
Zimbra™ Collaboration Suite Single Server Installation Network Edition

The Zimbra Collaboration Suite 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 Suite 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 Suite 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.

This guide includes the following sections:

- 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 Suite is designed to be the only application suite installed on the server. The Zimbra Collaboration Suite 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 Suite server. You cannot install ZCS without a license. See “Zimbra License Requirements for ZCS Network Edition” on page 9.

Table 1 shows the default port settings when the Zimbra Collaboration Suite is installed.

Table 1 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 Suite, 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 [System Requirements for Zimbra Collaboration Suite 6.0](#)

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

Configuration modifications for two of the most frequently used operating systems, Red Hat Enterprise Linux and Fedora, are described in this guide. The SUSE configuration would be similar to those described for the Red Hat Enterprise Linux. The Mac OS requires no additional modifications.

Other operating systems may require similar modifications, use this information as a reference to gauge whether your operating system may need to be modified. Also, search the [Zimbra Forums](#) and [Zimbra Wiki](#).

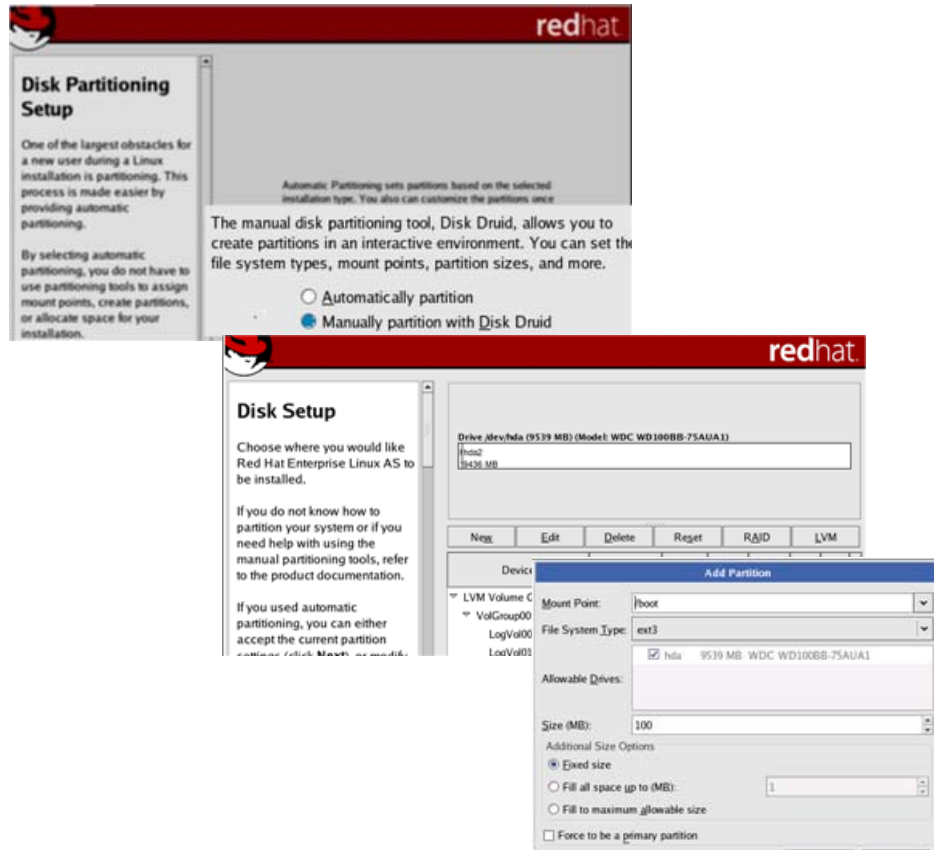
Important: Zimbra recommends that the operating systems you use are updated with the latest patches that have been tested with ZCS. See the latest release notes to see the operating systems patch list that has been tested with ZCS.

