These release notes describe the new features and enhancements that are available in the ZCS 7.1.4 Open Source release. Review the Known Issues section for a list of outstanding issues in this release before installing or upgrading.

The following sections are included in the release notes:

- **Major New Feature Enhancements for 7.1 on page 2**
- **Enhancements in 7.1.3 on page 2**
- **System Updates for 7.0 and 7.1 on page 4**
- **Major Fixes in 7.1 Releases on page 5**
- **Major Issues Fixed for 7.1.4 on page 5**
- **Security Fixes for 7.1 on page 12**
- **Beta Features in ZCS 7.1 on page 12**
- **Future Changes to ZCS on page 13**
- **Upgrade Process on page 14**
- **After the Upgrade is Complete on page 17**
- **Upgrade Instructions on page 15**
- **Status of Your Customizations to ZCS after Upgrade on page 19**
- **Known Issues on page 20**
- **Bug Reporting on page 21**

**Note:** If you are upgrading from 6.X, for a detailed description of the major enhancements made in ZCS 7, read the ZCS 7.0 release notes. Also review the User Interface Changes document. Both of these documents are on the Zimbra website, Support section, http://www.zimbra.com/support/documentation/zcs-ne-documentation.html
Major New Feature Enhancements for 7.1

- Open ID Consumer Support (Bug 17147)
- Certificate authentication support (Bug 29625)
- Phonetic contact fields (Bug 52823)

Enhancements in 7.1.4

- In the administration console the account's Contact Information page now includes fields for Fax Number, and Job Title. (Bug 12253)
- IMAP Expunge resets the new message counter. (Bug 43863)
- Added support for charset ISO-8859-9-1. (Bug 44587)
- ZWC UI support for Thai language (Bug 52429)
- Apache tmp folder now uses zimbra_tmp_directory. (Bug 53183)
- The notify filter action now supports an option to include all original headers in the notification message. (Bug 64839)
- Active IMAP connection is dropped if zimbraUserServicesEnabled is FALSE. (Bug 65464)

- attribute zimbraMessageIdDedupeCacheTimeout has been added to workaround de duping issues caused by clients incorrectly using the same message ID for different messages. When set to zero (default), the zimbraMessageIdDedupeCacheSize limit is used, and there is no timeout. When set to a non-zero value, the zimbraMessageIdDedupeCacheSize limit is ignored and the specified value is used as the timeout value for a message ID entry in the LMTP de dupe cache. (Bug 44564)

Enhancements in 7.1.3

- Ability to have POP3/IMAP login with a user ID other than the user's mail addresses. See Bug 21794 to configure this option. (Bug 21794)

- The font list in Zimbra Web Client has been changed. The list now includes these fonts:
  - Arial = Sans Serif
  - Times New Roman = Serif
  - Arial Black = Wide Block
  - Courier New = Monospaced
  - Comic Sans MS = Comic
  - Lucida Console = Console
  - Garamond = Garamond
• Georgia = Elegant
• Tahoma = Professional
• Terminal = Terminal
• Trebuchet MS = Modern
• Verdana = Wide

(Bug 61679)
• Images can now be pasted in the email message body when working in the Google Chrome browser. (Bug 63720)
• Filter processing actions are now logged. The command to turn on filter logging is `zmprov aal <user@example.com> zimbra.filter trace`. (61184)
• A new account/COS attribute `zimbraPasswordMinDigitsOrPuncs` has been added to allow the administrator to specify the minimum number of numeric or ASCII punctuation characters required in a password. The regular expression of the allowed punctuation characters can be specified using the `zimbraPasswordAllowedPunctuationChars` attribute. (Bug 60973)
• IPv6 is supported for external facing interfaces on the edge servers (MTA, Nginx). (Bug 63685)
• Postfix and Amavis enhancement for IPv6. (Bug 63709)

Enhancements in 7.1.2
• Red Hat® Enterprise Linux®, AS/ES 6 (64-bit, mid-version) GA for 7.1.2. (Bug 46506)
• Two-way SSL authentication is supported on systems with reverse proxy enabled. (Bug 58152)
• Two sets of localconfig keys where added, one for `sInternalConnMgr` and another for `sExternalConnMgr`. See After the Upgrade is Complete on page 17 for a list of keys that were deprecated and new keys that replaced them.

If you have modified any of the deprecated keys from the default value, you need to re-apply the same changes to the corresponding new keys. (Bug 59707)
• The Socialcast account can now be configured using the Social Zimlet. (Bug 60813)
• A new admin view button has been added to the delegated admin view options. The Help Search View in the admin console can now be added to a delegated admin’s role. (Bug 61009)
• A RegEx rule for email validation can be configured from the administration console Global Settings and Domains Advanced tabs, Account Email Validation Setting section. In the **Regular expression for invalid email address** field, enter the text string to identify invalid email addresses.

