

Zimbra Collaboration Server
Single Server Installation

Network Edition 7.2

April 2012

Legal

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Zimbra Collaboration Server - Network Edition 7.2

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ZCS Single Server Installation

The Zimbra Collaboration Server (ZCS) includes the Zimbra MTA, the Zimbra LDAP server, and the Zimbra mailbox server. In a single-server installation, all components are installed on one server and require no additional manual configuration.

This installation guide is a quick start guide that describes the basic steps needed to install and configure the Zimbra Collaboration Server in a direct network connect environment. In this environment, the Zimbra server is assigned a domain for which it receives mail, and a direct network connection to the Internet. When the Zimbra Collaboration Server is installed, you will be able to log on to the Zimbra administration console to manage the domain and provision accounts. The accounts you create will be able to send and receive external email.

Topics in this chapter include:

- Important Notice About Single Server Installations
- Installation Prerequisites
- Modifying Operating System Configurations
- Configure DNS
- Overview of Installation Process
- Zimbra License Requirements for ZCS Network Edition
- Downloading the Zimbra Software
- Basic Configuration
- Installing Zimbra Software
- Provisioning Accounts
- Support and Contact Information

Important Notice About Single Server Installations

The Zimbra Collaboration Server is designed to be the only application suite installed on the server. The Zimbra Collaboration Server bundles and installs, as part of the installation process various other third party and open source

software, including Apache Jetty, Postfix, OpenLDAP®, and MySQL®. The versions installed have been tested and configured to work with the Zimbra software. See the Administration Guide for a complete list of software.

Note: *A Zimbra license is required in order to create accounts on the Network Edition Zimbra Collaboration Server. You cannot install ZCS without a license. See Zimbra License Requirements for ZCS Network Edition on page 9.*

The following table shows the default port settings when the Zimbra Collaboration Server is installed.

Table Zimbra Port Mapping

	Port
Remote Queue Manager	22
Postfix	25
HTTP	80
POP3	110
IMAP	143
LDAP	389
HTTPS	443
Mailboxd IMAP SSL	993
Mailboxd POP SSL	995
Mailboxd LMTP	7025

Important: *You cannot have any other web server, database, LDAP, or MTA server running, when you install the Zimbra software. If you have installed any of the applications before you install Zimbra software, disable these applications. During the ZCS install, Zimbra makes global system changes that may break applications that are on your server.*

Installation Prerequisites

In order to successfully install and run the Zimbra Collaboration Server, ensure your system meets the requirements described in this section. System administrators should be familiar with installing and managing email systems.

System Requirements

For the ZCS system requirements see Other Dependencies in the System Requirements table.

Note: *To find SSH client software, go to Download.com at http://www.download.com/ and search for SSH. The list displays software that can be purchased or downloaded for free. An example of a free SSH client software is PuTTY, a software implementation of SSH for Win32 and Unix platforms. To download a copy go to http://putty.nl*

Modifying Operating System Configurations

The Zimbra Collaboration Server runs on one of several operating systems, including Ubuntu® LTS, Red Hat® Enterprise Linux, and SUSE® Linux Enterprise.

Configuration modifications for frequently used operating systems are described in individual configuration documents. Other operating systems may require similar modifications, and you can use the information contained in the individual configuration documents as a reference to gauge whether your operating system may need to be modified.

A full default installation of the Linux distribution that you select is required.

For more information, refer to the System Requirements document for information on hardware and software configurations supported by Zimbra Collaboration Server.

Note: *Zimbra recommends that the operating systems you use are updated with the latest patches that have been tested with ZCS. See the latest release notes to see the operating systems patch list that has been tested with ZCS.*

Configure DNS

In order to send and receive email, the Zimbra MTA must be configured in DNS with both A and MX records. For sending mail, the MTA uses DNS to resolve hostnames and email-routing information. To receive mail, the MX record must be configured correctly to route the message to the mail server.

During the installation process, ZCS checks to see if you have an MX record correctly configured. If it is not, an error is displayed suggesting that the domain name have an MX record configured in DNS.

You must configure a relay host if you do not enable DNS. After ZCS is installed, go to the **Global Settings>MTA** tab on the administration console and uncheck **Enable DNS lookups**. Enter the relay MTA address to use for external delivery.

Note: *Even if a relay host is configured, an MX record is still required if the ZCS server is going to receive email from the Internet.*

Overview of Installation Process

When you run the install script, the Zimbra install verifies that the correct prerequisite packages are available to be installed.

- **Zimbra Core** installs the libraries, utilities, and monitoring tools.
- **Zimbra LDAP** installs the OpenLDAP software, which provides open source LDAP directory services.
- **Zimbra Store** installs the mailbox server, including Jetty, the servlet container for the Zimbra server.
- **Zimbra MTA** installs the Postfix open source MTA, the Clam AntiVirus antivirus engine, the SpamAssassin junk mail filter, and the Amavisd-New content filter.
- **Zimbra SNMP** installs the SNMP package for monitoring. This package is optional.
- **Zimbra Logger** installs tools for syslog aggregation and reporting. If you do not install Logger the server statistics are not captures, and the server statistics section of the administration console does not display.
- **Zimbra Spell** installs the Aspell open source spelling checker.
- **Zimbra Apache** is installed automatically when Zimbra Spell or Zimbra Convertd is installed. The default is to install one zimbra-convertd on each zimbra-store server. But only one zimbra-convertd needs to be present in a deployment depending on size of ZCS environment.
- **Zimbra Proxy** installs the proxy feature which can be configured for POP and IMAP proxy and for reverse proxy HTTP requests.
- **zimbra-memcached.** Memcached is automatically selected when the zimbra-proxy is installed. At least one server must run zimbra-memcached when the proxy is in use. All installed zimbra-proxies can use a single memcached server.
- **Zimbra Archiving** installs the Zimbra Archiving and Discovery feature. This is an optional feature for ZCS Network Edition that offers the ability to store and search all messages that were delivered to or sent by ZCS. When this package is installed on the mail server, the cross mailbox search function is enabled. Using the Archiving and Discovery feature can trigger additional mailbox license usage. To find out more about Zimbra Archiving and Discovery, contact Zimbra sales.

The Zimbra server configuration is menu driven. The installation menu shows you the default configuration values. The menu displays the logical host name and email domain name [mailhost.example.com] as configured on the computer. You can change any of the values. For single server installs, you must define the administrator’s password, which you use to log on to the

administration console, and you specify the location of the Zimbra license xml file.

Downloading the Zimbra Software

For the latest Zimbra software download, go to www.zimbra.com. Save the Zimbra Collaboration Server archive file to the computer from which you will install the software.

Zimbra License Requirements for ZCS Network Edition

ZCS licensing gives administrators better visibility and control into the licensed features they plan to deploy. The following is a summary of the feature attributes of a ZCS network edition license.