Installation Modifications for Red Hat® Enterprise Linux®

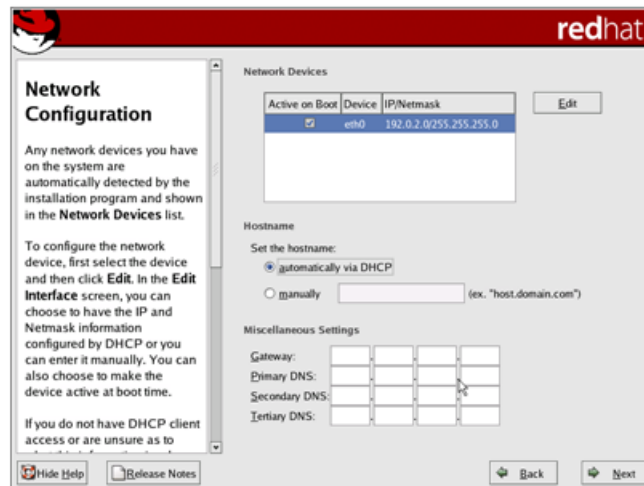
The Zimbra Collaboration Suite runs on the Red Hat Enterprise Linux, version 4 operating system or later. When you install the Red Hat software for the Zimbra Collaboration Suite, except for the Disk Partition Setup, the Network Configuration, the Gateway and Primary DNS addresses, the Edit Interface, and the Firewall Configuration, accept the default setup answers. Details of what should be modified in these categories are listed below. Refer to the Red Hat Enterprise Linux installation guide for detailed documentation about installing their software.

Important:

- **Disk Partitioning Setup.** Check **Manually partition with DiskDruid**. The disk partition should be set up as follows:
 - The **Mount Point/RAID Volume** size for the **Boot** partition (/) should be 100 MB.
 - The **Swap** partition should be set to twice the size of the RAM on your machine.
 - The **Root** partition (/) should be set with the remaining disk space size.

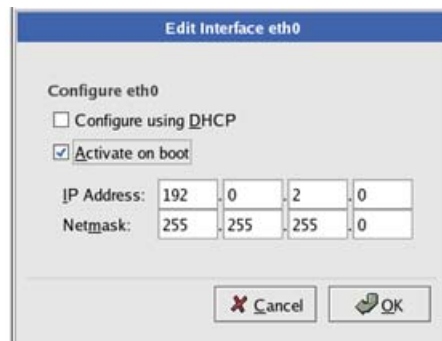


- **Network Configuration>Network Devices>Hostname** should be configured manually with the fully qualified hostname [*mailhost.example.com*] of the Zimbra server.



- Enter the **Gateway** and **Primary DNS** addresses.

- In the **Edit Interface** pop-up screen, check **Activate on Boot**. Enter the **IP Address** and **Netmask** of the device. This allows the interface to start when you boot.



- **Firewall Configuration** should be set to **No firewall**, and the **Security Enhanced Linux (SELinux)** should be disabled.

Important: You will need to disable Sendmail in order to run the Zimbra Collaboration Suite. You can disable the Sendmail service with these commands: `chkconfig sendmail off, service sendmail stop.`

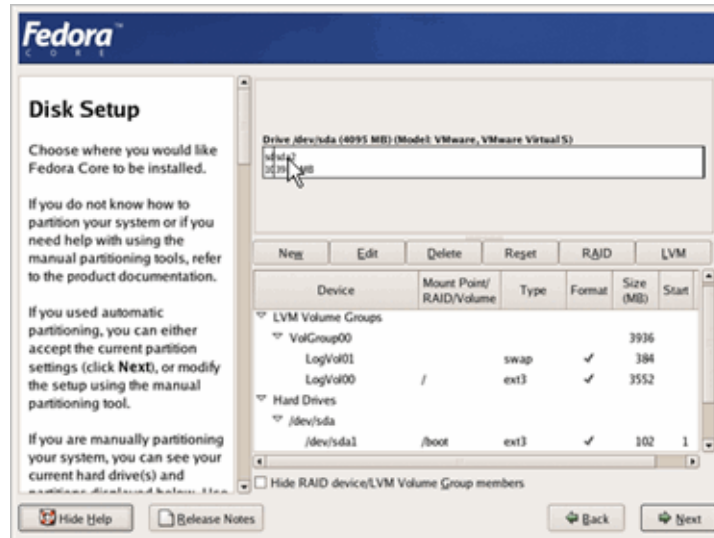
Important: Make sure that FQDN entry in `/etc/hosts` appears before the hostnames. If this is missing, the creation of the Zimbra certificate fails. The FQDN entry should look like this example. See `zmcreatecert` in the [Administrator's Guide](#), Appendix A: Command-Line Utilities.

```
127.0.0.1          localhost.localdomain localhost
your.ip.address   FQDN yourhostname
```

