

GWAVA Reveal

For GroupWise®

Installation and User Guide

Version 2.0

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Getting Started

Intended Audience

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

Technical Support

If you have a technical support question, please consult the GWAVA Technical Support section of our website at www.gwava.com. For technical support, call 801-437-5678.

Sales and Licensing

To contact a GWAVA sales team member, or obtain a license please e-mail info@gwava.com or call Tel: 866-GO-GWAVA (866-464-9282) in North America or +1 514 639 4850.

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E-mail info@gwava.com

About Reveal

Reveal is an e-mail auditing solution for Novell GroupWise® that provides a quick, safe and immediate access to a company's GroupWise® system so executives can review e-mail use for best practices and security.

Contact Reveal Support

To contact support, please visit <http://support.gwava.com> for support contact information and hours of operation.

Email: support@gwava.com
TEL: +1-801-437-5678

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Introduction

Reveal allows authorized users to review the contents of any employee's mailbox, search for messages based on key words or content and retrieve these messages from GroupWise while maintaining the security of the system and leaving no hint to the mailbox owner that their e-mail accounts have been inspected for policy compliance. Reveal provides protection from information leaks, misuse of company e-mail, and legal liability. Reveal ensures that executives are able to accurately evaluate e-mail activity so they can properly enforce policy and procedure.

Product Overview

From a MS Windows workstation connected to the GroupWise system, Reveal shows the executive any employee's live mailbox without the need for IT staff assistance. Authorized executives to review the contents of any employee's mail box, search for messages based on key words or content and retrieve these messages from GroupWise.

Live Confidential e-mail Inspection

For legal, human resources and compliance auditors, Reveal provides the ability to maintain oversight to all e-mail communications within Novell GroupWise. Reveal monitors and scans all e-mail. This provides protection from information leaks, misuse of company e-mail, and legal liability. Executives can view live mailbox activity of individual users, and easily monitor company-wide e-mail communication.

Confidential e-mail investigations

Reveal show authorized users the exact same mailbox that the user sees without any modification by an outside source.

Licensing

Reveal is licensed per user. Reveal will operate as a demo for thirty days for testing purposes. Once the demo period elapses, you must purchase a license for the appropriate number of users on your system.

Features

- Confidential e-mail Inspection
- Mailbox content review
- Designed for auditors and legal staff
- Search employee mail
- Print and export employee e-mail
- Confidential process - No modifications are made to the mailbox
- Complete logging for review of auditing activities
- Supports full search capabilities of GroupWise
- View employee proxy settings
- View, export, and print employee address book
- View, export, and print employee calendar

Minimum System Requirements

- .NET framework 3.5 or higher
- Novell Client 4.91 (Novell client 2.0 must be installed for Windows 7, Vista, and Windows Server 2008.)
- GroupWise 6.5 with Support Pack 1 or better
- Reveal must be configured as a Trusted Application within GroupWise (Created during installation)
- Microsoft Windows 7, Vista, XP, or 2000 with GroupWise Windows Client v6.5.1 or later
- 256 mb RAM
- 10 mb hard drive space
- To export into Excel or Word formats, those Microsoft products must be installed
- Network access to your GroupWise system

It is highly recommended, for best printing results, to have Internet Explorer 7 or higher installed. While Internet Explorer 6 will work, it is not recommended due to security flaws.

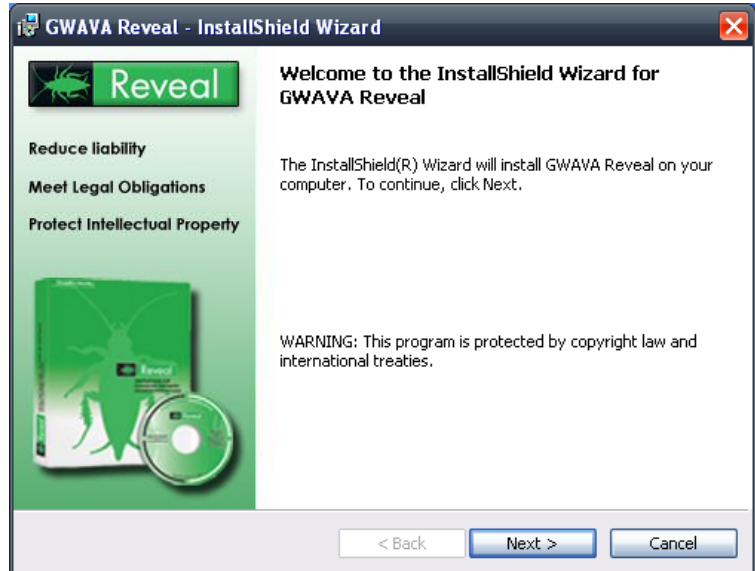
Installing Reveal

Reveal installs on your Windows XP desktop with GroupWise 6.5 SP1 Windows Client installed connecting to a GroupWise 6.5 SP1 e-mail system. You do not need to be running GWAVA or any other GWAVA products to be a Reveal administrator.

Download Reveal from

<http://www.gwava.com>

Launch the Reveal set up executable. The first screen is informational: click **Next** to begin. The executable runs a script to ensure its install wizard is configured correctly. Click **Next**.



License

Reveal is commercial software and licenses for its operation must be purchased from GWAVA. Please read the license agreement and click to agree to the terms to continue. Click **Next** when ready.

Clicking **Back** or **Cancel** will leave your computer unchanged.



Reveal 2

Destination Folder

The next screen is used to select where on your workstation Reveal will be installed. The default location is c:\program files\GWAVA\GWAVA Reveal; however another location can be chosen. Regardless, a shortcut to Reveal will be placed on your desktop

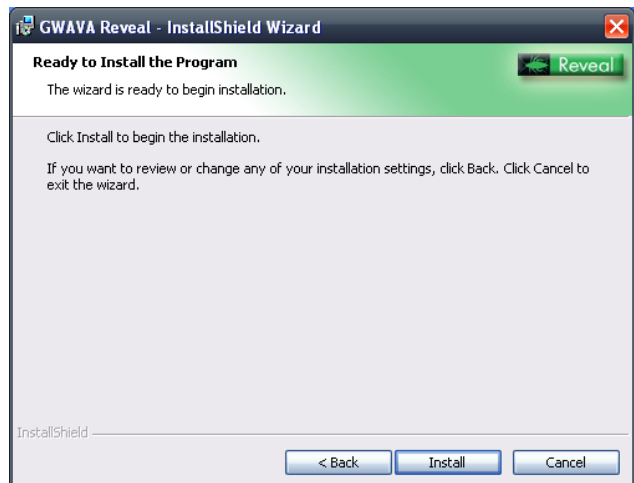
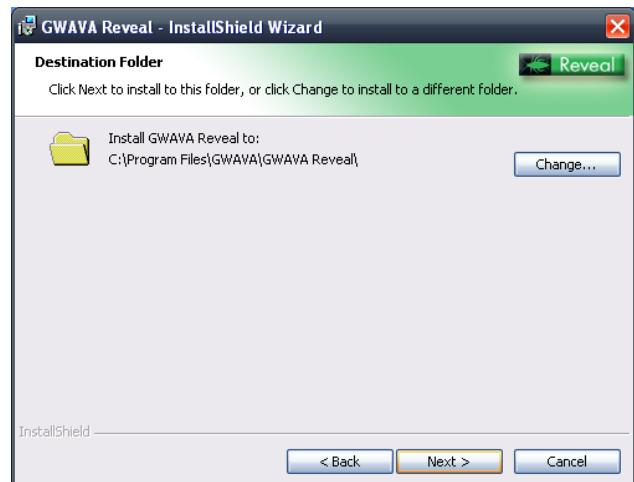
Clicking **Back** or **Cancel** will leave your computer unchanged.

The Install Wizard is now ready to create your Reveal folder. Click Install to place a copy of the Reveal software on your workstation. Clicking **Back** or **Cancel** will leave your computer unchanged.

The wizard will install Reveal. Click Finish to close the installer. You can also enable the **Launch GWAVA Reveal** checkbox to launch the software immediately.

What's Next?

The software has been installed, but now it needs to be configured. This is merely a matter of letting Reveal know where your GroupWise mail system keeps its files. Make sure to copy the license file to the program location or Reveal will not function.



Reveal Licensing

For Reveal to function correctly, the license file, ("license.pem"), must be copied into the program install directory prior to program use. By default this is located at:

C:\Program Files\GWAVA\GWAVA Reveal

Always keep a copy of your program license for archive and backup use. The license must not be renamed, and must be called 'license.pem'.

If you need to obtain a license for Reveal, contact Sales at:

info@gwava.com

Tel: 866-GO-GWAVA (866-464-9282) in North America

or +1 514 639 4850

100 Alexis Nihon, Suite 500

Montreal, QC Canada H4M 2P1

Upgrading from a previous version

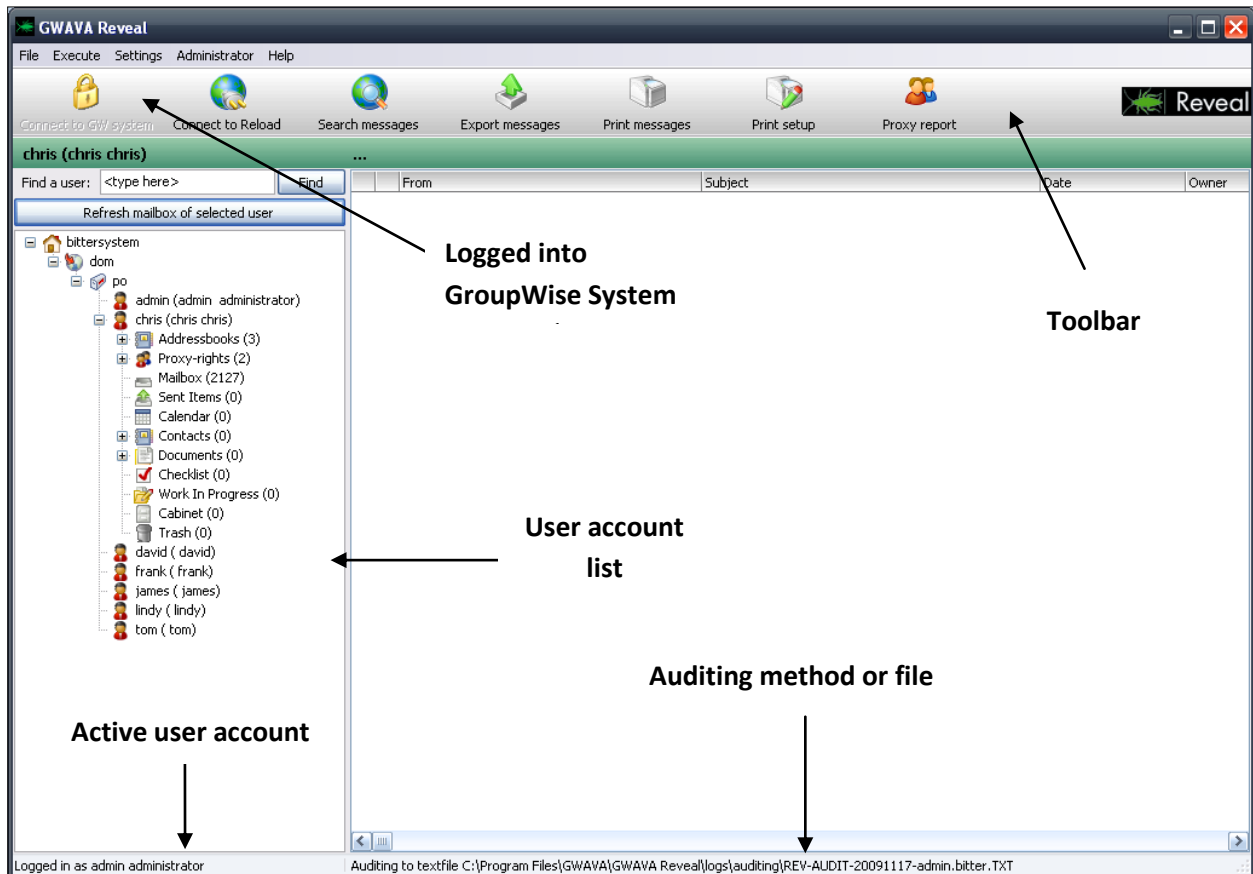
The Reveal Installer also contains an updater for upgrading older versions of Reveal.

- Launch the installer. If the installer has a version of Reveal that is newer than is installed, a dialogue box will be presented asking whether an upgrade should be applied. Click **Yes** to continue.
- Click **Next** to apply the update and **Finish** when complete.
- The Installer also has the ability to modify an installation by selectively applying new features. Run the installer. Select **Modify**. Select the specific features required, then click **Next** and **Install**.
- Do not forget to install the new license.



Using Reveal

From this elegant interface, executives can examine their users' mailboxes instantly. The toolbar and menu system provide easy access to program functions. Reveal is organized with users to the left, and information to the right. To open a user's account, double-click on the desired user. Single clicking will only select, while double-clicking opens an item, mailbox, folder, or user. All columns in the information window can be set as filters to sort data. Reveal also displays the active user and auditing file or method directly on the bottom of the interface.



