it sends reminder emails to people configured in attestationEmailAddresses attribute or if there is no email address in that attribute, it picks up the emails from subject source email property of admins for the group. If no emails are found there either, then the job logs an error and move on to the next element. Note that the job doesn't send multiple emails to the same person on the same day even if you configure the cron to run the job multiple times on the same day.

attestationDaysBeforeToRemind attribute controls how many days before the current attestation expires, we are going to start sending emails. Or there is a default configured (default is 180 days)

Run daemon from UI: (you would only do this occasionally or for testing). There is a menu item for grouper admins to be able to kick off the daemon

Home > Root > testA > sten	nA → groupAB	
📽 groupA	B	More actions 🗸
More ~		
Members Privilege	es More -	
Group attestation		Attestation actions 🔻
This group has attestation conf	figured on ancestor folder 🖿 stemA	View attestation settings Edit attestation settings
	Yes, attestation is enabled If configured to be attested. It is possible that attestation is configured to be off.	Clear last reviewed date Attest group as reviewed
	Overdue, this group's memberships need to be reviewed If this group's memberships need to be reviewed	View folder attestation
Last date certified	Last date this group's memberships were reviewed and marked as certified	Run attestation daemon View audit log View all attestable groups
	2017/10/29 Date this group needs to be recertified	view all allestable groups

Run daemon from GSH:

loaderRunOneJob("OTHER_JOB_attestationDaemon");

Clear last reviewed date

If you want to mark a group to be reviewed again, you can "clear last reviewed date". While on the attestation screen for a group, click "Attestation actions Clear last reviewed date"

Home ⇒ Root ⇒ testA ⇒ st	emA > groupAA	
📽 group	AA	More actions •
More ~ Members Privile	ges More -	
Group attestation		Attestation actions -
his group has attestation co	onfigured directly on this group	View attestation settings Edit attestation settings
Has attestation	Yes, attestation is enabled If configured to be attested. It is possible that attestation is configured to be off.	Clear last reviewed date
Attestation status	OK, this group's memberships do not need to be reviewed If this group's memberships need to be reviewed	Attest group as reviewed View folder attestation
Last date certified	2017/10/29 Last date this group's memberships were reviewed and marked as certified	Run attestation daemon View audit log
Date needs recertify	2018/04/27 Date this group needs to be recertified	View all attestable groups
Days left until recertify	180 Number of days left before this group needs to be recertified. 0 means overdue. This is which runs nightly.	s computed by the attestation daemon
Last emailed date	The most recent date that group admins were emailed to ask them to review this group	o's memberships
Send email	No, do not send email alerts If email alerts should be sent out to people who need to review the membership	
Use default recertify days	Yes, use default recertify days (180 days) Use the system wide default of 180 days for recertification	

View folder attestation

If a group inherits its attestation settings from an ancestor folder, there is a link from the group attestation menu: Attestation actions View folder attestation

Home > Root > testA	> stemA > groupAB	
📽 grou	рАВ	More actions •
More ~		
Members Pr	ivileges More -	
Group attestatio	n	Attestation actions -
his group has attestatic	on configured on ancestor folder 🖿 stemA	View attestation settings Edit attestation settings
Has attestation	Yes, attestation is enabled If configured to be attested. It is possible that attestation is configured to be off.	Clear last reviewed date Attest group as reviewed
Attestation status	Overdue, this group's memberships need to be reviewed If this group's memberships need to be reviewed	View folder attestation
Last date certified	Last date this group's memberships were reviewed and marked as certified	Run attestation daemon View audit log
Date needs recertify	2017/10/29 Date this group needs to be recertified	View all attestable groups

View all attestable groups

If you are in the folder or group "Attestation actions" menu, you can "View all attestable groups". This will go to the global view all attestable groups screen, that need attestation

Emails

- Daemon runs daily (via cron) and look for groups which have not been attested. Should group by email address. Send each user who get an email their own email with a list of groups and linked to be attested. Remind the user about clicking the button saying it is certified.
- Email logic: Take each email to each user (by email address), and only send one email to that user. If there are more than 100 (configured in
 grouper.properties) attestations, just show 100 in the message but say there are 5432 others so email isn't too big. Also, add at the bottom of
 each message who was CC'ed since you email will be sent directly to a person.

e.g.

school:groupA needs attestation: emails to: jsmith@school.edu, and bgreen@school.edu

school:groupB needs attestation: emails to: jsmith@school.edu, and kwilson@school.edu

send 3 emails:

FIRST EMAIL: To jsmith@school.edu

Subject: you have 2 grouper groups that require attestation.