Installation Modifications for Fedora™

The Zimbra Collaboration Suite runs on the Fedora, Core 4 operating system. When you install the Fedora software for the Zimbra Collaboration Suite, except for the Disk Partition Setup, the Network Configuration, the Gateway and Primary DNS addresses, the Edit Interface, and the Firewall Configuration, accept the default setup answers. Details of what should be modified in these categories are listed below. Refer to the Fedora installation guide for detailed documentation about installing their software.

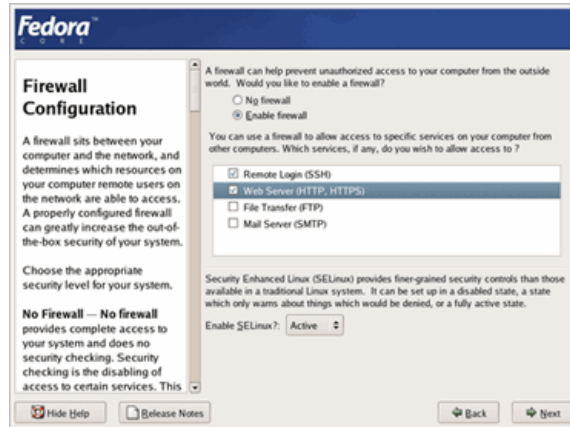
- **Disk Partitioning Setup.** Check **Manually partition with DiskDruid**. The disk partition should be set up as follows:
 - The **Mount Point/RAID Volume** size for the **Boot** partition (`/`) should be 100 MB.
 - The **Swap** partition should be set to twice the size of the RAM on your machine.
 - The **Root** partition (`/`) should be set with the remaining disk space size.



- **Network Configuration>Network Devices>Hostname** should be configured manually with the hostname name [*mailhost.example.com*] of the Zimbra server.



- Enter the **Gateway** and **Primary DNS** addresses.
- In the **Edit Interface** pop-up screen, check **Activate on Boot**. Enter the **IP Address** and **Netmask** of the device. This allows the interface to start when you boot.
- **Firewall Configuration** should be set to **No firewall**, and the **Security Enhanced Linux (SELinux)** should be disabled.



Important: The following should also be considered before you install the Zimbra Collaboration Suite:

- You must disable Sendmail in order to run the Zimbra Collaboration Suite application. The Sendmail command to stop the service is `/etc/init.d/sendmail stop`. To disable, enter `chkconfig sendmail off`. The Postfix command to stop the service is `/etc/init.d/postfix stop`. To disable, enter `chkconfig postfix stop`.
- Make sure that FQDN entry in `/etc/hosts` appears before the hostnames. If this is missing, the creation of the Zimbra certificate fails. The FQDN entry should look like this example.

```
127.0.0.1          localhost.localdomain localhost
your.ip.address   FQDN yourhostname
```

Installation Modifications for Mac OS® Servers

No modifications are required for Mac OS servers, but Java 1.5 must be set as the default Java.

To set Java 1.5 as the default, follow these steps:

1. `su - root`
2. `cd /System/Library/Frameworks/JavaVM.Framework/Versions`
3. `rm CurrentJDK`
4. `ln -s 1.5.0 CurrentJDK`

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 MTA** installs the Postfix open source MTA, the Clam AntiVirus antivirus engine, the SpamAssassin junk mail filter, and the Amavisd-New content filter.
- **Zimbra Store** installs the mailbox server, including Jetty, the servlet container for the Zimbra server.
- **Zimbra Spell** installs the Aspell open source spelling checker.
- **Zimbra Apache** is installed automatically when Zimbra Spell or Zimbra ConvertD is installed.
- **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.
- **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 captured, and the server statistics section of the administration console does not display.
- **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 Proxy** installs the proxy feature which can be configured for POP and IMAP proxy and for reverse proxy HTTP requests.

- **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 Suite archive file to the computer from which you will install the software.