Connecting to the GroupWise System

Connecting for the first time successfully involves nothing more than pointing Reveal at the database where GroupWise mail is stored on your network. (The first time you connect to a GroupWise system, Reveal creates a Trusted Application Key. Allow a few minutes after key creation for the Trusted App. Key to be propagated through the system to ensure Reveal has access.



Select Connect to GroupWise system. A screen will be presented asking you to identify the path your primary domain directory and provide appropriate credentials.

Reveal 2

Step 1.

In order to connect to the GroupWise system, you must have access to the GroupWise domain database, either through the local machine or over the network, (if using a SAMBA share, you must select the 'Use SAMBA' box).

If you are already signed-on with a GroupWise client, then you may use the current account. Otherwise you will have to provide credentials.

The dialog box is titled "GWAVA Reveal" and "Connecting to a GroupWise system". It contains three steps:

- Step 1: Log in to the desired GroupWise system**
It seems that GroupWise is already running and that you are logged in. This doesn't necessarily mean that you are logged in to the desired GroupWise system. Please make your selection:
Select the account you want to use:
☒ Use current logged in account
☐ Use other login credentials
User ID: admin
Password:
Address: 192.168.1.105
Port: 1677
- Step 2: Select the GroupWise primary domain**
Select the domain directory: \\192.168.1.105\mail\dom\
☒ Use SAMBA
- Step 3: Decide how to retrieve the GroupWise objects**
Your rights to the GroupWise domain directory enable you to:
☒ Retrieve all objects from the 'live' GroupWise system and (re)create the cache file for other users.
☐ Retrieve all objects from the cache file.

Buttons: OK, Cancel

Step 2.

You must browse to the Domain database. Select the '...' browse button. A dialogue box will be presented. Navigate to the GroupWise database. To license your copy of Reveal, write access is needed to the Domain Directory of your GroupWise system. Locate the file called wpdomain.db. Select it.

The dialog box is titled "Select the PRIMARY domain database". It shows a file explorer view with the "Look in:" field set to "dom". The file list includes: msllocal, wpcsin, wpcout, wpgate, wpooffice, wptemp, and wpdomain. The "wpdomain" file is selected. The "File name:" field contains "wpdomain" and the "Files of type:" field is set to "wpdomain". Buttons: Open, Cancel.

Step 3.

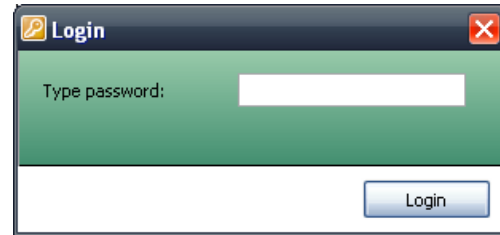
Select which objects to retrieve from the live system, or to retrieve from the cache file. **Make sure that you select to read from the live system the first time you connect** in order to create a cache file. (Reveal creates and saves the cache file in the domain directory.) Caching objects in the system speeds up Reveal's system and leaves the GroupWise system free from initial traffic. The cache mechanism is for performance improvement only.

Reveal 2

Default Password

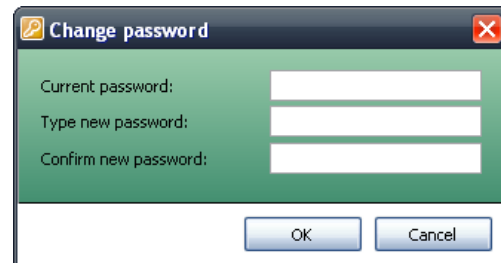
You will be asked for your *case-sensitive* Reveal password. For new installations, your default administrator password is GWAVA (all capitals).

This completes the installation and first run requirements. The network—and users in it—will now appear in the left-hand pane. You can now use Reveal.



REMEMBER to change the default password!

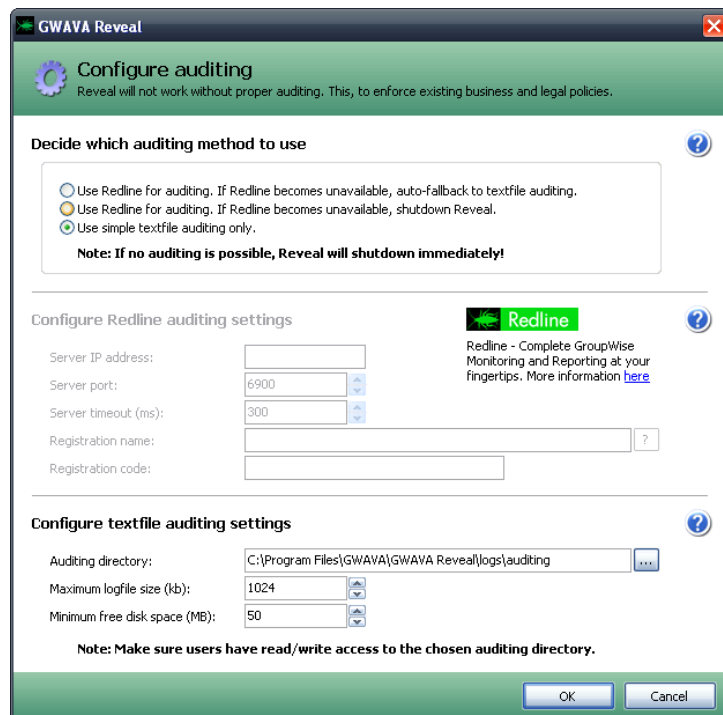
After logging-into Reveal for the first time, select **Administrator | Change password** from the program menu to change the Reveal system password.



Reveal Auditing

The configuration page will be shown by default if auditing has not been previously setup. If previously setup, this configuration may be accessed through the program menu. (**Administrator | Reveal auditing**) Reveal Auditing keeps logs and tracks of which users connect to the system, and which operations were performed, at which time. Auditing can be performed by simple text file, or Reveal may integrate with GWAVA Redline.

Select the desired method and enter the required information. Select **OK** to continue.



The Menu system

- File
 - Close
- Execute
 - Connect to GW system
 - Search Messages
- Settings
 - Languages
 - Dansk
 - Deutsch
 - English (the default)
 - Nederlands
 - Create LogFile
- Administrator
 - Change Password
 - (Re)Create Trusted Application Profile
 - Reveal Auditing
 - Reveal rights
- Help
 - About GWAVA Reveal
 - GWAVA Reveal on the web (links to GWAVA.Com)
 - Registration (Enter license)

Create Log File

The debuglog.txt file is useful in diagnosing Reveal's behavior and improving performance. It is stored in the Reveal program directory.

(Re)Create Trusted Application Key

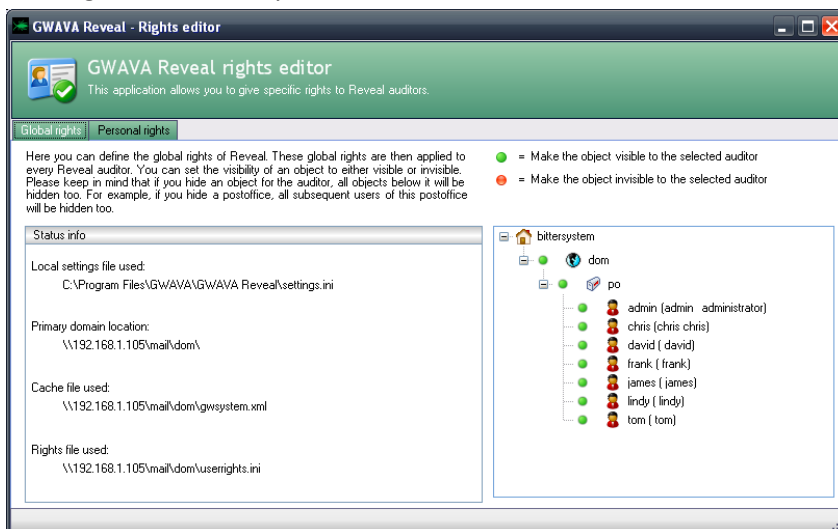
The creation of a new security key for connecting to your GroupWise database may be required on occasion. **Note** - Selecting this option may require that you wait one or more minutes before the key enters operation.

Reveal Rights

Reveal allows different users to be setup with specific rights to different accounts and domains. By default, users will have the same rights to accounts as they do in the GroupWise system. For Administrators, those rights will be global. All other users will only have the rights that have previously been granted, or which are granted in this system.

There are two sections to the Reveal rights which may be modified, Global and Personal rights.

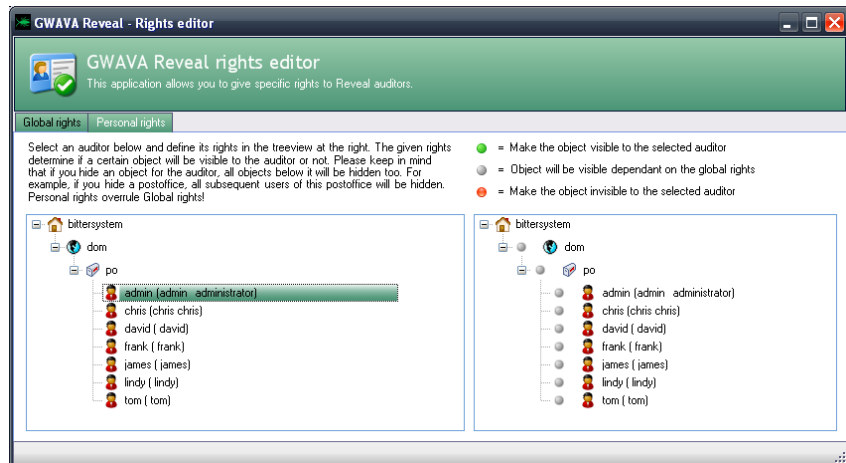
The Global rights menu modifies the rights to the entire system. Global rights, when set, override any personal rights which have been previously set.



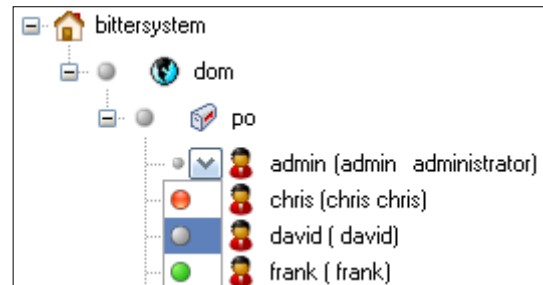
Reveal 2

Personal rights allow individual rights to be set for each selected user to allow or deny access to specific accounts.

ONLY the selected user's rights will be modified. To modify a user's rights, you must first select the desired user.



To modify rights for either Global or Personal, the item or user which rights are to be granted for must be modified. On mouse-over, a down arrow appears next to each user. Select the down-arrow and then select the setting desired. (Hidden, dependent on global rights, or shown.)

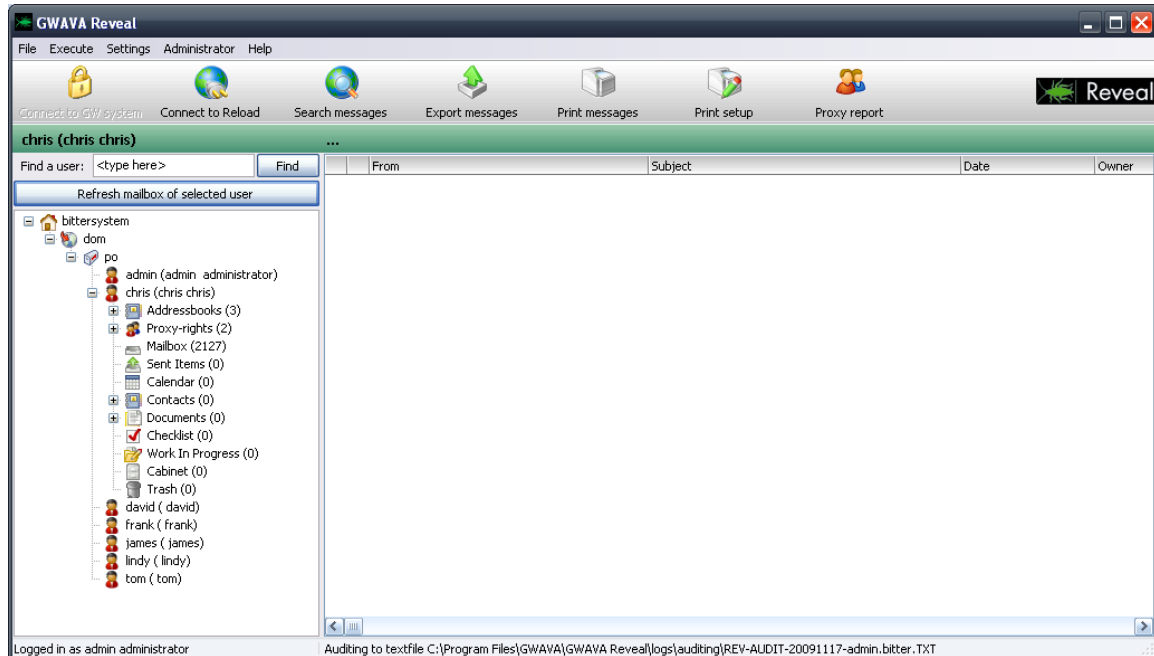


NOTE: Auditing and admin rights also depend on the rights of the logged-in Novell account. For an auditor to have rights to see other account's mailboxes, their Novell client login must have read and file scan rights to the primary domain. **Limited rights auditors logged in using the admin Novell account will be able to change their own rights within Reveal.**

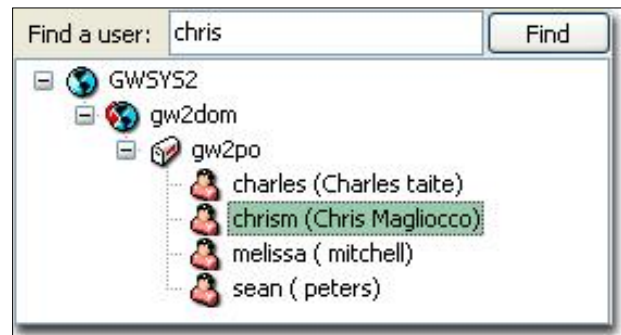
About

This informational screen presents information about your Reveal installation. It is useful for determining which build version is in use and other general debugging requirements.

