Zimbra Collaboration Server 8.0.5
Network Edition Release Notes

This release note describes new features and enhancements that are available in the ZCS 8.0.5 Network Edition release. Review the Known Issues section for a list of outstanding issues in this release before installing or upgrading.

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Major New Feature Enhancements for 8.0

Zimbra Web Client Serenity User Experience

- **Streamlined User Interface**. The user interface has been completely redesigned with simplicity and accessibility being the key improvements. The Zimbra 8 interface is more streamlined so that common actions are easily discoverable and highly intuitive to use.
- **Conversation View**. In Zimbra 8 email is presented to users in a “natural” conversation view that makes reading and replying to messages convenient and intuitive. Quoted text is hidden and messages are laid out in a way that is easy for users to understand the “in-reply-to” relationship between different messages in the same email thread. Discreet links to Reply, Forward and More Actions (presented just below the email) let users respond to messages quickly and efficiently.
- **Rich Composition**. Improved composition editor allows users to craft rich text emails, with features such as paste-style support from desktop applications and the ability to include inline images bring the power of desktop word processors to email.
- **Shared Tagging**. In Zimbra 8 tagging functionality has been improved so that when items are shared users cannot only use tags to organize their data but also share these tags across applications as well as mailboxes.

Activity Stream

Activity Stream allows users extensive control over the messages that go to their Inbox. Users can easily set up activity stream filters that direct incoming messages to various folders (or are deleted from) based on different criteria that they can specify. For example, emails to distribution lists, feed and notifications that are not directly addressed to the user can be archived in folders that can be read when convenient.

“Graymail” filtering prevents user’s Inbox from being cluttered by legitimate but unwanted emails.

Dedicated Search Tab

A dedicated search tab is created whenever a user enters a new query in the header search box. This allows users to perform a search, navigate away from the search tab to perform another action such as compose an email, or schedule an event and then come back to the search tab to continue with the query.

Zimbra 8 provides users with a simple yet powerful search interface allowing users to perform simple actions such as quickly filter on common attributes or perform complex search queries making use of complex logical operators.

Enterprise Calendaring

Zimbra 8 provides an intuitive and sophisticated enterprise calendaring system that enables users to manage multiple calendars and provides support for advanced scheduling activities.

- **Experience improvements to time and resource suggestions**. Zimbra 8 has significantly improved the user's experience when working with the appointment scheduling feature. Once users select attendees, Zimbra 8 can compare calendar availability and provide users with a list of suggested meeting times. Similarly, based on meeting requirements such as the size of the room and location, Zimbra's scheduler can provide users with a list of conference facilities that fit meeting requirements.
- **Merge and split views of "Day" view** gives users the flexibility to view their different calendars (e.g. personal and work-related) either individually or overlaid on top of each other. (In other words, see a "merged" view of appointments from several different calendars in one calendar.)
- **Landscape and date range printing** provides users greater control over how calendars are printed.
- **Wizard to add external calendars** when users right-click to create new calendars. Zimbra 8 supports importing several popular calendar formats including Google and Yahoo! Calendars.

Zimbra Mobile for ActiveSync 12.1 devices

Zimbra offers server side implementation of Microsoft's ActiveSync 12.1 protocol providing end users access to their Zimbra mail on any mobile device that supports ActiveSync 12.1.

- **Auto-discover** support enables seamless linkage between the user's account on the Zimbra server and the email client on the mobile device when valid credentials (email and password) are supplied from the device.
- **Device wipe** In the event that the security of the mobile device is compromised administrators can perform a remote device wipe from the administration console, thus safeguarding against any loss of sensitive corporate data.
- **Bandwidth Reduction** Since most mobile devices are often on high latency, low bandwidth (reduced connectivity) networks, Zimbra's ActiveSync implementation has been designed to operate at a reduced bandwidth.
- **Battery Optimization** ActiveSync protocol implementation has been optimized to conserve battery life for push enabled devices.
- **Persona/Alias support** ActiveSync implementation provides push synchronization of email, contacts, calendars, tasks as well as the Persona/Alias profile configurations associated with the user's email address.

- **Advanced Administration Policies** The introduction of 30 new configuration policies provides administrators more fine-grained control over user accounts and approved applications – allowing them to enable/disable device software and hardware capabilities as necessary.

Unified Communication (UC)

With unified communication multiple modes of business communications are seamlessly integrated, allowing users to receive a communication from one service, such as Voice Mail and respond using another service, such as Click-To-Call.

Zimbra 8 is designed so that real-time communication services such as voice, telephony and presence inter-operate with non-real-time services such as email and voicemail – allowing users to benefit from faster response times and companies to benefit from higher group productivity.

Voice Service

The new Voice Service feature provides out of the box integration with leading UC providers such as Cisco and Mitel.

- **Click-to-Call** offers immediate voice connectivity with call-routing to device or soft-phone. This lets users take office calls at their office numbers on their mobile devices. Zimbra 8 supports the configuration of multiple numbers.
- **Presence** provides real-time notification of user's current availability and ability to communicate.
- **Visual Voicemail** lets users view caller and voicemail information and supports inline playback and management features. It also supports MWI (Message Waiting Indicator) status updates, allowing users to customize the way they want to be notified about new voicemail messages. These voice messages can be saved in either .wav or .mp3 format.
- **Call record history** includes information about voice mails received, placed calls, received calls, missed calls as well as details about date, time, and call duration.
- **Extensible SDK** Zimbra's flexible and extensible SDK allows for smooth and rapid integration with third-party APIs released by leading real-time UC solution providers

Note: *The VLC media player Firefox plug must be disabled to play voicemail messages. (Bug75994)*

Voice Service Licensing

The Voice Service feature is a licensed feature. If you have an existing Professional Edition license, you will need to request a new license key from Zimbra Support or Sales to enable this feature.

IT as a Service

Multi-node appliance

- Single or multinode deployment from vSphere Client or via CLI for automation
- Feature parity with ZCS including scaling, multi-tenancy, and CLI access
- Migration from 6.x ZCA to ZCA 8.0 appliance

Rolling upgrades

- Minimal service disruption to perform upgrades
- Multi-master directory replication
- Mailbox moves forward between versions of Zimbra with less than 60 seconds of downtime for a single mailbox

Self service collaboration

- End user distribution list (DL) management from the web client. A delegated DL manager can create and manage subscriptions to distribution lists based on IT defined policies
- End users can search and recover deleted items across mail, calendar, contacts, and tasks based on IT defined recovery retention policies

Automatic provisioning of accounts

- Accounts in Zimbra can be provisioned with attributes populated from Active Directory or another LDAP directory. Accounts can be provisioned ad hoc automatically polling for new accounts
- Dynamic distribution list support to automatically populate DL membership accounts based on account attributes

Compliance

- Litigation hold without forking the mailbox or needing to deploy additional infrastructure
- Custom folder retention and disposal policies can be enabled by IT or end user
- Administrative roles linked to Active Directory groups to enhance federated identity access and authorizations

Migration

- Multi-threaded for parallel mailbox migrations and improved scalability
- Stage and schedule migrations with improved visibility into real-time statistics and error-logging
- Migrate out of office settings to reduce migration scheduling conflicts

Redesigned Administration Console

The ZCS administration console was redesigned to make administration of ZCS easier. It starts with a Home page that has links to common tasks. The Navigation pane now separates functions into the following sections:

- **Home**. The Home page has links to many of the common tasks. Also the Help Desk link is on this page.
- **Monitor**. Server Status to view the status for all installed servers and services and server statistics, message count and volume, anti-spam and anti-virus activity, mobile sync statistics, mail queues pages can be accessed
- **Manage**. Accounts, aliases, distribution lists, and resources pages can be accessed.
- **Configure**. Class of Service (COS), domain, servers, Zimlets, administration console extensions, certificates, global settings, and voice/chat services pages can be accessed.
- **Tools and Migration**. Zimbra Utilities downloads page for the migration tools and Zimbra Connector for Outlook msi files, software updates, backup, and cross mailbox search pages can be accessed.
- **Searches**. You can create and save searches that you run frequently. A new Search page lets you create complex search queries.

General Enhancements by Bug Number

Enhancements in 8.0.5 by Bug Number

Bug Number	Description
72424, 72425, 72683	The search feature has been enhanced for better performance.
74526	Cronjob to clean **/opt/zimbra/data/amavisd/quarantine** has been added.
77256	Suport for Outlook 2013 using Zimbra Mobile Sync.
78322	Support for Windows 8 Mail using Zimbra Mobile Sync.
82570	You can use the Zimbra Migration Tool to migrate accounts or PST files from Microsoft Exchange 2013.
82664	New local config (LC) keys to configure SMTP error limit and sleep time have been added and can be configured from the **zmlocalconfig** CLI. • **smtpd_hard_error_limit** • **smtpd_soft_error_limit** • **smtpd_error_sleep_time** Changes made to these LC key settings are carried over after upgrade.