For example, if you enter `test@\d+.com`, email addresses with a number in the domain name are invalid. (test@123.com or test@1.com etc.)

This validation does not work in the standard Zimbra Web Client. (Bug 60979)

**Enhancements in 7.1.1**

• Users can now recover any items, including Briefcase files, contacts, appointments, that have been deleted or emptied from their Trash folders. Bug 51562

• When a message is dragged to the mini calendar to make a new appointment, a dialog displays asking if the sender and other recipients in the mail should be added to the appointment. (Bug 13096)

**System Updates for 7.0 and 7.1**

Red Hat Enterprise Linux, AS/ES 6 (64-bit, mid-version) **Deprecated Platforms (for Open Source Edition):**

• Debian 5 (32- and 64-bit)
• Fedora 11 (32- and 64-bit)
• Red Hat Enterprise Linux 4 (32-bit)
• Red Hat Enterprise Linux 5 (32-bit)
• SUSE Linux Enterprise Server 10 (32-bit)
• Ubuntu 8.04 LTS (32-bit)

**Note:** Deprecated platforms will EOL after ZCS 7.0

**End Of Life Platforms (for Open Source Edition)**

• Ubuntu 6.06 LT (32- and 64-bit)
• Mac OS X 10.4 Tiger (32-bit)
• Debian 4 (32-bit)
• Fedora 7 (32-bit)

**Note:** End-of-Life platforms are not available for ZCS 7.0 and will not be available in the future.

**Browser Support (Zimbra Web Client):**

• Internet Explorer 6.0 is no longer supported in Advanced Web Client and only supported in Standard Web Client.
## Major Fixes in 7.1 Releases

### Major Issues Fixed for 7.1.4

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>57330</td>
<td>The ZCS LDAP server can now interact correctly with non-Zimbra LDAP clients when a CA with multiple chains of trust are used.</td>
</tr>
<tr>
<td>61147</td>
<td>Added line folding for MIME headers</td>
</tr>
<tr>
<td>63798</td>
<td>Using Zimbra Web Client in Internet Explorer 8 and 9 now works correctly.</td>
</tr>
<tr>
<td>64747</td>
<td>Attachments are now retained when an appointment is updated by a CalDAV client.</td>
</tr>
<tr>
<td>65408</td>
<td>Resolved an out of memory issue during MIME parsing caused by a mal-formed message.</td>
</tr>
<tr>
<td>65430</td>
<td>Avoided GAL sync deadlock because of DB pool resource limitation by increasing the default item cache size for the GAL sync account. The item cache size is now configurable via the LC key, <code>zimbra_mailbox_galsync_cache</code> (default is 10,000). Customers should set it to a number as big as the number of items in the galsync account. A mailbox server restart is required for any changes to become effective. An increased cache size will cause a small increase in memory usage. With 10,000 test accounts with very basic information, memory usage is increased by about 10-15 MB. If the contacts have more information, the memory usage will be higher.</td>
</tr>
</tbody>
</table>
| 65653 | Beginning with 7.1.4, the default for new installs for local config key `soap_fault_include_stack_trace` is FALSE. Stack traces are not sent back to the Zimbra Web Client. Customers who want to enable/disable stack trace in soap fault can run these `zmlocalconfig` commands manually: Enable java stack trace in soap fault: 

```
zmlocalconfig -e soap_fault_include_stack_trace=true
zmlocalconfig --reload
```

Disable java stack trace in soap fault: 

```
zmlocalconfig -e soap_fault_include_stack_trace=false
zmlocalconfig --reload
```
| 65748 | Updated time zone definition to latest 2011 set. |
| 66192 | Fixed issue that caused messages with attachments to not display correctly. |
Starting with ZCS 7.1.4, SOAP requests issued from
SoapProvisioning will not request for a session by default, because the great majority of SoapProvisioning usages do not need or benefit from a session.

A "needSession" option is added when constructing a SoapProvisioning instance. Existing SoapProvisioning clients will have to set the needSession option to explicitly request a session if the instance needs a session.

The needSession option can be specified on:
SoapProvisioning(boolean needSession)
SoapProvisioning.getAdminInstance(boolean needSession)
SoapProvisioning.Options.setNeedSession(boolean needSession)

The only case SoapProvisioning can benefit from a session is when a SoapProvisioning instance is used repeatedly with same parameters for the following SoapProvisioning APIs:
• getQuotaUsage
• searchDirectory

For the above SOAP commands, server caches result in the session and returns cached data when appropriate.