Finding Users



To examine a specific user's mail account, select the user from the list of accounts. To locate a user, use the Find a user field. Enter a name and click the **Find** button. **Note** - the **Find** field only locates users from the list, it does not search for content.



Contacts and Calendars

Once Reveal connects to a user mail box, access is gained to that user's address book and calendar data.

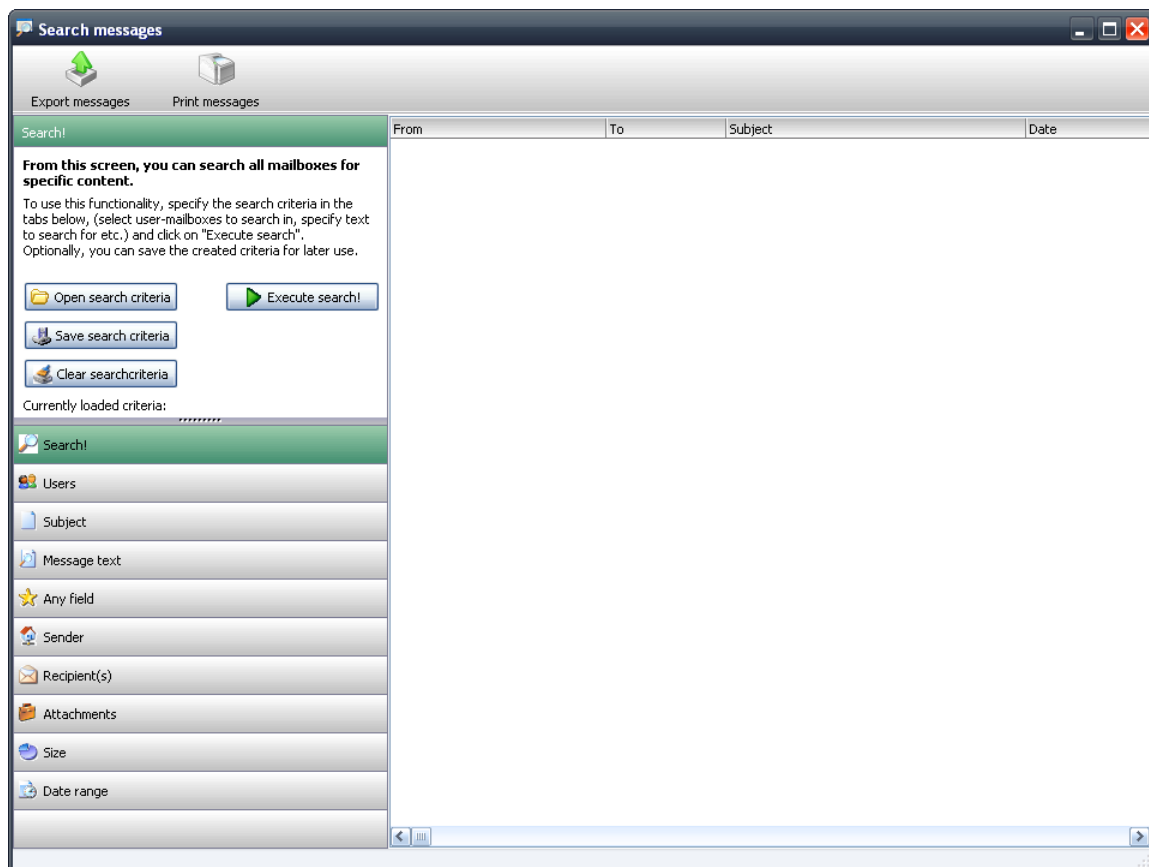


Searching Messages



The Search messages button presents the content searching tools window. From this screen, administrators can search for any content, attachment or element of any e-mail.

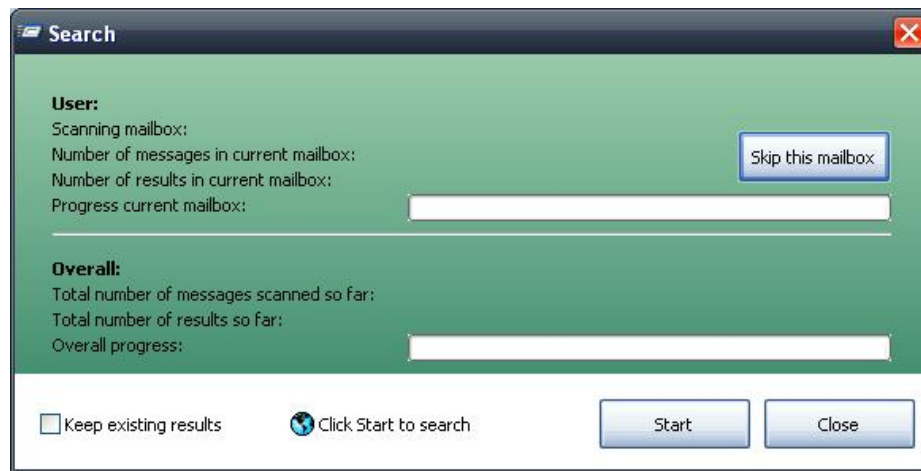
- Run, load and save searches
- Users
- Subject
- Message text
- Any field (any key words in any location)
- Sender
- Recipients
- Attachments
- Size
- Date Range



Search criteria is accessed from the toolbar on the left, organized under categories. To modify a category, select the desired category then add, remove, or define the desired criteria.

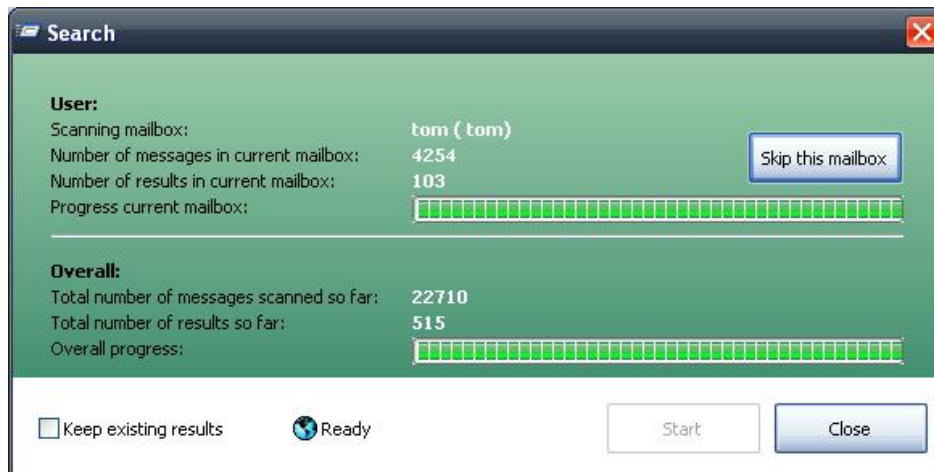
Reveal 2

To perform a search, fill out the desired criteria and click the **Execute Search** button. The search window will appear and require the user to select the **Start** button. Searches on large mailboxes may take some time. Select the **Start** button to continue.



The 'Search' window is shown with a green background. It contains two sections: 'User:' and 'Overall:'. The 'User:' section has labels for 'Scanning mailbox:', 'Number of messages in current mailbox:', 'Number of results in current mailbox:', and 'Progress current mailbox:', followed by empty input fields. A 'Skip this mailbox' button is to the right. The 'Overall:' section has labels for 'Total number of messages scanned so far:', 'Total number of results so far:', and 'Overall progress:', followed by empty input fields. At the bottom, there is a checkbox for 'Keep existing results', a globe icon with the text 'Click Start to search', and 'Start' and 'Close' buttons.

When the search has completed, you the search window will display the total number of messages searched and loaded. Click the Close button to continue to the search results.



The 'Search' window is shown after completion. The 'User:' section now displays 'tom (tom)' for 'Scanning mailbox:', '4254' for 'Number of messages in current mailbox:', '103' for 'Number of results in current mailbox:', and a full green progress bar for 'Progress current mailbox:'. The 'Overall:' section displays '22710' for 'Total number of messages scanned so far:', '515' for 'Total number of results so far:', and a full green progress bar for 'Overall progress:'. The 'Skip this mailbox' button remains. At the bottom, the checkbox for 'Keep existing results' is still present, but the globe icon now says 'Ready' instead of 'Click Start to search'. The 'Start' button is now disabled, and the 'Close' button is active.

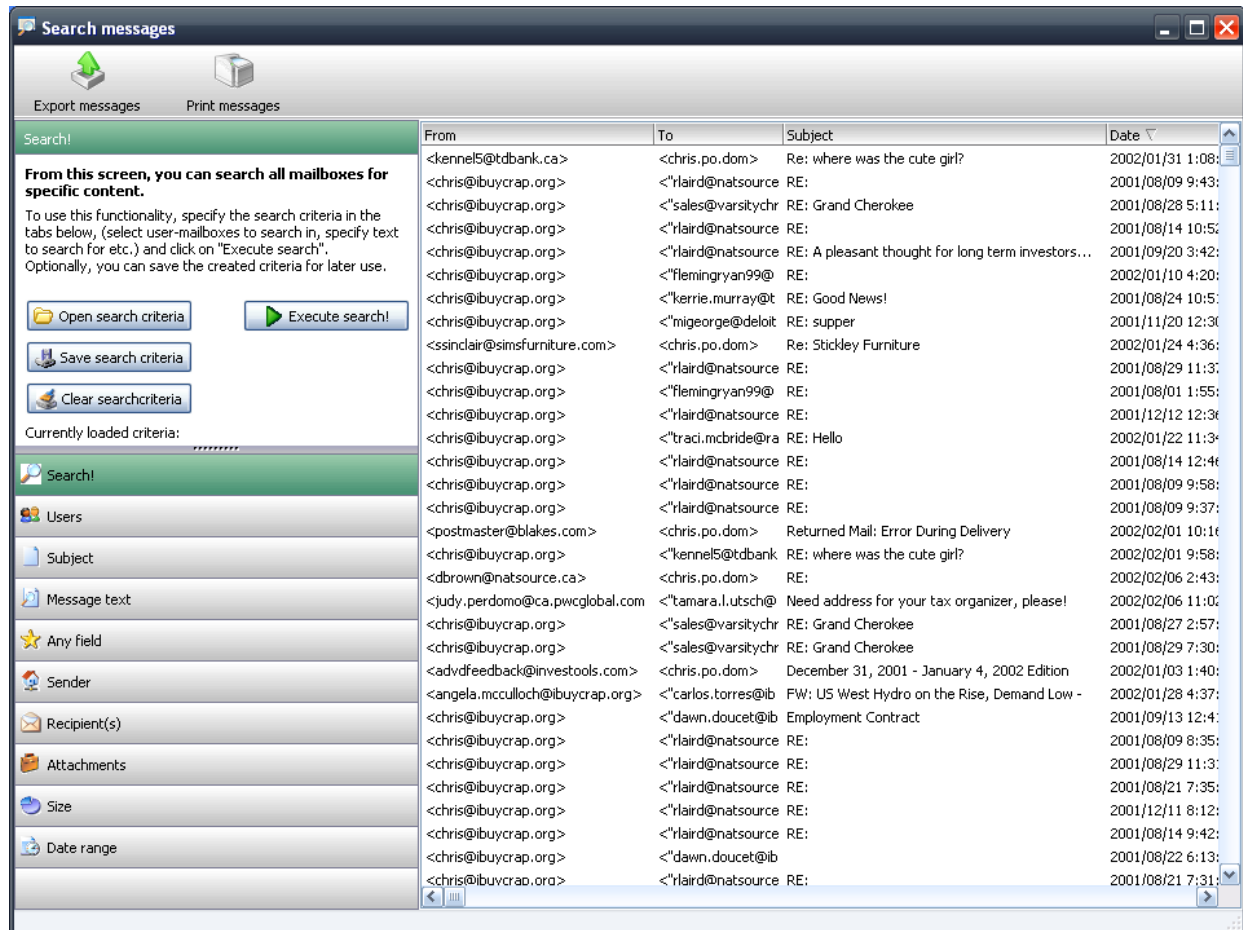
If the search results are excessive, specify more restrictive criteria.

