

GWAVA Inc.

GWAVA® Retain™

For GroupWise®

Upgrade Guide

From version 1.x to 2.0

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If you have a technical support question, please consult the GWAVA Technical Support section of our website at www.gwava.com.

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Intended Audience

This manual is intended for IT administrators in their use of Retain for GroupWise or anyone wanting to learn more about Retain for GroupWise. It includes installation instructions and feature descriptions.

Organization

The guide is organized into two sections, Overview and Installation. The Overview section covers all the basic information needed to plan where to implement and install the different parts of Retain in your System. The Installation section briefly goes over the necessary steps to install Retain.

General use and management of Retain is covered in the User's Guide, please read that guide for setup and configuration steps and information.

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Upgrade Information

Maintaining the integrity of archived mail is necessary for existing Retain systems, and Retain 2.0 has a migration utility to facilitate with the upgrade. The upgrade itself is fairly simple, though there are several steps that must be completed for Retain 2.0 to function correctly because essential elements of Retain have been moved or updated. The two major changes are:

- Retain configuration database
- Indexing and searching engine

Configuration Database

Retain 2.0 uses a different license than Retain 1.x. Obtain a Retain 2 license from a sales representative to avoid service interruptions. There is a 30 day grace period.

Retain 2.0 has changed the location of the Retain configuration database. In Retain 1.x the configuration database was located in an integrated Derby database. Retain 2.0 moves the configuration to the existing Retain storage database. As with the original database, the configuration database must be accessible to the Retain Server on startup, so quick and reliable network connection is inherently important. Recommendations and administration for the storage server and database have not changed, (dependable and fast network connection, backups, and customer management).

Exalead

Retain now includes the option to install an extremely robust indexing engine for larger systems. Exalead can index massive amounts of data and is recommended for archiving systems with 1000 or more users. Because of Exalead's robust nature, more mail searching options will be available. Exalead should be installed and run on a dedicated server for best performance. Exalead should not be run on the same machine as the Retain Server. If using Exalead, the system must be installed and running before the Retain Server is configured. For install and system requirements, please refer to the Exalead installation document.

If an administrator wishes to switch the index engine from Lucene to Exalead, it can be done at any time through the admin interface. The indexes must be rebuilt, however, so the entire process is time consuming. For larger systems, though, the procedure may take quite some time. Please plan your systems accordingly.

Upgrade

When Upgrading Retain from Retain 1.x to 2.0, there are several objects to be aware of and update or migrate before the system will work. All the steps include:

- Backup your Retain System
- Upgrade Retain Server to 2.0
- Check for successful installation
- Run the migration wizard
- Upgrade all Retain Workers
- Upgrade all Migration tools
- Install Retain 2.0 license

Optional upgrades:

Exalead

The steps are covered in detail below:

- 1. **Backup your Retain System**. Should the wrong option be selected during the Retain Server installation, the Retain Server configuration can be overwritten. Connection and access to Retain data requires identification keys stored in the configuration. The Retain Server settings and configuration cannot be lost.
- Install Retain Server 2.0. When Retain is installed, it will detect that a previous version of Retain is installed and prompts whether to upgrade or overwrite the installation. Select the option to Upgrade, preserving configuration. If overwritten, Retain Server must be restored from backup and the install upgrade must be restarted.
- 3. **Check for successful installation.** If the installation upgrade has been successful, the Retain Server home page, (http://<RetainServer_IP_or_Hostname>/RetainServer), should display the following notice:



Selecting the 'Find out more' button will display the next notice:



4. **Run the migration tool.** The migration tool is located in the 'migration' directory in the Retain 2.0 download. Browse to that directory and run the migrator on the Retain Server.

Windows

Locate and run the migrate.bat file. The migration utility assumes the default path to the Retain Server installation. By default, the components are located at: C:\Program Files\Beginfinite\Retain\RetainServer

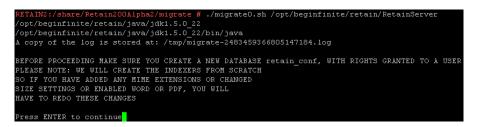
Linux

If under linux, you may need to add permissions the migrator by typing: chmod +x migrate.sh

The migration utility needs to know where the current Retain Server resides in the file system. Run the migration utility and place the working directory of the Retain Server as an argument. Use absolute pathing.