Bug Number	Description
82953	In the Administration console, the encryption method in the Certificate Installation Wizard > Generate the Certificate Signing Request tab is now configurable.
82969	Zimbra Touch Client integration (beta feature). See Zimbra Touch Client Integration Beta on page 24.

Enhancements in 8.0.4 by Bug Number

Bug Number	Description
23487	Support for CentOS 6, 64-bit (Community ENTerprise Operating System).
43696	Support for Kernel-based Virtual Machine (KVM).

Enhancements in 8.0.3 by Bug Number

Bug Number	Description
13032	Users can paste images, tables and spreadsheets into the message body of an email using Firefox/Safari/IE browsers.
74172	Mailboxes and data can be migrated between servers using native StoreManager and third party StoreManager.
76667	Blob consistency check now works with External StoreManager implementations.
76690	Backup/Restore now works with External StoreManager implementations.
77429/ 79317	ZCO now works with Outlook 2013. If Outlook is upgraded from prior versions to 2013 it is necessary to reinstall ZCO. Support for Outlook 2013 is considered beta due to a known issue with search (bug 80270).
77772	When using the **Client Upload** feature from the administrator console or running **libexec/zmupdatedownload**, the downloads/ index.html is updated with latest client versions. Note the links on the Zimbra Utilities Downloads page are updated only after mailbox restart.
78358	Beginning with 8.0, Zimbra Web Client no longer works in an iframe. To continue to work with iframe, see Setting iframes on page 35.

Enhancements in 8.0 by Bug Number

Bug Number	Description
1108	ZWC. Users can now sort from any column in the Content pane.
1810	ZWC. Up to 63 tags can be created.
3884, 61118	Dynamic distribution lists can be created.
5935	In conversation view, by default messages are now grouped by reference instead of by subject. When a message is replied to, it is added to a conversation thread if the reference in the header matches. If there is no reference ID in the header, the conversation is grouped by subject.
6229	Per folder message retention policy can be set. Users can right-click on a folder and in the Folder Properties dialog box set their retention policy.
58041	The administrator can set new retention policies from the administration console. Users can select the retention policy or create their own.
6111	The ability to bind mailbox services to a specific bind address. As part of this enhancement, the following attributes are added to server configuration. When these are set, the specific services bind to these specific addresses. If these are not set, the services binds to all interfaces. **zimbraMailBindAddress** **zimbraMailSSLBindAddress** **zimbraMailSSLClientCertBindAddress** **zimbraAdminBindAddress**
6380	You can set a maximum mailbox quota for a domain. The default for the domain mailbox quota is unlimited. The domain quota is the maximum amount of storage that can be used by all mailboxes within the domain.
7235	New users objects created in an external LDAP directory can automatically be provisioned as new mailboxes in ZCS. See Appendix B Auto-Provision New Accounts from External LDAP Directory
11524	Zimbra supports DKIM signing for outgoing email.
18815	When archiving is installed, archiving can be configured from the administration console, Configure>Class of Service, Archiving page or account's Archiving page.
23191	Support for right-to-left languages in ZWC compose.
26398	Zimbra to Zimbra free/busy interop is supported.
26645	Message deduping is enabled by default, with the COS/Account attribute **zimbraPrefMessageIdDedupingEnabled=TRUE.**
27211	ZWC. Calendars can be nested.

Bug Number	Description
27575	ZWC. Users can enable the preference to include shared items when they do a search query. (Preferences>General, Searches section)
28648	To enable SASL mechanisms with Postfix, you can do the following. This example uses GSSAPI as the SASL mechanism: zmlocalconfig -e sasl_smtpd_mech_list="PLAIN LOGIN GSSAPI" zmlocalconfig -e postfix_smtpd_sasl_security_options="noanonymous, noplaintext" zmlocalconfig -e postfix_smtpd_sasl_tls_security_options=nonanonymous Allow SASL auth on port 25: zmprov ms MTAHOST.somewhere.com zimbraMtaTlsAuthOnly FALSE
39402	ZWC. Ability to access and mount external calendars via CalDAV.
46222	ZWC. Conversation view has been updated. Viewing from the reading pane, changes include • Inline Reply to individual messages in the conversation. • Selecting a conversation shows all messages in the conversation. • Forwarding a conversation, send the individual messages as attachments to the forwarded message. • Action footer per message. • Draft messages are saved as part of the conversation. Draft messages display with a dotted line around them.
46359	Contact Groups sync via CardDav.
47673	Users can now use the Find Shares folder to find all items that can be shared with them. Previously a users could find only items that were shared with them by distribution lists or from specific users.
53822	Multiple GAL sync accounts can be created for the same domain. Also see Bug 64123 on page 20.
53985	Searching for a contact now supports prefix matching for any terms in a multi-phrase query. For example, searching for Jon Smith will show results for Jonathan Smith as well.
56494	When an invitation is forwarded by an invitee, the originator receives a notification.
56827	System accounts cannot be deleted and are not displayed in the accounts list on the administration console. To see a list of system accounts go to Search>Basic Attributes and select **Search system accounts only**.

Bug Number	Description
58418	One step migration wizard has been removed from the administration console. Users can use the migration tools to run a migration. These tools are available from the administration console download page.
59780, 54035	Administrator can click on any of the text labels in the administration console to see which Zimbra attribute is associated with the field.
61467, 61425	In the standard client, new calendar printing options were added.
61667	When an item is shared, the information is automatically published. Manual publishing of shared items is no longer required.
62230	When using the New Account Wizard, you can search an external source directory and lists to select users to provision.
62325	When a domain is renamed, the dynamic groups are correctly moved to the renamed domain.
50294, 64347, 64889	External virtual accounts are created when users share Calendar or Briefcase items with an external user. A new defaultExternal COS has been added to Class of Service. The external virtual account is assigned to this COS. Administrators can manage these accounts from the administration console.
65429	Additional auth options for zmmailbox and zmsoap CLIs. **zmmailbox** now supports sending requests to a mailbox using admin auth token.
42916, 66362	End users can provision, manage and view distribution lists from their Address Book. If users have the ability to create distribution lists, the Address Book drop-down menu includes a Distribution List link. To enable the ability to create and manage distribution lists for all users on a domain, type zmprov grr domain <domainname.com> dom <domainname.com> createDistList To enable the ability to create and manage distribution lists for individual users on a domain, type zmprov grr domain <domainname.com> usr <user@domainname.com> createDistList

Bug Number	Description

68505	In ZCS 8.0, IPv6 is a beta release. IPv6 option can be configured during ZCS installation.
	The default is to use IPv4, unless IPv6 is configured.
	The expected way to change IP mode is by changing zimbraIPMode first, and then running libexec/zmiptool tool, e.g.:
	$ zmprov ms `zmhostname` zimbraIPMode ipv4 ; libexec/zmiptool ; zmcontrol restart
	$ ps aux | grep java | grep preferIPv4Stack | wc -l
	3
	$ zmprov ms `zmhostname` zimbraIPMode both ; libexec/zmiptool ; zmcontrol restart
	$ ps aux | grep java | grep preferIPv4Stack | wc -l
	0

68841	Provide warning message when -l options is specified or if running the command on a non-mailbox server.
5210 11124	Shared items can be tagged and the tags displays in the shared users' lists as well.
58160 67090, 67091, 67094	Users can set their account preferences to delegate authority to another user to send messages as if came from them (Send As) or send messages on behalf of the user. When a delegated user composes a message for the user, they select the user's name in the From address drop-down menu.
57547, 35967	In the advanced client, added printing options to Calendar.
36481	ZCO. In calendar invites, the delegated user can accept or decline invitations for Calendars they manage.
44384	Ability to configure antispam settings to bypass messages originating from internal ZWC users.
73571	Zimlets can now make GET, POST, PUT AND DELETE HTTP requests via the proxy.
74984	Djava.net.preferIPv4Stack=true is added by default. It is removed if configured ZCS for use with IPv6 networks
75763	Djava.net.preferIPv6Addresses=true is added if both IPv4 and IPv6 addresses are configured on the system

System Updates for 8.0

Network Edition supported platforms

(Bug 71339)

