

IBM WebSphere Commerce Business Edition
IBM WebSphere Commerce Professional Edition



Quick Beginnings for Linux

Version 5.5

IBM WebSphere Commerce Business Edition
IBM WebSphere Commerce Professional Edition



Quick Beginnings for Linux

Version 5.5

Note:

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 33.

First Edition (June 2003)

This edition applies to version 5.5 of the following products and to all subsequent releases and modifications until otherwise indicated in new editions:

- IBM WebSphere Commerce Business Edition for Linux (Intel platforms)
- IBM WebSphere Commerce Professional Edition for Linux (Intel platforms)
- IBM WebSphere Commerce Business Edition for Linux for @server pSeries
- IBM WebSphere Commerce Business Edition for Linux for @server iSeries
- IBM WebSphere Commerce Business Edition for Linux for @server zSeries and S/390

Ensure that you are using the correct edition for the level of the product.

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IBM welcomes your comments. You can send your comments by using the online IBM WebSphere Commerce documentation feedback form, available at the following URL:

<http://www.ibm.com/software/webservers/commerce/rcf.html>

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Chapter 1. Welcome to WebSphere® Commerce

This book describes how to install and configure the main components of WebSphere Commerce Version 5.5 on a single machine. It is intended for system administrators or for anyone else responsible for performing installation and configuration tasks. For more advanced configuration scenarios, refer to the *WebSphere Commerce Installation Guide*.

For instructions on the installation and configuration of WebSphere Commerce Studio, refer to the *WebSphere Commerce Studio Installation Guide*.

This Guide, and any updated versions of this Guide, are available as PDF files at the WebSphere Commerce Technical Library Web site (<http://www.ibm.com/software/commerce/library/>). For additional support information, see the WebSphere Commerce Support site (<http://www.ibm.com/software/commerce/support/>).

To learn about last-minute changes to the product, see the updated product README file, which is also available from the WebSphere Commerce Technical Library Web site (<http://www.ibm.com/software/commerce/library/>).

Updates to this book

This Installation Guide, and any updated versions of this Installation Guide, are available as PDF files at the WebSphere Commerce Technical Library Web site:

<http://www.ibm.com/software/commerce/library/>

For additional information on WebSphere Commerce - Express, see the following Web site:

<http://www.ibm.com/software/genservers/commerce/express/>

For additional information on your WebSphere Commerce edition, see the following WebSphere Commerce Web sites:

- Business Edition:
http://www.ibm.com/software/webservers/commerce/wc_be/
- Professional Edition:
http://www.ibm.com/software/webservers/commerce/wc_pe/

For additional support information, see the WebSphere Commerce Support site:

<http://www.ibm.com/software/commerce/support/>

To learn about last-minute changes to the product, see the updated product README file, which is also available from the WebSphere Commerce Technical Library Web site:

<http://www.ibm.com/software/commerce/library/>

If you are installing on a system that has an earlier version of WebSphere Commerce and supported products installed, see the *WebSphere Commerce Migration Guide*.

Updates from the last version of this document are identified by revision characters contained in the margin. This book uses the following conventions for revision characters:

- The "+" character identifies updates that have been made in the current version of this document.
- The "|" character identifies any updates that have been made in the previous versions of this document.

Conventions used in this book

This book uses the following conventions:

Boldface type	Indicates commands or graphical user interface (GUI) controls such as names of fields, icons, or menu choices.
Monospace type	Indicates examples of text you enter exactly as shown, file names, and directory paths and names.
<i>Italic type</i>	Used to emphasize words. Italics also indicate names for which you must substitute the appropriate values for your system.

Default installation paths

When this book refers to installation paths, it uses the following default path names:

WebSphere Commerce Version 5.5	<i>WC_installdir</i>
IBM® DB2 Universal Database™ Version 8.1.2 Express Edition	<i>DB2_installdir</i>
IBM HTTP Server Version 1.3.26.2	<i>HTTPServer_installdir</i>

WebSphere Application Server Version 5.0.2	<i>WAS_installdir</i>
--	-----------------------

Refer to “Path variables” on page 15 for more information on how this book refers to installation paths for the various installed products.

Supported Web browsers

You can only access the WebSphere Commerce tools and online help using Microsoft® Internet Explorer 6.0 from a machine running a Windows® operating system on the same network as your WebSphere Commerce machine. You must use Internet Explorer full version 6.0 (also known as Internet Explorer 6.0 Service Pack 1 and Internet Tools) or later with the latest critical security updates from Microsoft — prior versions do not support full functionality of WebSphere Commerce tools.

