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# Zimbra™ Collaboration Suite Installation Quick Start

for Red Hat Enterprise Linux OS and Fedora Core 3 OS

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The Zimbra Collaboration Suite includes the Zimbra MTA, the Zimbra LDAP server, and the Zimbra mailbox server. During the installation process all components are installed and require no additional manual configuration.

This quick start guide assumes that all components will be installed on one server and 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 quick start guide includes the following sections:

- Installation Prerequisites
- Overview of Installation Process
- Basic Configuration
- Installing Zimbra Software
- Provisioning Accounts
- Support and Contact Information

## Important Notice About Quick Start 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 Tomcat, 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.

The following default ports are set.

**Table 1 Zimbra Port Mapping**

|                 | Port |
|-----------------|------|
| Postfix         | 25   |
| HTTP            | 80   |
| POP3            | 110  |
| IMAP            | 143  |
| LDAP            | 389  |
| HTTPS           | 443  |
| Tomcat IMAP SSL | 993  |
| Tomcat POP SSL  | 995  |
| Tomcat LMTP     | 7025 |

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.

## 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 the Red Hat® Enterprise, Linux® operating system.

## System Requirements

| Requirements     |  |
|------------------|--|
| Servers          | <p><b>Testing purposes only</b></p> <ul style="list-style-type: none"><li>• Intel/AMD CPU</li><li>• 512 MB RAM</li><li>• 3 GB free disk space for software</li><li>• Additional disk space for mail storage</li></ul> <p><b>Zimbra live environment</b></p> <p>Minimum server requirements</p> <ul style="list-style-type: none"><li>• Intel/AMD CPU 1.5 GHz</li><li>• 1 GB RAM</li><li>• 5 GB free disk space for software and logs</li><li>• Additional disk space for mail storage</li></ul> <p>Recommended server requirements</p> <ul style="list-style-type: none"><li>• Intel/AMD CPU 2.0GHZ+</li><li>• 2 GB RAM</li><li>• 10 GB free disk space for software and logs (SATA or SCSI for performance, and RAID/Mirroring for redundancy)</li><li>• Additional disk space for mail storage</li></ul> |
| Operating System | <p>Either</p> <ul style="list-style-type: none"><li>• Red Hat Enterprise Linux, Version 4, Update 2</li></ul> <p>or</p> <ul style="list-style-type: none"><li>• Fedora Core 3</li></ul> <p>The operating system must be configured as described in this guide. See the appropriate section in this guide.</p>  |

|                    |   |
|--------------------|---|
| Other Applications | <p>The server must also have the following installed:</p> <ul style="list-style-type: none"><li>• <b>libidn</b>. For internationalizing domain names in applications (IDNA)</li><li>• <b>cURL</b>. A command line tool for transferring files with URL syntax</li><li>• <b>fetchmail</b>. A remote-mail retrieval and forwarding utility used for on-demand TCIP/IP links.</li><li>• <b>GMP</b>. GNU Multiple-Precision Library.</li></ul>  |
| Miscellaneous      | <ul style="list-style-type: none"><li>• SSH client software to transfer and install the Zimbra Collaboration Suite software. See <b>Note</b> below.</li><li>• Access to DNS server</li><li>• Computer with either Mozilla Firefox 1.0 or later or Internet Explorer 6.0 or later</li></ul>  |
| Client computer    | <p>Minimum</p> <ul style="list-style-type: none"><li>• Intel/AMD/Power PC CPU 1.0GHz</li><li>• 512MB RAM</li><li>• Firefox 1.0 or later or Internet Explorer 6.0 or later</li><li>• OS - Microsoft Windows 2000 or Windows XP, Linux, MacOS</li></ul> <p>Recommended</p> <ul style="list-style-type: none"><li>• Intel/AMD/Power PC CPU 1.5GHz</li><li>• 512MB RAM</li><li>• Firefox 1.0 or later or Internet Explorer 6.0 or later</li><li>• OS - Microsoft Windows 2000 or Windows XP, Linux, MacOS</li></ul> |

