

v4 Upgrade instructions from v4

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When upgrading from Grouper v4 to another v4 container, this wiki will consolidate all the steps needed to perform that upgrade.

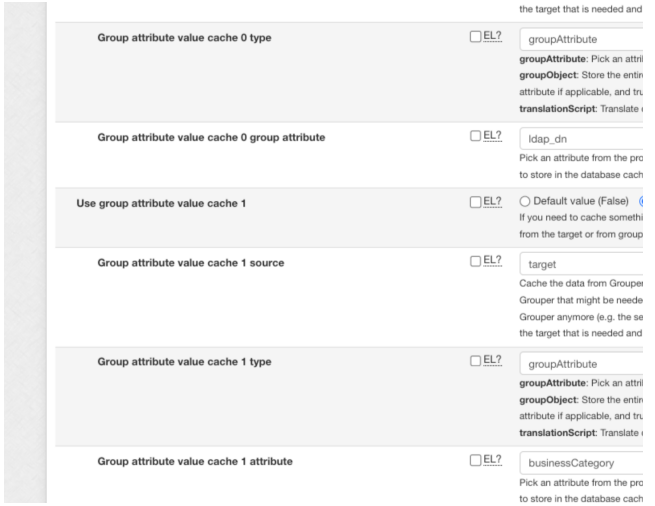
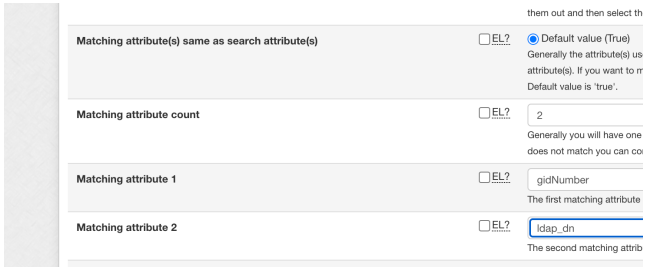
 See information on [Grouper Versioning here](#)

Note, these are in reverse order, so go from bottom to top

Date	Upgrading from version	Upgrading to Version	Note for version	Importance	Jira	Step needed if...	Description
2024/03 /19	ALL	ALL	4.12.0	Not important	GRP-5379	You run Grouper	Tomcat was upgraded, make sure any tomcat things work in UI/WS, including logs, SSL, a
2024/03 /10	ALL	ALL	4.11.0	Medium important	GRP-5312	If you use the provisioning framework and have too much memory allocated to your daemon	Try bumping down your daemon memory to 16g (16g in container and 13g heap) and see Or if you had more than 32g, try 32g container and 28g heap.
2024/03 /03	ALL	ALL	4.11.1	Not important	GRP-5268	You run Grouper and use the daemon screen	Note that the change log temp daemon and composite change log consumer run continuou If you want to see progress show subjobs (checkbox is default checked in v5)
2024/03 /03	ALL	ALL	4.11.1	Not important	GRP-5340	You run Grouper and have any rules	Periodically look at your rules, delete invalid ones if they should be deleted.
2024/02 /27	4.10.3	ALL	4.11.0	Medium important	GRP-5310	You use self signed certs for tomcat	See Jira and adjust env vars
2024/02 /27	ALL	ALL	4.11.0	Medium important	GRP-5302	If you use Grouper	If your grouper credential cannot do DDL, see the Jira and run the DDL manually. Otherwise, after the OTHER_JOB_upgradeTasks job runs, the DDL will be added. Look a no issues adding the DDL.
2024/01 /01	ALL	ALL	4.10.2	Medium important	GRP-5228	If you expect tomcat access logs to be in /tmp (previous default), they are not in /opt /grouper /logs	Set this variable: GROUPER_TOMCAT_LOG_ACCESS_DIRECTORY=/tmp