Shoppers can access Web sites by using any of the following Web browsers, all of which have been tested with WebSphere Commerce:

- AOL 7 or above for Windows
- Microsoft Internet Explorer:
 - Version 5.5 or higher for Windows
 - Version 5 or higher for Macintosh
- Mozilla Version 1.0 or higher
- Netscape Version 6.0 or higher
- Netscape Navigator Version 4.6 or higher

Port numbers used by WebSphere Commerce

The following is a list of the default port numbers used by WebSphere Commerce or its component products. Please ensure that you do not use these ports for non-WebSphere Commerce applications. If you have a firewall configured in your system, ensure that you can access these ports.

Port Number

Used By

- | | |
|-------------|--|
| 80 | IBM HTTP Server. |
| 389 | Lightweight Directory Access Protocol (LDAP) Directory Server. |
| 443 | IBM HTTP Server – secure port. This secure port requires SSL. |
| 1099 | WebSphere Commerce Configuration Manager server. |
| 2809 | WebSphere Application Server Bootstrap address. |
| 5432 | WebSphere Commerce Payments non-secure server. |

- 5433 WebSphere Commerce Payments secure server. This secure port requires SSL.
- 5557 WebSphere Application Server Internal Java™ Messaging Service server.
- 5558 WebSphere Application Server Java Messaging Service server queued address.
- 5559 WebSphere Application Server Java Messaging Service direct address.
- 7873 WebSphere Application Server DRS client address.
- 8000 WebSphere Commerce Tools. This secure port requires SSL.
- 8002 WebSphere Commerce Administration Console. This secure port requires SSL.
- 8004 WebSphere Commerce Organization Administration Console. This secure port requires SSL.
- 8008 IBM HTTP Server Administration port.
- 8880 WebSphere Application Server SOAP Connector address.
- 9043 WebSphere Application Server Administration Console Secure Port. This secure port requires SSL.
- 9080 WebSphere Application Server HTTP Transport.
- 9090 WebSphere Application Server Administration Console Port.
- 9443 WebSphere Application Server HTTPS Transport Port.
- 9501 WebSphere Application Server Secure Association Service.
- 9502 WebSphere Application Server Common Secure Port.
- 9503 WebSphere Application Server Common Secure Port.
- 50000 DB2® server port.
- 60000 or higher**
DB2 TCP/IP communications.

Locales used by WebSphere Commerce

WebSphere Commerce uses valid Java locales only. Ensure that your systems have the appropriate locale installed for your language. Ensure that any locale-related environment variables are set to include the WebSphere Commerce–supported locale. Locale codes supported by WebSphere Commerce are shown in the table below.

Language	Locale Code	LC_ALL value
German	de_DE	de_DE
English	en_US	en_US
Spanish	es_ES	es_ES
French	fr_FR	fr_FR
Italian	it_IT	it_IT
Japanese	ja_JP	ja_JP
Korean	ko_KR	ko_KR
Brazilian Portuguese	pt_BR	pt_BR
Simplified Chinese	zh_CN	zh_CN
Traditional Chinese	zh_TW	zh_TW

Note: SuSE Linux Enterprise Server 8 operating system does not support the Traditional Chinese (zh_TW) locale.

To determine your locale, run one the following commands, depending on the Linux distribution you are using:

Linux distribution	Command
Red Hat	echo \$LANG
SuSE	echo \$LC_CTYPE

If your locale is not supported, change your locale properties by running one of the following sets of commands as root user, depending on the Linux distribution you are using:

Linux distribution	Command
Red Hat	LANG=xx_XX export LANG
SuSE	LC_CTYPE=xx_XX export LC_CTYPE

Where xx_XX is your four letter locale code with the same capitalization as shown in the above table.

Quick reference to user IDs, passwords and URLs

Administration in the WebSphere Commerce environment requires a variety of user IDs. These user IDs along with their requisite authorities are described in the table below. For the WebSphere Commerce user IDs, the default passwords are identified.

User ID	Default values	Notes
DB2 user	Not applicable	<p>This is an operating system user ID created during installation to administer your DB2 database. It should be used when running DB2 commands, and when starting and stopping your DB2 server.</p> <p>This user must meet the DB2 user ID requirements outlined in “DB2 Universal Database user ID requirements” on page 8.</p>
Configuration Manager user ID	The default Configuration Manager user ID and password are <code>webadmin</code> and <code>webibm</code>	The Configuration Manager tool’s graphical interface allows you to modify the way WebSphere Commerce is configured. You can access Configuration Manager from your WebSphere Commerce machine, or any machine on the same network as WebSphere Commerce which supports a graphical user interface, and has the Configuration Manager client installed.