- Number of mailboxes assigned globally.
- Number of Zimbra Mobile users. The feature can be enabled or disabled by the administrator using Class of Service.
- Number of Outlook Connector users. The feature can be enabled or disabled by the administrator using Class of Service.
- Number of Archiving users assigned globally.
- Number of Attachment indexing users assigned globally.

Zimbra License Requirements

A Zimbra license is required in order to create accounts in the Network Edition Zimbra Collaboration Server.

Several types of licenses are available:

- **Trial**. You can obtain a free Trial license from the Zimbra website, at www.zimbra.com. The trial license allows you to create up to 50 users. It expires in 60 days.
- **Trial Extended**. You can obtain a Trial Extended license from Zimbra Sales by contacting sales@zimbra.com or calling 1-650-427-5701. This license allows you to create up to 50 users and is valid for an extended period of time.
- **Subscription**. You must purchase the Zimbra Subscription license. This license is valid for a specific Zimbra Collaboration Server and is encrypted with the number of Zimbra accounts (seats) you have purchased, the effective date, and expiration date of the subscription license.
- **Perpetual**. You must purchase the Zimbra Perpetual license. This license is similar to a subscription license and is valid for a specific Zimbra Collaboration Server, is encrypted with the number of Zimbra accounts (seats) you have purchased, the effective date, and an expiration date of

2099-12-31. When you renew your support agreement, no new perpetual license is sent to you, but your Account record in the Zimbra systems is updated with your new support end date.

License Usage by ZCS Account Type

A mailbox license is required for an account assigned to a person, including accounts created for archiving. Distribution lists, aliases, locations and resources do not count against the license.

Below is a description of ZCS accounts and if they impact your license limit.

- **System accounts**. System accounts are specific accounts used by ZCS. They include the spam filter accounts for junk mail (spam and ham), virus quarantine account for email messages with viruses, and GALsync account if you configure GAL for your domain. Do not delete these accounts! These accounts do not count against your license.
- **Administrator account**. Administrator accounts count against your license.
- **User accounts**. User accounts count against your license account limit. When you delete an account, the license account limit reflects the change.
- **Alias account**. Aliases do not count against your license.
- **Distribution list**. Distribution lists do not count against your license.
- **Resource account**. Resource accounts (location and resources) do not count against your ZCS license.

License Activation

All network edition installations require license activation. New installations have a 10 day grace period from the license issue date before requiring activation. Your license can be activated from the command line interface, or from your administration console by selecting Global Settings and the License tab, then clicking Activate License in the toolbar.

Upgraded ZCS versions require an immediate activation to maintain network feature functionality.

Automatic License Activation

Licenses are automatically activated if the ZCS server has a connection to the Internet and can communicate with the Zimbra License server. If you are unable to automatically activate your license, see the next section Manual License Activation.

Manual License Activation

For systems that do not have external access to the Zimbra License server, you can use the Zimbra Support Portal to manually activate your license. Go to the Zimbra website at **www.zimbra.com** and click on the **Support** tab to

display the Zimbra Technical Support page. Click on the **Support Portal Login** button to display the Zimbra Support Portal page. Enter your email and password to log in.

If you have problems accessing the Support Portal, contact Zimbra Sales at sales@zimbra.com or by calling 1-650-427-5701.

License Not Installed or Activated

If you fail to install or activate your ZCS server license, the following scenarios describe how your ZCS server will be impacted.

- **License is not installed**. If a license is not installed, the ZCS defaults to single user mode where all features limited by license are limited to one user.
- **License is not valid**. If the license file is forged or could not be validated for other reasons, the ZCS defaults to single user mode.
- **License is not activated**. A license activation grace period is 10 days. If for some reason the license is never activated, the ZCS defaults to single user mode.
- **License is in future**. If the license starting date is still in future, the ZCS defaults to single user mode.
- **License is in grace period**. If the license ending date has passed and is within the 30 day grace period, all features limited by license are still enabled, but Administrators may see license renewal prompts.
- **License expired**. If the license ending date has passed and the 30 day grace period expired, the ZCS server defaults to single user mode.

Obtaining a License

Go to Zimbra's Website to obtain a trial license from the Network Downloads area. Contact Zimbra sales regarding a trial extended license, or to purchase a subscription license or perpetual license, by emailing sales@zimbra.com or calling 1-650-427-5701.

The subscription and perpetual license can only be installed on the ZCS system for which it is purchased. Only one Zimbra license is required for your Zimbra Collaboration Server environment. This license sets the number of accounts that can be created.

Current license information, including the number of accounts purchased, the number of accounts used, and the expiration date, can be viewed from **Global Settings>License** tab on the administration console.

Basic Configuration

The default configuration installs the Zimbra-LDAP, the Zimbra-MTA with anti-virus and anti-spam protection, the Zimbra mailbox server, the SNMP

monitoring tools (optional), Zimbra-spell (optional), the logger tool (optional), and the Zimbra proxy (optional) on one server.

The menu driven installation displays the components and their existing default values. You can modify the information during the installation process.

The table below describes the menu options

Table Main Menu Options

Main Menu	Description
1) Common Configuration - These are common settings for all servers	
Hostname	The host name configured in the operating system installation
LDAP master host	The LDAP host name. On a single server installation, this name is the same as the hostname.
LDAP port	The default port is 389
LDAP Admin password	This is the master LDAP password.
Secure interprocess communications	The default is YES. Secure interprocess communications requires that connections between the mail store, and other processes that use Java, use secure communications. It also specifies whether secure communications should be used between the master LDAP server and the replica LDAP servers for replication.
Time Zone	Select the time zone to apply to 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. The default time zone is PST (Pacific Time).
2) zimbra-ldap	
Status	The default is Enabled. For replica LDAP servers, the status can be changed to Disabled if the database is manually loaded after installation completes.
Create Domain	You can create one domain during installation. Additional domains can be created from the administration console.
Domain to create	The default domain is the fully qualified hostname of the server. If you created a valid mail domain on your DNS server, enter it now. In most cases, you will accept the default.

Table Main Menu Options

Main Menu	Description
LDAP Root password	The root LDAP password for internal LDAP operations.
LDAP Replication password	This is the password used by the LDAP replication user to identify itself to the LDAP master and must be the same as the password on the LDAP master server.
LDAP Postfix password	This is the password used by the postfix user to identify itself to the LDAP server and must be configured on the MTA server to be the same as the password on the LDAP master server.
LDAP Amavis password	This is the password used by the amavis user to identify itself to the LDAP server and must be configured on the MTA server to be the same as the password on the LDAP server.
LDAP Nginx password	This is the password used by the nginx user to identify itself to the LDAP server and must be configured on the MTA server to be the same as the password on the LDAP server.
3) zimbra-store	
Create Admin User	The administrator account is created during installation. This account is the first account provisioned on the Zimbra server and allows you to log on to the administration console.
Admin user to create	The default is admin@[mailhost.example.com].
Admin Password	You must set the admin account password. The password is case sensitive and must be a minimum of six characters. The administrator name, mail address, and password are required to log in to the administration console.
Anti-virus quarantine user	A virus quarantine account is automatically created during installation. When AmivisD identifies an email message with a virus, the email is automatically sent to this mailbox. The virus quarantine mailbox is configured to delete messages older than 7 days.