2023/12/27	ALL	ALL	4.10.0	Medium important	GRP-5218	<p>If you set this in grouper.properties</p> <pre>grouper.json.serialize.deserialize.useLegacy = true</pre>	Remove it
2023/12/27	ALL	ALL	4.9.3	Medium important	GRP-5170	<p>If you patched GSH templates in 4.9.0 or 4.9.1</p>	Remove the patch
2023/12/27	ALL	ALL	4.10.0	Medium important	GRP-5195	<p>If you use Grouper</p>	<p>If you have extra indexes on grouper_loader_log, you can remove them.</p> <p>If your DB credential cannot do DDL then add indexes manually from Jira</p> <p>Otherwise, after the OTHER_JOB_upgradeTasks job runs, the DDL will be added. Look at no issues adding the DDL.</p>
2023/11/26	ALL	ALL	4.7.0	Medium important		<p>If you have a MidPoint provisioner and do not have foreign keys with cascade delete</p>	Either drop the MidPoint tables and use the new DDL , or add cascade delete to the foreign tables
2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5130	<p>If you use the zoom provisioner / loader</p>	<p>A 3rd party library was updated for security, test your integration. Note set this explicitly in grouper-loader.properties, the default will change from true to false.</p> <pre># if reactivating users, this will assign a license zoom.myConfigId.licenseReactivatedUsers</pre>
2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5139	<p>If you use the OIDC for UI/WS authentication</p>	A 3rd party library was updated for security, test your authentication
2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5140	<p>If you use the legacy (non provisioning framework) box provisioner</p>	A 3rd party library was updated for security, test your provisioner or upgrade to the provisioning framework
2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5141	<p>If you use the legacy (non provisioning framework) google apps provisioner</p>	A 3rd party library was updated for security, test your provisioner or upgrade to the provisioning framework
2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5142	<p>If you use Grouper</p>	<p>JSON marshalling changed to be higher performance and less likely to leak memory. You can use this in grouper.properties to revert to old if you have an issue:</p> <pre>grouper.json.serialize.deserialize.useLegacy = true</pre> <p>Report any issues you have if you have to revert</p>

2023/11/20	ALL	ALL	4.9.0	Medium important	GRP-5082	<p>If you LDAP loaders of type: list of groups from attributes, and grouper-loader. properties:</p> <pre>loader.ldap.requireTopologyStemFromConfigGroup = true or default</pre>	<p>You can now specify any stems to be the top stem, or you can use a stem near the loader configured group. After upgrading, run the diagnostics or full sync on your loader and make sure the destination stays the same and does not change. Might want to temporarily remove the SQL like string if applicable so the existing groups do not get deleted.</p>
2023/11/04	v2.5.0-v2.5.68, v4.0.0-v4.7.2	ALL	4.8.0	Not important	GRP-5107	<p>If you were affected by the authentication bypass vulnerability and installed the remediation</p>	<p>You can safely remove the remediation</p>
2023/10/04	ALL	ALL	4.7.0	Important	GRP-4946	<p>If you use provisioning</p>	<p>If you provision based on attribute (e.g. netId or eppn), and the provisioner cannot work if it null, and some subjects don't have that attribute, and you don't want it to raise an error (even if ignored), then configure the provisioner attribute to not provision the object if the attribute (under validation settings... see the jira)</p>
2023/10/04	ALL	ALL	4.7.0	Important	GRP-5005	<p>If you want database connection pool size to differ based on UI/WS/daemon (e.g. if you have problems with daemon performance or reliability)</p>	<p>You can set the env var in container for DB pool size: GROUPEE_DATABASE_CONNECTION_POOL_SIZE</p> <p>You can allow the daemon to use more connections than UI/WS. For instance, the daemon twice the pool size as a UI/WS. Do some math based on how many connections your DE has many nodes of each type you have.</p> <p>For instance, if you have 500 connections max at DB, and 2 daemon, 2 ui, and 2 ws, might daemon to be 110, and ui/ws to be 55.</p>
2023/09/08	ALL	ALL	4.6.0	Important	GRP-4932	<p>If you have SSL certs in /etc/pki/java/cacerts (if your SSL if not in trusted roots)</p>	<p>You can be doing one of three things with SSL certs:</p> <ol style="list-style-type: none"> Putting them in the container in /etc/pki/java/cacerts <ul style="list-style-type: none"> a. You need to switch to method #2 or #3 (either #2 or #3 is preferred, #2 is best store (not preferred)) Putting them in /opt/grouper/certs/client <ul style="list-style-type: none"> a. This requires no change Putting them in \$JAVA_HOME/lib/security/cacerts <ul style="list-style-type: none"> a. This is not common, but requires no change <p>Test anything that uses certs added to Java after upgrade (e.g. connections to SQL, LDAP)</p>
2023/07/25	ALL	ALL	4.5.0	Not important	GRP-4843	<p>You use GSH templates</p>	<p>If you want a run button from the misc GSH template screen, edit the template and pick the</p>
2023/07/04	ALL	ALL	4.4.0	Not important	GRP-4816	<p>You use SQL sync</p>	<p>Multiple source records with same key in SQL sync will cause daemon error (you can confi</p>
2023/06/27	ALL	ALL	4.4.0, 4.3.0	Important	GRP-4803	<p>You customize any tomcat config files</p>	<p>The tomcat version changed so make sure any patches or edits or overrides to the tomcat</p>