User ID	Default values	Notes
WebSphere Commerce Site Administrator	<p>Not applicable.</p> <p>The Site Administrator ID and password are created as part of the Quick installation.</p>	<p>The Site Administrator user ID and password apply to the following WebSphere Commerce tools:</p> <ul style="list-style-type: none"> • WebSphere Commerce Accelerator. To access the WebSphere Commerce Accelerator, open Internet Explorer on a Windows machine on the same network as WebSphere Commerce, and enter the following URL: https://host_name:8000/accelerator • WebSphere Commerce Administration Console. To access the WebSphere Commerce Administration Console, open Internet Explorer on a Windows machine on the same network as WebSphere Commerce, and enter the following URL: https://host_name:8002/adminconsole • WebSphere Commerce Organization Administration Console. To access the WebSphere Commerce Organization Administration Console, open Internet Explorer on a Windows machine on the same network as WebSphere Commerce, and enter the following URL: https://host_name:8004/orgadminconsole <p>WebSphere Commerce requires that the user ID and password adhere to the following rules:</p> <ul style="list-style-type: none"> • The password must be at least 8 characters in length. • The password must include at least 1 numeric character. • The password must include at least 1 alphabetic character. • The password does not contain more than 4 occurrences of a character. • The password does not repeat the same character more than 3 times.

User ID	Default values	Notes
WebSphere Commerce Payments Administrator	When you install WebSphere Commerce Payments, the WebSphere Commerce Site Administrator ID is automatically assigned the WebSphere Commerce Payments Administrator role.	The WebSphere Commerce Payments Administrator role enables a user ID to control and administer WebSphere Commerce Payments.
non-root user ID	n/a	You must create this ID before installing WebSphere Commerce. This ID is used to administer several components of WebSphere Commerce. The following servers and tools should be run under this ID: <ul style="list-style-type: none"> • the WebSphere Commerce application server • the WebSphere Commerce Payments application server • WebSphere Commerce Configuration Manager • the default WebSphere Application Server application server — server1
root	root	This is the user ID required for installing WebSphere Commerce. It should also be used to start and stop IBM HTTP Server.

DB2 Universal Database user ID requirements

DB2 requires that the user IDs and passwords for database administrators and database users adhere to the following rules:

- They cannot be more than 8 characters in length.
- They cannot contain any upper case characters.
- They can contain only the characters a to z, 0 to 9, @, #, \$, and _.
- They cannot begin with an underscore (_).
- The user ID cannot be any of the following, in upper, lower, or mixed case: USERS, ADMINS, GUESTS, PUBLIC, LOCAL.
- The user ID cannot begin with any of the following in upper, lower, or mixed case: IBM, SQL, SYS.

Chapter 2. Preinstallation requirements

This section describes the steps you need to perform before you install WebSphere Commerce.

To perform the steps described in this publication, you must have root user access.

Important

You *must* complete these preinstallation steps to ensure that installation is successful.

Knowledge requirements

To install and configure WebSphere Commerce, you require knowledge of the following:

- Your operating system
- The Internet
- Web server operation and maintenance
- IBM DB2 Universal Database
- Basic operating system commands

To create and customize your store, you require knowledge of the following:

- WebSphere Application Server
- IBM DB2 Universal Database
- HTML and XML
- Structured Query Language (SQL)
- Java programming

For information on developing your store front and store data assets, refer to the *WebSphere Commerce Store Development Guide*. For information on developing or customizing your business logic (or back office business logic) see the *WebSphere Commerce Programming Guide and Tutorials* document.

Prerequisite hardware

You must ensure that you meet the following minimum hardware requirements before installing WebSphere Commerce:

Prerequisite hardware for Linux on Intel® processor-based systems

You require a dedicated Intel Pentium® III 733 MHz (or higher recommended for a production environment) IBM-compatible personal computer with the following:

- A minimum of 1 GB of random access memory (RAM) per processor
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Paymentsinstance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 512 MB of RAM per processor.
- A minimum of 4 GB of free disk space
- A minimum of 1 GB of paging space per processor
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Paymentsinstance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 1 GB of paging space per processor.
- A CD-ROM drive
- A graphics capable monitor
- A local area network (LAN) adapter that supports TCP/IP

Prerequisite hardware for Linux on @server iSeries™ systems

Linux runs on selected @server iSeries systems in a logical partition. For a list of the @server iSeries models that support Linux, refer to the following URL:
<http://www.ibm.com/servers/eserver/iseries/linux/hardware.html>