Platform: 64-bit is supported; 32-bit is EOL

- Red Hat Enterprise Linux 6 ACTIVE

- Red Hat Enterprise Linux 5 EOL
- Red Hat Enterprise Linux 4 EOL
- CentOS 6 ACTIVE ** NEW **
- Ubuntu 12.04 LTS ACTIVE ** NEW **
- Ubuntu 10.04 LTS DEPRECATED
- Ubuntu 8.04 LTS EOL EOL
- SUSE Linux Enterprise Server 11, SP2 and SP3 (SP3 required for 8.0.5 and later) ACTIVE (Bug 83032, 83676)
- SUSE Linux Enterprise Server 10 EOL

Open Source supported platforms

(Bug 71341)

Platform: 64-bit is supported; 32-bit is EOL

- Red Hat Enterprise Linux 6 ACTIVE
- Red Hat Enterprise Linux 5 EOL
- Red Hat Enterprise Linux 4 EOL
- CentOS 6 ACTIVE ** NEW **
- Ubuntu 12.04 LTS ACTIVE ** NEW **
- Ubuntu 10.04 LTS DEPRECATED
- Ubuntu 8.04 LTS EOL EOL
- SUSE Linux Enterprise Server 11, SP2 and SP3 (SP3 required for 8.0.5 and later) ACTIVE (Bug 83032, 83676)
- SUSE Linux Enterprise Server 10 EOL
- Debian 5 EOL
- Fedora 13 EOL
- Fedora 11 EOL

Operating Systems and Browsers supported with the Administration Console

(Bug 71346)

- Window 7 and Windows XP
  - Internet Explorer 9
  - Firefox 12
  - Safari 5.1.4

- Chrome 19.0.1084.56 m

- Mac "Leopard", "Snow Leopard"
  - Firefox 12
  - Safari 5.1.4
  - Chrome 19.0.1084.52
- RHEL, Ubuntu, SUSE
  - Firefox - 3.6.17.
  - Chrome - 19.0.1084.52

Zimbra Web Client (Advanced)

- Window XP SP3, Vista and Windows 7
  - IE 8.0 and higher (IE 8 for XP, 9+ for Vista/Win7)
  - Firefox (latest stable version)
  - Safari (latest stable version)
  - Chrome (latest stable version)
- Mac OS X 10.5 "Leopard", 10.6 "Snow Leopard", 10.7 "Lion"
  - Firefox (latest stable version)
  - Safari (latest stable version)
  - Chrome (latest stable version)
- Linux (RHAT, Ubuntu, Debian, Fedora, SUSE)
  - Firefox (latest stable version)
  - Chrome (latest stable version)

Zimbra Web Client (Standard)

- Window XP SP3, Vista and Windows 7
  - IE 7.0 and higher (IE 7,8 for XP, 9+ for Vista/Win7)
  - Firefox (latest stable version
  - Safari (latest stable version)
  - Chrome (latest stable version)
- Mac OS X 10.5 "Leopard", 10.6 "Snow Leopard", 10.7 "Lion"
  - Firefox (latest stable version)
  - Safari (latest stable version)
  - Chrome (latest stable version)
- Linux (RHAT, Ubuntu, Debian, Fedora, SUSE)

- Firefox (latest stable version)
- Chrome (latest stable version)

Major Issues Fixed for 8.0

To see a list of all the changes for this release, see the Zimbra Product Portal, (http://pm.zimbra.com/pm_release.php?rel=8.0&prod=zcs)

Major Issues Fixed for 8.0.5

33593	The ZWC, Preference>Accounts, From display name field can now be disabled. When **zimbraFeatureFromDisplayEnabled** to FALSE the text box is not displayed.
50112	Added "received" field to **zmqstat** that shows IP of the original server that received the email.
51035,	ZCO. The Download Headers Only option now works correctly for shared mailboxes.
59788, 83334	ZCO: Alias email address is no longer included in the "To" field when using "reply all" to a mail message. This applies to new mail arriving into the ZDB. If this is desired for existing mail, a new ZDB/profile needs to be created.
75108	Mail now is delivered to accounts that have reached their quota and have **zimbraMailAllowReceiveButNotSendWhenOverQuota** set to TRUE
79055	Delegated user has the ability to **send as** or **send on behalf of** resource accounts.
79311	Fixed issue causing domain admins to see too many results when looking at the list of accounts.
79623	Tasks created on the Zimbra Web Client now synchronize to mobile devices. Tasks created, modified or deleted on a mobile device are correctly synchronized on the Zimbra Web Client.
80270	ZCO: Searching for an item in Outlook 2013 is now working correctly.
80878	NIO IMAP, NIOSocketSession leaking issue fixed.
80963	Attachments can now be downloaded on Windows Phones.
80980	Deleting a large number of folders is now processed in chunks. The batch size is controlled by LC key **zimbraItemActionBatchSize**. The default value is 1000. This can be set at the global config level, **zmprov modifyServer mc.example.com zimbraItemActionBatchSize <#>** Hard delete of folders is a two stage transaction. The top level folder is emptied and then the folder and all sub-folders are removed. The batch size is controlled by LC key **zimbraMailEmptyFolderBatchSize**.

81501	The ZCS 8 administrator console logo size information has been corrected in the customer documentation, to include: • Company logo that displays on the login and splash screens for ZWC and the ZCS administration console. The dimension of the graphic must be exactly 300 x 30. • Small company logo in the upper-left of the ZWC application and the administration console. The dimension of the graphic must be exactly 170 x 35.
82017	Active sync of mail between Nokia Lumina with Windows 8 mobile devices and the Zimbra Web Client now works.
82082	ZCO: Fixed issue causing text in the body of a message to be lost when saving a draft message created in Microsoft Office.
82132	ZCO: Mail edits made in Outlook are now synced correctly to the server.
82201	A new cronjob has been created to run nightly to check if automated updates to spam assassin are available. The command is **zmsaupdate**. Two LC keys are configured: • **antispam_enable_rule_updates**. If TRUE, rule updates for spamassassin are automatic. • **antispam_enable_restarts**: If TRUE. AMAVIS restarts automatically IF there was a successful rule update.
82524	Fixed the issue which caused custom LDAP provisioning implementations not to initialize successfully.
82711	Social Zimlet connection to Facebook is working. To configure, see Using the Social Zimlet on page 36.
82940	HTML formats now display properly in Zimbra Web Client.
83032	Support SUSE Linux Enterprise Server 11 (SLES 11) SP3.
83274	Social Zimlet connection to Twitter is working.
83482	Messages are no longer lost while moving a mailbox during a zmmboxmove session. The **zmmboxmove** feature is enhanced as follows: • If the source server does not support the new lock API that prevents data changes to the mailbox, meaning the server version is too old, an error is given at the command line stating that the source server version does not support the **zmmboxmove** command. • A -force option is provided at the command line. The force option overrides the source server version check and offers a warning message at the command line stating not all data may be copied from the source to the destination mailbox. The source mailbox should be manually inspected and any remaining data must be migrated manually.

Major Issues Fixed for 8.0.4

35965	Private events within shared calendars no longer show the organizer's name.
42332	Fixed the issue which caused stat-charts to not display properly.
57411	ZCO. Fixed the issue which caused outgoing messages to remain in the user's outbox when switching from offline to online mode.
76512	When running **zmproxypurge**, all aliases are purged.
76712	ZCO. Messages that are resent are received appropriately by recipients.
77880	Support for Real-time Blackhole List (RBL) blocking using **zimbraMtaRestrictionRBLs** and attributes **reject_rhsbl_client**, **reject_rhsbl_reverse_client**, and **reject_rhsbl_sender**.
79136	Fixed the issue which caused an error when using spell check if language preference is set to Japanese.
79214	Fixed the issue which caused an error in Javac compilation for Java Server Pages (JSP).
80133	Removed insecure SSL ciphers from default proxy configuration. Existing sites are recommended to review their enabled ciphers and set **zimbraReverseProxySSLCiphers** to **RC4:HIGH:!aNULL:!MD5:!kEDH:!AD:!SSLv2** for maximum security. Note that some clients might need to be reconfigured if they were previously using a cipher which is now disabled.
80469	ZCO. Fixed the issue which caused the default denial of service filter (DoSFilter) configuration to block valid service requests for Zimbra Connector for Outlook and administration tasks. The issue displayed a "503 Service Unavailable" error in the sync.log.
80610	Fixed issues that caused mailboxes that were moved to a new server to temporarily loose messages that were stored in an HSM volume.
80762	Fixed the issue which caused a Language field to display as blank when selecting login options and only one language is available. The option now displays as text and not as a drop-down menu.
80813	**zmblobchk** no longer reports missing blobs for appointments with multiple revisions. Changes work even if multiple revisions point to the same file blob.
80831	ZCO. When searching for server changes, ZCO no longer checks the local store for messages marked with the "Download headers only" mode.
80895	Fixed the issue which caused autodiscovery to fail on iOS devices, due to iOS sending the request to **/Autodiscover/Autodiscover.xml** rather than **/autodiscover/autodiscover.xml**.