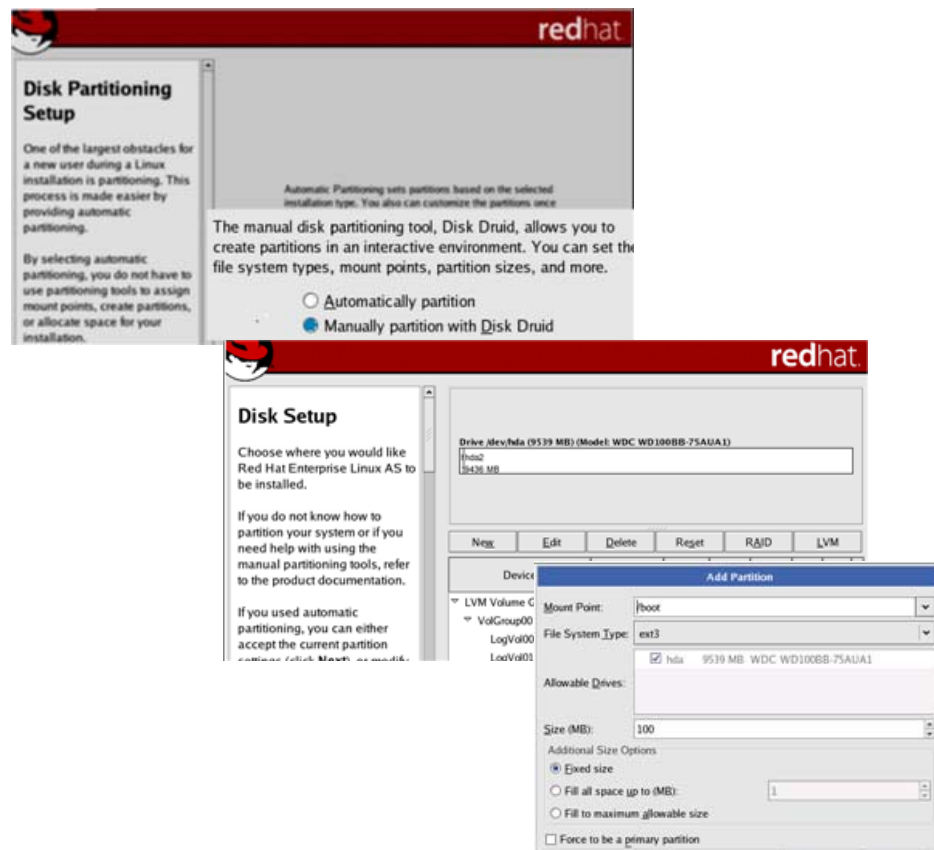
**Note:** To find SSH client software, go to <http://www.download.com/> and search for SSH. The list displays software that can be purchased or downloaded for free. An example of a free SSH client software is PuTTY, a software implementation of SSH for Win32 and Unix platforms. To download a copy go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

### Installation Modifications for Red Hat Enterprise Linux

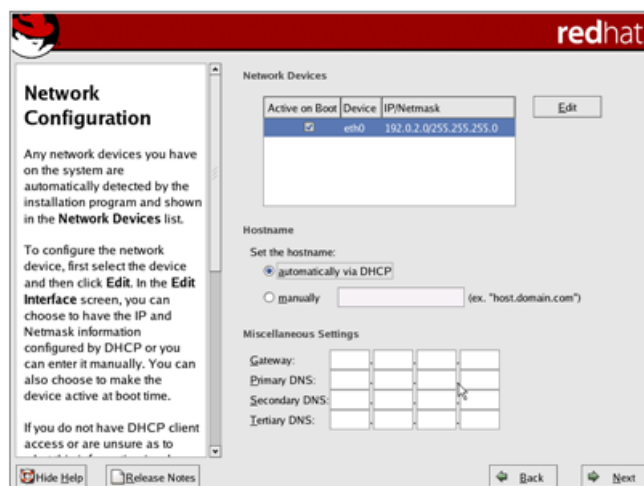
The Zimbra Collaboration Suite runs on the Red Hat Enterprise Linux, version 4, Update 2 operating system. When you install the Red Hat software for the Zimbra Collaboration Suite, accept the default setup answers, except for the

following steps. Refer to the Red Hat Enterprise Linux installation guide for detailed documentation about installing their software.

