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## Zimbra Archiving and Discovery

Zimbra Archiving and Discovery Feature, an optional feature for the Zimbra Collaboration Suite (ZCS) Network Edition, offers the ability to store and search all messages that were delivered to or sent by ZCS. Archiving is configurable on a per account basis. When archiving is enabled for an account, any email from or to that account is forked at the MTA, and a copy of the message is delivered to a predefined archive mailbox. The archiving process is transparent to account users.

ZCS archiving can be set up to create archiving accounts that are maintained within ZCS or can be set up to work with third-party archiving systems using SMTP forwarding to forward messages to a third-party archive server. For third-party archiving, ZCS is configured to act as the forwarding agent.

### How Archiving Works

When a message is sent or received by a user in ZCS, the message is always routed through the Postfix MTA. The Postfix MTA allows integrating software that can perform actions on messages that are in flight. Zimbra Archiving works by integrating with such an MTA hook and the Amavisd-New utility to fork a copy of the message if archiving is enabled for the sender or recipient of the message.

The “does recipient or sender have archiving enabled” check is performed on the RFC2821 envelope and not on the From or To/Cc headers. Since checks are performed on the envelope, Bcc copies are captured by the system, as are messages sent to distribution lists.

For example, if User A sends a message to User B, and if User B has archiving enabled, the MTA will deliver two messages — one to User B and one to User B’s archive mailbox. The message received in User B’s mailbox will look normal, as shown below:

```
Received: from localhost (localhost.localdomain
[127.0.0.1])...
From: userA@example.com
To: userB@example.com
Subject: New License Key
Message-ID: <015f01c717fe$70f042d1$b1d6f61d@thom>
Date: Mon, 04 Dec 2006 23:48:18 -0000

Hi B,
Can you send me the license key for the software
again?
Thanks, A
```



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The message received in User B's archive mailbox will contain additional **X-Envelope-From** and **X-Envelope-To** headers. These headers show the real email address the message was sent from and each of the email addresses that the message was sent to.

```
Received: from localhost (localhost.localdomain
[127.0.0.1])...
From: userA@example.com
To:userB@example.com
Subject: New License Key
Message-ID: <015f01c717fe$70f042d1$b1d6f61d@thom>
X-Envelope-From: userA@example.com
X-Envelope-To: userB@example.com
Date: Mon, 04 Dec 2006 23:48:18 -0000

Hi B,
Can you send me the license key for the software again?
Thanks, A
```

## Mailboxes and Their Archive Accounts

If mail is being archived to local ZCS archive mailboxes, two attributes are set on the primary user's mailbox to track that archiving is enabled and where messages are being archived to.

- **amavisArchiveQuarantineTo** — The current archives address. If this is unset, archiving is not enabled.
- **zimbraArchiveAccount** — Any previous and current archive addresses that this mailbox was archived to.

## Configuring Archive Account Names

In order to construct archive account names, ZCS supports two attributes that establish the archive naming conventions. These attributes are used to create and manage archive accounts naming scheme. You can set up these attributes by either COS or by account. For COS, these attributes can be changed using **zmprov mc**. For accounts, use **zmprov ma**.

- **zimbraArchiveAccountDateTemplate**. This attribute sets the date format used in the name template. The default is `yyyyMMdd`. Adding the date to the account name makes it easier to roll off older data from the system to backups.
- **zimbraArchiveAccountNameTemplate**. This attribute sets up how the archive mailbox name will be created. The default value is ``${user}`-`${date}`@`${domain}`.archive`. The archive account address would be like this example: `user-20070510@example.com.archive`. If you change the default value, you must use syntax that creates a valid email address. We recommend that you add `.archive` to all archive accounts to



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create archive mailboxes in a non-routable domain to prevent spoofing of the archives.

## Creating Archive Mailboxes

Archive mailboxes are created using the CLI, `zmarchiveconfig`.

Note: Archive accounts you create are counted against the number of accounts you can create based on your ZCS license. Archive mailboxes are listed in the administration console along with the live accounts.

### To create an archive mailbox with no COS or password:

1. Log on as Zimbra
2. Type `zmarchiveconfig enable user@example.com`. This creates an archive mailbox using the naming conventions identified in the archive templates.

If the archive account is not assigned a COS, the following settings are set by default.

- Mailbox quote is set to 0, unlimited quota.
- Spam and virus checks are disabled.
- Hide in GAL is enabled, so the archive account does not display in the GAL

### To create an archive mailbox and assign a COS:

1. Log on as Zimbra.
2. Type `zmarchiveconfig enable <account@example.com> \ archive-cos <cos>`

You can add additional account attributes to the archive account.