Reveal 2

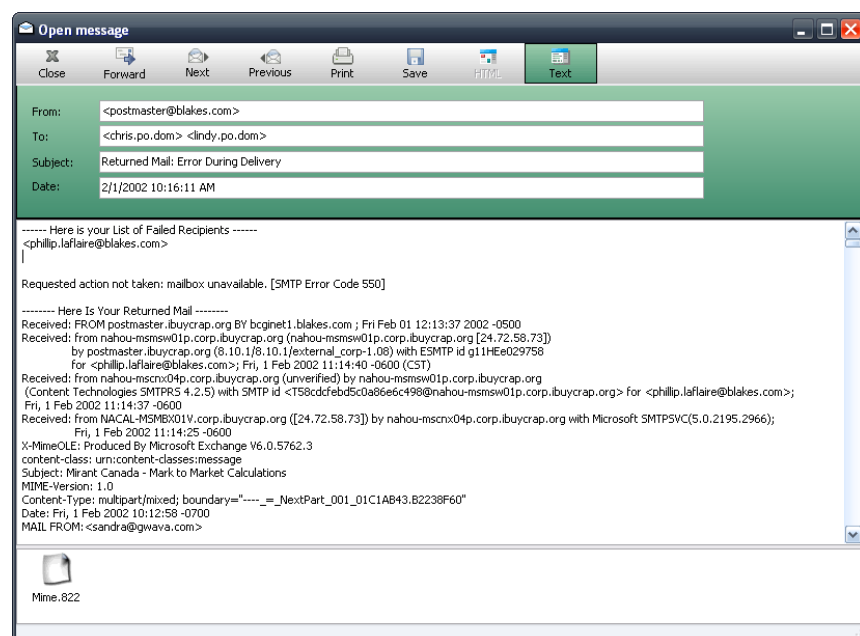
The column titles are clickable and can be used to sort your messages. The directional triangle indicates the sorting direction of the active column.

Subject ▾

The directional

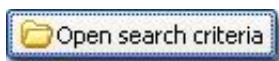


Click on a mail message to read or export. Note that for any message attachments, the attachments still require their programs. For example, to read a Microsoft Word document that was attached to a mail message, you must have word installed.



Search Criteria

This feature lets Reveal administrators save often used searches. Reveal has several default searches installed as examples.

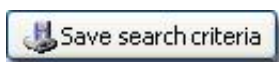


The **Open Search Criteria** button presents a new window with search scripts for your selection. The default example searches are:

- **Default** – Empty (any search criteria)
- **Date Range** – 1-5-2005 and 1-10-2005
- **Too Big** – All mail larger than 2 mb
- **Unwanted attachments** – All mail with non business-related attachments like mp3 and avi
- **Unwanted senders** – All mail from unwanted senders that have attachments



Click the **Execute** button to run the search



The last search can be saved by clicking the **Save search criteria** button.

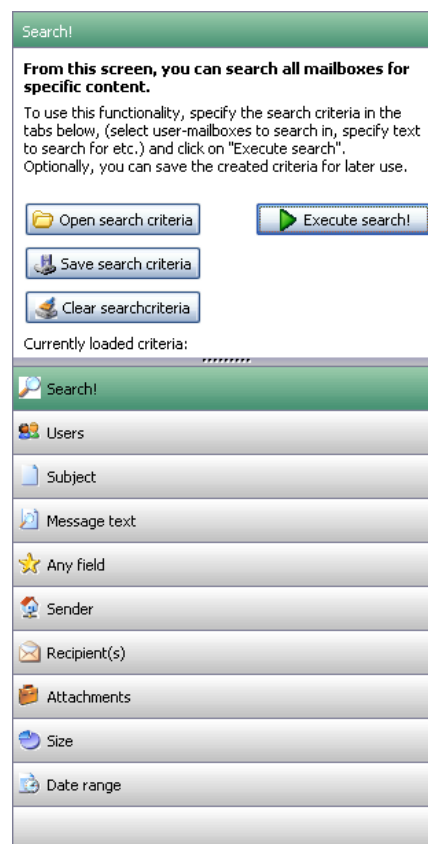
You will be asked to name the search, and provide a description. Click **OK** once the description has been entered. Please use a plain text description that will be easy to understand in the future.

Clicking Search now will show your saved search in the list of available actions.

Note - Searches are stored in the GWAVA Reveal/Searches directory and can be directly edited by the more technically-minded.

Adding search criteria

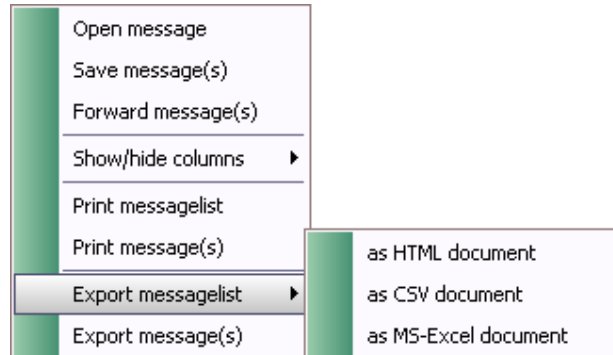
When saved search criteria is loaded, the **Add to existing criteria if possible** checkbox allows complex searches to be built quickly. It adds the characteristics of the selected search to your existing search.



Exporting Search Results

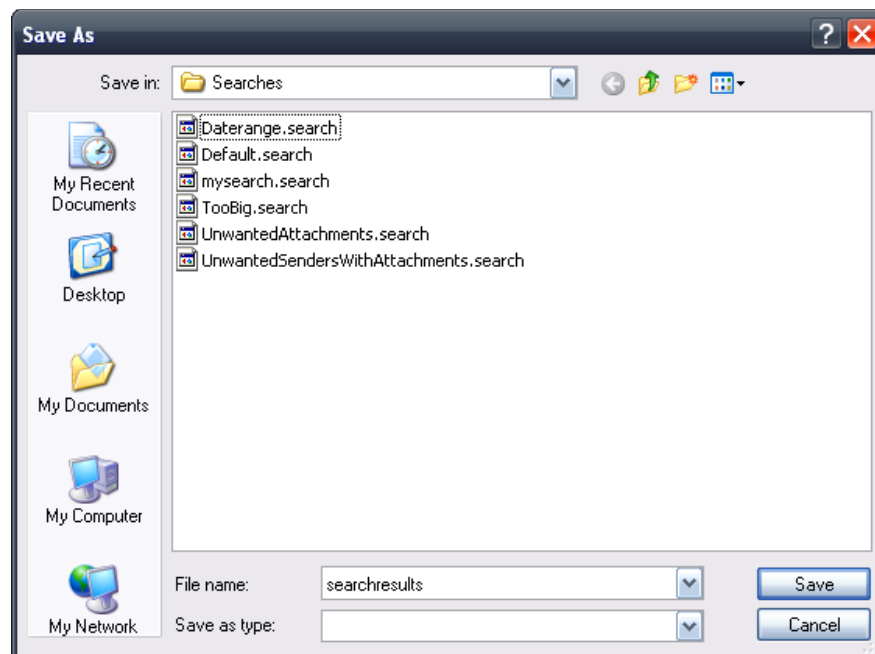
To save a specific mail, or a range of mails, right click the results window. This presents a drop-down menu with the following options:

- Open Message
- Save Message(s)
- Forward Message(s)
- Export message list
 - As HTML document
 - As CSV document
 - As MS-Excel Document
- Save Result List
- Open Result List



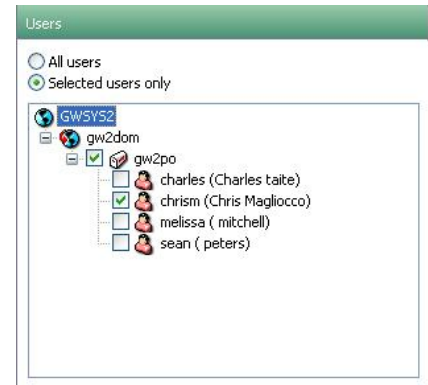
Result Lists

Results can be saved by right-clicking. Note that a range of messages can be selected. Previously saved result list can be opened.



Users

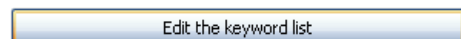
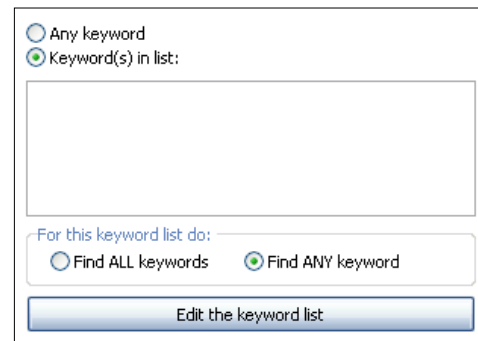
To search the mailboxes of specific accounts, click the Users tab. Then select the user or users to be included in your search.



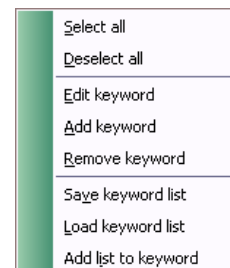
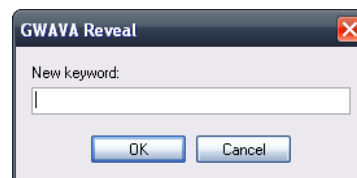
Subject

To search the mailboxes for mail using specific subjects, click the Subjects tab. Then select the user or users to be included in your search.

- Using the **Any keyword** function returns the broadest range of results
- Using the **Keyword(s) in list** feature by selecting words from the list presented to narrow a search



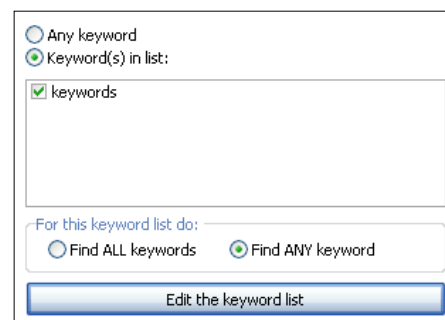
To edit the keyword list select the **Edit the keyword list** button to open the keyword list menu. Select the action you wish to perform. Keywords must be present for some functions to work. (ie. You cannot Select all, Edit, or Remove keywords from an empty list.) After desired keywords have been added, the list can be saved, loaded, and added to other lists.



The Keyword list window is used for the **Subject, Message Text, Any Field, Sender, Recipient(s), and Attachments** criteria. Each search criteria requires the specified keywords under that search tab to be found in their respective areas.

Message Text

To search for mail using specific text strings, click the Messages text tab. Then select the user or users to be included in your search.



Any Field

To search all fields in mail messages—not merely subject lines, to and from headers—select the Any Field tab.

Sender and Recipients

To search for keywords in mail sent by users on your network, click the Sender tab. To search for mail recipients of mail with certain keywords, click the Recipients tab.

Attachments

Click the **Attachments** tab to search for documents and files appended to e-mails in your system. There are two options for helping narrow your searches for attachments:

- Message MUST contain an attachment - This returns all mail with attachments
- Attachment type in list (Select the attachment type required for your search.) This narrows search results

The screenshot shows the 'Attachments' tab with a green header. Below the header, there are two checked checkboxes: 'Message MUST contain an attachment' and 'Attachment type in list:'. Below these is a large empty rectangular box. At the bottom, there is a section titled 'For this keyword list do:' with two radio buttons: 'Find ALL keywords' (unselected) and 'Find ANY keyword' (selected). Below the radio buttons is a button labeled 'Edit the keyword list'.

Size

To search the mailboxes for e-mails based upon the size, click the **Size** tab. There are four options for helping narrow your searches for attachments:

- Size doesn't matter (the default)
- Small (Less than 5 k)
- Average (5kb-500kb)
- Larger (Larger than 500kb)
- Custom size (insert operator with value)

The screenshot shows the 'Size' tab with a green header. Below the header, there are five radio buttons: 'Size doesn't matter' (selected), 'Small (smaller < 5 Kb)', 'Average (5Kb - 500Kb)', 'Large (larger than 500Kb)', and 'Custom size'. Below the radio buttons, there is a custom size input field with a dropdown arrow, a text box, and the unit 'Kb'.

Date Range

Reveal allows administrators to search for messages by date.

The default is to report all messages (the date doesn't matter option). To

narrow a search to within a date range, click on the calendar to choose a **Start Date** and an **End Date**.

The greater left and right arrows can be used to navigate months and years.



Date range

☐ Date doesn't matter
☒ Use date range

Nov 2009						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

As startdate

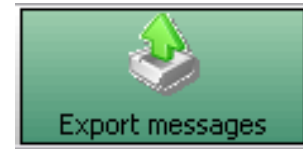
As enddate

2009/11/23

2009/11/23

Export Messages

At any time after connecting to the GroupWise system, Reveal can export messages from multiple or single mailboxes in the system. To Export messages, select the **Export Messages** button from the toolbar to launch the export utility. The Export utility can also be started from the right-click menu. This is most useful when export is desired for only a few messages. Select the message, or multiple messages using ctrl-click, then right-click on the messages and select **Export message(s)** from the right-click menu.