./migrate.sh <path to Retain Server>

On either Linux and Windows systems, the migration utility places the default locations between brackets before the prompt. To accept the system defaults simply press <Enter>. In most cases, the defaults will be correct and can simply be accepted. The below example assumes Linux default file paths for the Retain Server components.



Read the notice, and hit enter to continue.



The migration program will inform you of what it will do and what information is required. The ASConfig.cfg file is located in the .../retain/RetainServerWEB-INF/cfg directory.

```
Location of ASConfig.cfg [/opt/beginfinite/retain/RetainServer/WEB-INF/cfg/ASConfig.cfg]:
ASConfig.cfg will be read for default c:values, and later updated if the migration is successful
Driver JDBC Class [com.mysql.jdbc.Driver]:
```

The JDBC class location must also be provided. Default is shown.



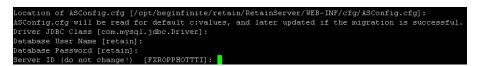
Authentication to the database server hosting the retain database is required. The defaults are listed in the current Retain Server configuration. First provide or confirm the user name.



Next confirm or provide the password to the database .



The ebdb database location is required. Unless changed during initial Retain 1.x install, this can remain as default.



DO NOT CHANGE the Server ID unless specifically instructed to by Support. Accept default by pressing <enter>.

Confirm your settings.



Look over the above information and confirm the correct information. Type 'no' to correct any information.

After selecting 'yes', the migration utility will setup the retain database with the information just provided along with the current configuration settings in the Retain 1.x configuration database.

This will migrate all jobs, schedules, profiles, and worker information from the 1.x server to the new Retain 2.0 server. After the migration utility has completed, if tomcat has not been started, it should be.

The Retain Server should be fully accessible as usual with the same username and password.

- 5. Upgrade all workers and re-upload the bootstrap files for all Retain Workers. All Retain Workers must be updated to 2.0 or scheduled jobs assigned to an un-updated worker will not run. Retain 1.x workers cannot communicate with Retain Server 2.0. The new bootstrap will be named RetainWorker2.cfg. Run the Retain 2.0 installer on each Retain Worker box and update each Retain Worker.
- 6. Upgrade all migration tools. If there are any GroupWise Archive Migration Tools or GWArchive M+ Archive Migration tools active in the system, they also must be replaced with new migration tools from the Retain 2.0 download. (..\Retain200\tools\Migration Tools)
- 7. Update your license. Retain 2.0 is a new system which requires a new license. There is a 30 day grace period to update the license; however, it is best to update the license while working on the server instead of waiting for the grace period to expire. Download or locate your Retain 2.0 license and upload it to the Retain Server. Log into the Retain Server as admin, select the Configuration | Licensing page and upload your new license.

The Retain system has now been updated.

Optional step: Upgrade indexing engine to Exalead.

The Exalead indexing engine is not required, and the system can be switched from Lucene to Exalead at any time. However, the index engines are not compatible with each other and have no way to export the indexes between them, causing a need to re-index the entire mail archive each time the index engine is changed to ensure full coverage. Re-indexing the archive will take substantial amounts of time, and switching the indexing engine should only be run during a 'quiet time' when there are no jobs scheduled to run.

Exalead allows much more flexibility and options in searching and scaling. However, Exalead does require a separate physical machine with robust hardware. For a full list of Exalead requirements and install instructions, see the Exalead Install document. Switching to the Exalead indexing engine will cause some server downtime.

Before you begin the migration to Exalead for the indexing engine, you must first have Exalead installed and working. Log into the Retain Server management console as Adminitrator, and ensure that:

- > The Retain System has been backed-up.
- > Exalead server has been installed, setup, and is accessible.
- > No deletion manager jobs should be running, or set to run.
- Indexer status is set to '0'. On Retain Server status page, the "Total emails in memory queue awaiting indexing" should show '0'. If this is not set to '0', and no job is running, contact support before performing the index engine migration.

From this point on, actual changes will be made in your Retain Server system. To change the index engine, perform the following steps

 As admin, log into the Retain Server management console and browse to the Configuration | Server Configuration page and select the Index tab and click on the 'Migration Steps' link to spawn the migration steps window.