Note again: SoapProvisioning can benefit from a session only if the same instance if repeatedly used.

e.g.
boolean needSession = true;
SoapProvisioning prov = SoapProvisioning.getAdminInstance(needSession);
prov.getQuotaUsage(server1);  // fresh data is calculated
prov.getQuotaUsage(server1);  // cached data is returned
prov.getQuotaUsage(server1);  // cached data is returned

NOT:
boolean needSession = true;
SoapProvisioning.getAdminInstance(needSession).getQuotaUsage(server1);  // fresh data is calculated
SoapProvisioning.getAdminInstance(needSession).getQuotaUsage(server1);  // fresh data is calculated
SoapProvisioning.getAdminInstance(needSession).getQuotaUsage(server1);  // fresh data is calculated

Read and unread status of emails sync correctly with the Motorola BLUR email client

ZCO - Fixed issues that caused localized named folders to not sync correctly
<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>68521</td>
<td>In 7.1.3 and previous versions, it is possible to cause slapd to lock up if a modification to the cn=config database occurred at the same time a read of the LDAP database that had a large number of results was being processed.</td>
</tr>
<tr>
<td>67686</td>
<td>The issues that caused a blank reply to a message sent using Safari 5.1.2 has been fixed.</td>
</tr>
</tbody>
</table>

**Major Issues Fixed for 7.1.3**

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11562</td>
<td>New users created in Active Directory are now displayed in the Zimbra Web Client GAL.</td>
</tr>
<tr>
<td>56458</td>
<td>Fixed issues that caused the mail TAR file to not generate correctly when users export their mail.</td>
</tr>
<tr>
<td>59061</td>
<td>Fixed issues that caused junk characters to be added to text attachments in Task or Calendar appointments.</td>
</tr>
<tr>
<td>59103</td>
<td>When composing in a new window, the window is now wide enough to fit the Select Addresses dialog.</td>
</tr>
<tr>
<td>59988</td>
<td>Security fix.</td>
</tr>
<tr>
<td>60323</td>
<td><code>zmskindeploy</code> no longer appends duplicate information to a skin's ccs file.</td>
</tr>
<tr>
<td>60480</td>
<td>Fixed issues that caused full headers and encoded messages to display on the Samsung Galaxy S II. <strong>Important.</strong> After ZCS is upgraded to 7.1.3, Samsung Galaxy mobile device users running Android must re-provision their accounts (delete and re-add the A/C on the device.)</td>
</tr>
<tr>
<td>60563</td>
<td>If users have the Undo-Send zimlet enabled and are seeing the problem of sending blank emails, they should disable the Undo Send Zimlet on their Zimlets Preferences page.</td>
</tr>
<tr>
<td>61253</td>
<td>When replying to or forwarding a message, the body of the compose window is always pre populated with the appropriate text.</td>
</tr>
<tr>
<td>61435</td>
<td>Dangling IMAP folder subscriptions resulting in <code>mail.NO_SUCH_FOLDER</code> error has been fixed.</td>
</tr>
<tr>
<td>61605</td>
<td>Fixed issues with the bubble mode that caused only the first email address of a group list to receive the email message.</td>
</tr>
<tr>
<td>61634</td>
<td>Security fix.</td>
</tr>
<tr>
<td>62083</td>
<td>Moving calendar events between calendars with using Apple -iCal 5 now works.</td>
</tr>
</tbody>
</table>
62494  External email addresses with `sendToDistList` right to a distribution list can now send to the distribution list successfully.

62617  Shared Calendars now works correctly on iCal.

62621  The description “Always show email address with names” has been changed to “Display names in place of email addresses when available.”

62726  Fixed the page width that displays with the standard Zimbra Web Client when the screen resolution is <=1024. When the display is modified for this screen resolution, the Group Mail by and View are displayed in a drop-down menu.

63100  Fixed the issue that caused a deadlock because of a race condition where two threads try to lock two mailboxes in a different order.

63195  A new OS/3rd party prerequisite is being added starting in 7.1.3. nc or netcat is used as part of the watchdog process in zmconfigd. Customers might need to install this application on their servers prior to upgrading.

**Major Issues Fixed for 7.1.2**

31323  The waitset API now works correctly when a mailbox is moved from one server to another. The wait set returns the `WRONG_HOST_FOR_ACCOUNT` error type when a mailbox is moved.

58404  `ServletOutputStream` was not adhering to Servlet Spec 2.5 and throwing wrong IO Exception type, causing a HTTP500 error for any HTTP “HEAD” request. The Servlet API version was updated to adhere to Servlet Spec 2.5 and throw correct exception.