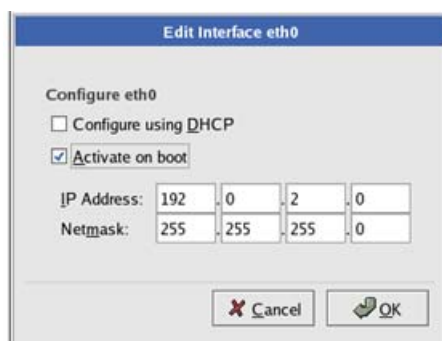
- **Disk Partitioning Setup.** Check **Manually partition with DiskDruid**. The disk partition should be set up as follows:
  - The **Mount Point/RAID Volume** size for the **/boot** partition should be 100 MB.
  - The **Swap** partition should be set to twice the size of the RAM on your machine.
  -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



- **Network Configuration>Network Devices>Hostname** should be configured manually with the 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.



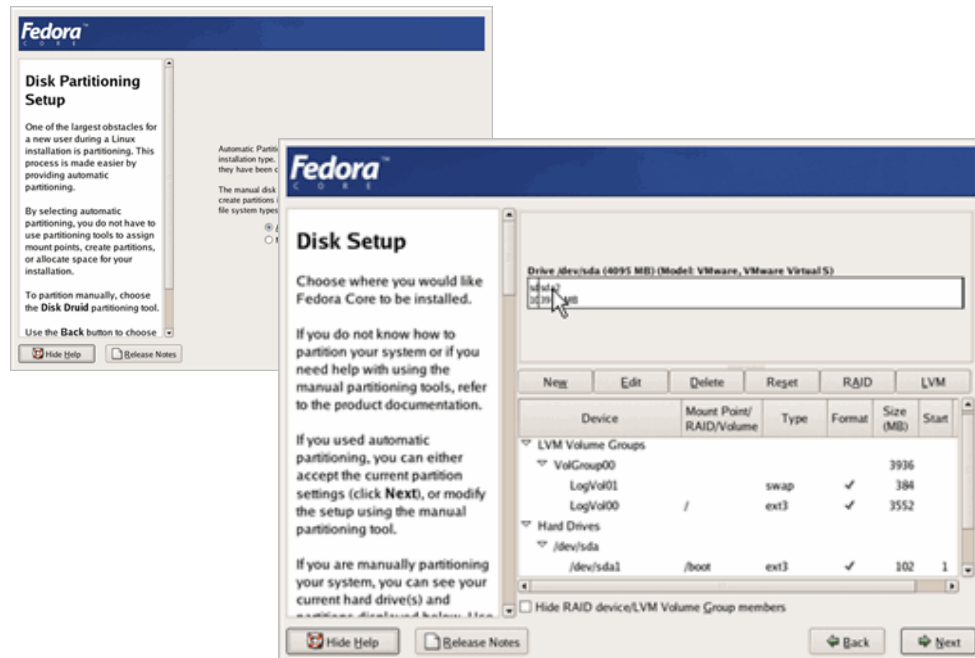
**Important:** You will need to disable Sendmail in order to run the Zimbra Collaboration Suite. You can disable the Sendmail service with this command, `chkconfig sendmail off`.