Zimbra License Requirements for ZCS Network Edition

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

A trial license and a regular license are available:

- **Trial.** You can obtain the trial license from the Zimbra license portal for free. The trial license allows you to create up to 50 users. It expires in 60 days.
- **Regular.** You must purchase the Zimbra Regular license. This license is valid for a specific Zimbra Collaboration Suite system and is encrypted with the number of Zimbra accounts (seats) you have purchased, the effective date, and expiration date of the regular license.

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

The regular license can only be installed on the ZCS system for which it is purchased. Only one Zimbra license is required for your Zimbra Collaboration Suite 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.

Note: 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.

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 2 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.
Require secure interprocess communications	By default, startTLS is YES . When startTLS is enabled, there is a secure communication between amavis and postfix and the LDAP server. If this is disabled, ZCS disables the use of startTLS with the LDAP server.
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	
Create Domain	You can create one domain during installation and additional domains can be created from the administration console.

Table 2 Main Menu Options

Main Menu	Description
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.
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.

Table 2 Main Menu Options

Main Menu	Description
Enable automated spam training	<p>By default, the automated spam training filter is enabled and two mail accounts are created.</p> <ol style="list-style-type: none"> 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. <p>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.</p>
Global Documents Account	<p>The Global Documents account is automatically created when ZCS is installed. The Global Documents account holds the templates and the default Documents Notebook. The Documents feature is enabled for the COS or for individual accounts</p>
The default port configurations are shown	<ul style="list-style-type: none"> • SMTP host • Web server HTTP port: 80 • Web server HTTPS port: 443 • Web server mode — Can be HTTP, HTTPS, Mixed, Both or Redirect. <ul style="list-style-type: none"> 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. <p>All modes use SSL encryption for back-end administrative traffic.</p> <ul style="list-style-type: none"> • 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 2 Main Menu Options

Main Menu	Description
License file name	Unset (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.
	<ul style="list-style-type: none">• 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. <p>Note: The software update information can be viewed from the Administration Console Tools Overview pane.</p>

Table 2 Main Menu Options

Main Menu	Description
5) zimbra-mta	<ul style="list-style-type: none"> • 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. <p><i>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.</i></p> <ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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
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.

Table 2 Main Menu Options

Main Menu	Description
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.
o) 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

For servers other than Mac servers, open an SSH session to the Zimbra server and follow the steps below.

For Macs, see “Installing Zimbra Software on a Mac Server” on page 20.

1. Log in as `root` to the Zimbra server and `cd` to the directory where the Zimbra Collaboration Suite 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@infodev]# tar xzvf zcs.tgz
zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800/
zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800/packages/
zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800/packages/zimbra-
apache-6.0.0_xx_5639.RHEL4.20090520025800.i386.rpm
.
.
zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800/util/addUser.sh
[root@infodev]# cd zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800/
[root@infodev zcs-NETWORK-6.0.0_xx_5639.RHEL4.20090520025800]# ./
install.sh
```

```
Operations logged to /tmp/install.log.14405
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-memcached...NOT FOUND
zimbra-proxy...NOT FOUND
zimbra-archiving...NOT FOUND
zimbra-convertd...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 Suite to start correctly.
3. The Zimbra software agreement is displayed. Read the agreement and when **Do you agree with the terms of the software license agreement displays**, enter **Y** to continue.

VMWARE 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.

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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 VMware in writing the fact of such destruction), or return to VMware 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]

Checking for prerequisites...

FOUND: NPTL

FOUND: sudo-1.6.7p5-30.1.3

FOUND: libidn-0.5.6-1

FOUND: gmp-4.1.4-3

FOUND: compat-libstdc++-296-2.96-132.7.2

FOUND: compat-libstdc++-33-3.2.3-47.3

FOUND: libtool-libs-1.5.6-4

FOUND: /usr/lib/libstdc++.so.5

Checking for suggested prerequisites...

FOUND: perl-5.8.5

Prerequisite check complete.

Checking for installable packages

4. Next, the installer checks to see that the prerequisite software is installed. If the prerequisite software packages are not installed, the install process stops. You must fix the problem and start the installation over. See Other Dependencies in System Requirements for Zimbra Collaboration Suite 6.0
5. Select the services to be installed on this server. To install Zimbra Collaboration Suite 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.