59144  The list name field can now be edited when domain administrators create a DL in Google Chrome or Apple Safari.

59889  Fixed the issue that caused Internet Explorer 8 and 9 to hang when the Google maps or Yahoo! Zimlets were opened.
ZCS now handles recurrence series update in a way compatible with Microsoft Exchange. When the organizer updates the time of a series, all the exception instances will be blown away. ZWC warns about this when the organizer is about to make the change.

Customers who prefer the old behavior, where updates to the series are applied without affecting exception instances, can set the account/COS attribute `zimbraCalendarKeepExceptionsOnSeriesTimeChange` to TRUE (default is FALSE).

Applying the Mysql51.pl script requires all Zimbra services except mysql.server to be stopped. See the MySQL table description on page -17.

In ZWC, the quota information now displays even when the quota is unlimited.

When using Chrome for ZWC, the issue that caused the new line to be added below the signature when composing a reply has been fixed.

Beginning with 7.1.2, Access and trace logs are now written to the `/opt/zimbra/log` directory.

There is an message indexing issue where the subject was mistakenly repeated during the index that results in incorrect search results when using quotes in a phrase query.

For an example of the issue, if the subject is One Two Three Four and the search query is “Four One”, the search results return the subject, One Two Three Four.

But a subject search for a phrase consisting of the last word of the subject followed by the first word should not match.

The issue has been fixed, but to fix the indexing after an upgrade you will need to reindex all messages.

Major Issues Fixed for 7.1.1

To see a list of all the changes for this release, see the Zimbra Product Portal, (http://pm.zimbra.com/pm_release.php?rel=7.1&prod=zc)

Address Book photos up to 2MB (default limit) now sync to devices via mobile sync, and can be configured via the LC key `zimbra_activesync_contact_image_size`.

UI change admin console. A new label, List Member, was created to search for a member of a distribution list from the admin console.
<table>
<thead>
<tr>
<th>Ticket</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40308</td>
<td>Declined events now are displayed as grayed out in public shared calendars viewed using the standard ZWC.</td>
</tr>
<tr>
<td>40506</td>
<td>Fixed issues that caused CalDAV notifications to appear as sent “on behalf of” when there was an alias for the account.</td>
</tr>
<tr>
<td>53062</td>
<td>UI change. Account quota is now displayed as a bar under the name in ZWC.</td>
</tr>
<tr>
<td>53090</td>
<td>Contact information that includes custom fields, including “other phone” label, now sync correctly.</td>
</tr>
<tr>
<td>53206</td>
<td>Fixed the contact form to insert a space before the Postal Code so that the contact information displays correctly.</td>
</tr>
<tr>
<td>55289</td>
<td>Worked around an Android issue where emails forwarded from Android devices cannot be viewed on Android devices when connecting to ZCS via mobile sync. Instead of forwarding a message as an RFC822 .eml attachment, inline forwarding with plain/text content is now used by default. For customers using Android 3.0 devices that support .eml attachments, they can set the LC config key <code>zimbra_mobile_smart_forward_rfc822_enabled</code> to <code>TRUE</code> (default is <code>FALSE</code>).&lt;br&gt;Note: Starting in ZCS 8.0, this will be controlled by the COS/acct level attribute <code>zimbraMobileSmartForwardRFC822Enabled</code> (default is <code>FALSE</code>).</td>
</tr>
<tr>
<td>Ticket</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>57182</td>
<td>Before migrating accounts from the admin console, the CA certificate of the source computer must be migrated to the destination server. To do this, use the UNIX <code>scp</code> command to securely transfer the certificate between the computers. For example: moving a certificate for accounts migrating from Server_A to Server_B would be run as <code>scp ca.pem</code> from Server_A to Server_B 1. Copy the certificate, <code>ca.pem</code> on Server_A to the directory <code>/tmp/</code>. On Server-A type <code>sudo cp /opt/zimbra/ssl/zimbra/ca/ca.pem /tmp/</code> 2) Use <code>scp</code> to securely transfer the <code>ca.pem</code> certificate from Server_A to Server_B. On Server_B type <code>$ scp Server_A:/tmp/ca.pem /tmp/</code> 3. Import the <code>ca.pem</code> in the <code>/tmp/</code> directory into Server_B’s keystore <code>sudo /opt/zimbra/bin/zmcertmgr addcacert /tmp/ca.pem</code> 4) Log in to the admin console from Server_B, and run the account migration wizard.</td>
</tr>
<tr>
<td>57402</td>
<td>Contact information for birthday and anniversary are saved correctly in the Dutch (NL) version of ZWC.</td>
</tr>
<tr>
<td>57542</td>
<td>UI Change. ZWC Help now includes additional links to the Zimbra Help Central Online and to the New Features document. Also there is an About link that displays the ZCS version that is running.</td>
</tr>
<tr>
<td>57785</td>
<td>Issues that caused amavisd to not attach the HTML or text signature have been fixed.</td>
</tr>
<tr>
<td>58636</td>
<td>Task lists with a large number of tasks now displays correctly.</td>
</tr>
<tr>
<td>58735</td>
<td>Administrator notification when there is change to Zimbra service status now works.</td>
</tr>
</tbody>
</table>
Major Issues Fixed for 7.1