In addition to supporting Linux, the @server iSeries system must meet the following requirements:

- A minimum of 1 GB of random access memory (RAM) per processor
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Payments instance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 1 GB to 1.5 GB of RAM per processor.
- A minimum of 4 GB of free disk space
- A minimum of 1 GB of paging space per processor.
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Paymentsinstance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 1 GB of paging space per processor.
- A CD-ROM drive
- A graphics capable monitor

- A mouse or other pointing device
- A local area network (LAN) adapter that supports TCP/IP

In addition to the server, you require the following:

- A Windows, Linux, or UNIX[®] machine with a graphics capable monitor and a mouse or other pointing device

This workstation is required to Telnet to the @server iSeries so that the installation wizard can be run.

- A Windows workstation capable of running a Web browser such as Internet Explorer with a graphics-capable monitor

This workstation is required to access the WebSphere Commerce tools such as WebSphere Commerce Accelerator.

Prerequisite hardware for Linux on @server pSeries™ systems

Linux is supported on selected @server pSeries systems. For a list of @server pSeries systems and peripherals that support Linux, refer to the following document:

http://www.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf

In addition to supporting Linux, the @server pSeries system must meet the following requirements:

- A minimum of 1 GB of random access memory (RAM) per processor
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Payments instance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 512 MB of RAM per processor.
- A minimum of 4 GB of free disk space
- A minimum of 1 GB of paging space per processor.
This requirement is for the initial WebSphere Commerce instance and its associated WebSphere Commerce Payments instance. Each additional WebSphere Commerce instance and its associated WebSphere Commerce Payments instance requires an additional 1 GB of paging space per processor.
- A CD-ROM drive
- A graphics capable monitor
- A mouse or other pointing device
- A local area network (LAN) adapter that supports TCP/IP

In addition to the server, you require a workstation, running a Windows operating system and capable of running a Web browser such as Internet Explorer with a graphics-capable monitor. This workstation is required to access the WebSphere Commerce tools such as WebSphere Commerce Accelerator.

Prerequisite hardware for Linux on @server zSeries® and S/390® systems

You require a @server zSeries or S/390 server running the Linux operating system, that meets the following specifications:

- A minimum of 1 GB of random access memory (RAM) per Linux instance
- A minimum of 2 GB of paging space per Linux instance
- 1 full volume (3300 cylinders) free disk space for the Linux system
- 1 full volume (3300 cylinders) free disk space for WebSphere Commerce, WebSphere Application Server, and DB2 Universal Database
- 1 full volume (3300 cylinders) temporary free disk space for the contents of the WebSphere Commerce CDs that are transferred from a workstation to the @server zSeries or S/390
- A CD-ROM drive
- A graphics capable monitor
- A mouse or other pointing device
- A local area network (LAN) adapter that supports TCP/IP

In addition to the server, you require the following:

- A Windows, Linux, or UNIX machine with a graphics capable monitor, a CD-ROM drive, and a mouse or other pointing device

Ensure that this machine has a minimum of 1 GB free disk available. This free disk space is required when packaging the WebSphere Commerce CDs for transfer to the @server zSeries or S/390 machine.

- A Windows workstation capable of running a Web browser such as Internet Explorer with a graphics-capable monitor

This workstation is required to access the WebSphere Commerce tools such as WebSphere Commerce Accelerator.

Prerequisite software

You must ensure that you meet the following minimum software requirements before installing WebSphere Commerce:

- Ensure that you have a Windows machine with Internet Explorer Version 6.0 (full version) or higher available on the same network as the machine on which you are installing WebSphere Commerce. Internet Explorer is required to access the WebSphere Commerce tools.

Prerequisite software for Linux on Intel based systems

WebSphere Commerce requires one of the following operating systems:

- Red Hat Enterprise Linux AS (formerly Red Hat Linux Advanced Server) Version 2.1

Ensure the following packages are available on your system:

- pdksh-5.2.14-13

- ncurses-5.2-12
- SuSE Linux Enterprise Server 8
 - Ensure the following packages are available on your system:
 - pdksh-5.2.14-532
 - ncurses-5.2-402

You can check their availability by issuing the following command:

```
rpm -qa | grep package_name
```

If these packages have not been installed, you must install them before proceeding with the WebSphere Commerce installation.

Ensure that you have a Netscape Web browser installed. A Netscape Web browser is required to view the information available through the Installation Complete panel of the WebSphere Commerce installation wizard.