Body:

You need to attest the memberships of the following groups:

1. 1. school:groupA (cc'd bgreen@school.edu)

<link to membership>

1. 2. school:groupB (cc'd kwilson@school.edu)

<link to membership>

SECOND EMAIL: To bgreen@school.edu

Subject: you have 1 grouper groups that require attestation.

Body:

You need to attest the memberships of the following groups:

1. 1. school:groupA (cc'd jsmith@school.edu)

<link to membership>

THIRD EMAIL: To kwilson@school.edu

Subject: you have 1 grouper groups that require attestation.

Body:

You need to attest the memberships of the following groups:

1. 1. school:groupB (cc'd jsmith@school.edu)

<link to membership>

Configure for first time use

Set this in grouper.properties

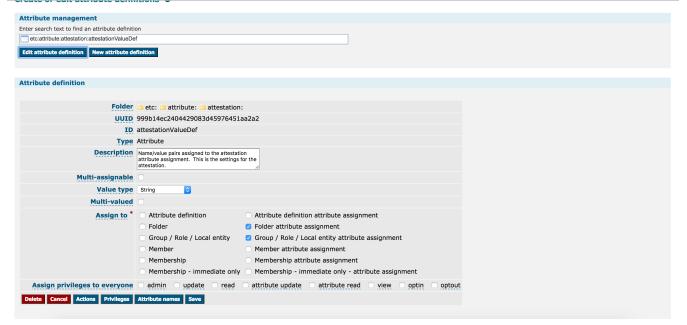
```
#put the URL which will be used e.g. in emails to users. include the webappname at the end, and nothing after
that.
#e.g. https://server.school.edu/grouper/
grouper.ui.url = http://localhost:8088/grouper/
#smtp server is a domain name or dns name. set to "testing" if you want to log instead of send (e.g. for
testing)
mail.smtp.server = localhost
#this is the default email address where mail from grouper will come from
mail.smtp.from.address = noreply@school.edu
# OPTIONAL FOR ATTESTION, WILL BE BLANK IN PROD
#this is the subject prefix of emails, which will help differentiate prod vs test vs dev etc
mail.smtp.subject.prefix = DEV:
```

Note, might want to leave these as defaults. grouper.properties

Configure in grouper-loader.properties (these are the defaults)

Attributes

At the start up time, attestationDef and attestationValueDef attribute definitions will be added to the system as shown in the screenshots.