Table Main Menu Options

Main Menu	Description
Enable automated spam training	By default, the automated spam training filter is enabled and two mail accounts are created. 1. ***Spam Training User*** to receive mail notification about mail that was not marked as junk, but should have been. 2. ***Non-spam (HAM) Training User*** to receive mail notification about mail that was marked as junk, but should not have been. These addresses are automatically configured to work with the spam training filter. The accounts created have a randomly selected name. To recognize what the account is used for, you may want to change this name.
The default port configurations are shown	• **SMTP host** • **Web server HTTP port**: 80 • **Web server HTTPS port**: 443 • **Web server mode** — Can be HTTP, HTTPS, Mixed, Both or Redirect. **Mixed** mode uses HTTPS for logging in and HTTP for normal session traffic **Both** mode means that an HTTP session stays HTTP, including during the login phase, and an HTTPS session remains HTTPS throughout, including the login phase. **Redirect** mode redirects any users connecting via HTTP to an HTTPS connection. All modes use SSL encryption for back-end administrative traffic. • **IMAP server port**: 143 • **IMAP server SSL port**: 993 • **POP server port**: 110 • **POP server SSL port**: 995 • **Use spell checker server**, default **Yes** (if installed) • **Spell server URL**: http://<example.com>:7780/aspell.php

Table Main Menu Options

Main Menu	Description
	• **Configure for use with mail proxy. FALSE** • **Configure for use with web proxy. FALSE** If either or both of these are changed to TRUE, the proxy setting on the mailbox store are enabled in preparation for setting up zimbra proxy. • **Enable version update checks**. ZCS automatically checks to see if a new ZCS update is available. The default is TRUE. • **Enable version update notifications**. This enables automatic notification when updates are available when this is set to TRUE. • **Version update notification email**. This is the email address of the account to be notified when updates are available. The default is to send the notification to the admin's account. • **Version update source email**. This is the email address of the account that sends the email notification. The default is the admin's account. **Note**: The software update information can be viewed from the Administration Console Tools Overview pane. • **License file name** is u**nset** (Network Edition). The license file must be saved to the server in order to add it to ZCS during the install process. Enter the name and location for the Zimbra license file to have the license installed as part of the installation.

Table Main Menu Options

Main Menu	Description
4) zimbra-mta	
	• **MTA Auth host —** This is configured automatically if the MTA authentication server host is on the same server, but must be configured if the authentication server is not on the MTA. • **Enable Spamassassin** — Default is enabled. • **Enable ClamAV** — Default is enabled. • **Notification address for AV alerts** — Sets the notification address for AV alerts. You can either accept the default or create a new address. If you create a new address, remember to provision this address from the admin console. ***Note:*** *If the virus notification address does not exist and your host name is the same as the domain name on the Zimbra server, the virus notifications queue in the Zimbra MTA server cannot be delivered.* • **Bind password for Postfix LDAP user.** Automatically set.This is the password used by the postfix user to identify itself to the LDAP server and must be configured on the MTA server to be the same as the password on the LDAP master server. • **Bind password for Amavis LDAP user**. Automatically set. This is the password used by the amavis user to identify itself to the LDAP server and must be configured on the MTA server to be the same as the password on the LDAP server.
5) zimbra-snmp (optional)	
	• **Enable SNMP notifications** — The default is **Yes**. • **SNMP Trap hostname** • **Enable SMTP notification** — The default is **Yes**. • SMTP Source email address • **SMTP Destination email address**

Table Main Menu Options

Main Menu	Description
6) zimbra-logger	When installed, it is automatically enabled. Logs from the hosts are sent to the mailbox server where zimbra-logger is installed and the information is used to generate the statistics graphs and for message tracing.
7) zimbra-spell	(optional) When installed, it is automatically enabled.
8)zimbra-convertd	The default is to install one zimbra-convertd on each zimbra-store server. But only one zimbra-convertd needs to be present in a deployment depending on size of ZCS environment.
9) Default Class of Service Configuration	This menu section lists major new features for the ZCS release and whether the feature is enabled or not. When you change the feature setting during ZCS installation, you change the default COS settings Having this control, lets you decide when to introduce new features to your users.
10) Enable default backup schedule	For Network Edition only, sets the schedule for Backup session to run as a full backup every Sunday at 1 a.m. and as incremental on the other days at 1 a.m.
c) Collapse menu	Allows you to expand or collapse the menu.
r) Start servers after configuration	When the installation and configuration is complete, if this is set to **Yes**, the Zimbra server is automatically started.
s) Save config to file	At any time during the installation, you can save the configuration to file.
x) Expand menu	Expand menus to see the underlying options
q) Quit	Quit can be used at any time to quit the installation.

Installing Zimbra Software

Important: *Before you begin, make sure to:*

- Store your license in a directory folder on your server as it is needed to complete your installation of ZCS. For more information about licenses, see Zimbra License Requirements for ZCS Network Edition on page 9.
- Confirm you have the latest system requirements and prerequisites for installing ZCS, as described in System Requirements for Zimbra Collaboration Server 7.2 on page 35.

Open an SSH session to the Zimbra server and follow the steps below.

1. Log in as **root** to the Zimbra server and cd to the directory where the Zimbra Collaboration Server archive tar file is saved **(cd /var/<tmp>)**. Type the following commands:

   - **tar xzvf [zcsfullfilename.tgz]**, to unpack the file.
   - **cd [zcsfullfilename]** to change to the correct directory.
   - **./install.sh** to begin the installation.