Prerequisite software for Linux on @server iSeries systems

WebSphere Commerce requires SuSE Linux Enterprise Server 8 (64-bit support only).

Ensure the pdksh-5.2.14-433 package is available on your system. You can check its availability by issuing the following command:

```
rpm -qa | grep package_name
```

If the package has not been installed, you must install it before proceeding with the WebSphere Commerce installation.

Ensure that you have a Netscape Web browser installed. A Netscape Web browser is required to view the information available through the Installation Complete panel of the WebSphere Commerce installation wizard.

Prerequisite software for Linux on @server pSeries systems

WebSphere Commerce requires SuSE Linux Enterprise Server 8 (64-bit support only).

Ensure the pdksh-5.2.14-433 package is available on your system. You can check its availability by issuing the following command:

```
rpm -qa | grep package_name
```

If the package has not been installed, you must install it before proceeding with the WebSphere Commerce installation.

Ensure that you have a Netscape Web browser installed. A Netscape Web browser is required to view the information available through the Installation Complete panel of the WebSphere Commerce installation wizard.

Prerequisite software for Linux on @server zSeries and S/390 systems

WebSphere Commerce requires one of the following operating systems:

- Red Hat Enterprise 7.2

Ensure the following packages are available on the system:

- `pdksh-5.2.14-13`
- `compat-libstdc++-2.10.0-1`

- SuSE Linux Enterprise Server 8

Ensure the `pdksh-5.2.14-337` package is available on your system.

You can check their availability of the required packages by issuing the following command:

```
rpm -qa | grep package_name
```

If these packages have not been installed, you must install them before proceeding with the WebSphere Commerce installation.

If the machine you are using to administer your WebSphere Commerce site is running the Windows 2000 operating system, ensure that an X Server is installed.

Ensure that you have a Netscape Web browser installed. A Netscape Web browser is required to view the information available through the Installation Complete panel of the WebSphere Commerce installation wizard.

Other requirements

You must also do the following before installing WebSphere Commerce:

- Ensure that any Lotus[®] Notes[®] servers, Web servers, Java application servers, and any non-essential Java processes are stopped before installing WebSphere Commerce.
- Ensure that any other InstallShield MultiPlatform installers have completed or are stopped before installing WebSphere Commerce
- Ensure that the following user IDs do not exist: `db2fwc1`, `daswc1`.
- Ensure that the following user groups do not exist: `db2fwcg1`, `daswgc1`.
- Since WebSphere Commerce uses both IP addresses and host names, the IP address on your system must resolve to a host name. To determine your IP address, open a command window and type the following:

```
nslookup host_name
```

The desired result is a reply from your correct IP address.

- Ensure that the system can be reached from other computers in the network by pinging the fully-qualified host name of the machine on which you are installing WebSphere Commerce.
- Ensure that your host name is fully qualified with a domain.
- Ensure that the host name of your Web server does not contain an underscore (_). IBM HTTP Server does not support machines with an underscore in their host name.
- If you have a Web server installed that is using any of the following ports, disable the Web server before installing WebSphere Commerce:
 - 80
 - 443
 - 5432
 - 5433
 - 8000
 - 8002
 - 9090
 - 8004
- Uninstall Apache Web server if it is installed on your system. To determine if Apache is on your system, run the following command from a command prompt:

```
rpm -qa|grep apache
```

The system will list any Apache packages that are on your system. To uninstall these packages, run the following command for each listed package:

```
rpm -e --nodeps package_name
```

where *package_name* is the exact name that appeared in the output of the first command.

- To view the WebSphere Commerce information available after the completion of the WebSphere Commerce installation wizard, you must have a web browser on the machine on which you are installing WebSphere Commerce.

Path variables

The following variables are used for paths in this book:

DB2_installdir

This is the installation directory for DB2 Universal Database. The default installation directory is `opt/IBM/db2/V8.1`.

HTTPServer_installdir

This is the installation directory for IBM HTTP Server. The default installation directory is /opt/WebSphere/IBMHttpServer.

WAS_installdir

This is the installation directory for WebSphere Application Server. The default installation directory for WebSphere Application Server is /opt/WebSphere/AppServer.

WC_installdir

This is the installation directory for WebSphere Commerce and contains all the WebSphere Commerce proprietary data. The default installation directory for WebSphere Application Server is /opt/WebSphere/CommerceServer55.