6. 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.

```
Select the packages to install

Install zimbra-ldap [Y] Y
Install zimbra-logger [Y] Y
Install zimbra-mta [Y] Y
Install zimbra-snmp [Y] Y
Install zimbra-store [Y] Y
Install zimbra-apache {Y}Y
Install zimbra-spell [Y] Y
Install zimbra-memcached [N] N
Install zimbra-proxy [N] N
Install zimbra-archiving [N] N
Install zimbra-convertd [Y] Y

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

The system will be modified. Continue? [N] Y
```

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

```
Main menu

1) Common Configuration:
   +Hostname:                               mailhost.example.com
   +Ldap master host:                       mailhost.example.com
   +Ldap port:                              389
   +Ldap Admin password:                   set
   +Require secure interprocess communications:yes
   +TimeZone:                              America/Los_Angeles

2) zimbra-ldap:                            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
   +Create Admin User:                     yes
   +Admin user to create:                  admin@mailhost.example.com
   +Admin Password                         set
   +Enable automated spam training:        yes
   +Spam training user:                    spam.rstn2r@mailhost.example.com
   +Non-spam(Ham) training user:          ham.bvjxlw@mailhost.example.com
   +Global Documents Account:              wiki@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
   +Enable version update checks:          TRUE
   +Configure store for use with reverse mail proxy: FALSE
   +Configure store for use with reverse web proxy: FALSE
   +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
r) Start servers after configuration        yes
s) Save config to file
x) Expand menu
q) Quit
```

To navigate the Main menu, select the menu item to change. You can modify any of the defaults. See Table 2, “Main Menu Options,” on page 9, 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 **5** for **TimeZone**. Set the correct time zone.
9. Enter **3** to select **zimbra-store** from the main menu.

```

Store configuration

  1) Status:                               Enabled
  2) Create Admin User:                     yes
  3) Admin user to create:                  admin@mailhost.example.com
** 4) Admin Password                        UNSET
  5) Enable automated spam training:       yes
  6) Spam training user:                   spam@mailhost.example.com
  7) Non-spam(Ham) training user:         ham@mailhost.example.com
  8) Global Documents Account:             wiki@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  Enable version update checks:         TRUE
 20  Enable version update notifications:   TRUE
 21  Version update notification email:     admin@example.com
 22  Version update source email:          admin@example.com
 23  Configure store for use with reverse mail proxy: FALSE
 24  Configure store for use with reverse web proxy: FALSE
**25) License filename:                    UNSET

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

```

10. 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 the **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.

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

12.If you want to change the default Class of Service settings for new features that are listed here, type **8 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.

```
*** 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.20644]
Saving config in /opt/zimbra/config.20644...done.
The system will be modified - continue? [No] y

Setting zimbraFeatureIMEnabled=FALSE...done.
Setting zimbraFeatureTasksEnabled=TRUE...done.
.
.
.

Installing common zimlets...
  com_zimbra_bulkprovision...done.
  com_zimbra_date...done.
  com_zimbra_email...done.
  com_zimbra_cert_manager...done.
  com_zimbra_url...done.
  com_zimbra_local...done.
  com_zimbra_ymemoticons...done.
  com_zimbra_phone...done.
.
.
.
Moving /tmp/zmsetup.10222008-134611.log to /opt/zimbra/log

Configuration complete - press return to exit
```

13.If no other defaults need to be changed, type **a** to apply the configuration changes. Press **Enter**.

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

15.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**.

16.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

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

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 [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 Software on a Mac Server

1. Click on the dmg file to open the file and then click **ZCS.mpkg** to open the Zimbra install package. The Apple installer opens and verifies that the server is ready to install the Zimbra Collaboration Suite. Click **Continue**.
2. The welcome screen appears, click **Continue**.
3. The Zimbra Software License Agreement is displayed. Read the agreement and click **Continue**. A popup screen appears asking that to continue the install you must accept the terms of the license agreement. Click **Agree**.

4. Select the destination volume to install the software. Click **Continue**.
5. The **Easy Install** dialog displays. Select the services to be installed on this server. To install all service packages on a single server, click **Install**.

To select which services to install, click **Customize**. Deselect those packages you do not want installed. See “Overview of Installation Process” on page 8 for information about the packages. Click **Install** to proceed.