   The **install.sh** script reviews the installation software to verify that the Zimbra packages are available.

```
[root@mailhost tmp]# tar xzvf zcs.tgz
zcs-NETWORK-7.2.0_GA_3107.UBUNTU10_64.20100916012803/
zcs-NETWORK-7.27.2.0_GA_3107.UBUNTU10_64.20100916012803/packages/
zcs-NETWORK-7.2.0_GA_3107.UBUNTU10_64.20100916012803/packages/zimbra-
apache_7.2.0_GA_3107.UBUNTU10_64_amd64.deb
.
.
zcs-NETWORK-7.2.0_GA_3107.UBUNTU10_64.20101015012627/install.sh
zcs-NETWORK-7.2.0_GA_3107.UBUNTU10_64.20101015012627/README.txt
.
[root@mailhost tmp]# cd zcs-NETWORK-
7.2.0_GA_3107.UBUNTU10_64.20101015012627
[root@mailhost tmp/zcs-NETWORK-
7.2.0_GA_3107.UBUNTU10_64.20101015012627# ./install.sh
.
.
Operations logged to /tmp/install.log.3833
Checking for existing installation...
    zimbra-ldap...NOT FOUND
    zimbra-logger...NOT FOUND
    zimbra-mta...NOT FOUND
    zimbra-snmp...NOT FOUND
    zimbra-store...NOT FOUND
    zimbra-apache...NOT FOUND
    zimbra-spell...NOT FOUND
    zimbra-convertd...NOT FOUND
    zimbra-memcached...NOT FOUND
    zimbra-proxy...NOT FOUND
    zimbra-archiving...NOT FOUND
    zimbra-cluster...NOT FOUND
    zimbra-core...NOT FOUND
```

Screenshots in this guide are examples of the Zimbra installation script. The actual script may be different.

2. The installation process checks to see if Sendmail, Postfix, and MySQL software are running. If any of these applications are running, you are asked to disable them. Disabling MySQL is optional but highly recommended. Sendmail and Postfix must be disabled for the Zimbra Collaboration Server to start correctly.

3. The Zimbra software agreement displays. Read the agreement and when **Do you agree with the terms of the software license agreement? [N] displays**, enter **Y** to continue.

```
ZIMBRA END USER LICENSE AGREEMENT

IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE
SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE BOUND BY
THE TERMS OF THIS END USER LICENSE AGREEMENT (EULA).  IF YOU DO NOT
AGREE TO THE TERMS OF THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR
USE THE SOFTWARE, AND YOU MUST DELETE OR RETURN THE UNUSED SOFTWARE
TO THE VENDOR FROM WHICH YOU ACQUIRED IT WITHIN THIRTY (30) DAYS AND
REQUEST A REFUND OF THE LICENSE FEE, IF ANY, THAT YOU PAID FOR THE
SOFTWARE.

EVALUATION LICENSE.  If You are licensing the Software for evaluation
purposes, your use of the Software is only permitted in a non-
production environment and for the period limited by the Software
License Key. Notwithstanding any other provision in this EULA, an
Evaluation License of the Software is provided AS-IS without support
or warranty of any kind, expressed or implied.

1.  DEFINITIONS
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Additional License Terms

You may create and use for up to the number of Mailbox for which you
have paid the applicable license fees.

For Software licensed on a Subscription basis, You may create and
use for up to the number of Mailbox during the term of the
Subscription.  Upon expiration or termination of a Subscription,
You shall promptly cease use of the Software and product
documentation and destroy (and certify to Zimbra in writing the
fact of such destruction), or return to Zimbra all copies of the
Software and product documentation then in Your possession or
control.

Do you agree with the terms of the software license agreement? [N] y
```

4. Next, the installer checks to see that the prerequisite software is installed. If the prerequisite software packages are not installed, the installation process stops. You must fix the problem and start the installation over. See Other Dependencies in System Requirements for Zimbra Collaboration Server 7.2.

```
Checking for prerequisites...
     FOUND: NPTL
     FOUND: sudo-1.7.2p1-1ubuntu5.2
     FOUND: libidn11-1.15-2
     FOUND: libpcre3-7.8-3build1
     FOUND: libgmp3c2-2:4.3.2+dfsg-1ubuntu1
     FOUND: libexpat1-2.0.1-7ubuntu1
     FOUND: libstdc++6-4.4.3-4ubuntu5
     FOUND: libperl5.10-5.10.1-8ubuntu2
Checking for suggested prerequisites...
    FOUND: perl-5.10.1
    FOUND: sysstat
Prerequisite check complete.
```

5. Select the services to be installed on this server. To install Zimbra Collaboration Server on a single server, enter **Y** for the ldap, logger, mta, snmp, store, and spell packages. If you use IMAP/POP Proxy, enter **Y** for the Zimbra proxy package.

   Note: *For the cross mailbox search feature, install the Zimbra Archive package. To use the archiving and discovery feature, contact Zimbra sales.*

   The installer verifies that there is enough room to install ZCS. If there is not, the installation stops.

```
Checking for installable packages

Found zimbra-core
Found zimbra-ldap
Found zimbra-logger
Found zimbra-mta
Found zimbra-snmp
Found zimbra-store
Found zimbra-apache
Found zimbra-spell
Found zimbra-convertd
Found zimbra-memcached
Found zimbra-proxy
Found zimbra-archiving

Select the packages to install

Install zimbra-ldap [Y]
Install zimbra-logger [Y]
Install zimbra-mta [Y]
Install zimbra-snmp [Y]
Install zimbra-store [Y]
Install zimbra-apache [Y]
Install zimbra-spell [Y]
Install zimbra-convertd [Y]
Install zimbra-memcached [N]
Install zimbra-proxy [N]
Install zimbra-archiving [N]
Checking required space for zimbra-core
checking space for zimbra-store

Installing:
    zimbra-core
    zimbra-ldap
    zimbra-logger
    zimbra-mta
    zimbra-snmp
    zimbra-store
    zimbra-apache
    zimbra-spell
    zimbra-convertd
```

6. Next, type **Y** and press **Enter** to modify the system.
   - Selected packages are installed on the server.
   - Checks to see if MX record is configured in DNS. The installer checks to see if the hostname is resolvable via DNS. If there is an error, the installer asks if you would like to change the hostname. We recommend that the domain name have an MX record configured in DNS.
   - Checks for port conflict.

```
The system will be modified.  Continue? [N] y
Installing packages
    zimbra-core......zimbra-
core_7.2.0_GA_3107.UBUNTU10_64_amd64.deb...done
    zimbra-ldap......zimbra-
ldap_7.2.0_GA_3107.UBUNTU10_64_amd64.deb...done
    zimbra-logger......zimbra-
logger_7.2.0_GA_3107.UBUNTU10_64_amd64.deb...done
    zimbra-mta......zimbra-
mta_7.2.0_GA_3107.UBUNTU10_64_amd64.deb...done
    zimbra-snmp......zimbra-
snmp_7.2.0_GA_3107.UBUNTU10_64_amd64.deb...done
.
.
.
Operations logged to /tmp/zmsetup.09162010-120613.log
Installing LDAP configuration database...done.
Setting defaults...

DNS ERROR - resolving MX records for mailhost.example.com
It is suggested that the domain name have an MX record configured in
DNS
Change domain name? [Yes] n
done.
Checking for port conflicts
```

7. At this point, the **Main menu** displays showing the default entries for the Zimbra component you are installing. To expand the menu to see the configuration values, type **X** and press **Enter**. The Main menu expands to display configuration details for the package being installed. Values that require further configuration are marked with asterisks (****) to their left.