81104, 81105, 81106	The administration console now has the option to automatically log users out when their Zimbra Web Client tab/window/browser is closed. This forces the user to log in to their next session.
81310	New attribute **zimbraMtaFallbackRelayHost** is located in the administration console at Configure > Global Settings > MTA > Network and is shown as Relay MTA for external delivery.
81493	New message bubble notification displays logo from theme configuration.
81496	The Distribution Lists folder is displayed in the list of address book folders *only* if the attribute is set to true. The default is True, but customers such as service providers might select to set this to False to turn this feature off.
81687	The administration console supports DomainKeys Identified Mail (DKIM) as a service. Any changes to the services on the Servers page in the administration console requires a restart of the server.
81855	Fixed the issue which caused the S/MIME applet to not work properly after upgrading to Java 1.7u21.
82123	Resolved issue which caused deadlocks in SyncState.java.

Major Issues Fixed for 8.0.3

77971	The **zmmailbox** and **zmsoap** CLI now correctly resolve the mail store port when mail store and proxy are installed on the same host.
78902	When using Firefox or Chrome browsers, images you add to a documents in Briefcase now display correctly when the document is reopened. This does not work with Internet Explorer (bug 80092)
79198	The login page has been changed to state “Stay signed in” instead of “Remember me”.
79206	**CustomLdapProvisioning** can now be initialized successfully
79212	Fixed issued causing LDAP search performance with a large number of domains to be degraded.
79480	Free/Busy for appointments in 2013 now display when viewed in Exchange 2007
79571	Restoring a TGZ file no longer deletes messages when merging conversations.
79621	The proxy no longer retries HTTP POST requests. This previously caused unnecessary load on the mail store.
79695	When you restore from a full backup, if you get an error message “LICENSE_ERROR Message Accounts Limit exceeded ##/##” while restoring it might be because the restore process is adding back existing, new and deleted accounts and the combination of these three types might cause you to go over your account license limit.
79926	Optimized the locking of the Provisioning object.

79964	Updated section in Zimbra Application Installation Guide with information about how to add additional disk storage in the section “Increasing Storage for Specific Mountpoints.
79984	The **zmprov gaa** CLI previously used paged results when querying LDAP which caused suboptimal performance.
80229	Fixed issue causing race condition when mail is received/ threading conversation while emptying trash.

Major Issues Fixed for 8.0.2

63357	Task list view fields now are updated after they are edited.
70573	Mobile. The reply/reply all and forward features sent from Windows phone 7.5 now includes the original message.
73608	ZCO. GAL does now show alias users entries
75211/ 76581/77522	Fixed issues that caused Contact lists to not sync correctly.
76700	ZCS cluster zimlet was trying to access **httpOnly** cookie which is no longer available after release 7.2.0. This resulted in a session expired on the administration console. The Cluster zimlet has been fixed to pass the correct parameters.
73298/ 76851/ 77472	Calendar. Issues in Calendar localized version around Reminder timer and saving appointments has been fixed.
77027	Install and Upgrade. The MTA restarts correctly after upgrade or install.
77070	PST migration. PST migration now only imports new and incremental data when **Ignore previously imported items option** is selected.
77098	ZCO. Windows 8 is supported.
77836	When upgrading to ZCS 8.0, upgrade disables in all of the COSs Zimlets that are not in the certified core Zimlet list. If non-certified Zimlets are enabled at the account level they remain enabled after the upgrade. To disable these Zimlets, the administrator must manually disable these Zimlets on all affected accounts. For a list of the core Zimlets go to page 25.
78487/78939	Tags now are migrated when moving a mailbox from 7.x to 8.0.2 directly using zmmboxmove. For mailboxes that moved from 7.x to an earlier version of 8.0, the utility provided in bug 78487 can be used. But if users added new tags to messages or re-tagged messages after the mailbox was moved, when this utility is run these tags are removed.

78661/79204	For new installs a, a settings was changed in the default **mailboxd_java_options** in localconfig key because the maximum PermGen size might be too low, leading to **java.lang.OutOfMemoryError**. This setting is specified in the mailboxd_java_options local config key. For upgrades, the setting is not changed. After upgrading, the value of **mailboxd_java_options** should be increased to 350m. See http://bugzilla.zimbra.com/show_bug.cgi?id=78661#c16 for a detailed example.
77597	Account migration undoes any benefit of message de-duplication of data on a server. Once all migrations are complete a new tool **zmdedup** can be used to reduce disk usage caused by this.

Major Issues Fixed for 8.0.1

77389	Fixed potential database corruption issue with upgrade to OpenLDAP 2.4.33 or later.
77953	When upgrading from 8.0.0 to 8.0.1, an LDAP database reload is automatically performed.

Major Issues Fixed for 8.0

6830	Sorting by **To** works in the Sent folder, message view and in conversation view.
26573	Inline attachments are now included in reply/forwarded messages.
50123	The **zimlets-extras** folder has been removed from ZCS. Sample Zimlets are available from the Gallery.
51875	HSM jobs can be configured to be a specific batch size. The **zimbraHsmBatchSize** attribute can be configured either as a global setting or per server to specify the maximum number of items to move during a single HSM operation. The default value is 10000.
51990	ZWC. If out of office is on, users are prompted to turn it off when they sign in to their account.
52647	ZCO. Outlook's Work Offline option is now fully supported. OL2003/7: File->Work Offline OL2010: Send/Receive ribbon-> Work Offline Work Offline can be used in conjunction with Send/Receive Groups to control when connections are made to the server, and when syncs are done. This is useful for connections that are bandwidth/cost-sensitive.
53533	Autocomplete matches now work correctly for Contact Groups.

60205	zmprov. Introduced a new CLI option -r. Using this allows replacement of multi-valued attribute value. If -r is not specified, and neither +/- is provided, than the command fails.
60444	The Zimbra user objectClass has been changed to inetOrgPerson starting with ZCS 8.0. When you provision new members starting with ZCS 8.0, the object class will be inet.OrgPerson. When you upgrade from ZCS 8.0 to 8.0.x, user data will be updated to reflect this change.
60640	The Reading Pane displays on the right by default.
60880	Changed the CA time period from 365d to 1825d (5 years).
60880	Default hard coded time out for self-signed certificates is now set to five years (1825 days).
61088	The Zimbra Assistant feature is no longer available in the Zimbra Web Client
61155	ZCO. ZCO obeys the sync interval configured in Send/Receive Groups dialog. However, new in this release is a feature called "Sync On Change", enabled by default, and configurable via the checkbox on the Zimbra Advanced Settings dialog. When enabled, Sync On Change detects changes on the server, or to locally held data, and synchronizes them after approximately 30 secs, without waiting for the next Send/ Receive interval.
63722	When you upgrade to ZCS 8.0, the value for **zimbraPrefGalAutoCompleteEnabled** in the default COS is changed from FALSE to TRUE. The value for **zimbraPrefGalAutoCompleteEnabled** in other cos's are not changed. The default value of **zimbraPrefGalAutoCompleteEnabled** in newly created COS's will be TRUE.
64030	Now if dynamic lists are used, the default is to allow lists of up to 10,000 members. This can be controlled via the localconfig key **postfix_virtual_alias_expansion_limit.**
64123	During the initial installation of ZCS, a GAL sync account is automatically created for the default domain.
67237	Show selection checkbox for selecting email, contract, voicemail items in a list view is now disabled by default. Users will have to go to **Preferences>General** and select **Settings** to display checkboxes.
67880	If the zimbra-mta service is installed, Swatch will use it for delivering messages. If it is not installed, Swatch will attempt to use the system sendmail binary for delivering messages. On multi-node servers that do not have zimbra-mta installed, it is necessary to ensure that there is a system sendmail binary that is correctly configured to deliver email if administrators expect swatch notifications to work.