A progress bar shows the Zimbra packages being installed. When **The software was successfully installed** dialog displays, click **Close**.
6. Open the Apple Terminal and log on as **root**. Type `sudo /bin/bash`. Enter your root password, if asked.
7. To install the Zimbra license file during the ZCS install, copy the `ZCSLicense.xml` file to `/opt/zimbra/conf`.
8. Type `cd /opt/zimbra/libexec`
9. Type `ls` to see the packages in the directory.
10. Type `./zmsetup.pl`. This starts the ZCS configuration. A temporary log file is created and the server port configurations are checked for conflicts. 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 Suite to start correctly.
11. If no conflicts are found, the Main menu displays 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 (*******).
12. Go to [Step 6](#) on page [15](#) to continue the installation steps.

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.

Final Set-Up

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

- 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 `zmpupdateauthkeys` 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/bin/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/zimbraAdmin`

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 certificate authority (CA) alert may be displayed. Click **Accept this certificate permanently** to accept the certificate and be able 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 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 Bulk Provisioning 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 up to 500 accounts on once using the Bulk Account Wizard from the administration console. The wizard takes you through the steps to upload a .csv file with the account information and then provisions the user accounts. These accounts are configured with a user name, display name and password (optional). The accounts are automatically assigned the domain default COS. See the ZCS Administration Guide for more information.

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.

- **ZCS Migration Wizard for Exchange.** Format is an .exe file. You can migrate users from Microsoft® Exchange server email accounts to Zimbra server accounts.
- **ZCS Migration Wizard for Lotus® Domino®.** Format is an .exe file. You can migrate users from Lotus Domino server email accounts to Zimbra server accounts.
- **Zimbra Collaboration Suite Import Wizard for 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>.

Administrator's 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 didn't change the default during installation, the anti-virus notification is sent directly to the admin account.

Uninstalling Zimbra Collaboration Suite

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 Suite, 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 www.zimbra.com 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 Suite.
- 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 Suite.

- 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.

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ZCS 6.0 September 2009

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System Requirements for Zimbra Collaboration Suite 6.0

Zimbra Collaboration Suite system requirements for both the Network Edition and the Open Source Edition.

	Requirements
Servers	<p>Evaluation and Testing</p> <ul style="list-style-type: none">• 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 <p>Production environments</p> <ul style="list-style-type: none">• 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 <p>*Temp files space- The zimbra-store requires 5GB for /opt/zimbra, plus additional space for mail storage. The other nodes require 100MB.</p> <p>General Requirements</p> <ul style="list-style-type: none">• 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.

<p>Mac Server</p>	<p>Evaluation and Testing</p> <ul style="list-style-type: none"> • Intel Core Solo, or Intel Core Duo* • 1 GB RAM • 5 GB free disk space for software and logs • Additional disk space for mail storage
<p>Mac Server</p>	<p>Production environments</p> <ul style="list-style-type: none"> • Intel Core Solo, or Intel Core Duo* • Minimum - 2 GB RAM Recommend - 4 GB • 10 GB free disk space for software and logs • Additional disk space for mail storage <p>*There are known issues using ZCS on Macs with the Intel Core Duo. See the Release Note.</p>
<p>Operating System Network Edition</p>	<ul style="list-style-type: none"> • Red Hat® Enterprise Linux®, AS/ES 5 • Red Hat® Enterprise Linux®, AS/ES 4 (32-bit, 64-bit) <p>Note: We expect that the 6.0.x series of ZCS will be the last release supported on RHEL4. Based on this expectation, we suggest that new RHEL systems use RHEL5.</p> <ul style="list-style-type: none"> • Mac OS x 10.5 or later (Intel) • Mac OS® X 10.4.7 or later <p>Cluster feature is not available on Mac OS X versions.</p> <p>Note: We expect that the 6.0.x series of ZCS will be the last release supported with Mac OS X 10.4.x.</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 11 (64-bit only) • SUSE Linux Enterprise Server 10 (64-bit, 32-bit) <p>Cluster feature is not available on SUSE Linux versions.</p> <p>Note: We expect that the 6.0.x series of ZCS will be the last release supported with SUSE ES 10.</p> <ul style="list-style-type: none"> • Ubuntu 8.04 LTS Server Edition • Ubuntu 8.04 LTS Server Edition (64-bit, 32-bit) • Ubuntu 6.06.1 LTS Server Edition (64-bit, 32-bit) <p>Cluster feature is not available on Ubuntu Linux versions.</p> <p>Note: We expect that the 6.0.x series of ZCS will be the last release supported with Ubuntu 6.0.6.1 LTS.</p>