	Attribute management			
Edit attribute definition Edit attribute definition Edit attribute definition Edit attribute definition Folder etc: attribute: attestation: UUID 9a5e1e929588426d8f9ca3ad2b949da1 D attestationDef Type Attribute Description Assign the attestation attribute to a folder or periodically. Multi-assignable Value type No value		ion		
Attribute definition Folder etc: attribute: attestation: UUID 945e1e929588426d8f9ca3ad2b949da1 Description attestationDef Type Attribute Description Assignable Multi-assignable No value Assign: to Attribute definition Attribute definition attribute assignment Group / Role / Local entity attribute assignment Group / Role / Local entity attribute assignment	etc:attribute:attestation:attestationDef			
Folder etc: attribute: attestation: UUID 9a5e1e929588426d8f9ca3ad2b949da1 ID attestationDef Type Attribute Description Assign to attestation attribute to a folder or productally. Multi-assignable No value Value type No value Multi-valued Attribute definition Assign to Attribute definition Sign to Attribute definition Sign to Attribute definition © Group / Role / Local entity Group / Role / Local entity attribute assignment	Edit attribute definition New attribute d	efinition		
UUID 9a5e1e929588426d8f9ca3ad2b949da1 ID attestationDef Type Attribute Description Assign the attestation attribute to a folder or periodically. Multi-assignable No value Multi-valued Image: Composition of the periodically. Assign to Attribute definition Assign to Attribute definition Sign to Other and the periodical	Attribute definition			
ID attestationDef Type Attribute Description Assignable Value type No value Kulti-valued Kulti-	Folder	😑 etc: 🗀 attribute: 🗀 attestation		
Type Attribute Description Assign the attestation attribute to a folder or group to require group(s) to be reviewed Multi-assignable Image: State of the state o	UUID	9a5e1e929588426d8f9ca3ad2b94	9da1	
Description Assign the attestation attribute to a folder or group to require group(s) to be reviewed Multi-assignable • Value type No value • Multi-valued • • Multi-valued • • Ó Folder • • © Folder • • © Group / Role / Local entity • •	ID	attestationDef		
group to require group(s) to be reviewed multi-assignable Value type No value Multi-valued Multi-valued Composition Attribute definition Folder Folder Folder Folder Folder Group / Role / Local entity Group / Role / Local entity	Туре	Attribute		
Value type No value Multi-valued Assign to Attribute definition Value type Attribute definition Or provide the type Folder Folder Folder attribute assignment Or or provide the type Group / Role / Local entity	Description	group to require group(s) to be reviewed		
Multi-valued Attribute definition Attribute definition attribute assignment Ø Folder Folder attribute assignment Ø Group / Role / Local entity Group / Role / Local entity attribute assignment	Multi-assignable			
Assign to Attribute definition Attribute definition attribute assignment Image: Complex	Value type	No value		
Folder Folder attribute assignment Group / Role / Local entity Group / Role / Local entity attribute assignment	Multi-valued			
Image: Construction of the system of the	Assign to *	Attribute definition	Attribute definition attribute assignment	
			Folder attribute assignment	
Member Member attribute assignment		🗹 Group / Role / Local entity	Group / Role / Local entity attribute assignment	
		Member	Member attribute assignment	
Membership Membership attribute assignment		Membership	 Membership attribute assignment 	
Membership - immediate only Membership - immediate only - attribute assignment		Membership - immediate only	Membership - immediate only - attribute assignment	
Assign privileges to everyone 🗌 admin 🔹 update 📄 read 📄 attribute update 📄 attribute read 📄 view 📄 optin 📄 optout	Assign privileges to everyone	admin update read	attribute update attribute read view optin	optout

Design

- Attributes on folders, groups: (two attributeDefs) (note, autocreate these attributeDefs and attributeNames on startup)
 Note, edit these in the Grouper UI, do not edit them by hand
 - attestation (main flag, other attributes assigned to this assignment, no value, single assign)
 - attestationDirectAssignment (true | false) (on group only) default to false. If true then dont look at a folder for attestation attributes
 - attestationHasAttestation (true | false) (on groups and folders). If true then this group or folder has attestation assigned. On groups then it is directly or indirectly assigned. If on a folder, then it is directly assigned. i.e. if a folder doesnt have this, it doesnt mean that there isnt attestation inherited from a parent folder.
 - attestationSendEmail (String, true | false) default to true if not set
 - attestationEmailAddresses (String) comma separated email addresses to send reminders to. If not set, then get email addresses from list of Admins and Read/Update users. Note, we need a param (in the source) of which subject attribute is the email attribute. If none sent, log error, need either emails here or emails from admins
 - attestationDaysUntilRecertify (String) integer number of days until need to recertify from last certification. Can have a default in grouper.properties if not set. (180?)
 - attestationLastEmailedDate (String)(on group only) yyyy/mm/dd date that this was last emailed so multiple emails dont go out on same day
 - attestationDaysBeforeToRemind (String) Integer number of days before attestation to start sending emails about it.
 - attestationStemScope (String) one|sub (for folders only, scope one level or all levels). Default to all levels.
 - attestationDateCertified (String) (on group only) yyyy/mm/dd is the last date certified for this group. (only for groups, not stems)

Future scope

° If attestation is not done in a certain amount of time, disable the memberships or group somehow

See Also

Presentation from Duke on Paranoid IAM, page 20