## Installation Modifications for Fedora

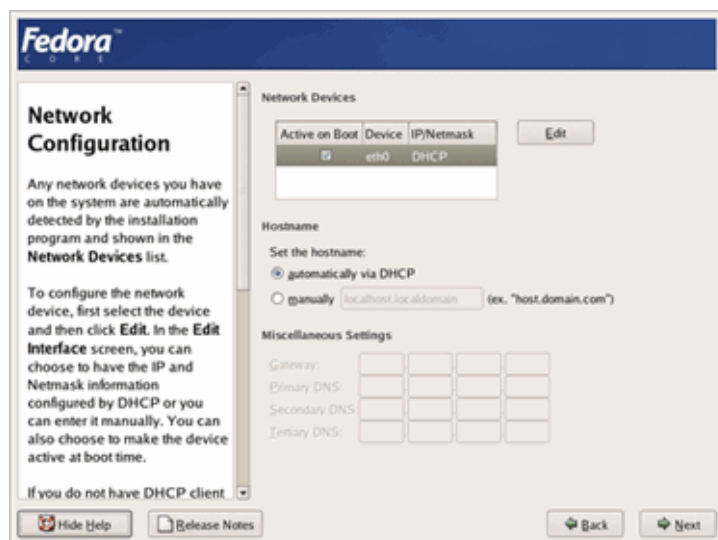
The Zimbra Collaboration Suite runs on the Fedora, Core 3 operating system. When you install the Fedora software for the Zimbra Collaboration Suite, accept the default setup answers, except for the following steps. Refer to the Fedora installation guide for detailed documentation about installing their 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 fully qualified 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.

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

## Overview of Installation Process

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

- **Zimbra Core** installs the libraries, utilities, and monitoring tools.
- **Zimbra LDAP** installs the OpenLDAP software, an 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 Apache Tomcat, the servlet container for the Zimbra server.
- **Zimbra Spell** installs the Aspell open source spelling checker. When Zimbra spell is installed, Zimbra-Apache is also installed.
- **Zimbra SNMP** installs the SNMP package for monitoring. This package is optional.



- **Zimbra Logger** installs tools for syslog aggregation, reporting, and message tracing.

After you select the packages to install, the server is ready to be configured. 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. The only value you must create is the administrator password. The password is used to log on to the Zimbra administration console.

## Downloading the Zimbra Software

The download file is a standard compressed tar file. Save the Zimbra archive tar file to the computer from which you will install the software.

## Basic Configuration

In a Zimbra single-server installation, all components are installed on one server. A basic configuration consists of the LDAP server, MTA server, and mailbox server. In addition, you can configure the SMTP and Logger components.

The menu driven installation displays the components and their existing default values. During the installation process you can select any of the components to modify.

The table below describes the menu options

**Table 2 Main Menu Options**

| Main Menu        | Description  |
|------------------|--|
| 1) Hostname      | The host name configured in the Red Hat operating system installation                      |
| 2) LDAP host     | The LDAP host name. On a single server installation this name is the same as the hostname. |
| 3) LDAP port     | The default port is 389.   |
| 4) LDAP password | The root LDAP password for the host.   |

**Table 2 Main Menu Options**

| Main Menu       | Description  |
|-----------------|--|
| 5) zimbra-ldap  | <p>Configuration includes the following steps:</p> <ul style="list-style-type: none"> <li>You can create one domain during installation and additional domains can be created from the administration console. 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.</li> <li>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. The default is admin@[mailhost.example.com].</li> <li>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.</li> </ul> |
| 6) zimbra-store | <p>Zimbra-store defines the default configuration for the web server mode. The default is HTTP.</p> <p>The communication protocol options are HTTP, HTTPS, or mixed. Mixed mode uses HTTPS for logging in and HTTP for normal session traffic. All modes use SSL encryption for back-end administrative traffic.</p>   |
| 7) zimbra-mta   | <p>You can modify the following options</p> <ul style="list-style-type: none"> <li>Enable Spamassassin. Default is enabled.</li> <li>Enable ClamAV. Default is enabled.</li> <li>Identify the notification address for AV alerts. The default is admin@[mailhost.example.com].</li> </ul> <p>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> <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 and cannot be delivered.</i></p>   |