2023/06/27	ALL	ALL	4.3.0	Important	GRP-4805	You use a box external system with a proxy and not default port	Set the proxy URL in the external system instead of the host and port
2023/06/06	ALL	ALL	4.2.0	Important	GRP-4768	You use Grouper	<p>If your database can support 500 connections for each node in your env, then you do not r Otherwise, increase the number of connections your database can support, or change the (used to be 100). Note that file is in the container and cannot be changed dynamically</p> <pre>hibernate.c3p0.max_size = 500</pre>
2023/05/05	ALL	ALL	4.1.6	Medium important	GRP-4694	You use Grouper	Upgrade the grouper_memberships_lw_v (manually). Note this is for performance, so this
2023/04/26	ALL	ALL	4.1.4	Not important	GRP-4610	If you do not want diagnostics to fail for a day	Run the daemons: syncAllPitTables, syncAllSetTables
2023/03/26	ALL	4.1.1 or older	4.1.2	Important	GRP-4679	If you lock down UI configuration to ipv6 without a mask, or multiple ipv6 comma separated	Will work in 4.1.2+. Before this version, use one network and use a net mask. Or use ipv4
2023/03/26	ALL	ALL	4.1.1	Important	GRP-4657	If you have provisioners	<p>In order to help with renames, and delete/create same provisionable grouper object:</p> <p>For entities and groups, you should probably cache your search/match attribute in addition id for web service)</p>  <p>For entities and groups, you should add a second search/match attribute for the "link" attrit</p> 
2023/03/26	ALL	ALL	4.1.1	Not important	GRP-4625	If you want auto-ddl configured correctly	This is not necessary, but if you set auto-ddl in grouper.hibernate.properties to 4.999.999 f *.*

2023/03/26	ALL	ALL	4.1.1	Not important	GRP-4633	If you want the previous default behavior where all users will see some attributes in etc folder	Reconfigure if you want the previous behavior. Recommended not to do this. You should those attributes for power users only
2023/03/13	ALL	ALL	4.0.3	Important		If you reference cacerts or other trust store files or folders in your Dockerfile or configuration (e.g. rabbitmq external system)	<p>If you reference cacerts or other trust store files or folders, the path changed in java17, if y</p> <pre>xxx/jre/lib/security/xxx</pre> <p>Change it to</p> <pre>xxx/lib/security/xxx</pre>
2023/03/13	ALL	4.0.3- only	4.0.1	Important		If you have auto ddl configured in grouper. hibernate. properties	<p>Note, do not change this if upgrading to 4.1.0+</p> <p>Change auto DDL to</p> <pre>4.*.* (4.0.4+) or 4.9999.9999 (4.0.1)</pre>
2023/03/10	ALL	ALL	4.0.1	Not important	GRP-4619	If you have a provisioner translation that checks for nulls in a ternary operator, e. g.	Reconfigure to check for nulls per jira
						<pre>{gr oupe rPro visi onin gGro up ? x :y}</pre>	
2023/03/01	ALL	ALL	4.0.1	Important			Check your derived image build and make sure it works with Rocky linux. It is intended to
2023/03/01	ALL	ALL	4.0.1	Important		You have a subimage or scripts that use the tomee directory	<p>GRP-4567: either make a symlink from /opt/tomcat to /opt/tomee, or change your scripts to</p> <p>Change ENV container vars from TOMEe to TOMCAT</p>
2023/03/01	ALL	ALL	4.0.1	Important		You have a custom provisioner	The API and capabilities changed slightly, please discuss with Chris on slack
2023/03/01	ALL	ALL	4.0.1	Not important		You use the legacy SCIM WS (not provisioning !)	This has been rewritten and needs to be adjusted from clients. We are not aware of anyor
2023/04/28	ALL	ALL	4.0.1	Important		You mount the log directory to the container or use uids and gids somewhere from the container	The tomcat user uid in the container is 996 (was 998), and the group is now 994 (was 997) adjust permissions

2024/01/19	ALL	ALL	4.0.1	Important		You use kerberos for WS authn	<div>Java 17 has stricter encryption types. If authentication is having issues you might either ne credentials to a newer encryption type, or allow old encryption types in the /etc/krb5.conf. .</div> <div><pre>allow_weak_crypto = true permitted_enctypes = aes256-cts-hmac-sha1-96 aes128-cbc-sha1 default_tkt_enctypes = aes256-cts-hmac-sha1-96 aes12cbc-sha1 default_tgs_enctypes = aes256-cts-hmac-sha1-96 aes12cbc-sha1</pre></div>
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