   To navigate the Main menu, select the menu item to change. You can modify any of the defaults. See Table Table, “Main Menu Options,” on page 12, for a description of the Main menu.

   For a quick installation, accepting all the defaults, you only need to do the following:

8. If your time zone is not Pacific time, enter **1** to select **Main menu 1, Common Configuration and then enter 6 for TimeZone**. Set the correct time zone.

```
Main menu
   1) Common Configuration:
        +Hostname:                              mailhost.example.com
        +Ldap master host:                      mailhost.example.com
        +Ldap port:                             389
        +Ldap Admin password:                   set
        +Secure interprocess communications: yes
        +TimeZone:                              America/Los_Angeles
   2) zimbra-ldap:                             Enabled
        +Status                                 Enabled
        +Create Domain:                         yes
        +Domain to create:                      mailhost.example.com
        +Ldap root password:                    set
        +Ldap replication password:             set
        +Ldap postfix password:                 set
        +Ldap amavis password:                  set
        +Ldap nginx password                    set
   3) zimbra-store:                              Enabled
        +Status                                  Enabled
        +Create Admin User:                      yes
        +Admin user to create:                   admin@mailhost.example.com
******* +Admin Password                          UNSET
        +Anti-virus quarantine user:             virus-
quarantine.zodi72xmm6@mailhost.example.com
        +Enable automated spam training:      yes
        +Spam training user           spam.vviwu_izoj@mailhost.example.com
        +Non-spam(Ham) training user: ham.unsbogyzer@mailhost.example.com
        +SMTP host:                              mailhost.example.com
        +Web server HTTP port:                   80
        +Web server HTTPS port:                  443
        +Web server mode:                        http
        +IMAP server port:                       143
        +IMAP server SSL port:                   993
        +POP server port:                        110
        +POP server SSL port:                    995
        +Use spell check server:                 yes
        +Spell server URL:                        http://mailhost.example.com
:7780/aspell.php
        +Configure for use with mail proxy:    FALSE
        +Configure for use with web proxy:     FALSE
        +Enable version update checks:         TRUE
        +Enable version update notifications:  TRUE
        +Version update notification email:    admin@mailhost.example.com
        +Version update source email:          admin@mailhost.example.com
******* +License filename:                       UNSET
   4) zimbra-mta:                                Enabled
   5) zimbra-snmp:                               Enabled
   6) zimbra-logger:                             Enabled
   7) zimbra-spell:                              Enabled
   8) zimbra-convertd:                           Enabled
   9) Default Class of Service Configuration:
  10) Enable default backup schedule:            yes
   c) Collapse menu
   r) Start servers after configuration     yes
   s) Save config to file
   q) Quit
```

9. Type **r** to return to the Main menu.

10. Enter **3** to select **zimbra-store from the Main menu. The Store configuration menu displays.**

11. Select the following from the store configuration menu:

    - Type **4** and type the admin password. The password must be six or more characters. Press **Enter**.
    - Type **<number> for License filename** and type the directory and file name for the Zimbra license. For example, if you saved to the tmp directory, you would type **/tmp/ZCSLicense.xml**. If you do not have the license, you cannot proceed. See Zimbra License Requirements for ZCS Network Edition on page 9.
    - **Enable version update checks** and **Enable version update notifications** are set to TRUE. ZCS automatically checks for the latest ZCS software updates and notifies the account that is configured in **Version update notification email**. You can modify this later from the administration console.

```
Store configuration

   1) Status:                                  Enabled
   2) Create Admin User:                       yes
   3) Admin user to create:                    admin@mailhost.example.com
** 4) Admin Password                          UNSET
   5) Anti-virus quarantine user:              virus-
quarantine.zodi72xmm6@mailhost.example.com
   6) Enable automated spam training:          yes
   7) Spam training user: spam.vviwu_izoj@mailhost.example.com
   8) Non-spam(Ham) training user: ham.unsbogyzer@mailhost.example.com
   9) SMTP host:                               mailhost.example.com
  10) Web server HTTP port:                    80
  11) Web server HTTPS port:                   443
  12) Web server mode:                         http
  13) IMAP server port:                        143
  14) IMAP server SSL port:                    993
  15) POP server port:                         110
  16) POP server SSL port:                     995
  17) Use spell check server:                  yes
  18) Spell server URL:      http://mailhost.example.com :7780/aspell.php
  19) Configure for use with mail proxy:       FALSE
  20) Configure for use with web proxy:        FALSE
  21) Enable version update checks:            TRUE
  22) Enable version update notifications:     TRUE
  23) Version update notification email:       admin@mailhost.example.com
  24) Version update source email:             admin@mailhost.example.com
**25) License filename:                        UNSET

Select, or 'r' for previous menu [r] 4

Password for admin@mailhost.example.com  (min 6 characters): [2LPoBSob]
zimbra
```

12. Type **r** to return to the Main menu.
13. If you want to change the default Class of Service settings for new features that are listed here, type **9 for Default Class of Service Configuration**. Then type the number for the feature to be enabled or disabled. Changes you make here are reflected in the default COS configuration.
14. If no other defaults need to be changed, type **a** to apply the configuration changes. Press **Enter**.

```
*** CONFIGURATION COMPLETE - press 'a' to apply
Select from menu, or press 'a' to apply config (? - help) a
Save configuration data to a file? [Yes] y
Save config in file: [/opt/zimbra/config.6585]
Saving config in /opt/zimbra/config.6585...done.
```

15. When **Save Configuration data to file appears**, type **Yes** and press **Enter**.

```
Save configuration data to a file? [Yes] y
Save config in file: [/opt/zimbra/config.6585]
Saving config in /opt/zimbra/config.6585...done.
```

16. The next request asks where to save the files. To accept the default, press **Enter**. To save the files to another directory, enter the directory and then press **Enter**.

```
Save config in file: [/opt/zimbra/config.6585]
Saving config in /opt/zimbra/config.6585...done.
```

17. When **The system will be modified - continue?** appears, type **Yes** and press **Enter**.

    The server is modified. Installing all the components and configuring the server can take several minutes. Components that are installed include spam training and documents (wiki) accounts, time zone preferences, backup schedules, licenses, as well as common zimlets.

```
The system will be modified - continue? [No] y
Operations logged to /tmp/zmsetup.10152010-084228.log
Setting local config values...done.
Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
.
.
Installing webclient skins...
        hotrod...done.
        lavender...done.
        carbon...done.
        tree...done.
        smoke...done.
.
.
Finished installing webclient skins.
Setting zimbraFeatureIMEnabled=FALSE...done.
Setting zimbraFeatureTasksEnabled=TRUE...done.
.
.
Starting servers...done.
Installing common zimlets...
        com_zimbra_email...done.
        com_zimbra_url...done.
.
.
Finished installing common zimlets.
Installing network zimlets...
        com_zimbra_mobilesync...done.
        com_zimbra_hsm...done.
.
.
Finished installing network zimlets.
Restarting mailboxd...done.
Setting up zimbra crontab...done.

Moving /tmp/zmsetup.09162010-120613.log to /opt/zimbra/log
```

18. When **Configuration complete - press return to exit** displays, press **Enter**.

```
Configuration complete - press return to exit
```

Verify Zimbra Server Operation

When **Configuration complete!** appears, the installation is finished and the server has been started.