To see a list of all the changes for this release, see the Zimbra Product Portal, (http://pm.zimbra.com/pm_release.php?rel=7.1&prod=zcs)

Security Fixes for 7.1

- Upgrade to Postfix 2.7.4 to resolve memory corruption in Postfix SMTP server Cyrus SASL support (CVE-2011-1720). (7.1.1)
- Resolved an issue when re-authenticating as another user after session expiration, content displayed from the previously authenticated account. (Bug 59846) (7.1.1)
- Upgrade to JDK 1.6u29. (Bug 66927) (7.1.4)

Beta Features in ZCS 7.1

The following features included with ZCS 7.1 are considered BETA quality. These features should not be enabled in a production environment and are not supported.
• A new calendar view, Free/Busy View, can be enabled from the COS/Account Features tab. This view lets users set up a free busy schedule to track the free busy status of different people and resources in one place. (Bug 34827, 55904)

• zmmsgtrace replacement was added to 7.1.1. This is zmmsgtrace: version 1.05. Description follows.

Usage:

zmmsgtrace [options] [<mail-syslog-file>...]

--id|i "msgid" # case sensitive regex
--sender|s "user@domain" # case insensitive regex
--recipient|r "user@domain" # case insensitive regex
--srchost|F "hostname_or_ip" # case insensitive regex
--desthost|D "hostname_or_ip" # case insensitive regex
--time|t "start_ts,end_ts" # YYYYMMDDHHMMSS
--year "YYYY" # file year if no YYYY in file
--nosort # do not sort @ARGV files by mtime
--debug verbose output useful for debugging
--help display a brief help message
--man display the entire man page

Where:

<mail-syslog-file> defaults to "/var/log/zimbra.log"

Files ending in '.gz', '.bz' or '.bz2' will be read using gzip or bunzip2.

This is considered a BETA for 7.1. (Bug 41078)

**Future Changes to ZCS**

This section documents major changes to future releases of ZCS.

• Extra and experimental Zimlets in /opt/zimbra/zimlets-experimental and opt/zimbra/zimlets-extra will be removed from ZCS installation in the next major release of ZCS. Zimlets will be available from the Zimbra Gallery, [http://gallery.zimbra.com](http://gallery.zimbra.com). (Bug 52813)

• Zimbra Instant Messaging (IM) capabilities are going to be removed in the next major release of ZCS. These capabilities include the embedded IM server and the Zimbra IM Client (part of the Zimbra Web Client). Zimbra IM is marked BETA and should not be enabled in a production environment and is not a supported feature.

• Family Mailbox feature is not supported in ZCS 7.X and will be removed in the next major release of ZCS. We plan to provide a capability to enable multi-account support in ZWC as a replacement for the Family Mailbox feature.
Upgrade Process

To upgrade from 5.0.x or 6.0.x to 7.1.x, download the latest ZCS 7.1.x and run the upgrade.

Before You Upgrade

The following may need to be done before you upgrade.

Customers Using Custom Java Applications

Customer running custom java applications may also find that their custom applications do not work with ZCS 7.1.4 if they are using JDK 1.6_u21 or earlier. They should upgrade their client to JDK 1.6_u22 or later. (Bug 67423)

Zimbra Database Integrity Check

Some customers have had corrupted databases prior to upgrade, and the upgrade has in some of those cases exacerbated the problem. In order to detect any corrupted databases as early as possible, we have added an optional step to check the MySQL database with zmdbintegrityreport prior to making any system changes. You are prompted to decide if you would like to run the zmdbintegrityreport.

The zmdbintegrityreport can take minutes to an hour to run, depending on your system size and disk bandwidth.

Note: The zmdbintegrityreport is run on a weekly basis from cron on all zimbra-store nodes. Large sites can opt to disable this by setting zmlocalconfig -e zmdbintegrityreport_disabled=TRUE. If you choose to disable this, it is recommended that the integrity reports be run by hand during your normal maintenance windows and prior to running any ZCS upgrades.