Archive accounts are created based on the Zimbra Archive name templates described above. When an archive account is created, the attribute **ZimbraIsSystemResource** is added and set to TRUE. The account is displayed in the administration console.

When a message is received to a mailbox with archiving enabled, a copy of the message is sent to the archive mailbox with the text “to be archived” added to the subject line.

### To enable archive forwarding to a third-party archiving server:

1. Log on as Zimbra.
2. Type `zmarchiveconfig enable <account@example.com> archive-address account-archive@offsiteserver.com archive-create false`.

**Note:** If the archive account is not maintained within ZCS, you do not need to set a password, COS or other attributes as no archive account is created in ZCS.



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## Cross Mailbox Search

The Archiving feature includes a search tool that lets you quickly search across live and archive mailboxes for email messages and attachments. The cross mailbox search tool runs from the administration console and the results are copied to a target mailbox that you specify.

Note: A “live” mailbox is any account on the system other than archive accounts and system accounts.

You can search outgoing and incoming email by date, from, to, cc, subject, keywords, and attachments. Advanced Search can be used to quickly create a query to search by name, dates and time ranges, distribution list, aliases.

You can organize your search results by creating different target mailboxes or by creating individual folders within a target mailbox for each search you run. **X-Zimbra-Source** header information is added to each message header that is copied to the targeted mailbox. This header label includes the account ID, the account name, and the server that the account resides on.

To see the results, you enter the target mailbox address and password to log in.

### How to Install

To use the cross mailbox search tool, you must install this tool on the administration console.

Download the cross mailbox search package tar file to the server.

#### To install the cross mailbox search

1. Copy the file to /tmp  
`cp zimbra-cms-*.tgz /tmp`
2. As root, extract the tar file. To extract the files to the correct directory type:  
`cd /opt/zimbra`  
`tar xzvf /tmp/zimbra-cms-*.tgz`

```
root@example.com# cd /opt/zimbra
root@example.com zimbra# tar xzvf /tmp/zimbra-cms-
4.5.6_GA_1073.tgz
lib/
lib/ext/
lib/ext/zimbra_xmbxsearch/
lib/ext/zimbra_xmbxsearch/zimbra_xmbxsearch.jar
zimlets-network/
zimlets-network/zimbra_xmbxsearch.zip
```



3. To deploy this Zimlet file, su to zimbra and type  
zmzimletctl deploy zimlets-  
network/zimbra\_xmbxsearch.zip

```
[zimbra@example~]$ zmzimletctl deploy zimlets-  
network/zimbra_xmbxsearch.zip  
[] INFO: Deploying on example.com  
[] INFO: Deploy successful  
[zimbra@example ~]$
```

4. Restart Tomcat, type  
zmcontrol stop  
zmcontrol start

## How to Use

After you install the cross mailbox search tool, the Search Mail tool is listed in **Tools** on the administration console Navigation pane. When you click on **Search Mail**, a search wizard opens. The following is the type of information you configure.

- Select target mailbox and folders. One target mailbox and folder is created automatically. You can use this mailbox for all you search results and create new folders for each search, or you can create a new target mailbox for different searches.

**Note:** A target mailbox is like any other mailbox and can have any features or preferences that are defined by the COS or by account. Target mailboxes are listed in the administration console Accounts list. You may want to give the target mailboxes account names that identifies them as target mailboxes for cross-mailbox searches and configure a COS specific for target mailboxes to be able to manage access.

- The **Maximum number of messages** field can be used to limit the number of messages that are returned from the search. If this field is blank or 0, all messages that meet the search criteria are returned.
- You can select to automatically notify interested parties when the search is complete. The email notification includes the search task ID and status on the subject line and you can specify the type of to include in the message, such as the number of messages found, the list of addresses resulting from the search and the search query used.
- Select which mailboxes to search: all archive mailboxes, all live mailboxes or selected mailboxes. When you check **Select accounts to search**, you select which account addresses to search.
- Create the search query. You can search outgoing and incoming email by date, from, to, cc, subject, keywords, and attachments. Advanced Search can be used to quickly create a query to search by name, dates and time ranges, distribution list, aliases. For a list of the search grammar that can be used see the Zimbra Wiki, Search Tips article.



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When searching archive messages, you can search by the envelope address using the **envfrom** and **envto** query language extensions.

As the search is being run, the Search Mailbox Content pane lists the search and the status. You can click **Refresh** to update this page.

You should delete the search task when it is completed as it occupies server memory. **Note:** When the server is restarted the searches listed in the Search Mailbox Content pane are deleted.