To verify that the server is running:

1. Type **su - zimbra**.

2. Type **zmcontrol status**. The services status information is displayed. All services should be running.

```
[zimbra@example ~]$ zmcontrol status
Host example.com
        antispam                Running
        antivirus               Running
        convertd                Running
        ldap                    Running
        logger                  Running
        mailbox                 Running
        mta                     Running
        snmp                    Running
        spell                   Running
        stats                   Running
[zimbra@example ~]$
```

Note: *If services are not running, type* **zmcontrol start**.

See the ZCS Administration Guide, Appendix A: Command-Line Utilities for more **zmcontrol** commands.

The installation is complete and the servers are started. You can start adding accounts.

Installing Zimbra Proxy package

The open source nginx proxy is bundled as part of the zimbra-proxy package, and this package can be installed on ZCS servers or on their own independent servers. When the zimbra-proxy package is installed, the proxy feature is enabled.

The Zimbra Proxy includes the following:

- **Nginx**. A high performance IMAP/POP3 proxy server which handles all incoming POP/IMAP requests.
- **Memcached**. This is a high performance, distributed memory object caching system contained in a separate package called zimbra-memcached. Route information is cached for further use in order to increase performance. There must be at least one memcached server installed for NGINX to function. It is not necessary for nginx and memcached to be on the same system, and you can have multiple nginx installations with only a single memcached installation.
- **Zimbra Proxy Route Lookup Handler**. This is a servlet located on the ZCS mailbox server. This servlet handles queries for the user account route information (the server and port number where the user account resides). When the proxy server is configured, the service ports on backend Zimbra mailbox servers are changed to alternate ports. The proxy

now services the standard ports for these protocols. This change is applied even if the proxy services are run on their own independent hosts, in order to distinguish and avoid confusion between the services.

Installing Archiving Package

The Zimbra-archiving package can be installed and configured on an existing single-server deployment or on a multi-server deployment. The Zimbra archiving and discovery feature includes the ability to archive messages that were delivered to or sent by ZCS, and the ability to search across mailboxes

The prerequisite to enabling archiving and discovery is the installation and configuration of the zimbra-archiving package *on at least one mailbox server*. The installation of this package provides the ZCS discovery (also known as cross mailbox) search tool and sets the attributes that allow archiving to be enabled on the Zimbra MTAs.

To enable archiving and discovery, select the zimbra-store and zimbra-archiving packages during your installation process. The zimbra-core package is installed by default. See the Zimbra Archiving and Discovery chapter in Zimbra Collaboration Server (ZCS) Administrator's Guide for more information about configuring and archiving.

Final Set-Up

After the Zimbra servers are configured, the following functions must be configured.

Important: *Depending on your operating system, the steps below may not be correct. See your operating system documentation for specific information about how to enable syslog.*

- If logger is installed, set up the syslog configuration files to enable server statistics to display on the administration console, and enable the logger monitor host. The server statistics includes information about the message count, message volume, and anti-spam and anti-virus activity.
- ZCS ships a default zimbra user with a disabled password. ZCS requires access to this account via ssh public key authentication. On most operating systems this combination is okay, but if you have modified pam rules to disallow any ssh access to disabled accounts then you must define a password for the zimbra UNIX account. This will allow ssh key authentication for checking remote queues. See the Zimbra wiki article, Mail Queue Monitoring.

Set up the ssh keys. To populate the ssh keys, as Zimbra user (**su-zimbra**). Type **zmupdateauthkeys** and press **Enter**. The key is updated on **/opt/zimbra/.ssh/authorized_keys**.

Enabling Server Statistics Display. In order for the server statistics to display on the administration console, the syslog configuration files must be modified.

1. As root, type **/opt/zimbra/libexec/zmsyslogsetup**. This enables the server to display statistics.
2. You must enable **syslog** to log statistics from remote machines.
   a. Edit the /etc/sysconfig/syslog file, add **-r** to the SYSLOGD_OPTIONS setting, **SYSLOGD_options="-r -m 0"**
   b. Stop the syslog daemon. Type **/etc/init.d/syslog stop**
   c. Start the syslog daemon. Type **/etc/init.d/syslog start**

Note: *On DEBIAN AND UBUNTU, step 2 is as follows*

   a. Edit the /etc/default/syslogd file, add **-r** to the SYSLOGD_OPTIONS setting, **SYSLOGD_options="-r -m 0"**
   b. Stop the syslog daemon. Type **/etc/init.d/sysklogd stop**
   c. Start the syslog daemon. Type **/etc/init.d/sysklogd start**

Provisioning Accounts

Once the mailbox server is running, open your browser, enter the administration console URL and log on to the console to provision email accounts. The administration console URL is entered as:

https://[mailhost.example.com]:7071

Note: *To go to the administration console, you must type **https**, even if you configured the Web server mode as **HTTP**.*

The first time you log on, a warning may be displayed stating the connection is untrusted. This only applies the first time you log in. Click **I understand the Risks** to be able to connect to the Zimbra administration console. Then click **OK**.

Enter the admin user name and password configured during the installation process. Enter the name as admin@mailhost.example.com**.**

To activate ZCS license:

After you log on, a dialog displays stating your license is not activated. Go to **Global Settings>License** and click **Activate License** on the toolbar. Click **OK** to continue.

To provision accounts:

You can configure one account at a time with the New Account Wizard or you can create many accounts at once using the Account Migration Wizard.

Configuring One Account

The administration console New Account Wizard steps you through the account information to be completed.

1. From the administration console Navigation pane, click **Accounts**.

   Note: *Four accounts are listed: admin account, two spam training accounts, and a global Documents account. These accounts do not need any additional configuration.*

2. Click **New**. The first page of the **New Account Wizard** opens.
3. Enter the account name to be used as the email address and the last name. This the only required information to create an account.
4. You can click **Finish** at this point, and the account is configured with the default COS and global features.

   To configure aliases, forwarding addresses, and specific features for this account, proceed through the dialog before you click **Finish**.

When the accounts are provisioned, you can send and receive emails.

Configuring Many Accounts at Once

You can provision multiple accounts at once using the Account Migration tool from the administration console. The wizard guides you through the steps to import accounts from an external directory server, either Active Directory or an LDAP server. The wizard downloads account information from your directory and creates the accounts in ZCS.