🗯 Retain 🔎	Welcome, admin About Status & Updates Logout
Overview	Server Configuration 🚽 🗞 🌘
Documentation Search Messages Audit Log System Log	Communications Index Storage Accounts Maintenance Notification Logging Miscellaneous Indexing Engine
Data Collection Schedules Profiles Workers Jobs Management Users Groups	 At the core of Retain's searching functionality is the indexing engine. Retain supports two indexing engines currently, Exalead and Lucene. It is possible to migrate from one to the other, but this may require significant effort. It is better to choose an indexing engine initially that fits your needs. Here is a brief summary of the Indexing Engines provided. There is more detail in the user manual: Lucene - Fast and easy to use. Requires no additional software or hardware installation. Well suited for small scale environments that have only modest searching and storage requirements. Some features, such as extended queries, enhanced publishing and exporting, etc are not available using the Lucene engine. Not clusterable or high availability friendly. Evalued - Fast, extremely powerful, and very scalable. Can be clustered with multiple index and search nodes. All Retain advanced features available. Requires one or more dedicated 64 bit servers (quad core recommended), with at least 16GB RAM. Requires an installation process. Recommended for medium to large customers, as well as organizations that need advanced searching, availability functions.
Deletion Management Configuration Server Configuration Storage Manager Stubbing Server Licensing 28 days remaining in eval	If you do decide to switch indexing engines, be sure to read the user manual, and follow the Migration Steps carefully. The Migration Steps page contains a complete step by step guide, as well as special migration functionality. Current Indexing Engine: Lucene M Indexing Here, you adjust the different types of items to be indexed. You may add. delete, or edit items.

Open the migration link in a new window or tab.

ndexing Engine Migration			
Summary			
Migration from one indexing engine to another is a signit depending on the size of your store.	ificant step, one not taken lightly. Inherently the pr	rocess of migration requires reindexing all previous stor	ed mail, a process which may take days or weeks
Motivations for migrating include:			
	: require Exalead.	solution. Lucene cannot. hanced publishing and exporting ,etc) that require the	Exalead engine. We expect most additional major
We urge you to read the user manual and this page and	d consider your options carefully. Click here to print	this page.	
Steps for Migration Backup Backup your database, and optionally your indexes. The changes occur to the old index, so you could always bar			
Note the Documents Indexed value			
note the bocamento indened raide			
In the Status and Updates screen, note the total numb		rite that number down. Note there is NOT a 1:1 corre	spondence between Lucene and Exalead in the
In the Status and Updates screen, note the total numb number, but it can be useful to track the progress once Set up Exalead Server (If switching to Exalead)		ite that number down. Note there is NOT a 1:1 corre	spondence between Lucene and Exalead in the
In the Status and Updates screen, note the total numb number, but it can be useful to track the progress once	e you begin reindexing. er manual. Start it, wait about one minute, and the		

This window has links and information on the migration as well as the migration settings further down the page. LEAVE THIS PAGE OPEN.

2. Scroll down the page to the link to the Indexer Reset page.

ndexing Engine Migration	
DATABASE CHAN	E OCCURS HERE AND IN FUTURE STEPS. YOU CANNOT STOP AT THIS POINT, AND DOWNTIME WILL SHORTLY BE INCURRED
	ust reset the indexed status, which is a field in the EMail table of your database server to the value 0. (After being indexed, the value is set to >0 if fully inde non-zero in any case!). Then, the background indexer will gradually reindex all of these items.
	the Manage Servers right (such as your initially created admin account), and run the Indexer Reset utility: http://RetainServerAddress/RetainServer w it to reset your entire message store. This operation directly affects only the message store; the index is not written too. (although the background index
Switch Indexing Engines	
In Server Configuration, under the Indexing tab, the next step, without pause	change your configuration to the new engine, and configure as needed (For example baseport and host for Exalead.). Save your changes. and then continu
Set Migration Options	
	(Optional but recommended strongly)
date, as new messages will be stored in the new indexed only by the NEW engine, and unavailable	nay want to temporarily continue to use your old indexing engine for search results. Of course, it's important to realize the searches will get increasingly out o index only. You may also optionally configure an email to be sent to a designated person when the indexing is complete. Again, keep in mind all new items w a for search results.
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date, as new messages will be stored in the new indexed only by the NEW engine, and unavailabl To configure these options, fill out the following Read the instructions below the form before fill Migration Parameters Migration is in progress? Activate an alternative searching server: Searching Server should be Send an e-mail when migration is compli- Comma delimited list of e-mail recipients	inay want to temporarily continue to use your old indexing engine for search results. Of course, it's important to realize the searches will get increasingly out or index only. You may also optionally configure an email to be sent to a designated person when the indexing is complete. Again, keep in mind all new items we for search results. form. Do not fill out and submit this form until you are ready to do sot is it out and submitting it

Open the link in a new page or tab. http://RetainServerAddress/RetainServer/Util/indexerReset.jsp

By default, the Indexer Reset page should look like the picture below. (Pay attention to the Unindexed Items (DB): number. It should read '0'. If it does not, do not proceed unless under the instruction of support.