The export utility guides through the process of selecting and exporting mass amounts of messages from the system.

From the export utility, select either **All currently selected messages** or **Complete Mailboxes** as your export source.

GWAVA Reveal

Export messages or mailboxes
Selected messages or complete mailbox contents will be exported to a directory-structure on disk.

What do you want to export?

☐ All currently selected messages

☒ Complete mailboxes

Select which mailboxes to export

User account(s): admin chris david

Mailboxes selected: 3 users selected

☐ export incoming shared folders

Export options

Export format: MIME

Export to location: c:\reveal export

Minimum free disk space (MB): 50

Exclude these attachments: ☒ mime.822 ☐ text.htm

Advanced export options

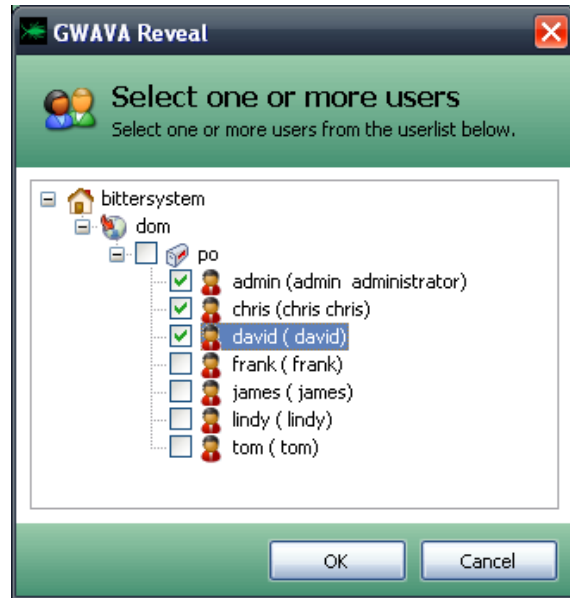
Ok Cancel

Reveal 2

If you are exporting complete mailboxes, select which users you wish to export. Click the '...' browse button to select the desired mailboxes from the GroupWise tree.

Messages can either be exported in MIME, or Advansys Archive To Go format. The export utility asks where to export the files to, and defaults to the **C:\reveal export** directory.

Users may also select to exclude the mime.822 and, or text.htm attachments to messages in the export list.



Advanced export options allow the exclusion of all attachments and the option to Use the personalized subject when available.



Proxy Report

Reveal can generate reports on which user has proxy rights applied for other accounts. First, select the **Proxy report** button from the toolbar to launch the utility.



GWAVA Reveal

Proxy report
Create a report of all proxy settings from all or selected users.

Select the mailboxes to include in the proxy report

User account(s): admin chris david ...

Mailboxes selected: 3 users selected

User	Read tasks	Write tasks	Subscribe to alarms	Subscribe to notifications	Notify prefs/rules/gro

Create report Close

You must specify the Users the proxy report will include. Entire post offices may be selected, or individual users. To select the users, click on the '...' browse button to launch the user selection window, and select the desired users from the GroupWise system tree.

When the users have been selected, click the **OK** button to return to the proxy rights utility. Select the **Create report** button to generate the report for the desired users.

GWAVA Reveal

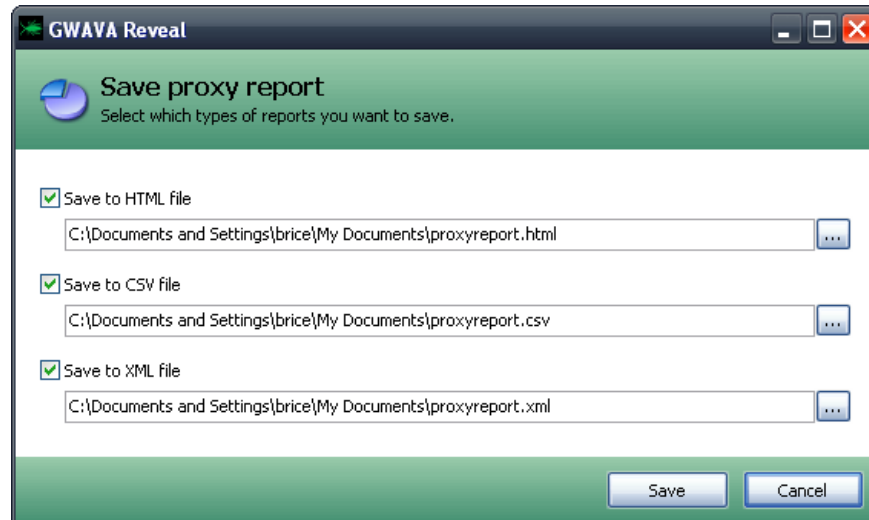
Select one or more users
Select one or more users from the userlist below.

- bittersystem
 - dom
 - po
 - admin (admin administrator) ☒
 - chris (chris chris) ☒
 - david (david) ☒
 - frank (frank) ☐
 - james (james) ☐
 - lindy (lindy) ☐
 - tom (tom) ☐

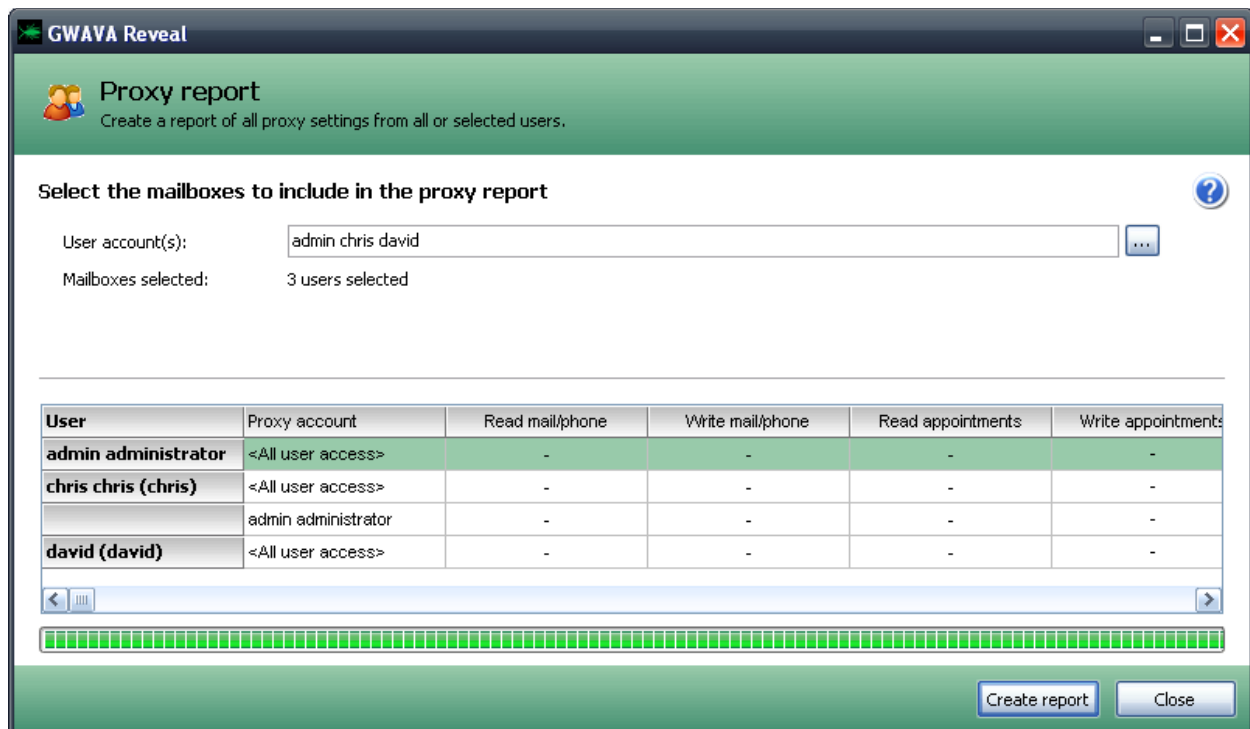
OK Cancel

Reveal 2

When the report has been created, you are immediately prompted to save the report. By default, all format options are selected and will save in the specified locations.



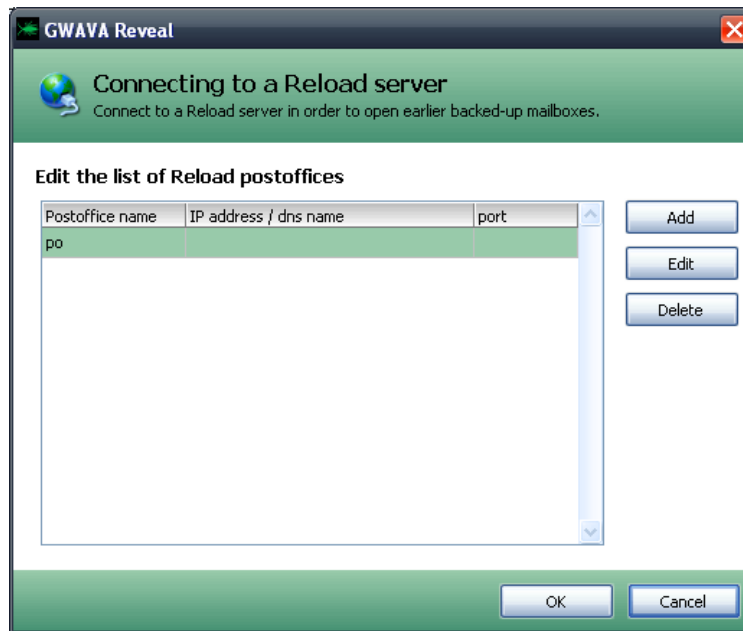
Select or deselect the file formats and change locations as desired, then click **Save**. If you select **Cancel** then the proxy report will not be saved and must be recreated to be viewed later. Once saved, the report will be displayed.



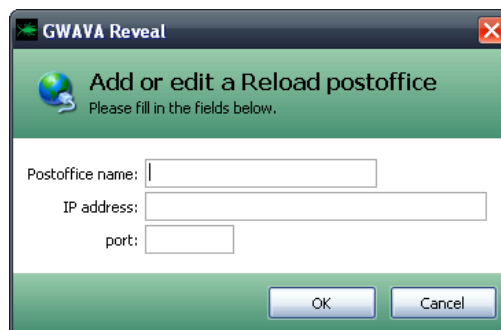
Connect to Reload

Reveal can connect to a Reload system to browse a backup of the live system instead of the live post office. This can be used to browse the mail in a backup either to view deleted items, or to relieve the pressure on the live system.

To connect to a Reload system, select the **Connect to Reload** button from the toolbar.



Reveal will open a window listing the post offices in your system. To connect to the Reload system, the address and port of the archive must be specified.



Specify the connection information and select **OK**. While Reveal is connected to a Reload system, the **Connect to Reload** button on the toolbar will be highlighted. To disconnect from the Reload backup and return to the live system, click on the highlighted button to switch the Reload connection off.



NOTE: To access the Reload post office backup, the Reveal Trusted Application Key must exist in the backup; Reveal cannot access Reload backups before the Trusted Application key was created.

Appendix 1: Troubleshooting

There are only a few reasons Reveal may have issues during operation.

- You are not able to connect to the GroupWise system - Ensure that your Reveal installation has access to the wpdomain.db
- You are not using a GroupWise Client v6.5.1 or later
- You are not currently logged into GroupWise during operation of Reveal
- Your Trusted Application Key is invalid and must be recreated
- User mailboxes are disabled

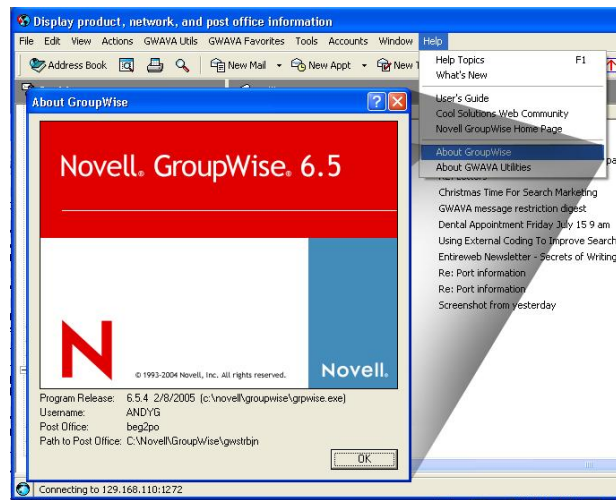
GroupWise version

Ensure your GroupWise client—the mail program installed on your PC—is at least GroupWise 6.5.1 or later. To check, launch your GroupWise client.

Select **About GroupWise** from the Help menu.

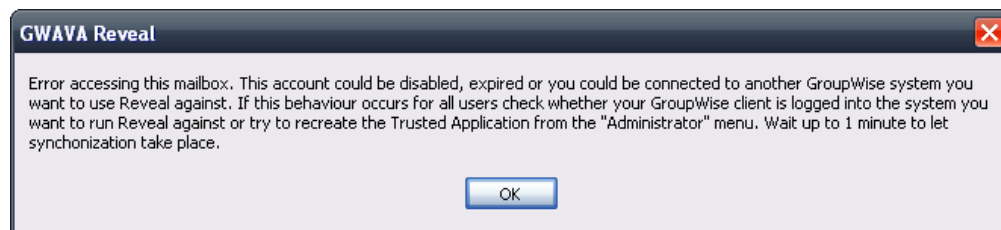
Note the Program Release field in the pop-up window. It must say 'GroupWise 6.5.1' or later.