Refer to the administration guide to learn more about provisioning accounts.

Importing Content from User Mailboxes

Zimbra developed different applications to facilitate moving a user's email messages, calendars, and contacts from their old email servers to their accounts on the Zimbra server. When the user's files are imported, the folder hierarchy is maintained. Use one of the ZCS utilities to move user mail to ZCS to guarantee that all information is imported correctly.

The following applications can be accessed from the administration console Download page, and instruction guides are available from the Help Desk page or from the Zimbra Website, Documents page.

Alternatively, you can download the following applications from **http://{example.com/downloads}/index.html** (with "example" being your Zimbra server name).

- **Zimbra Migration Wizard for Microsoft Exchange.** Format is an **.exe** file. You can migrate users from Microsoft® Exchange server email accounts to Zimbra server accounts.
- **Zimbra Migration Wizard for IBM Lotus Domino**. Format is an **.exe** file. You can migrate users from Lotus Domino server email accounts to Zimbra server accounts.
- **Zimbra Migration Wizard for Microsoft Outlook.** Format is an **.exe** file. Users download the Import Wizard to their computers and run the executable file to import their Outlook **.pst** files to the Zimbra server. Before users run this utility, Zimbra recommends that they run the Outlook Inbox Repair tool, **scanpst.exe**, on their **.pst** files, to clean up any errors in their file. For more information about this tool, go to http://support.microsoft.com/kb/287497.

Administrators Account

Initial administrative tasks when you log on for the first time may include setting up the admin mailbox to include features, aliases, and forwarding addresses needed for the administrator's working environment.

Two aliases for the admin account are created during install:

- **Postmaster**. The postmaster address is displayed in emails that are automatically generated from Postfix when messages cannot be sent**.** If users reply to this address, the message is forwarded to the admin mailbox.
- **Root**. This address is where notification messages from the operating system are sent.

If you entered a notification address for AV alerts when you configured the MTA, that is different from the default, you need to create that account in the admin console. If you didn't change the default during installation, the anti-virus notification is sent directly to the admin account.

Uninstalling Zimbra Collaboration Server

To uninstall servers, run the **install** script **-u**, delete the ZCS directory, and remove the **zcs.tgz** file on the servers.

1. **cd** to the original install directory for the zcs files.
2. Type **./install.sh -u**
3. When **Completely remove existing installation?** is displayed, type **Yes**

   The Zimbra servers are stopped, the existing packages, the webapp directories, and the **/opt/zimbra** directory are removed
4. Type **rm -rf [zcsfullfilename]** to delete the ZCS directory

5. Delete the **zcs.tgz** file

Additional Information

To learn more about the Zimbra Collaboration Server, read the Administrator's Guide and Help. The Zimbra guides and release notes in .pdf format can be found in the **opt/zimbra/docs** directory and is also available from the administration console Help button and from the Zimbra Website.

- **Administrator's Guide**. This guide describes product architecture, server functionality, administration tasks, configuration options, and backup and restore procedures. The guide is available in pdf format from the administrator's console, and in HTML format on the Zimbra Website.
- **Administrator Help**. The administrator Help provides detailed instructions about how to add and maintain your servers, domains, and user accounts from the admin console.

Support and Contact Information

Visit Zimbra's website to join the community and to be a part of building the best open source messaging solution. We appreciate your feedback and suggestions.

- Contact sales@zimbra.com to purchase the Zimbra Collaboration Server.
- Network Edition customers can contact support at support@zimbra.com.
- Explore the Zimbra Forums for answers to installation or configuration problems.
- Join the Zimbra Community Forums to participate and learn more about the Zimbra Collaboration Server.
- Send an email to feedback@zimbra.com to let us know what you like about the product and what you would like to see in the product. Or, if you prefer, post your ideas to the Zimbra Forums.

If you encounter problems with this software, visit www.zimbra.com and submit a bug report. Make sure you provide enough detail so that the bug can be easily duplicated.

System Requirements for Zimbra Collaboration Server 7.2

This document contains Zimbra Collaboration Server system requirements and available language information for both the Network Edition and the Open Source Edition.

System Requirements

	Requirements
Servers	Evaluation and Testing • Intel/AMD 32-bit or 64-bit CPU 1.5 GHz • 1 GB RAM • 5 GB free disk space for software and logs • Temp file space for installs and upgrades* • Additional disk space for mail storage Production environments • Minimum - 32-bit OS with Intel/AMD 2.0 GHZ+ CPU Recommended - 64-bit OS • Minimum - 2 GB RAM Recommend minimum - 4 GB RAM • Temp file space for installs and upgrades* • 10 GB free disk space for software and logs (SATA or SCSI for performance, and RAID/Mirroring for redundancy) • Additional disk space for mail storage *Temp files space- The zimbra-store requires 5GB for /opt/zimbra, plus additional space for mail storage. The other nodes require 100MB. General Requirements • Firewall Configuration should be set to “No firewall”, and the Security Enhanced Linux (SELinux) should be disabled • RAID-5 is not recommended for installations with more than 100 accounts.

Operating System Network Edition	The following operating systems are supported: • Red Hat® Enterprise Linux®, AS/ES 6 (64-bit) requires RHEL6 6.1 or later. • Red Hat® Enterprise Linux®, AS/ES 5 (32-bit or 64-bit) • Red Hat® Enterprise Linux®, AS/ES 4 (32-bit or 64-bit) **Note**: The 7.x series of ZCS will be the last release supported with RHEL4 (32-bit and 64-bit), and RHEL5 (32-bit and 64-bit). **Note**: ZCS 7.2 will be the last supported release of Zimbra Clustering with RHEL/RHCS and Veritas™ Clustering. Cluster feature with RHCS is only available on RHEL 4 with Update 5 or RHEL 5 with Update 4. • SUSE Linux Enterprise Server 11, SP1 (64-bit) • SUSE Linux Enterprise Server 10 (32-bit or 64-bit) **Note**: Cluster feature is not available on SUSE Linux versions. **Note**: The 7.x series of ZCS will be the last release supported with SLES10 (32-bit and 64-bit). Based on this expectation, we suggest that new SUSE systems use SLES11 SP1 (64-bit). • Ubuntu 10.04 LTS Server Edition (64-bit) • Ubuntu 8.04 LTS Server Edition (32-bit or 64-bit) **Note**: Cluster feature is not available on Ubuntu Linux versions. **Note**: The 7.x series of ZCS will be the last release supported with Ubuntu 8.04 (32-bit and 64-bit). Based on this expectation, we suggest that new Ubuntu systems use Ubuntu 10.04 (64-bit).
Operating System Open Source Edition	In addition to supporting the operating systems listed above for the Network Edition, other operating system versions are available for the Open Source Edition. Check the Zimbra Open Source Downloads page on www.zimbra.com.
File Systems	**ext3** file system for Linux deployments