**Table 2 Main Menu Options**

| Main Menu                            | Description  |
|--------------------------------------|--|
| 8) zimbra-snmp<br>(optional)         | You can modify the following options <ul style="list-style-type: none"> <li>• Enable SNMP notification. The default is <b>No</b>. If you enter yes, you must enter the SNMP Trap hostname.</li> <li>• Enable SMTP notification. The default is <b>No</b>. If you enter yes, you must enter the SMTP source email address and destination email address.</li> </ul> |
| 9) zimbra-logger                     | When installed, it is automatically enabled. This information is used to generate the statistics graphs and is used for message tracing.   |
| 10) zimbra-spell<br>(optional)       | If installed, it is automatically enabled.   |
| 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.   |
| q) Quit                              | Quit can be used at any time to quit the installation.   |

## Installing Zimbra Software

The default configuration installs the Zimbra-LDAP, the Zimbra-MTA , the Zimbra mailbox server, the SNMP monitoring tools (optional), and the logger tool (optional), and anti-virus and anti-spam protection, on one server.

From the computer performing the installation, open an SSH session to the Zimbra server.

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 [zcs.tgz]**, to unpack the file
  - **cd zcs**, 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.

## The screen shots are examples of the Zimbra installation script

```
[root@mailhost. tmp]# tar xzvf zcs.tgz
zcs/
zcs/util/
.
.
.
zcs/install.sh
zcs/packages/
zcs/packages/zimbra-apache-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-core-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-mta-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-spell-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-store-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-logger-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-ldap-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/packages/zimbra-snmp-3.0.0_M2_595.RHEL4-20051104060309.i386.rpm
zcs/README.txt
zcs/readme_binary.txt
zcs/docs/
.
.
.
[root@mailhost tmp]# cd zcs
[root@mailhost zcs]# ./install.sh

Operations logged to /tmp/install.log.23354
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-core...NOT FOUND 1
```

## Checking for Sendmail and Postfix

2. The installation process checks to see if Sendmail, Postfix, and MySQL software are running. If any of these applications is 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.

```
Checking for sendmail/postfix

Sendmail appears to be running. Shut it down [Y]
```

3. The Zimbra software agreement is displayed and includes the link to the license terms for the Zimbra Collaboration Suite. Please read the agreement, and to continue, press **Enter**.

```
PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE.
ZIMBRA, INC. ("ZIMBRA") WILL ONLY LICENSE THIS SOFTWARE TO YOU IF YOU
FIRST ACCEPT THE TERMS OF THIS AGREEMENT. BY DOWNLOADING OR
INSTALLING THE SOFTWARE, OR USING THE PRODUCT, YOU ARE CONSENTING TO
BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS
OF THIS AGREEMENT, THEN DO NOT DOWNLOAD, INSTALL OR USE THE PRODUCT.
```

License Terms for the Zimbra Collaboration Suite:

<http://www.zimbra.com/downloads/sourcebinary/index.php?dl=2>

Press Return to continue

Checking for prerequisites...

```
libidn...FOUND libidn-0.5.6-1
curl...FOUND curl-7.12.1-5.rhel4
fetchmail...FOUND fetchmail-6.2.5-6.el4.2
gmp...FOUND gmp-4.1.4-3
```

Checking for installable packages

4. Next the installer checks to see that the prerequisite software is installed. If the libidn, cURL, fetchmail, or GMP are not installed, the install quits. You must fix the problem and start the installation over.
5. Select the services to be installed on this server. To install Zimbra Collaboration Suite on a single server, enter Y for each package.

```
Select the packages to install
Install zimbra-ldap [Y]
Install zimbra-mta [Y]
Install zimbra-snmp [Y]
Install zimbra-store [Y]
Install zimbra-spell [Y]
Install zimbra-logger [Y]
```

Installing:

```
zimbra-core
zimbra-ldap
zimbra-mta
zimbra-snmp
zimbra-store
zimbra-apache
zimbra-spell
zimbra-logger
```

Configuration section

6. Press enter to modify the system. The selected packages are installed on the server.

At this point 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 (\*)

```

Main menu

  1) Hostname:                               mailhost.example.com
  2) Ldap host:                             mailhost.example.com
  3) Ldap port:                             389
  4) Ldap password:                         set
  5) zimbra-ldap:                           Enabled
      +Create Domain:                       yes
      +Domain to create:                   mailhost.example.com
      +Create Admin User:                   yes
      +Admin user to create:                admin@mailhost.example.com
***** +Admin Password                     UNSET

  6) zimbra-store:                           Enabled
  7) zimbra-mta:                             Enabled
  8) zimbra-snmp:                           Enabled
  9) zimbra-logger:                         Enabled
 10) zimbra-spell:                           Enabled
  r) Start servers after configuration       yes
  s) Save config to file
  x) Expand menu
  q) Quit

Address unconfigured (**) items  (? - help) 5

```

To navigate the Main menu, select the menu item to change. You can modify any of the defaults. See [Table 2](#) for a description of the Main menu.