Chapter 3. Installing WebSphere Commerce

The instructions in this chapter will guide you through the installation and configuration of WebSphere Commerce on a single node. This installation should be performed under the following conditions:

- You want to install the following components on the same node and none of these components are pre-installed on the node:
 - DB2 Universal Database, Version 8.1.2
 - IBM HTTP Server, Version 1.3.26.2
 - WebSphere Application Server base product, Version 5.0.2
 - WebSphere Commerce Server
 - WebSphere Commerce Payments

Notes:

1. If you want to create a WebSphere Commerce instance in a language other than the language in which you are installing, you cannot use the Quick installation.

A successful quick installation will create a WebSphere Commerce instance (with a name of your choosing), and a WebSphere Commerce Payments instance with name wpm.

Before installing WebSphere Commerce

This section describes what must be completed before using the WebSphere Commerce installation wizard. Before using the WebSphere Commerce installation wizard, you must do the following:

1. Create the user IDs and groups required by WebSphere Application Server on any machine on which you plan to install WebSphere Commerce or WebSphere Commerce Payments. For instructions, refer to “Creating required WebSphere Application Server users and groups.”
2. (@server zSeries and S/390 users only) Transfer required installation files from a workstation to the @server zSeries or S/390. For instructions, refer to “Transferring installation files to the @server zSeries or S/390” on page 18.

Creating required WebSphere Application Server users and groups

On any machine onto which you install WebSphere Commerce components including: WebSphere Commerce; WebSphere Commerce Payments; and WebSphere Commerce Configuration Manager client, do the following:

1. Log on as root.

2. Create a non-root user ID and give the new user ID a password.
This user ID will be used to start the WebSphere Commerce and WebSphere Commerce Payments application servers as part of the instance creation part of the Quick installation process.
3. Create a new user group and add the non-root user ID to the new group.
Take note of the non-root user ID, user group ID for the non-root user, and the full path of the home directory for the non-root user. This information will be required to complete the WebSphere Commerce installation wizard.
By default, the WebSphere Commerce installation wizard specifies **wasuser** as the non-root WebSphere Commerce user ID and **wasgroup** as the group ID for the non-root WebSphere Commerce user ID. You can either create this user and group or replace the default values in the installation wizard with the user ID and group you create.
4. Create the user IDs and groups required by the WebSphere Application Server embedded messaging components. These user IDs and groups are required for WebSphere Application Server to install successfully.
Create the required user IDs and groups as follows:
 - a. Create the user ID `mqm` and give the user ID a password.
 - b. Create the following user groups:
 - `mqm`
 - `mqbrkrs`
 - c. Add the following users to the `mqm` user group:
 - `mqm`
 - `root`
 - d. Add the following user to the `mqbrkrs` user group:
 - `root`
 - e. Log off.
 - f. Log on as `root` to allow the group membership changes to take effect.

For instructions on creating users, creating user groups, and adding users to groups, refer to your operating system documentation.

If these user IDs and groups are not set up correctly before starting the WebSphere Commerce installation wizard, the installation wizard will not proceed past the point where the wizard checks for the existence of the required users and groups.

Transferring installation files to the @server zSeries or S/390

Before you can install WebSphere Commerce and its supporting software on Linux partitions on an @server zSeries or S/390 machine, you must transfer the contents of the WebSphere Commerce CDs from a workstation with a

CD-ROM drive to the @server zSeries or S/390 machine on which you want to install WebSphere Commerce and its supporting software.

The following CDs must be transferred:

- DB2 Universal Database CDs
- WebSphere Application Server CD
- WebSphere Commerce CDs

To transfer the contents of a CD to the @server zSeries or S/390 machine, do the following:

1. Do the following on a workstation:
 - a. Insert the CD into the CD-ROM drive of a workstation.
 - b. Use a file compression utility such a *gzip* or an archiving utility such as *tar* to package the entire contents of the CD-ROM into a single file.
 - c. Transfer the file from the workstation to the @server zSeries or S/390 machine using FTP or another transfer method you have available
 - d. If the amount of hard drive space is limited on the workstation, delete the file.
2. Do the following on the @server zSeries or S/390 machine:
 - a. Ensure that you are logged in as root.
 - b. Create a temporary directory for the contents of the CD, ensuring that the directory has a meaningful name. You will need to know the name and location of each directory containing the contents of a CD in order to complete the WebSphere Commerce installation wizard.
Ensure that you create a separate directory for each CD.
 - c. Uncompress or dearchive the file into its temporary directory.
Ensure that the file is being uncompressed or dearchived into a unique temporary directory. Different CDs may contain files with the same names. Storing the contents of multiple CDs in one directory will result in files that share names being overwritten as you uncompress or dearchive each file into the directory.
 - d. (Optional) Delete the compressed or archive file to conserve hard drive space.