Preparing your OS

Before you upgrade ZCS, Zimbra recommends that the operating system is updated with the latest patches that have been tested with ZCS.

Important: If your OS is SUSE Linux Enterprise Server 11, make sure you have SP1 installed. Zimbra supports only SLES11, SP1. (Bug 52031)

Verify Certificates Expiration Date

ZCS 7.1.x requires a valid self-signed or commercial SSL certificate for communication between some components. The self-signed certificates that are automatically created by the ZCS install have a default expiration of 365 days.
If you have an ZCS installation that is over one year old and are using self-signed certificates, your certificates will need to be updated either prior to the upgrade or immediately following the upgrade.

After you upgrade, the following commands run as the zimbra user will regenerate the self-signed SSL certificates:

- `sudo zmcertmgr createca -new`
- `sudo zmcertmgr deployca`
- `sudo zmcertmgr deploycrt self -new`

**Upgrade Instructions**

Go to www.zimbra.com Open Source Edition Download page for the latest version of the software.

**Important:** Even though the upgrade process does not delete accounts on the mailbox server, you should back up the mailbox server before you begin the upgrade. After you upgrade, you should back up your server again.

When you run the install script, if ZCS is already installed, you will be asked if you want to upgrade. Follow the instructions in this release note to perform the upgrade. For additional information, refer to the installation guide.

**Single-Server Upgrade Steps**

Read the release notes before you begin.

You do not need to stop the services before upgrading. The upgrade process automatically stops and starts the services as required for the upgrade.

**Important: Zimbra recommends that you run a command such as the UNIX command, Immune to Hangups (nohup), so that the session does not terminate before the upgrade is completed. This is important when the upgrade includes restoring a configuration that has a large number of accounts.**

1. Log in as root to the Zimbra server and `cd` to the directory where the Zimbra Collaboration Server Open Source Edition archive tar file is saved (`cd /var/tmp`). Type the following commands:
   
   ```
   tar xzvf zcs.tgz, to unpack the file
   cd [zcsversionfullname], to change to the correct directory
   ./install.sh, to begin the upgrade installation
   ```
   
   The upgrade script begins by checking for an existing installation.