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

1. Enter **5** to select **Main menu 5, zimbra-ldap**

```

Ldap configuration

  1) Status:                               Enabled
  2) Create Domain:                         yes
  3) Domain to create:                     infodev.liquidsys.com
  4) Create Admin User:                     yes
  5) Admin user to create:                  admin@infodev.liquidsys.com
** 6) Admin Password                       UNSET

Select, or 'r' for previous menu [r] 6

```

2. Select **6**, and type the admin password. The password must be six or more characters.
3. Type **r** to return to the Main menu. If no other defaults need to be changed, type **a**, to apply the configuration changes. Press **Enter**.

4. When **The system will be modified - continue?** appears, enter **y** and press **Enter**.
5. After the **Operations logged to /tmp/zmsetup.log.xxx**, press **Enter**. The server is modified. Installing all the components and configuring the server can take a few minutes.
6. When **Installation complete - press return to exit** displays, press **Enter**.

The installation is complete.

```
Select, or press 'a' to apply config (? - help) a
Save configuration data to a file? [Yes]
Save config in file: [/opt/zimbra/config.14789]
Saving config in /opt/zimbra/config.14789...Done
The system will be modified - continue? [No] Y
.
.
.
Operations logged to /tmp/zmsetup.log.14789
Configuration complete - press return to exit
```

## Verify Zimbra Server Operation

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

To verify that the server is running:

1. Log on as a Zimbra administrator,
2. Type **su - zimbra**.
3. Type **zmcontrol status**. The services status information is displayed. All services should be running.

## 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 the administration console, you must type https, even if you configured only 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**.

### To provision accounts:

1. From the admin console navigation pane, click **Accounts**.

**Note:** *The admin account is the only account listed. It was created during installation.*

2. Click **New**, page 1 of the **New Account Wizard** opens.
3. Enter the account name to be used as the email address. The only required information is the account name and last name.
4. You can click **Finish** at this point, and the account will be configured with the default COS and global features.

If you want to configure aliases, forwarding addresses, and specific features for this account, proceed through the dialog.

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

### Admin's Account

Initial administrative tasks when you log on for the first time include opening your admin account and setting up appropriate aliases so that notifications that are automatically generated are routed to your admin mailbox.

The one alias that is created during install is the **postmaster** address. The postmaster address is displayed in emails that are automatically generated from Postfix when messages cannot be sent.

If you didn't change the default, the anti-virus notification is sent to the admin account.

## Additional Information

To learn more about the Zimbra Collaboration Suite, read the Administrator Reference Guide and Help. The Zimbra documentation and release notes can be found in the `opt/zimbra/docs` directory and is also available from the administration console Help button.

- **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.
- **Administrator Help.** The administrator Help provides detailed instructions about how to add and maintain your servers, domains, and user accounts from the admin console.
- **Migration Wizard Guide.** This guide describes how to migrate Microsoft® Exchange clients to the Zimbra Collaboration Suite.



## Support and Contact Information

We appreciate your feedback and suggestions. Visit **[www.zimbra.com](http://www.zimbra.com)** to join the community and to be a part of building the best open source messaging solution.

- Click **Feedback** to send us an email. Let us know what at you like about the product, and what you would like to see in the product.
- Join the Zimbra Community Forum, to participate and learn more about the Zimbra Collaboration Suite.

If you encounter problems with this software, visit [Zimbra.com](http://Zimbra.com) and submit a bug and make sure to provide enough detail so that it can be easily duplicated.

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