Completing a Quick installation

To complete a Quick installation, do the following:

1. Ensure that you are logged onto your system as root.
2. From a terminal session, issue the following command:

```
export DISPLAY=host_name:0.0
```

where *host_name* is the fully qualified host name of the machine from which you want to run the installation wizard.

Note: If you are running the installation wizard in an X client, the X client may need to be authorized to access the X server using the `xhost` command. To authorize an X client, issue the following command from the system console as root:

```
xhost +host_name
```

where *host_name* is the fully qualified host name of the machine from which you want to run the installation wizard.

- Depending on your hardware platform, do the following:

Hardware platform	Instructions
Intel-based systems	Insert WebSphere Commerce CD 1 into the CD-ROM drive of the node. Mount the CD-ROM drive, but do not change directory to the mount point. Changing directories to the mount point will lock the CD drive and prevent you from being able to swap CDs.
@server iSeries systems	
@server pSeries systems	
@server zSeries systems	Switch directories to the directory containing the contents of WebSphere Commerce CD 1. The contents of this CD and other CDs should have already been transferred to the @server zSeries or S/390 system.
S/390 systems	For instructions on transferring the contents of CDs to the @server zSeries or S/390 system, refer to “Transferring installation files to the @server zSeries or S/390” on page 18.

- Issue one of the following commands as root, depending on your hardware platform:

Hardware platform	Command
Intel processor-based systems	<code>mount_point/setup_linux</code> or <code>mount_point/setup_linux -console</code>
@server iSeries systems	<code>mount_point/setup_ppclinux</code> or <code>mount_point/setup_ppclinux -console</code>

Hardware platform	Command
@server pSeries systems	<code>mount_point/setup_ppclinux</code> or <code>mount_point/setup_ppclinux -console</code>
@server zSeries systems	<code>./setup_zlinux</code> or
S/390 systems	<code>./setup_zlinux -console</code>

where `mount_point` is the CD-ROM mount point. For example, `/mnt/cdrom0`.

Using the `-console` parameter starts a text-based install wizard. The steps in the text-based install wizard and the GUI-based install wizard are the same, but the methods of selection options and continuing in the install wizard differ.

In this section, instructions for selecting options and continuing are provided only for the GUI-based install wizard. To select options and continue when using the text-based install wizard, follow the prompts provided by the text-based install wizard.

5. Select the installation language, and select **OK**. The software will be installed in this language, regardless of the language settings of your system.

Important: The language selected here become the default language for the WebSphere Commerce instance. Attempting to create a WebSphere Commerce instance with a default language different from the language selected here will cause the WebSphere Commerce instance to be populated with invalid data.

6. Read the Welcome screen, and select **Next**.
7. Read the license agreement. If you accept the terms of agreement, select that you accept the terms, and select **Next**.
8. When prompted to select an install type, select **Quick Installation**, and select **Next**.
9. Accept the default destination directory or enter another directory, and select **Next**.

If you accept the default destination directory, the WebSphere Commerce components will be installed to the following paths:

DB2 Universal Database

`/opt/IBM/db2/V8.1`

IBM HTTP Server

/opt/WebSphere/IBMHttpServer

WebSphere Application Server

/opt/WebSphere/AppServer

WebSphere Commerce

/opt/WebSphere/CommerceServer55

If you enter a directory that does not exist, you will be asked if you want to create the directory.

10. Enter the following information:

Database user ID

Enter a user ID that you want to assign to DB2. This user ID will be used by WebSphere Commerce to access the database when WebSphere Commerce is running.

This must not be an existing operating system ID.

Database user password

Enter the password associated with the database user ID.

Database user group

Enter a user group to which you want to assign the database user ID.

This must not be an existing operating system group.

Database user home directory

Enter the full path for the database user's home directory.

This must not be an existing directory.

Merchant Key

Enter a 16-digit hexadecimal number that meets the following criteria:

- Must contain at least one numeric character (0–9)
- Must contain at least one alphabetic character (a–f)

Important: Uppercase letters are not valid in the merchant key.

- Cannot contain four consecutive occurrences of a character

A hexadecimal number can only contain the following numbers and letters: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, a, b, c, d, e, f.

The merchant key is used by the WebSphere Commerce Configuration Manager as an encryption key. You must enter your own key in the **Merchant key** field. Ensure that the key that you enter will be sufficient to protect your site. After you have created a store you can only change this key by using the

Database Update Tool. To use this tool, access Configuration Manager, right-click on the database node, and select **Database Update Tool**.