2. The Zimbra software agreement is displayed. Read this software license agreement and type `Y`. 

```
3. The installer checks for prerequisites. If any are missing, the upgrade stops. Next, **Do you want to verify message store database integrity (Y)** is displayed. The default is Yes. This step runs zmdbintegrityreport to verify that the MySQL database is not corrupt before upgrading to the latest ZCS.

The zmdbintegrityreport can take minutes to an hour to run, depending on your system size and disk bandwidth. It is preferable that you run zmdbintegrityreport at the time of the ZCS upgrade. If you choose to skip this now, the zmdbintegrityreport will run during a regular scheduled interval after the upgrade is finished.

4. When **Do you wish to upgrade? [Y]** is displayed, press Enter to continue. The upgrade packages are unpacked.

5. The packages are listed. The installer also lists packages that are not installed. If you want to install the packages at this time, type Y; otherwise press Enter. The upgrade checks that there is enough space to perform the upgrade. If there is not enough space, the upgrade stops.

6. When **The system will be modified. Continue? [N]** is displayed, type Y and press Enter. The Zimbra server is stopped, and the older packages are removed. The upgrade process verifies which version of ZCS is being run and proceeds to upgrade the services, restores the existing configuration files, and restarts the server. If you have a configuration with a large number of accounts created, this can take a while.

7. If you have not set the time zone, you will be asked to set it. This sets the time zone in the default COS. The time zone that should be entered is the time zone that the majority of users in the COS will be located in.

8. When **Configuration complete – press return to exit** displays, press Enter. The upgrade is complete.

**Multi-Server Environment Upgrade Steps**

Before you begin, stop all the servers in your ZCS environment. To do this, on each server, as zimbra type `zmcontrol stop`.

**Important**: Upgrade the servers in the following order: LDAP server, MTA server, and then mail store server. The LDAP master server should be running as you upgrade the other servers.

1. Log in as root to the Zimbra server and cd to the directory where the Zimbra Collaboration Server upgrade archive tar file is saved (cd /var/tmp). Type the following commands:
   - `tar xzvf zcs.tgz`, to unpack the file
   - `cd [zcsversionfullname]`, to change to the correct directory
   - `./install.sh`, to begin the upgrade installation

The upgrade script begins by checking for an existing installation.
2. The Zimbra software agreement is displayed. Read this software license agreement and enter Y.

3. The installer checks for prerequisites. If any are missing, the upgrade stops.

4. When you upgrade the mail store server, the installer displays **Do you want to verify message store database integrity (Y)** is displayed. The default is **Yes.** This step runs `zmdbintegrityreport` to verify that the MySQL® database is not corrupt before upgrading to the latest ZCS.

   Running `zmdbintegrityreport` can take minutes to an hour to run, depending on your system size and disk bandwidth. It is preferable that you run `zmdbintegrityreport` at the time of the ZCS upgrade. If you choose to skip this now, the `zmdbintegrityreport` will run during a regular scheduled interval after the upgrade is finished.

   When the MySQL software versions are changed during upgrades, the underlying database tables need to be upgraded. The `zmdbintegrityreport` does this automatically during it’s first run and will report the changes. These are normal and should not cause alarm when upgrading.

5. When **Do you wish to upgrade? [Y]** is displayed, press **Enter** to continue. The upgrade packages are unpacked.

6. The packages you want to install on the server should be marked **Y**. All other packages should be marked **N**.

   The upgrade checks that there is enough space to perform the upgrade. If there is not enough space, the upgrade stops.

7. When **The system will be modified. Continue?** is displayed, type **Y** and press **Enter**. The server is stopped and the older packages are removed. The upgrade process verifies which version of ZCS is being run and proceeds to upgrade the services, restores the existing configuration files, and restarts the system. If you have a configuration with a large number of accounts created, this can take a while.

8. When **Configuration complete – press return to exit** displays, press **Enter**. The upgrade is complete. Continue to upgrade each server.

**After the Upgrade is Complete**

After you completed the upgrade to 7.1, the following bullet items may need to be addressed.

- MySQL table upgrade is required after upgrading to ZCS 7.0 or later. MySQL table upgrades are not automatically run during the upgrade to 7.0 based on time that it takes this process to run. There is no known performance impact when running in production without doing this MySQL table upgrade. Customers can avoid these errors in the `zmdbintegrityreport` output by executing `/opt/zimbra/libexec/scripts/migrate20100913-Mysql51.pl` (Bug 24329, 50557)
Applying the Mysql51.pl script requires all Zimbra services except mysql.server to be stopped.

This script should be executed on all the mailstore servers where the mailboxd process is running. For a 4000 mailbox, 250 MB mailbox size, the script could take about 70 minutes to run. Customers should schedule their maintenance window accordingly.

To run the script:

1. Switch to zimbra user.
   
   su - zimbra

2. Stop mailboxd services to avoid email communications that might cause an interruption.
   
   zmmailboxdctl stop

3. Execute the perl script to upgrade the database tables.
   
   /opt/zimbra/libexec/scripts/migrate20100913-Mysql51.pl

4. Start the mailboxd service.
   
   zmmailboxdctl start

   • If your self-signed SSL certificates have expired, update them. See Verify Certificates Expiration Date on page 14.

   • If you have configured the following keys, you will need to replace them as described here.

The following keys are deprecated:

   httpclient_client_connection_timeout
   httpclient_connmgr_connection_timeout
   httpclient_connmgr_idle_reaper_connection_timeout
   httpclient_connmgr_idle_reaper_sleep_interval
   httpclient_connmgr_keepalive_connections
   httpclient_connmgr_max_host_connections