Indexer Background Indexer is alive: true
Indexer currently RUNNING engine: lucene (You may have already switched engines, but this will not be reflected until restart)
Unindexed Items (DB): 0
This utility allows you to reset the indexed status of either the entire message store or a specific mailbox. It may take quite some time on a large database.
Do not run this utility without specific instructions to do so! Misuse can corrupt the index, lead to high CPU utilization, and be quite inconvenient for users, as until the index is rebuilt any items affected will not be searchable.
With Lucene, resetting the index is <u>NOT enough</u> . You must either delete the entire existing index (with tomcat unloaded) or delete all items belonging to a certain mailbox. Otherwise redundant information will be stored! See <u>luceneDelete isp</u> for more.
© Reset the entire message store. All items will slowly be reindexed by the background indexer
In the section of
User UUID to reset (case sensitive)
You may also add an additional restriction - that only email stored after a certain timestamp value is affected. Leave this entry as -1 to disable this feature.
Timestamp restriction: -1
You must type "I AGREE" below before hitting the submit button.
I understand the significant implications of what I am doing
Submit

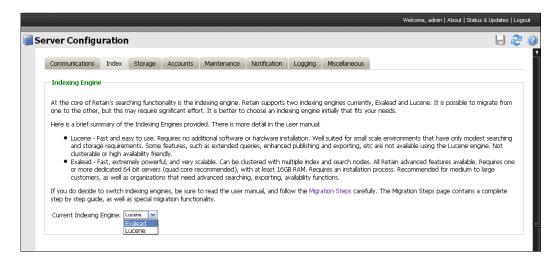
The next few steps need to be performed with very little time delay between them. No more than a **couple minutes.** If not switched soon enough, the indexer reset switch will cause Lucene to re-index, instead of causing Exalead to index the message store, resulting in empty search results when switched to Exalead and slow responses due to Lucene re-indexing the message store. Read through the next steps and decide settings before proceeding. These steps must be completed in the order specified.

3. From the Indexer Reset page, Select **Reset entire message store**. Type "**I AGREE**" in the dialog after reading the warnings. Select **Submit**.

Indexer Background Indexer is alive: true Indexer currently RUNNING engine: lucene (You may have already switched engines, but this will not be reflected until restart)
Unindexed Items (DB): 0
This utility allows you to reset the indexed status of either the entire message store or a specific mailbox. It may take quite some time on a large database.
Do not run this utility without specific instructions to do so! Misuse can corrupt the index, lead to high CPU utilization, and be quite inconvenient for users, as until the index is rebuilt any items affected will not be searchable.
With Lucene, resetting the index is <u>NOT enough</u> . You must either delete the entire existing index (with tomcat unloaded) or delete all items belonging to a certain mailbox. Otherwise redundant information will be stored! See <u>luceneDelete.isp</u> for more.
© Reset the entire message store. All items will slowly be reindexed by the background indexer
© Reset just a specific user's store. All items will slowly be reindexed by the Background indexer
User UUID to reset (case sensitive):
You may also add an additional restriction - that only email stored after a certain timestamp value is affected. Leave this entry as -1 to disable this feature. Timestamp restriction: -1
You must type "I AGREE" below before hitting the submit button.
I understand the significant implications of what I am doing AGREE
Submit

Proceed without delay to the next steps

4. THIS STEP MUST BE DONE QUICKLY AFTER RESETTING THE INDEX. Go the server configuration in the Retain Server admin page, and switch indexer engine to 'exalead'.



After selecting Exalead as the indexing engine, input the connection information (IP address and base port, the default base port is 10000).