68263	Created generic protocol throttle for POP3 and IMAP4 servers. The throttle will limit requests/second from a given IP and from a given account ID. The limit is enforced per-protocol; i.e. requests from POP and IMAP clients are handled separately. The limits are configurable in LC, with the following keys and default values: **imap_throttle_ip_limit - default 250** **imap_throttle_acct_limit - default 250** **imap_throttle_command_limit - default 25** **pop3_throttle_ip_limit - default 200** **pop3_throttle_acct_limit - default 200**
68749	When a domain is deleted, ZCS now deletes all its alias domains (i.e. alias domains with **zimbraDomainAliasTargetId** pointing to the domain being deleted.)
68849	On upgrade the ZCS installer automatically renames the existing admin extension **com_zimbra_smime** to **com_zimbra_smime_cert_admin** to avoid naming conflicts with the new com_zimbra_smime end user client Zimlet.
69494	Implement throttle for requests from an IP for LMTP service. By default, no throttling applied because the requests mostly come from internal MTAs. To enable, throttling for LMTP service add the hostname/IP of MTA to **zimbraThrottleSafeHosts** and set the LC key **lmtp_throttle_ip_limit**.
69638	Windows only issue. See the MSDN link on setting up winHTTP proxy, http://msdn.microsoft.com/en-us/library/windows/desktop/ms761351(v=vs.85).aspx
70758	Auto provisioned related attributes description and usage have been documented. The text doc is in **/opt/zimbra/doc/autoprov.txt.**
72225	Domain administrators have been deprecated in favor of delegated administrators since ZCS 6.x. The **zimbraIsDomainAdminAccount** attribute will no longer be returned in admin AuthResponse.
72644	S/MIME support for attaching messages, contacts and briefcase files for secured email.
73559	Free/Busy setting now are displayed correctly on domains.
73770	ZCO Delta sync Interval and Full Sync Interval options have been removed from the Advanced Settings dialog. Delta sync is initiated by using F9/send receive action in Outlook.
74389	Apple Address book (CardDAV) only syncs Collected Certificates contact folder. All the contacts collected by S/MIME Zimlet will now be stored in the Emailed Contacts folder. Users who already have contacts in Collected Certificate would need to manually move them to the Emailed Contacts folder.

74430	The com_zimbra_linkedin and com_zimbra_social zimlets will be undeployed and removed when you upgrade to ZCS 8.0. These zimlets are available from the Gallery at http://gallery.zimbra.com/.
74521	Customers currently on ZCS 7.x upgrading to latest version of ZCS will require full re-indexing mailboxes for sort-by recipients feature to work properly. Without full re-indexing the mailbox, sorting by "To" field in the "Sent" folder message view will skip all the messages from the sorted results added before the upgrade. Note: re-indexing mailbox is an expensive operation and if this feature is NOT so required then, its NOT recommended to do mailbox re-indexing.
74525	ZCA. Passwords are currently restricted to alphanumerics and hyphen. a-z A-Z, 0-9 and -
74875	ZCA. The root sign in credentials to the VAMI are user name is **root** password is **vmware**
75012	Deployments with Firefox do not update the log until the configuration is completed in some cases.
75053	HTTPS by default for logon. This bug is marked as WORKSFORME.
75152	LDAP based GALsync performance improvements.
75190	ZCA deployments to ESXi, Workstation and Fusion products will result in default IP assignment of 127.0.0.1. The following guidelines will help configure a usable network address. The guidance as given by the the Studio Developers Guide. The console window network configuration was removed in Studio 2.6. VMware Studio is configured to get networking settings from a DHCP server. If DHCP service is not available on your network, you might have to configure network parameters yourself. To manually configure network parameters: 1. On the command console below the welcome message, select **Login** and press **Enter**. 2. Log in using the root account and the password that you set during deployment. 3. Run the following command at the shell prompt: **/opt/vmware/share/vami/vami_config_net** A menu with six or more choices appears. Start with IP Address Allocation for a network interface. 4. If you need help with settings, refer to the User's Guide for Deploying vApps and Virtual Appliances.
75200	When deploying ZCA against vCenter with multiple network switches, you might need the modify the default switch on the VM prior to power-on.

75505	In 7.x and earlier releases, the server side logging controlled in log4j.properties was automatically scanned and reloaded even when the server is running. In 8.0 it is now necessary to invoke **zmprov rlog** from the command line in order to cause log4j.properties to be reloaded while server is running.
75590	S/MIME. Old messages with expired certificates display the correct "Signed by NN; the certificate has since expired." message.
76133	S/MIME. Inline images above 32K are not visible in IE8.No error is displayed.
76537	S/MIME. Images greater than 32K cannot be displayed in IE8. IE8 has a 32KB limit for data URI. No error is displayed.
76414	Index data for mailboxes is never deleted so a mailbox index can become very large over time and might be consuming excess disk space because of the large index data. In 8.0, a new zmprov CLI, **compactIndexMailbox** (**cim**) was created to compact index data. This command can be used to reclaim disk space when the index volume starts to become full. To compact a mailbox's index, type zmprov cim <name@domain|id> start Note: Depending on the size of the mailbox and the number of deletes this might take awhile. This might require additional free space on the index directory. You can run this command concurrently. It is recommended to run this command during off peak hours. You cannot cancel the command once it is started. To see the status of index compaction on a mailbox, type zmprov getIndexStats <name@domain|id>
76427/74430	All non-default and non-certified Zimlets are disabled when upgrading to 8.0. The com_zimbra_linkedin and com_zimbra_social zimlets will be undeployed and removed when you upgrade to ZCS 8.0. These zimlets are available from the Gallery at http://gallery.zimbra.com/.

Security Fixes for 8.0

ZCS release 8.0 includes security fixes.

Beta Features in ZCS 8.0

- Zimbra Touch Client integration (Bug 82969). See Zimbra Touch Client Integration Beta on page 24.
- IPv6 support is beta for 8.0. When installing ZCS, the installation menu now includes the ability to configure zimbraIPMode to either IPv4 or IPv6. (Bug 72715)

Zimbra Touch Client Integration Beta

The Zimbra Touch Client application is a preliminary version of the product and is not considered ready for general use. This application is considered Beta, and still in development.

Supported Devices

- iOS 6.0+ with Apple iPad 2 or later and Apple iPad Mini

Supported Zimbra Applications

- Zimbra Mail

Supported Features

- The sign-in page detects the tablet device and loads the touch client.
- Users sign-out from the Settings menu gear icon on the tool bar.
- Read mail as a list of conversations:
  - More conversations are loaded as the list is scrolled
  - List of conversations can be pulled down to refresh
  - Conversations display all messages in the thread in the panel on the right side
- Conversation tool bar has quick links to Reply, Reply All, Trash and a drop-down menu to mark, move, flag or tag the conversation.
- Message header can be collapsed, expanded, or detailed.
  - Message content shown unless header is collapsed.
- When a message is expanded, a drop-down actions menu displays in the header. A message can be deleted, moved, marked read/unread, marked as spam/not spam, flagged, or tagged.
- Quoted text is omitted by default, can be shown by clicking link.
- Folders, saved searches, and tags shown in the overview that slides in from the left.
- User can compose new mail.
- User can search mail within a folder.

Changes to ZCS 8.0

This section documents major changes to this release of ZCS.

- zimbra_posixaccount and zimbra_samba extensions are removed from ZCS installation. They will be available from the Zimbra Gallery, http://gallery.zimbra.com and be supported and maintained by the Zimbra Community. (Bug 72160)

- Red Hat Cluster Suite is not available with ZCS 8.0 To streamline support efforts, we will only test and certify in house availability solutions. Today VMware offers clustering failover and automated recovery through VMware HA. Zimbra integrates with the VMware HA cluster infrastructure to heartbeat Zimbra application services and provide automated recover in the event of a service failure. (Bugs 72215/72216)
- Zimbra Desktop will EOL in a future release of Zimbra but ZD 7.2 will be supported with Zimbra 8.0. The technology choices to provide offline access to Zimbra have expanded since the release of Zimbra Desktop 1.0.
- Extra and experimental Zimlets in **/opt/zimbra/zimlets-experimental** and **opt/zimbra/zimlets-extra** are removed from ZCS installation. The certified core Zimlets that ship with ZCS include the following.

com_zimbra_phone	com_zimbra_url
com_zimbra_email	com_zimbra_date
com_zimbra_ymemoticons	com_zimbra_dnd
com_zimbra_attachmail	com_zimbra_attachcontacts
com_zimbra_srchhighlighter	com_zimbra_webex
com_zimbra_smime	

  Note: When you upgrade to ZCS 8, other Zimlets that you have enabled are disabled. (Bug 50123)

  Zimlets will be available from the Zimbra Gallery, http://gallery.zimbra.com. (Bug 52813)

  The Social and LinkedIn Zimlets were moved to the Zimbra Gallery to be supported and maintained by the Zimbra Community.
- ZCS no longer caches content when using the proxy servlet. The attribute, **zimbraProxyCacheableContentTypes**, is deprecated. (Bug74769)
- HTTPStoreManager is EOL in ZCS 8. ZCS 8.0 include a new StoreManager SDK for integrations with third party storage solutions.
- Zimbra Instant Messaging (IM) capabilities was removed in ZCS 8.0.
- Family Mailbox feature is removed in ZCS 8.0. See Known Issues, bug 77519 on page 39.