Click **OK** when done.



If you cannot connect to users' mailboxes

User accounts are no longer enabled. Ensure Reveal is operating in on-line mode and not caching mode to ensure that the user list is up to date. Also check that you are logged into a GroupWise mailbox of a GroupWise system with which Reveal is to be used.



Reveal 2

Tip! - Create Log File

Enable log file creation from the Settings Menu. The Log file is useful in debugging Reveal's behavior and can be found in the Reveal program directory with the name debugginglog.txt.

Re-run the installer

The Reveal installer has a built-in repair function. Launch the installer, click the **Repair** button, **Next** and then **Install**.



Appendix 2: Uninstalling Reveal

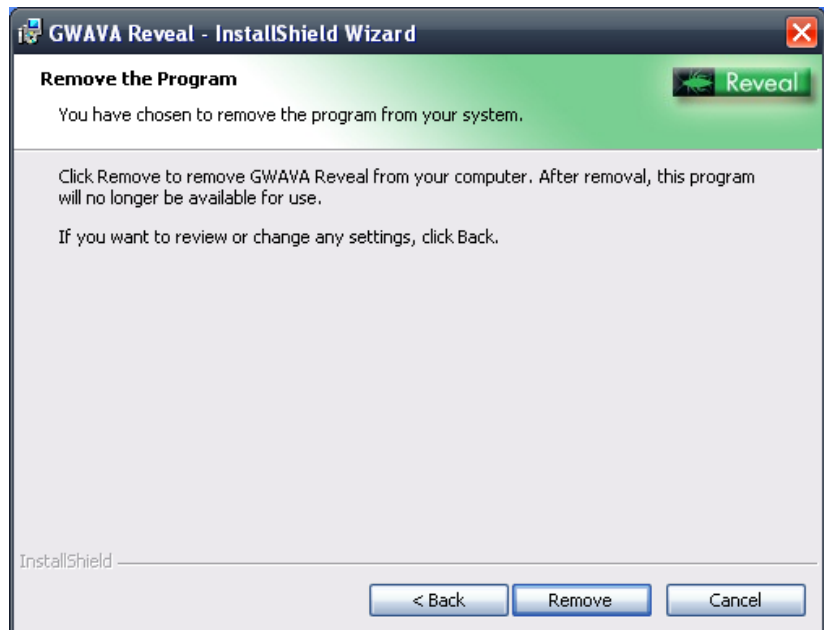
Removing Reveal is a straightforward, entirely automated process.

Launch the Reveal set up executable. Click the **Remove** radio button. Then, click **Next**.



You will be asked to confirm the removal. If you wish to proceed, click **Remove**. If not, click **Cancel** to leave your Reveal installation untouched.

The installer will then remove the program from your computer. Once this has been accomplished, click **Finish**.



Appendix 3: Search Scripts

Below is an example of the search criterion script for non-business-related attachments. Saved scripts are in the GWAVA/GWAVA Reveal/Scripts directory. Here is what a sample script looks like in its raw form.

[Description]

SearchDescription=All mail with unwanted attachments like mp3, avi, etc.

[Subject]

Any keyword=1
Selected subjects=0

[MessageText]

Any keyword=1
Selected MessageTexts=0

[Any field]

Any keyword=1
Selected AnyFields=0

[Sender]

Any keyword=1
Selected Senders=0

[Recipients]

Any keyword=1
Selected Recipients=0

[Attachments]

MustHaveAttachment=1
Selected Attachments=1
Item0=avi
Item1=mov
Item2=mp3
Item3=mpeg
Item4=mpg
Item5=ogg
Item6=swf
Item7=vqf
Item8=wav

[Size]

AllSizes=1
Small=0
Average=0
Large=0
Custom=0
CustomValue=2000

[Date]

AllDates=1
Selected dates=0
StartDate=<not set>
EndDate=<not set>

Samba Creation

Samba Installation (OES, OES2)

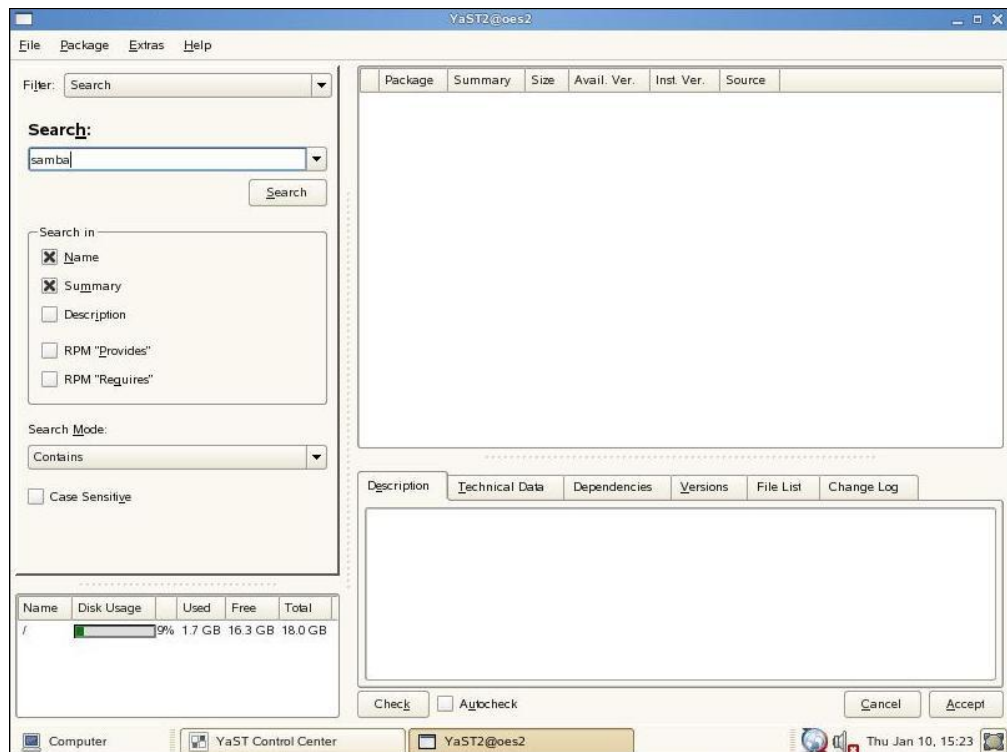
We must first verify that the Samba server package is installed and ready to use.

Launch YaST from the Programs menu in your preferred GUI. (Gnome is shown) Select the Software category in YaST, and then launch the Software Management tool (OES2) or the Add and Remove Programs (OES).

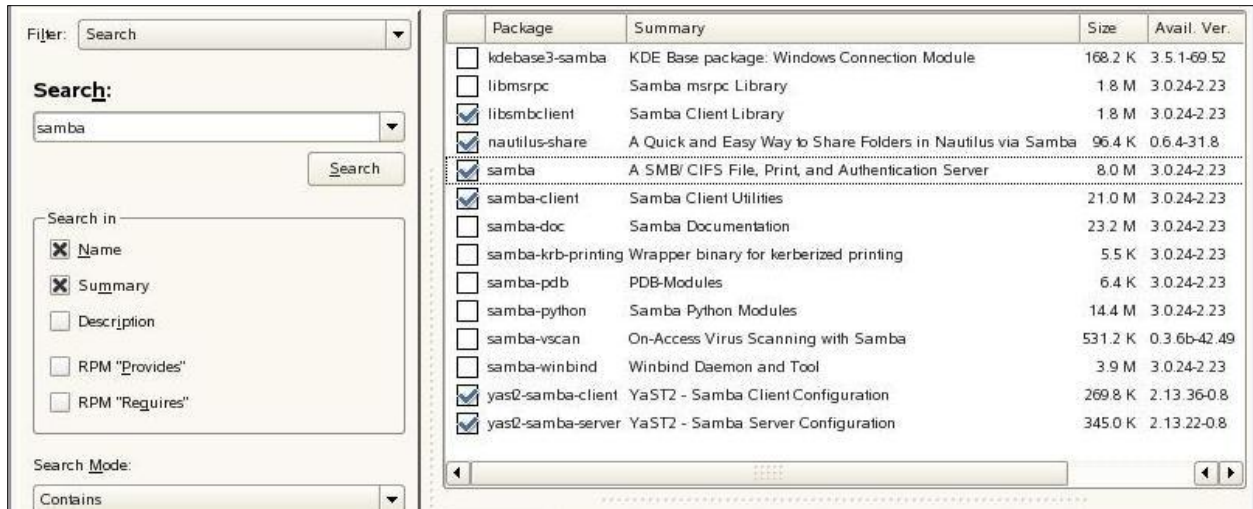
(Depending on how you are logged-in, you may be required to enter the root password in order to start YaST.) Wait for the software screen to initiate. You should see a screen that looks like this.



Change the Filter option to Search, and search for Samba.



Reveal 2



Make sure you have selected the main Samba package, called Samba, as well as the yast2 packages. (yast2-samba-server, yast2-samba-client) Without the yast-samba-server package, you cannot configure samba through Yast. If you desire to configure Samba on your own, this package is not needed. The other packages can be installed or ignored according to your desired setup. Click accept at the bottom of the install page. You may need to agree to any dependencies that were automatically added. If you have any broken dependencies or conflicts, resolve them according to your system setup.

It is highly recommended that you download/ install the approved and released version for your distribution of linux. If you are not running SLES 9, 10, 10.1, OES, or OES2, then search for the appropriate site for documentation and downloads for the source files of Samba.

If you desire to download and manually install Samba for your server, please visit <http://samba.org> to find specific instructions and download locations for your distribution.

Some good sites for full documentation and instruction

In general:

<http://www.mtuysadm.mtu.edu/samba/>

For Novell Products:

OES —

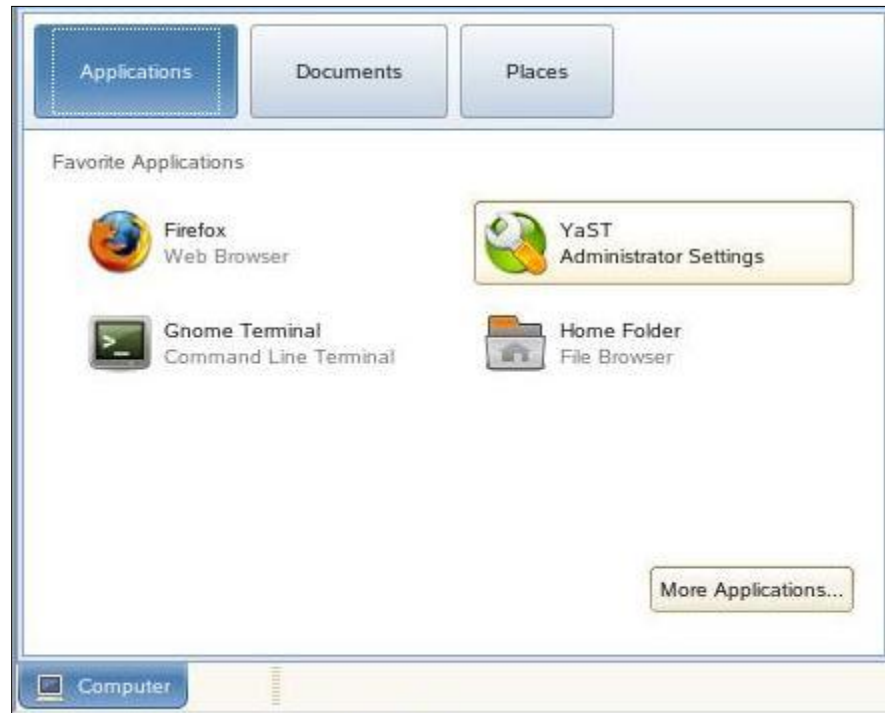
http://www.novell.com/documentation/oes/samba_admin/index.html?page=/documentation/oes/samba_admin/data/samba-users.html

OES2 —

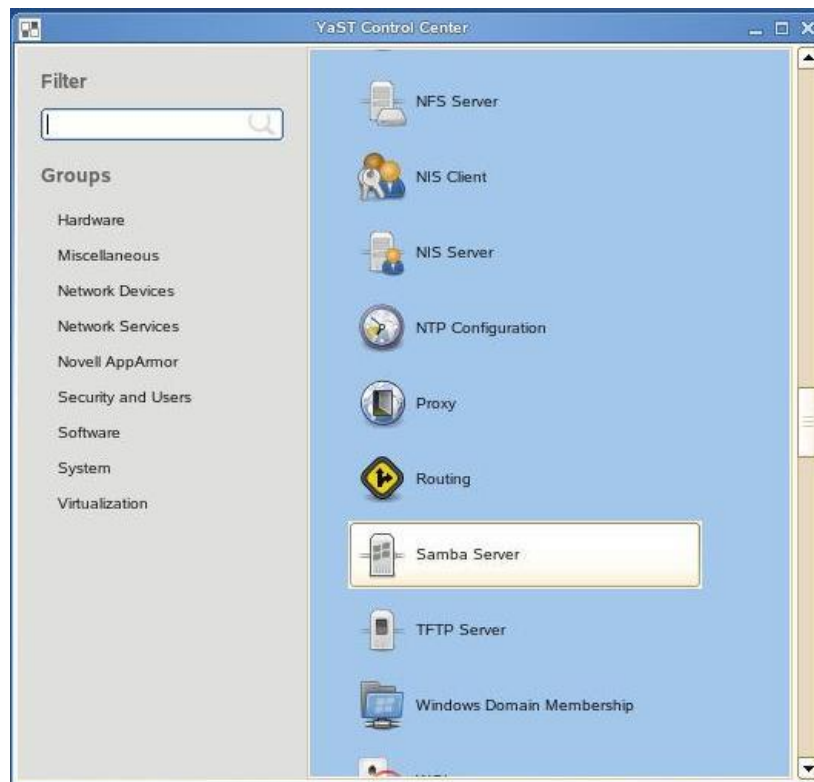
http://www.novell.com/documentation/oes2/file_samba_cifs_lx/index.html?page=/documentation/oes2/file_samba_cifs_lx/data/bway05g.html

OES 2 Samba Configuration

From the GUI of your choice, select and open YaST from the applications list.