									Welcome, admin About Status & Updates Logout
Serv	er Configu	ration							Save Changes 📙 🔊 🌘
Cc	ommunications	Index	Storage	Accounts	Maintenance	Notification	Logging	Miscellaneous	
Ir	ndexing Engine								
or	ne to the other, ere is a brief sum • Lucene - Fa and storage clusterable	but this m mary of th ast and ea e requirem or high av	hay require s he Indexing I sy to use. Ri hents. Some vailability frier	ignificant effo Engines provi equires no ad features, suo ndly.	rt. It is better to ded. There is mo ditional software h as extended qu	choose an inde re detail in the or hardware ins ueries, enhance	xing engine user manual: tallation. We d publishing	initially that fits y all suited for small and exporting, et	tly, Exalead and Lucene. It is possible to migrate from your needs. I scale environments that have only modest searching itc are not available using the Lucene engine. Not is. All Retain advanced features available. Requires one
	or more de	dicated 64	4 bit servers	(quad core re		ith at least 160	B RAM. Requ	uires an installatio	on process. Recommended for medium to large
	you do decide ti ep by step guide					manual, and fol	ow the Migra	ation Steps carefi	fully. The Migration Steps page contains a complete
o	urrent Indexing I	Engine: E	xalead 💌						
	xalead Host/IP:		168.1.106						
	xalead BASEPOR	_	0						
	Test Connection	1							

After all changes have been made, select the **Save Changes** button.

5. Go to the **Migration Steps** page and Select, migration in progress, and select to **Send an e-mail** when migration is completed. Specify a destination address.



6. Activate an alternative searching server if desired.

While Exalead is indexing the archive, there will be no mail in the index to be searched through. Depending on how much mail is in the archive, the indexing operation may take a very long time. To have the searching features of Retain available while the archive is processed, specify a separate searching server. In this case, it would be Lucene. The only downside to this operation is that any new mail added to the system during the indexing operation will not be added to the Lucene index, and will not be available to search until Exalead has finished and the search engine has been changed to Exalead.

- 7. After the settings are correct, type "I understand" and select Save Migration Parameters.
- Restart Tomcat on the Retain Server system. When Tomcat starts back up, the settings will be cemented and the archive will be re-indexed into Exalead. During the indexing process of Exalead, the statistics of the Retain Server Status and update page should rapidly increase. It is one way to monitor the progress of the migration. (The screen shot shown is before the migration is started.)

	Welcome, adr	nin About Status & L
n - S	Sydney - Melbourne - Brisbane - Wellington - Christchurch - Auckland \cdot	
M	ligrate to GroupWise 8	
G	lobal Event Series	
Clin	ck Here For All The Details	
Citc	there for all the details	
	System Status	
💑 Jobs 🛛 🤱 Workers	Server 🕘 Updates	
Server		
Index Migration in Progress		
SQL Server	ОК	
Server	RetainServer (FXROPPHOTTTI)	
Stored EMails	0	
Engine	standard	
Server started at:	10-Mar-2010 14:00:11	
Server started at: Archived since server starte	10-Mar-2010 14:00:11 ted (total/dupes/new) 0 / 0 / 0	
Server started at:	10-Mar-2010 14:00:11	
Server started at: Archived since server starte Server errors	10-Mar-2010 14:00:11 ted (total/dupes/new) 0 / 0 / 0 0	
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9. When the migration compete email arrives, return to the Migration Steps page and unselect the **Migration is in progress** setting, type **I understand**, and **Save Migration Parameters**.



Even though Lucene has been unselected, it will still exist with all the indexes until removed. Again, Reindexing may take a long time depending on the hardware of the Exalead system, the size of the archive, and the speed of the connecting network. Allow for plenty of time for the indexing to be performed. Time may range from several days to several weeks for extremely large systems. Once it has been determined that Lucene is no longer wanted or needed as a backup for the system, to save system disk space, the Lucene index should be removed from the system. This is not a necessary step, though it does free up system disk space that currently holds duplicate data that now resides in the more robust Exalead system.

To remove the Lucene Indexes, login as admin to the Retain Server, open a new window or tab, and browse to http://Retain_Server_Address/RetainServer/Util/luceneDelete.jsp to remove the users one by one according to UUID. The lucene delete page is also linked form the **Indexer Reset** page. To manually delete the Lucene indexes, remove the contents of the <storage area>/index directory. There should also be a copy of the index directory in the backup folder of the storage area. This measure is not required.