Zimbra Web Client UI Changes

- The default value to view the Mail tab content is Reading Pane on the right.
- Get Mail button is removed and refresh is now on the right end of the feature bar.
- The Print option is under the Actions menu.
- For advanced searches, click the magnifying glass in the Search field.
- People Search field was removed.
- Themes default has changed to Serenity.

- Briefcase is disabled by default.
- **Show selection checkbox** for selecting email, contract, voicemail items in a list view is now disabled by default.

VMware Heartbeat Service

ZCS utilizes the VMware application programming interface that allows software providers to deploy application monitoring components inside a VMware guest OS and inform VMware HA when problems arise. The VMware-heartbeat service provides information to the VMware HA components on the health and availability of the ZCS. If you have VMware HA components installed, the VMware HA service is shown as enabled on the Server>Services page.

General Description of VMware HA

VMware HA provides a simple, reliable way to increase the availability of virtual machines hosting critical applications. VMware HA is a visualization-based distributed infrastructure service of VMware vSphere 4.1+, which monitors the health of virtual machines and the VMware ESX® hosts upon which they reside. If a fault is detected, the virtual machine is automatically restarted on another ESX host with adequate capacity to host it. VMware HA is included in all vSphere editions and can be enabled on a VMware cluster with a single check box. As VMware HA utilizes the storage and network connectivity already in place to support vMotion, enabling high availability is as simple as ensuring you have adequate server capacity to handle failure of one or more ESX hosts.

Upgrade Process

To upgrade from 6.0.x or 7.0.x to 8.0.x, download the latest ZCS 8.0.x software and run the upgrade.

Note: *Database reloads are performed on 7.x to any 8.x upgrade.*

Before You Upgrade

The following might need to be done before you upgrade.

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 the 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.

Red Hat Enterprise Linux OS

Beginning with ZCS 8.0, only Red Hat Enterprise Linux 6 (64) is supported. If you are running an earlier version of RHEL, make sure you install this OS before upgrading to ZCS 8.0.

SLES 11 OS only

If your OS is SUSE Linux Enterprise Server 11, we recommend you have SP3 installed (SP3 is required for 8.0.5 and later). (Bug 83032, 83676)

Verify Certificates Expiration Date

ZCS 8.0.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 in ZCS 7.2 or earlier of 365 days, beginning with ZCS 8.0 default expiration is 1825 days (5 years).

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**

License Activation for ZCS 8.0

All network edition installs require license activation. New installs will have a 10 day grace period from the license issue date before requiring activation. For upgrade installations, activation is automatic during the install with

systems that have external access to the Zimbra license servers. A means of creating manual activations will be provided for systems that do not have external access to the Zimbra license servers. See the ZCS installation guides for more information.

When upgrading to ZCS 7.0.0 or later, the way in which ZCO and archiving licensing is enforced has changed in the server. Older licenses might have **MAPIConnectorAccountsLimit** set to 0 or **ArchivingAccountsLimit** missing in the license. Contact sales for an updated license file prior to upgrading if you have licensed either of these features and your current license does not properly reflect the correct number.

Important: *Note that an upgrade installation will not proceed without automatic activation or a manually activated license file. Also, license activations are limited to five activations per license file. If you have previously used all activations prior to upgrading your production system, you must contact sales to enable additional license activations.*

Upgrading LDAP Replica Servers or Multi-Master Server from ZCS 8.0.0, 8.0.1, 8.0.2 to ZCS 8.0.4 and later

If you have replica servers or are in multi-master mode, you have to install the Zimbra LDAP schema specific to the release you are upgrading to onto the replica servers or onto the multi-master server before you upgrade to ZCS 8.0.4 and later. (Bug 81048)

1. On the master LDAP server, perform a software installation only of ZCS 8.0.4 or later.

   ./install.sh -s

2. On each replica or additional master LDAP server in MMR mode, as zimbra user:

   a. Stop the server:

      ldap stop or zmcontrol stop

   b. Move the zimbra schema out of the way

      cd /opt/zimbra/data/ldap/config/cn=config/cn=schema

      mv cn={4}zimbra.ldif /opt/zimbra/data/ldap/cn={4}zimbra.ldif.dead

   c. Copy the schema from the master LDAP server.

      scp root@<master>:/opt/zimbra/openldap/etc/openldap/schema/zimbra.ldif cn={4}zimbra.ldif

   d. Edit **cn={4}zimbra.ldif** to change the following two lines:

      dn: cn=zimbra,cn=schema,cn=config -------> dn: cn={4}zimbra

      cn: zimbra -------> cn: {4}zimbra

   e. Start the server:

      ldap start or zmcontrol start

3. On the master LDAP server run:

   /opt/zimbra/libexec/zmsetup.pl

4. On each replica server run:

   ./install.sh

To continue the upgrade, see Multi-Server Environment Upgrade Steps on page 31.

Update Default Proxy SSL Ciphers Attribute

Insecure SSL ciphers have been removed from the default proxy configuration. Existing sites are recommended to review their enabled ciphers and set **zimbraReverseProxySSLCiphers** to **RC4:HIGH:!aNULL:!MD5:!kEDH:!AD:!SSLv2** for maximum security.

Note: *Some clients might need to be reconfigured if they were previously using a cipher which is now disabled. (Bug 80133)*

If you use Zimbra Clustering

Zimbra Clustering is no longer available for ZCS 8.0. VMware provides integrated high availability between Zimbra and VMware
HA for automated recovery of critical Zimbra application services and server components in the event of an application or infrastructure failure. Third party solutions such as network load balancers, storage mirroring, or OS clustering solutions like Red Hat Cluster Suite may be used in your deployment, but are not specifically tested or certified by VMware. (Bug75821)

Upgrade Instructions

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

Important: *Before you begin the upgrade, make sure you have a good backup for all users!*

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.

Important*: Zimbra recommends that an install or upgrade session be run with a UNIX command such as "screen" to help prevent an install or upgrade session from terminating before it is completed. This is important when the upgrade includes restoring a configuration that has a large number of accounts.*

Example command usage: screen ./install.sh

Note: *You cannot revert to a previous ZCS release after you upgrade.*

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.

Process

1. Log in as **root** to the Zimbra server and **cd** to the directory where the ZCS 8.0.5 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 and then checks for the Zimbra license. If the license is found, the number of current users and the number of user licenses is listed.

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. The installer checks for a recent backup. If one is not found, **Do you wish to continue without a backup?** is displayed. The default is **N**. If you select N, you exit the upgrade. Run a backup and then restart the upgrade.

4. 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.

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

6. 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.

7. 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.

8. 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.

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

Multi-Server Environment Upgrade Steps

Upgrade the servers in the following order. Update each server one at a time.

- LDAP master server. The LDAP master server must be running as you upgrade the other servers.
- LDAP replicas
- MTA servers
- Proxy servers
- Mail store servers

IMPORTANT: Certificates. If self-signed certificates are used, after the LDAP master is upgraded, the self-signed certificates must be redeployed on all remaining nodes **BEFORE** they are upgraded. If you do not do this, the upgrade will fail. Use CLI zmcertmgr to add the certificates. As root, type

/opt/zimbra/bin/zmcertmgr deploycrt self

Process

1. Log in as **root** to the Zimbra server and **cd** to the directory where the ZCS 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. Three software license agreements are displayed. Read these license agreements and enter **Y** for each.

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

   Mail store server - The installer checks for a recent backup. If one is not found, **Do you wish to continue without a backup?** is displayed. The default is **N**. If you select N, you exit the upgrade. Run a backup and then restart the upgrade.

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.

   Note: *When upgrading the zimbra mail store, the upgrade checks for the Zimbra license. If the license is found it lists the number of current users and the number of user licenses. If it is not found, press* **Enter** *to continue. You can add the license later from the administrator's console.*

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

Important: *A known issue is the administration console might report a CSFE_SVC_ERROR with HTTP status code 503 when viewing the HSM or indexing sections. Users experiencing this frequently might add the administrator's web browser IP address to the DOS filter whitelist. See http://wiki.zimbra.com/wiki/DoSFilter for details on whitelist configuration. (Bug 82384)*

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

- During the upgrade process, zimbra might make a binary backup of existing databases when there are major structural changes occurring to the database format for ease of downgrading. Administrators will want to clean these up once they have confirmed a successful upgrade. For LDAP servers, these backups are in /opt/zimbra/data/ldap, and in the form of **<dbname>.prev.$$"** where **$$** is the process ID of the upgrade script. (Bug 81167)
- You should run **zmldapupgrade -b 66387** after upgrading.