From the YaST Control Center, Select the Network Services category then find and select the Samba Server object.

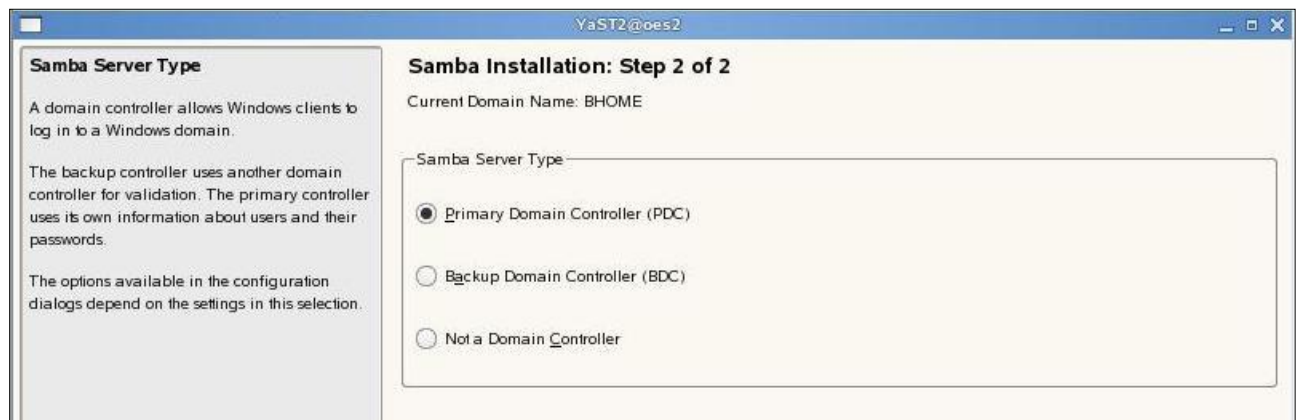


Reveal 2

After the Samba Server Configuration starts, you will be asked for some basic information on your network setup. The first step is to either join an existing windows workgroup or create a new workgroup for your Samba share to broadcast in.

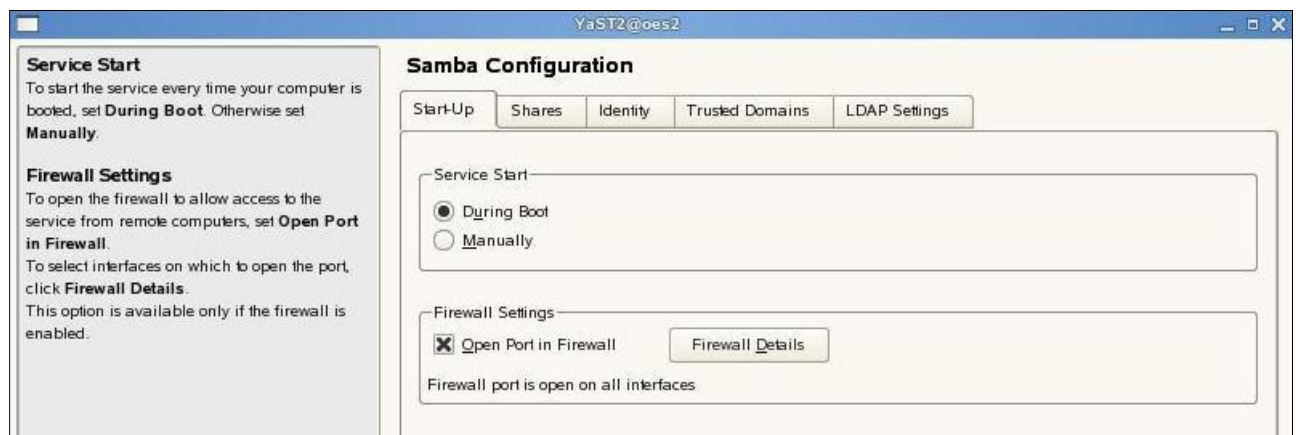


For our purposes, and to keep this share somewhat anonymous, create a new workgroup, named anything you like.



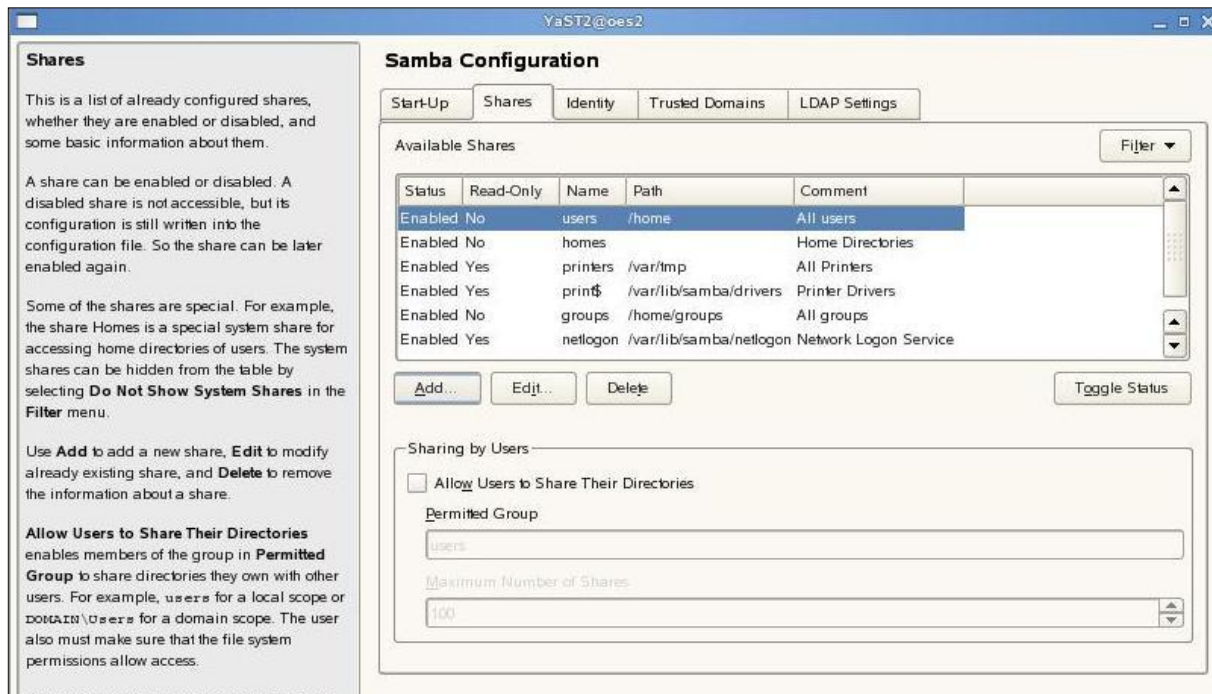
The Samba Server needs to know if it is going to be the Domain Controller for the Workgroup or not. Since we created our own workgroup, select Primary Domain Controller.

Set the Startup to During Boot so that the share will be available when the server is up.

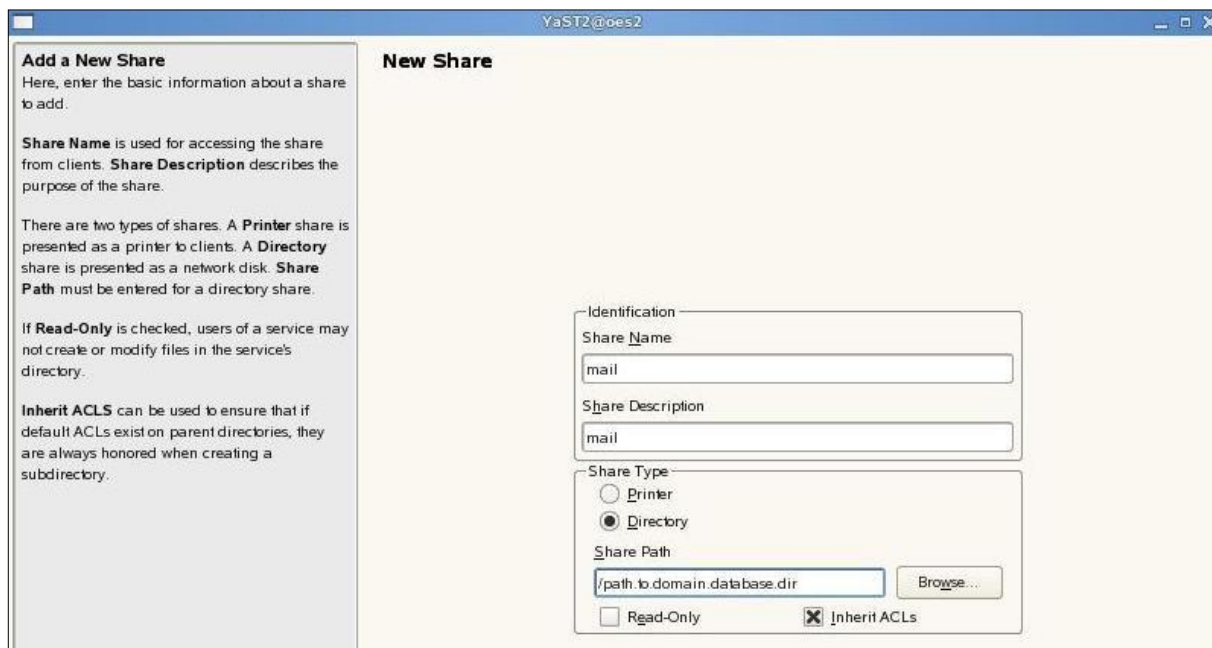


Reveal 2

Switch to the Shares tab in the configuration window.



We are not currently sharing the necessary folder to access the domain database. Select Add.



The Share Name is what will show as the name of the folder in your Windows browser

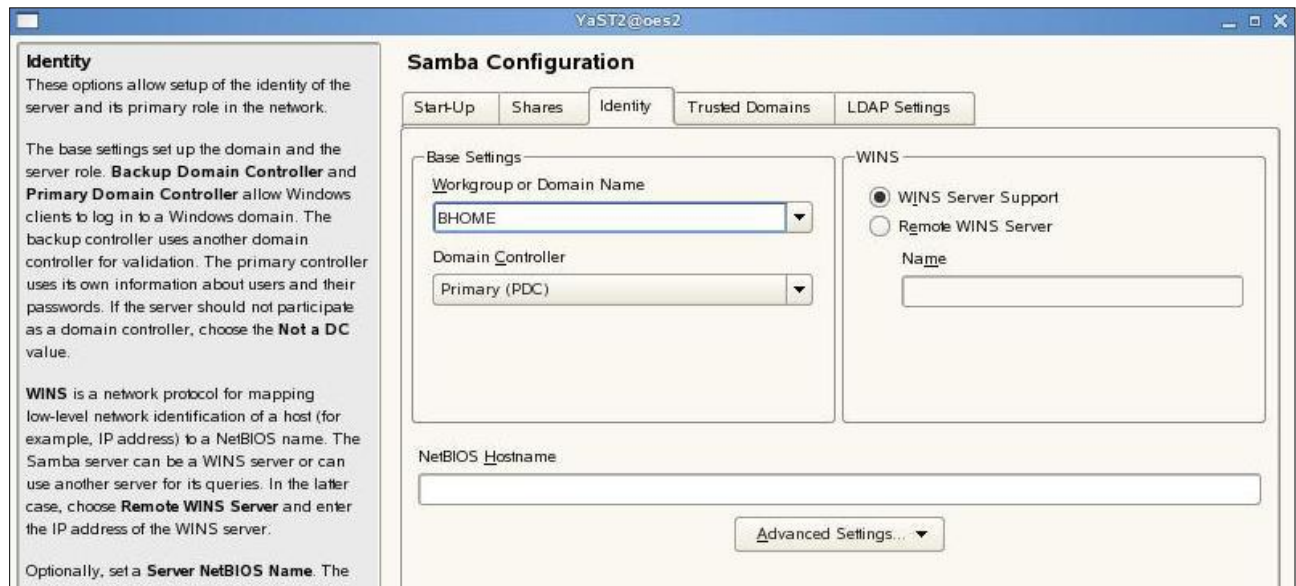
The share description is what will show in the properties, or mouse-over in a Windows browser

Make sure you have Directory selected in the Share type, and select Inherit ACL's. Vertigo will need the rights to edit the database, make sure that Read-Only is not selected.