Operating System Open Source Edition	In addition to supporting the operating systems listed above for the Network Edition, other OS 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	<p>For Red Hat Enterprise, Fedora Core and SuSE operating systems, the server must also have the following installed:</p> <ul style="list-style-type: none"> • NPTL. Native POSIX Thread Library • Sudo. Superuser, required to delegate admins. • libidn. For internationalizing domain names in applications (IDNA) • GMP. GNU Multiple-Precision Library. • compat-libstdc ++-33. Compatibility Standard C++ libraries. For RHEL servers only <p>For SLES 10 - compat-libstdc++-5.0.7 For SLES11 - libstdc++33 For Ubuntu 6.06 or 8.04</p> <ul style="list-style-type: none"> • Sudo • libidn11 • libpcre3 • libexp11 • libstd++6 • libstd++5 • libgmp3C2 <p>Ubuntu 6 64-bit and Ubuntu 8 64-bit require libperl5.8.</p>
	For Mac servers, Java 1.5 must be installed as the default Java.
Miscellaneous	<ul style="list-style-type: none"> • SSH client software to transfer and install the Zimbra Collaboration Suite 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 *These OS configurations have been tested and are known to work. Other configurations may work.	<ul style="list-style-type: none"> • Windows XP with either Internet Explorer 7.0 or Firefox 3.0 • Macintosh OS X 10.4 or later with Firefox 3.0 or later

<p>End User Computers using Zimbra Web Client</p> <p>These OS configurations have been tested and are known to work. Other configurations may work.</p>	<p>Minimum</p> <ul style="list-style-type: none"> • Intel/AMD/Power PC CPU 750MHz • 256MB RAM <p>Recommended</p> <ul style="list-style-type: none"> • Intel/AMD/Power PC CPU 1.5GHz • 512MB RAM <p>Operating system/ browser combination advanced ZWC:</p> <ul style="list-style-type: none"> • Windows XP SP 3, Vista SP 2, Windows 7 with one of these browsers: Internet Explorer 8, 7 and 6.0** SP 2 or Firefox 3.0 or later and 3.5 Fedora Core 4 with Firefox 3.0 or later. • Mac OS X 10.4 or later with Firefox 3.0 or Safari 4 <p>Other browsers: Chrome</p> <p>Browsers available for use with standard ZWC:</p> <p>Firefox 3.5, 3.0, 2.0 IE 8, 7, 6 SP2** Safari 4, 3, 2 Chrome</p>
<p>End User Computers Using Other Clients</p>	<p>Minimum</p> <ul style="list-style-type: none"> • Intel/AMD/Power PC CPU 750MHz • 256MB RAM <p>Recommended</p> <ul style="list-style-type: none"> • Intel/AMD/Power PC CPU 1.5GHz • 512MB RAM <p>Operating system POP/IMAP combinations</p> <ul style="list-style-type: none"> • 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 <p>Accessibility and Screen Readers</p> <p>Zimbra recommends that customers requiring use of screen readers for accessibility leverage the use of the Standard Zimbra Web Client (HTML).</p> <p>Zimbra continues to invest in improving the accessibility of this interface. The latest updates can be found at http://bugzilla.zimbra.com/show_bug.cgi?id=28516</p>

	**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.
Monitor	Display minimum resolution 1024 x 768
Internet Connection Speed	128 kbps or higher

Zimbra Mobile for Network Edition only

Zimbra Mobile provides mobile data access to email, calendar, and contacts for users of selected mobile phones.

- iPhone and iPod Touch.
- Windows Mobile 5 and 6 devices.
- Many other compliant devices

See the Zimbra web site, ZCS Mobility, http://www.zimbra.com/products/zimbra_mobile.html.

Zimbra™ Mobile Connector for BlackBerry® Enterprise Server Small Business Edition is a plug-in that enables synchronization of mail, address books (including GAL), calendars, and tasks between ZCS and a BlackBerry Enterprise Server (BES) for Microsoft® Exchange, using MAPI.

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