  Beginning with 8.0, **zimbraAllowFromAddress** attribute cannot be set for internal accounts or distribution lists. Running this script will change **zimbraAllowFromAddress** values to grants.

  This step was not included into the installer-driven upgrade due to potentially long delay for sites that set **zimbraAllowFromAddress** on many accounts.

  The migration command reports how many accounts had **zimbraAllowFromAddress** attribute set and how many of them needed migration. One way to verify all accounts got migrated is to run the command again. The total won't change, and the number migrated should be 0. (Bug 66387)
- If your self-signed SSL certificates have expired, update them. See Verify Certificates Expiration Date on page 27.
- 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

Updating your MySQL table

If you upgrading from 6.X to ZCS 8.0 or later, MySQL table upgrade is required after upgrading. If you do not upgrade MySQL, regular reports from zmdbintegrityreport are going to flag warnings in your MySQL table. Customers can avoid these errors in the zmdbintegrityreport output by executing **/opt/zimbra/libexec/scripts/migrate20100913-Mysql51.pl.**
(Bug 24329, 50557)

MySQL upgrades are not automatically run during the upgrade to 8.0.x, because of the time that it takes this process to run. There is no known performance impact when running in production without doing this MySQL table upgrade.

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

Setting iframes

Zimbra Web Client no longer works in an iframe. If you want to continue to use iframe, modify zimbra.web.xml.in. The parameter must be set to **TRUE**.

1. As zimbra user, change directories. Type

   cd /opt/zimbra/jetty/etc

2. Edit the file **zimbra.web.xml.in**

3. To use iframes, in the **<filter-name>Set Header Filter</filter-name> <filter-class>com.zimbra.webClient.filters.SetHeaderFilter</filter-class>** section, add the following

   <init-param>

   <param-name>allowInFrame</param-name>

   <param-value>true</param-value>

   </init-param>

4. Restart ZCS.

   zmcontrol restart

Remove Current Version and Perform Clean Install of ZCS

If you do not want to upgrade, but prefer to install ZCS 8.0.5 as a new installation, when you run the ZCS 8.0.5 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 Customization 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 might be deprecated and/or overwritten during upgrades, removing any customizations. This includes customized themes, logo branding changes, and crontab changes.

Only the core Zimlets are enabled after the upgrade. Zimlets that you customized and/or deployed are preserved during the upgrade but will be disabled. As upgrading of customized Zimlets cannot be tested before the release, Zimbra recommends that you verify that your customized Zimlets work correctly before re-enabling them for your end-users after the upgrade. The core Zimlet list is on page 25.

Note: *When upgrading to ZCS 8.0.x from a previous major ZCS version, the upgrade step disables zimlets that are not the core zimlets for ZCS in all COSs. If you have enabled other zimlets at the account level, you might need to manually disable these zimlets. (Bug 77836)*

All entries between the designated comments in the Zimbra crontab file are overwritten with new defaults upon upgrade. Customized backup schedules stored in the Zimbra crontab and customizations to the crontab entry outside the designated comments are preserved.

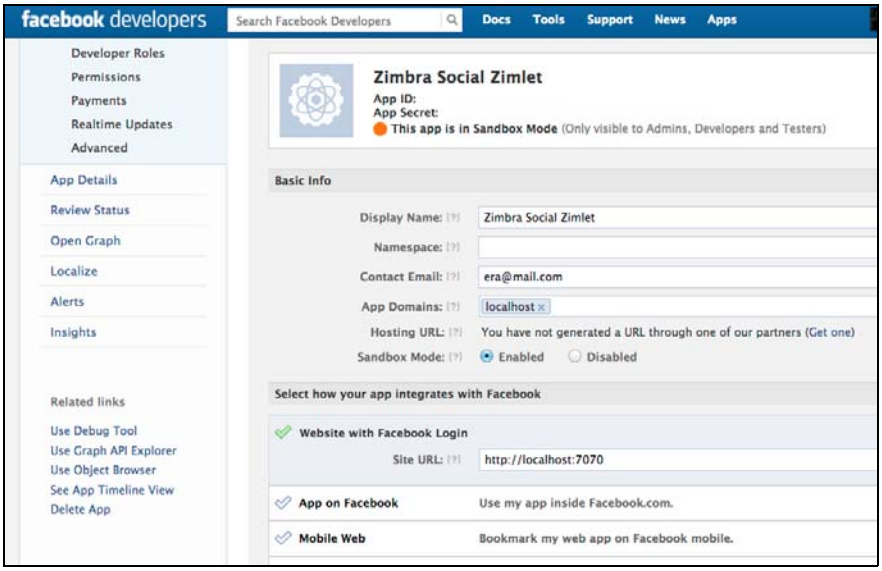
Changes to Customized Themes

In ZCS 8.0, a new design for default skins was implemented. Custom skins created for Zimbra 7.x might not work as intended with Zimbra 8.x. Depending on what's in the skin, the issues might range from simple things such as colors being used in the wrong places to larger issues like functional components being hidden or placed in inaccessible areas of the screen. The proper fix for this is to take an existing 8.x skin, duplicate it, and update the skin to meet the same needs as the old skin. (Bug 62523)

Using the Social Zimlet

Configure the Social Zimlet in Facebook:

1. Go to the following in Facebook **https://developers.facebook.com/apps**.
2. Click **Create new App**.
3. Set up the Zimlet similar to the following screenshot:
   - Enter a **Display Name** and **Contact Email**.
   - For **App Domains**, enter the client's domain instead of localhost.
   - Disable **Sandbox Mode** to allow others to use.
4. Edit the file. Copy the **App ID** and **App Secret** from the created app to the file **com_zimbra_social/config_template.xml**, to the **properties social_facebook_app_id** and **social_facebook_app_secret**.
5. Build the app. See the screen shot below.



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.

Known Issues for 8.0

Issue #	Summary
	Known third-party browser issues Windows 8 Mail app ActiveSync and Exchange accounts have the following limitations: • Accept/decline buttons in the meeting request mail • Cannot accept/decline a meeting from calendar • Categories not supported • Flags not supported • Drafts do not sync • Only the default folders in contacts and calendar are synced • Sub-folder creation in not supported • Sorting is always date-wise • No action can be performed on existing folders
Since 8.0.5	
77319	Depending on the status of a primary LDAP connection problem, the failover to another LDAP server is not working.
80613	In a multi-server environment that has both master and replicas, the zmprov -l option does not fallback to the replica if the master is down.

80815	ZCO: S/MIME does not work in Outlook 2013. When a signed and encrypted message is sent from Zimbra Web Client to ZCO, if you try to open the mail in ZCO, Outlook hangs
81117	In a multi-server environment that has both master and replicas, the zmcontrol function does not work when the Master LDAP is down.
82384	The administration console might report a CSFE_SVC_ERROR with HTTP status code 503 when viewing the HSM or indexing sections. Users experiencing this frequently might add the administrator's web browser IP address to the DOS filter whitelist. See http://wiki.zimbra.com/wiki/DoSFilter for details on whitelist configuration.
82958	S/MIME does not work with Firefox 22.
83727	Contacts sub-folders and Global Address List do not sync when using an Outlook 2013 Exchange ActiveSync profile.
83736	Read receipt notifications are not received when enabled when using an Outlook 2013 Exchange ActiveSync profile.
83747	Categories and Tags are not displaying in the Zimbra Web Client when using Outlook 2013 Exchange ActiveSync.
83750	Appointment and tasks display in HTML body format in Outlook 2013 Exchange ActiveSync.
83790	Contact notes do not display in the Zimbra Web Client when using Outlook 2013 Exchange ActiveSync.
83791	Contacts with an anniversary added to the Zimbra Web Client are unable to sync when using Outlook 2013 Exchange ActiveSync.
83793	Task reminders in the Zimbra Web Client do not sync when using Outlook 2013 Exchange ActiveSync.
83801	Numerous known issues when using Outlook 2013 Exchange ActiveSync.
Since 8.0.4	
76843	Installing Certificate from the administration console issue: If you do not have an existing .csr on the server, the Download the CSR link in the Certificate Installation Wizard does not work. Work around: Make sure that a .csr file is in the **${zimbra_home}/mailboxd/webapps/zimbraAdmin/tmp/current.csr** directory before you begin. When you configure the new certificate from the administration console, make sure you check **Replace the existing CSR** on the Generate the Certificate Signing Request page in the certificate installation wizard.
80268	Applying a custom theme (skin) to the administration console is not supported.
81048	If you have replica servers or are in multi-master mode, you have to install the Zimbra LDAP schema specific to the release you are upgrading to onto the replica servers or onto the multi-master server before you upgrade to ZCS 8.0.4 or later. See Upgrading LDAP Replica Servers or Multi-Master Server from ZCS 8.0.0, 8.0.1, 8.0.2 to ZCS 8.0.4 and later on page 28.
Since 8.0.3	
80270	ZCO. In Outlook 2013, search does not work.
Since 8.0.0	