   httpclient_connmgr_max_total_connections
   httpclient_connmgr_so_timeout
   httpclient_connmgr_tcp_nodelay

and are replaced by the following keys:

   httpclient_internal_client_connection_timeout
   httpclient_internal_connmgr_connection_timeout
   httpclient_internal_connmgr_idle_reaper_connection_timeout
   httpclient_internal_connmgr_idle_reaper_sleep_interval
   httpclient_internal_connmgr_keepalive_connections
   httpclient_internal_connmgr_max_host_connections
httpclient_internal_connmgr_max_total_connections  
httpclient_internal_connmgr_so_timeout  
httpclient_internal_connmgr_tcp_nodelay  
httpclient_external_client_connection_timeout  
httpclient_external_connmgr_connection_timeout  
httpclient_external_connmgr_idle_reaper_connection_timeout  
httpclient_external_connmgr_idle_reaper_sleep_interval  
httpclient_external_connmgr_keepalive_connections  
httpclient_external_connmgr_max_host_connections  
httpclient_external_connmgr_max_total_connections  
httpclient_external_connmgr_so_timeout  
httpclient_external_connmgr_tcp_nodelay

- If your pam configuration rules disallow null passwords, you will need to define a password for the Zimbra UNIX account after the upgrade. This will allow SSH key authentication for checking remote queues. (Bug 12807)

**Upgrading new 7.0 Features**

The following features can be enabled from the ZCS administration console, COS or Account>Features tab:

- Ability to let users recover deleted items. Enable Dumpster folder (Bug 30582, 45284)
- Ability to send mail at a later time. Enable Mail send later. (Bug 7524, 51673)

**Removing current version and performing a clean install for ZCS**

If you do not want to upgrade, but prefer to install ZCS Open Source Edition as a new installation, when you run the ZCS install script, enter N (no) when asked Do you wish to upgrade?

A warning displays asking if you want to delete all existing users and mail. If you enter Yes, all users, mail, and previous files are removed before proceeding with the new installation. Refer to the installation guides for installation instructions.

**Status of Your Customizations to ZCS after Upgrade**

Upgrading to the newest release does not delete your accounts or change your configuration.

Configuration settings stored in LDAP and localconfig are preserved during upgrades. Any files installed by ZCS may be deprecated and/or overwritten during upgrades, removing any customizations. This includes customized themes, logo branding changes, and crontab changes.
Zimlets that you customized and deployed are preserved during the upgrade. As upgrading of customized Zimlets cannot be tested before the release, Zimbra recommends that you verify that your customized Zimlets work correctly after the upgrade.

All entries between the designated comments in the Zimbra crontab file are overwritten with new defaults upon upgrade.

**Known Issues**

Zimbra engineering has identified a number of issues with the software, and we are actively working to resolve them. Following are the issues that are most likely to occur. All known bugs are listed in Zimbra's Bugzilla database, available on the Zimbra web site, at [www.zimbra.com](http://www.zimbra.com).

**General Known Issues**

<table>
<thead>
<tr>
<th>Issue #</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Known third-party browser issues</strong></td>
</tr>
<tr>
<td></td>
<td>Some browser issues can affect how the Zimbra administration console and Zimbra Web Client work.</td>
</tr>
<tr>
<td></td>
<td>When you get a browser error, try reloading the browser to continue.</td>
</tr>
<tr>
<td></td>
<td>• If you use the Firefox browser, the cursor position may not be visible in the text boxes, and you have no visual feedback to continue to enter text. Even though you cannot see the cursor, type in the boxes as normal.</td>
</tr>
<tr>
<td></td>
<td>• If mail is displayed in HTML format, you cannot select the text with the mouse.</td>
</tr>
<tr>
<td>48997</td>
<td>Customers currently on ZCS 6.0.8 and using a non-default password change listener should make sure that the zimbraPasswordChangeListener attribute is set up correctly at the domain level, before upgrading to ZCS 7.1.</td>
</tr>
<tr>
<td></td>
<td>To check the value of the attribute, run $ zmprov gd YOUR_DOMAIN zimbraPasswordChangeListener</td>
</tr>
<tr>
<td></td>
<td>To change the value, say, to the samba password listener, run $ zmprov md YOUR_DOMAIN zimbraPasswordChangeListener sambapassword</td>
</tr>
<tr>
<td>55174</td>
<td>Calendar Week Numbers displayed in the mini-calendar are wrong when the Calendar preferences for <strong>Start week on</strong> is set to Monday.</td>
</tr>
<tr>
<td>55459</td>
<td>If the Short Cut Trainer Zimlet is enabled, when a message is deleted a script error is displayed. To avoid this, disable this Zimlet. This is not a supported Zimlet.</td>
</tr>
<tr>
<td>54278</td>
<td>Family Mailbox is not supported in ZCS 7.0. See Future Changes to ZCS on page 13 for more information.</td>
</tr>
<tr>
<td>53728</td>
<td>VMware does not support Red Hat Cluster Suite on ESX/ESXi.</td>
</tr>
</tbody>
</table>
A forwarded recurring appointment instance will not update the organizer’s attendee list. Therefore, if the organizer modifies the appointment, the user with the forwarded appointment will not get updated.

After activating or updating a license, the administrator can run `zmprov fc -a license` to immediately flush the license cache on all mailbox nodes.

Third-party issue. iPhone calendar may not sync correctly when declining or accepting an appointment in ZWC after the appointment has already been accepted/declined from iPhone.

The Undo Send Zimlet may cause messages to be sent with no content in the body. To avoid this, disable the Zimlet.

**Product Documentation**

Online help and ZCS documents are available on the administration console. Documentation can also be found on the Zimbra web site in PDF, and the Zimbra wiki has articles that the support team and the community have written in response to troubleshooting and administration issues.

**Bug Reporting**

If you encounter problems with this software, go to [http://bugzilla.zimbra.com](http://bugzilla.zimbra.com) to submit a bug report. Make sure to provide enough detail so that the bug can be easily duplicated. Also, to discuss issues and this software in general, please visit our community forums at [http://www.zimbra.com/forums](http://www.zimbra.com/forums).

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