Other Dependencies	Netcat (nc) is required on all operating systems using ZCS. The nc utility must be installed prior to installation or upgrading. For SUSE, Ubuntu, and Debian systems, disable AppArmor and verify services that are running before installing ZCS. For Red Hat Enterprise, Fedora Core and SUSE operating systems, the server must also have the following installed: • **NPTL**. Native POSIX Thread Library • **Sudo**. Superuser, required to delegate admins. • **libidn**. For internationalizing domain names in applications (IDNA) • **GMP**. GNU Multiple-Precision Library. For Ubuntu 8.04 LTS or Ubuntu 10.04 LTS, and Debian 5: • Sudo • libidn11 • libpcre3 • libexpat1 • libgmp3c2 Note: Ubuntu 8 (64-bit) requires libperl5.8, Debian 5 and Ubuntu 10 (64-bit) require libperl5.10
Miscellaneous	• SSH client software to transfer and install the Zimbra Collaboration Server software. • Valid DNS configured with an A record and MX record • Servers should be configured to run Network Time Protocol (NTP) on a scheduled basis

Administrator Computers
 	
Note: Other configurations may work.
	The following operating system/browser combinations are supported:
	
	Windows 2000, XP, Vista, and Windows 7 with one of the following:
	• Internet Explorer 7 and later
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Mac OS X 10.4, 10.5 or 10.6 with one of the following:
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Linux (Red Hat, Ubuntu, Debian, Fedora, or SUSE) with one of the following:
	• The latest stable release of:
	  • Firefox
	  • Google Chrome

End User Computers using Zimbra Web Client
 	
Note: Other configurations may work.
	Minimum
	• Intel/AMD/Power PC CPU 750MHz
	• 256MB RAM
	
	Recommended
	• Intel/AMD/Power PC CPU 1.5GHz
	• 512MB RAM
	
	For Zimbra Web Client - Advanced version:
	The following operating system/browser combinations for the advanced Zimbra Web Client are supported:
	
	Windows 2000, XP SP 3, Vista SP 2, or Windows 7 with one of the following:
	• Internet Explorer 7 and later
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Mac OS X 10.4, 10.5, or 10.6 with one of the following:
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Linux (Red Hat, Ubuntu, Debian, Fedora, or SUSE) with one of the following:
	• The latest stable release of:
	  • Firefox
	  • Google Chrome

End User Computers using Zimbra Web Client (continued)	**For Zimbra Web Client - Standard version**
	The following operating system/browser combinations for the standard Zimbra Web Client are supported:
	
	Windows 2000, XP SP 3, Vista SP 2, or Windows 7 with one of the following browsers:
	• Internet Explorer 7 and later
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Mac OS X 10.4, 10.5, or 10.6 with one of the following browsers:
	• The latest stable release of:
	  • Firefox
	  • Safari
	  • Google Chrome
	
	Linux (Red Hat, Ubuntu, Debian, Fedora, or SUSE) with one of the following browsers:
	• The latest stable release of:
	  • Firefox
	  • Google Chrome

End User Computers Using Other Clients	Minimum • Intel/AMD/Power PC CPU 750MHz • 256MB RAM Recommended • Intel/AMD/Power PC CPU 1.5GHz • 512MB RAM Operating system POP/IMAP combinations • Windows XP SP 3, Vista SP 2, Windows 7 with Outlook Express 6, Outlook 2003, (MAPI), Thunderbird • Fedora Core 4 or later with Thunderbird • Mac OS X 10.4 or later with Apple Mail **Accessibility and Screen Readers** Zimbra recommends that customers requiring use of screen readers for accessibility leverage the use of the Standard Zimbra Web Client (HTML). Zimbra continues to invest in improving the accessibility of this interface.
	**Recommendation - If users are presently using IE 6, Zimbra strongly recommends that they upgrade to the latest version of Internet Explorer for optimal performance with ZWC.
Mobile OS support for Zimbra MobileSync	The following are Mobile OS support for Zimbra MobileSync: • iOS 4.0 and later • Android 2.0 and later • Windows Mobile 6.0 and later
Monitor	Display minimum resolution 1024 x 768
Internet Connection Speed	128 kbps or higher

Zimbra Connector for Outlook for Network Edition only

Zimbra Connector for Outlook requires one of the following:

- Microsoft Outlook 2003 SP3 or later
- Microsoft Outlook 2007 SP2 or later
- Microsoft Outlook 2010 (32-bit or 64-bit)

Zimbra Mobile for Network Edition only

Zimbra Mobile (MobileSync) provides mobile data access to email, calendar, and contacts for users of selected mobile operating system support, including:

Smartphone Operating Systems:

- iOS 4.0 and later
- Android 2.0 and later
- Windows Mobile 6.0 and later

Non-Smartphone Operating Systems:

- Various device/operating system combinations with mobile WAP browser.

See the Zimbra web site http://www.zimbra.com/products/zimbra_mobile.html for more information.

Zimbra Connector for BlackBerry Enterprise Server for Network Edition only

Zimbra Connector for BlackBerry Enterprise Server (ZCB) provides seamless, real-time synchronization of Zimbra user mailbox data to BlackBerry devices. See the Zimbra web site http://www.zimbra.com/products/blackberry-enterprise-server.html for more information.

Available Languages

This section includes information about available languages, including End User Translations and Administrator Translations.

End User Translations

Component	Category	Languages
Zimbra Web Client	Application/UI	Arabic, Chinese (Simplified PRC and Traditional HK), Danish, Dutch, English (AU, UK, US), French, German, Hindi, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
Zimbra Web Client - Online Help (HTML)	Feature Documentation	Chinese (Simplified PRC and Traditional HK), Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Russian, Spanish
Zimbra Web Client - End User Guide (PDF)	Feature Documentation	English
Zimbra Connector for Microsoft Outlook	Installer + Application/UI	Arabic, Chinese (Simplified PRC and Traditional HK), Danish, Dutch, English (AU, UK, US), French, German, Hindi, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
Zimbra Connector for Microsoft Outlook - End User Guide (PDF)	Feature Documentation	English

Administrator Translations

Component	Category	Languages
Zimbra Admin Console	Application	Arabic, Chinese (Simplified PRC and Traditional HK), Danish, Dutch, English (AU, UK, US), French, German, Hindi, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian
Zimbra Admin Console Online Help (HTML)	Feature Documentation	English
"Documentation" *Install + Upgrade / Admin Manual / Migration / Import / Release Notes / System Requirements*	Guides	English
Zimbra Connector for Microsoft Outlook - Admin Guide (PDF)	Install + Configuration Guide	English

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