77519	If you are using family accounts, wait for 8.0.2 to upgrade, unless you feel confident enough to manually fix your LDAP data. Note that family accounts are not supported in ZCS 8.0, and the upgrade or workaround will make the former “child” accounts a normal account. See bug 77519, Comment 24 for the workaround steps and a sample shell script. (http://bugzilla.zimbra.com/)
75254	Rolling Upgrades. Multinode configuration with self-signed certificates will not function in a rolling upgrade. If self-signed certificates are used, after the LDAP master is upgraded, the self-signed certificates must be redeployed on all remaining nodes before they are upgraded or the upgrade will fail. Workaround: Use commercial certificates with rolling upgrades.
75280	When using the new quick reply feature to reply to a message, the original message is not added as an attachment, even if the user’s preferences are set to include the original message. This is the correct behavior.
74941/75474	Wont fix. Users on a mailbox server at 7.2.x cannot send a message “on-behalf-of” or “send as” for a user that is on a server upgraded to 8.0.x. Make sure all users sending mail on behalf of (OBO) are on ZCS 8.0.
75386	Won’t Fix. LinkedIn and Twitter Search Zimlets do not work for ZCS 8.0.
75459/75527/ 72211/75459	Rolling Upgrades. While in rolling upgrade mode, cross version sharing does not work. Users on ZCS 7.x cannot access shares on ZCS 8.0.
75553	Rolling Upgrade. While in rolling upgrade mode, cross mailbox search will not work for 7.2 or 8.0 versions from the admin console. Workaround: While in rolling upgrade mode, use the command line search across accounts. /opt/zimbra/bin/zmmboxsearch -m "*" -q "test"
50272	Harmless errors are reported by the zmdbintegrityreport.
75013	Safari is unsupported browser by VAMI bug appears to work.
75523	Rolling Upgrade: Address Book. While in rolling upgrade mode, contact Group members are not displayed when users on a 7.2 mailbox server share their address book with users on an 8.0.x mailbox server.
76665	Large attachments (greater than 1MB) might result in errors due to Java memory limitations when using S/MIME signed or encrypted messages.

73209	Rolling Upgrade.The **preauth failed** request does not lockout the account with lockout setting. This works correctly when the mailbox server is upgraded.
74851	Rolling Upgrade. You cannot move an account from a later version of ZCS to an earlier version. For example, an account on a server at ZCS 8.0 cannot be moved to a ZCS server at 7.2.
74854	Rolling Upgrade. If a calendar resource is renamed while you are performing a rolling upgrade make sure the rename requests are sent to the LDAP server that has been upgraded to 8.0.x.

78321	Rolling Upgrade. While in rolling upgrade mode, admins should deploy the drag and drop zimlet for 7.x users during a rolling upgrade, as this zimlet is no longer utilized in Zimbra 8.0.x as functionality has moved into core product code.
78334	Rolling Upgrade. In Zimbra 8.0.x checklists are defaulted to off. If the behavior for users in ZCS 7.2 was to have the check list feature enabled, admins will need to change the COS settings or users can modify their preferences to maintain the same behavior.
78339	Rolling Upgrade. Even if the emoticons zimlet was enabled for accounts at 7.2.x, after the rolling upgrade this zimlet is not available in the user's Preferences page. Administrators should redeploy the zimlet. The zimlet zip file is in the /opt/zimbra/zimlets directory.
78826	Tag color is not available when viewing ZWC on Internet Explorer 10. Internet Explorer 9 and 10 need to have IE Compatibility View turned off for ZCS 8.0.x. See http://windows.microsoft.com/en-US/windows7/How-to-use-Compatibility-View-in-Internet-Explorer-9.
77417	ZCO. When sharing folders with an external account, the email that is sent shows the user name and password but does not give the URL on how to access the share.
78566	When folders are assigned a color in ZCO, when viewing the folder from the ZWC, the folder is not displayed in that color.

Previous General Known Issues

Issue #	Summary
	Known third-party browser issues Some browser issues can affect how the Zimbra administration console and Zimbra Web Client work. When you get a browser error, try reloading the browser to continue. • 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. • If mail is displayed in HTML format, you cannot select the text with the mouse.
51775	ZCO with Outlook 2003. To add, modify or delete signatures using Outlook 2003, use **Tools->Options->Mail Format** tab and the associated **Signatures** button. If you have configured Word to be your email editor, using the Tools->Options->Mail Format tab->"Use Microsoft Word 2003..." checkboxes, you will see a small drop-down arrow next to the Options button in the window you use to compose a new e-mail. This also allows you to edit signatures, but changes made here will not be synced to the server, and might be lost after restarting Outlook.

48997	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.x.
	To check the value of the attribute, run
	$ zmprov gd YOUR_DOMAIN zimbraPasswordChangeListener
	To change the value, say, to the samba password listener, run
	$ zmprov md YOUR_DOMAIN zimbraPasswordChangeListener sambapassword

55174	Calendar Week Numbers displayed in the mini-calendar must be set to Monday to display the correct European week numbers.
55459	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.
50238	Third-party issue. Windows Mobile 6 removes all occurrences of a recurring meeting when the first instance is deleted.
50239	Third-party issue. Android SDK 2.2 cannot display inline image content.
20986	ZCO. (Wontfix) When ZCO is upgraded, if users are prompted that a dll is in use by searchprotocolhost.exe, they should click the Continue button to proceed with the upgrade.
54278	Family Mailbox was not supported in ZCS 7.X. See Changes to ZCS 8.0 on page 24 for more information.
47889	ZCO/BES (WontFix). BES adds the appointment to the Calendar.
47823	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.
44540	After activating or updating a license, the administrator can run **zmprov fc -a license** to immediately flush the license cache on all mailbox nodes.
51641	Third-party issue. iPhone calendar might not sync correctly when declining or accepting an appointment in ZWC after the appointment has already been accepted/declined from iPhone.
60563	The Undo Send Zimlet might cause messages to be sent with no content in the body. To avoid this, disable the Zimlet.

67171	The ability to completely disable SSL Renegotiation might be desirable for some environments, but due to the performance degradation it is not optimal to use as a default setting. The SslSelectChannelConnector can be forced to disable client renegotiate requests via the "allowRenegotiate" attribute, for said connector, in jetty.xml.in/ jetty.xml. The default setting is allowRenegotiate=TRUE. Explicitly setting to "FALSE" will configure ZCS to always disallow SSL renegotiation for the SSL connector in question. A mailboxd restart is required for this change. For instance: <New id="ssl"class="org.eclipse.jetty.server.ssl.SslSelectChannelConnector"> <Set name="Port">%%zimbraMailSSLPort%%</Set> <Set name="allowRenegotiate">FALSE</Set> <Set name="useDirectBuffers">%%zimbraMailUseDirectBuffers%%</Set> <Set name="maxIdleTime">30000</Set> <Set name="lowResourcesMaxIdleTime">10000</Set> <Set name="Acceptors">2</Set> <Set name="keystore"><SystemProperty name="jetty.home" default="."/>/etc/keystore</Set> <Set name="password">@@mailboxd_keystore_password@@</Set> <Set name="KeyPassword">@@mailboxd_keystore_password@@</Set> <Set name="ExcludeCipherSuites"> <Array type="java.lang.String"> %%zimbraSSLExcludeCipherSuitesXML%% </Array> </Set> <Set name="Forwarded">true</Set> </New>
69940	When receiving an encrypted message with attachments, the Download, Briefcase and Remove links are not displayed, and the size of the attachment is not available.
71141	Zimbra logger is not directly supported in mixed syslog (rsyslog, syslogd, sysklogd) environments due to formatting differences between the varying systems.
72498	S/MIME. When users upgrade the S/MIME Zimlet or replaced it with a signed version, they will need to do the following: 1. Undeploy zimlet 2. Delete jetty/webapps/zimbra/public/com_zimbra_smime.jarx 3. Deploy new version of Zimlet 4. Copy jarx from ./zimlets/deployed to jetty/webapps/zimbra/public/
71992	S/MIME - Script error on sending/viewing inline image messages.

70550	S/MIME - FIPS mode is supported only for the Firefox browser on the Mac computer and supported on the Windows platform and any supported browser on Windows.
74621	S/MIME. Users cannot send signed/encrypted share invitation messages.

Product Documentation

Online help and ZCS documents are available on the administration console. Documentation can also be found on the Zimbra web site, 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 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.

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