Enter the absolute path, or browse to your domain directory in the Share Path dialog box.

Reveal 2

Select Identity



Since we created our own workgroup, we need to enable WINS Server Support.

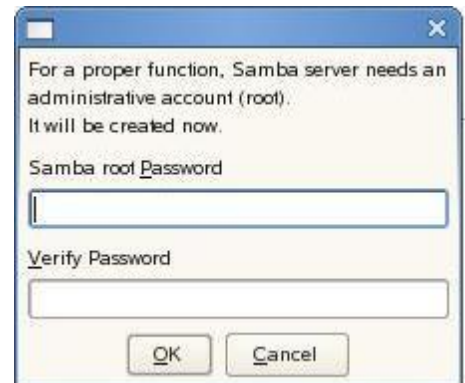
Select Finish from the bottom right.

You should be asked to specify a Samba root Password.

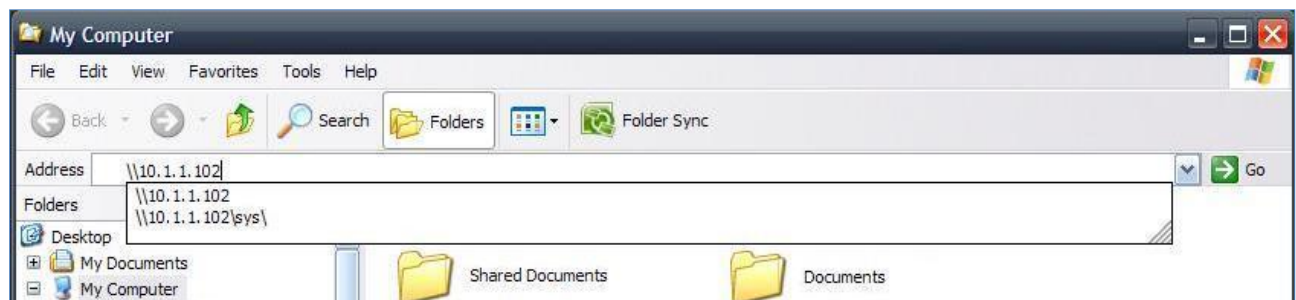
Enter the root password, verify, and click OK

Allow YaST to finish creating the share and start the Samba Service.

This should be done automatically.



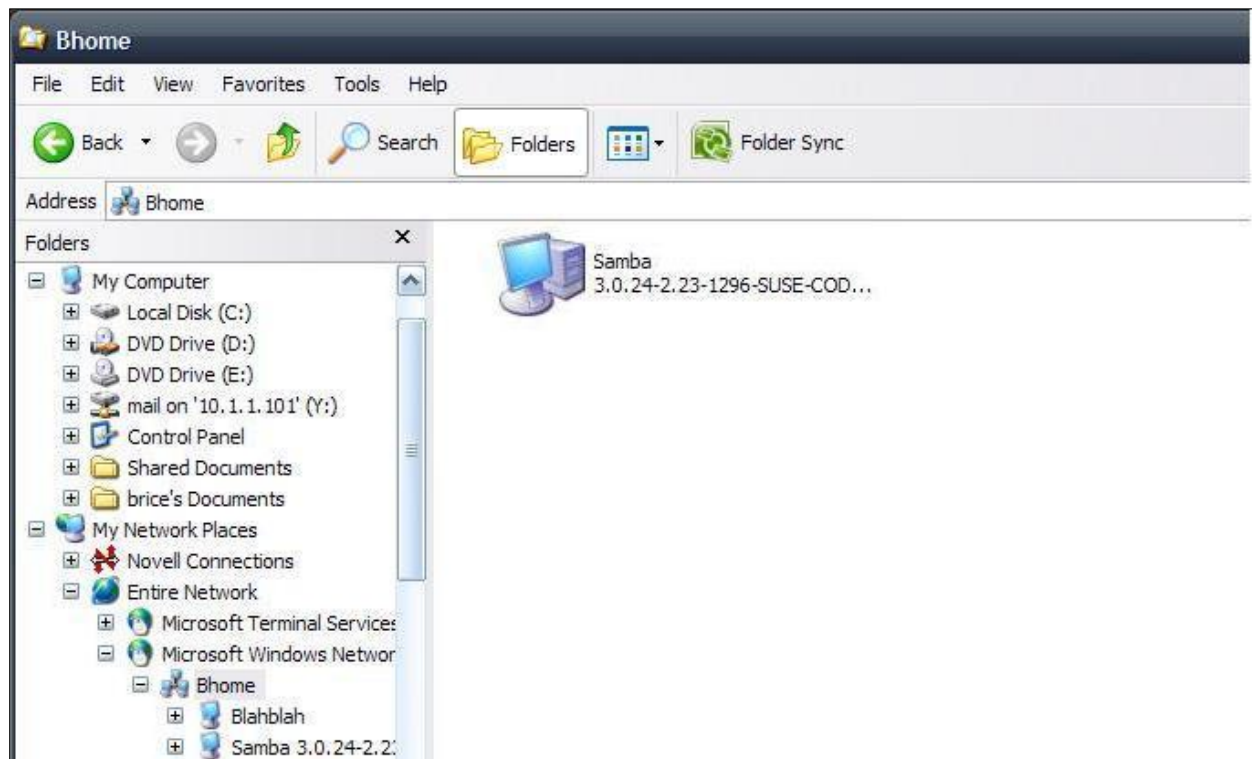
Return to your Windows workstation and open an explorer browser.



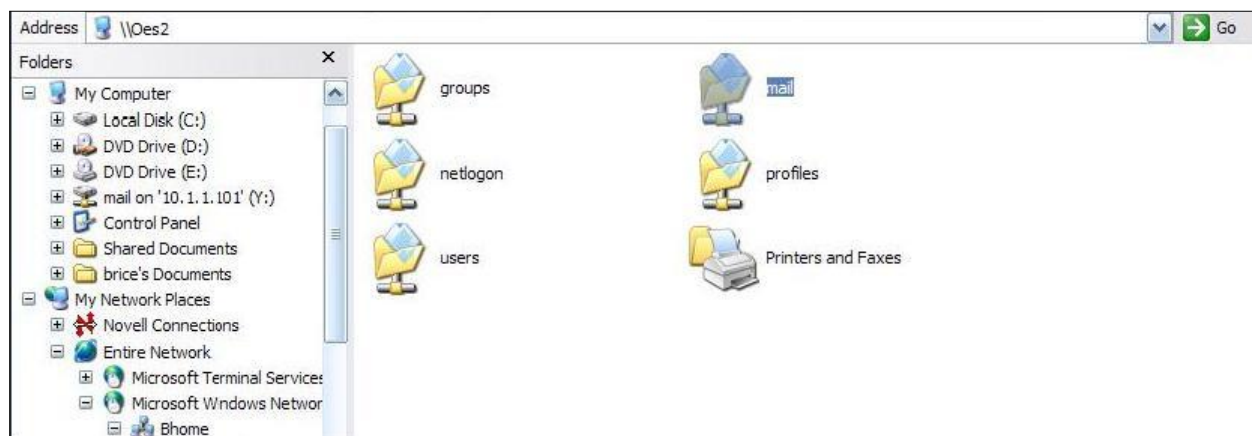
There are two ways to connect to your samba share. The first way, and usually the quickest way, is to enter the ip address of the server with the share in the format `\\<ip address>` or you can also use the hostname, `\\<hostname>`. (ie. `\\10.1.1.102` or `\\oes2`)

Reveal 2

The second way to connect to the share is to browse to the server through the My Network Places tree.



The share should show up like the pictured system above, under the workgroup you created. Open the computer and locate the desired share. In this case, we called the share 'mail'.



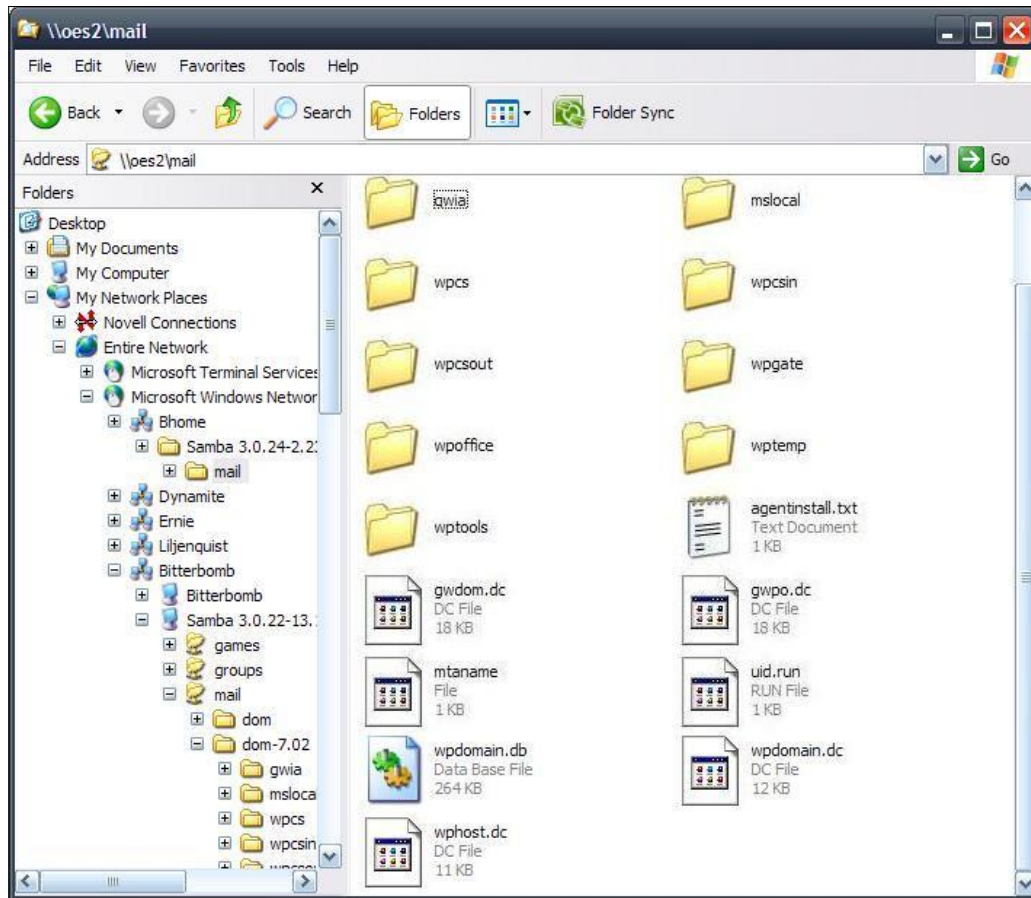
Double-click on the share containing your domain database. You should be required to authenticate to the Samba system.

Enter the user 'root' and the samba password you entered earlier.



Reveal 2

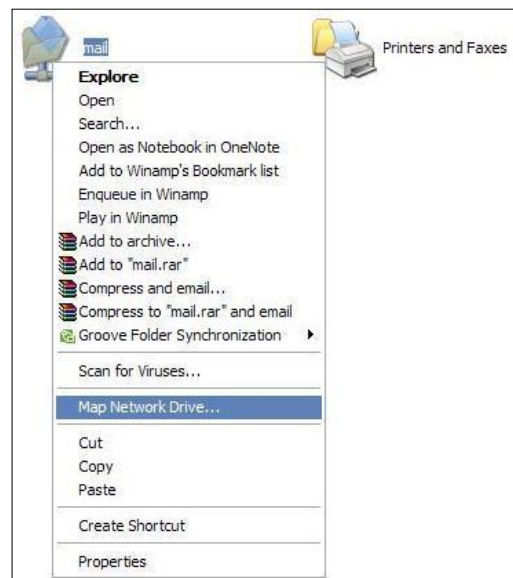
After authenticating, you should be able to view the domain directory and its contents.



Now you know that your system is working.

Right-click on the shared directory, in this case, 'mail'.

Select the Map Network Drive Option.



Reveal 2

Assign the desired drive letter to your mapped Samba share to the GroupWise domain database.



Select Finish to complete the setup of the mapped drive.

Sample Configuration File for Samba

WARNING: This sample file has no security whatsoever, but simply enables sharing of the desired directory. This essentially opens your directory to anyone who can see your network.

This sample configuration file is to be adapted and placed into the samba folder in your Unix system, for Suse, this is located at /etc/samba/smb.conf, other distributions may have this located at /usr/samba/lib/smb.conf.

[global]

workgroup = WORKGROUP <name of your desired workgroup>

[domain] <name of your share — folder name in windows explorer>

comment = this comment will show up in windows properties

path = /mail/domain <absolute path to domain database>

read only = no

guest ok = yes