WebSphere Commerce Payments instance password

This is the password used by WebSphere Commerce Payments to decrypt any sensitive data that is stored in the WebSphere Commerce Payments database.

The WebSphere Commerce Payments instance password must meet the following criteria:

- Must contain at least one numeric character (0–9)
- Must contain at least one alphabetic character (a–z, A–Z)
- Cannot contain four consecutive occurrences of a character

Site Administrator ID

Enter an ID for the WebSphere Commerce Site Administrator. This ID will be required to access the WebSphere Commerce Accelerator, Administration Console, and Organization Administration Console. This ID will also be assigned the WebSphere Commerce Payments Administrator role.

Important: Ensure that you do not forget the Site Administrator ID and password entered when installing WebSphere Commerce. Without this ID and password, you will not be able to access WebSphere Commerce Accelerator, Administration Console, or Organization Administration Console.

Site Administrator password

Enter the password for the Site Administrator. The Site Administration password must contain at least 8 characters.

Click **Next** to continue.

11. Select the languages of the documentation that you want installed, then click **Next** to continue.
12. Enter the following information:

Non-root user ID

Enter the ID for the non-root user you created before starting the WebSphere Commerce installation wizard.

Non-root user group

Enter the user group associated with the non-root user ID.

Non-root user home directory

Enter the full path to the non-root user's home directory.

Location of Web server configuration file

This field displays the location of the IBM HTTP Server configuration file (`httpd.conf`). This value cannot be changed.

Click **Next** to continue.

13. Confirm your installation choices, then select **Next**.

To modify your choices, select **Back**

14. Insert and mount the CDs as prompted by the WebSphere Commerce Installer, following the on-screen prompts.

Progress bars indicate how much of the installation has completed.

15. When the panel containing a message indicating that the installation is complete displays, select **Next**. The Installation Complete panel displays.
16. From the Installation Complete panel, you can access more information about WebSphere Commerce or exit the installation wizard by clicking **Finish**.

Verifying your installation

During the installation of WebSphere Commerce and its components, log files are generated. Examine the following log files to ensure that your installation was successful:

- “DB2 Universal Database installation log”
- “WebSphere Application Server installation log” on page 25
- “WebSphere Commerce installation log” on page 25
- “WebSphere Commerce instance creation logs” on page 26

DB2 Universal Database installation log

This log contains messages generated during the installation of DB2 Universal Database. The default location for this log file is the following:

`WC_installdir/logs/db2setup.log`

Default values for `WC_installdir` are listed in “Path variables” on page 15.

DB2 Universal Database installed successfully if all of the components listed in the Installation section near the end of the log file have a status of SUCCESS. As an example, here is the Installation section of the DB2 Universal Database installation log file from a typical single-node or Quick installation:

```

.
.
.
Installing DB2 file sets:.....Success
Registering DB2 licenses:.....Success
Setting default global profile registry variables:.....Success
Creating the DB2 Administration Server:.....Success
The Fast Connection Manager (FCM) base port was not specified for the instance "db2inst1".
Default parameters will be used.

Initializing instance list:.....Success
Customizing DB2 instance configuration:.....Success
Command to be run:
"/opt/IBM/db2/V8.1/instance/db2icrt -a server -s ese -u db2fwc1 -p db2c_db2inst1 db2inst1".
The instance "db2inst1" has been created successfully.

The value "SVCENAME=db2c_db2inst1" was set in the DBM CFG file for the "db2inst1" instance.

The value "DB2AUTOSTART=YES" was set in the Profile Registry for the "db2inst1" instance.

Creating DB2 instances:.....Success
Registering DB2 licenses:.....Success
Configuring the DB2 Administration Server:.....Success
Updating global profile registry:.....Success

DB2 Setup log file finished at: date time

```

The content of your log file may be different.

If the Installation section of the DB2 Universal Database installation contains any components with a status of FAILURE, examine the installation log file carefully to see where errors occurred during installation. Refer to the DB2 Universal Database documentation to correct any errors that occurred.

Correct any DB2 Universal Database installation errors before continuing with the instructions in this book.

WebSphere Application Server installation log

This log contains messages generated during the installation of WebSphere Application Server. The default location for this log file is:

WAS_installdir/logs/log.txt

Default values for *WAS_installdir* are listed in “Path variables” on page 15.

The WebSphere Application Server installation is complete if the following message appears in the log file:

INSTFIN: The WebSphere 5.0 install is complete.

WebSphere Commerce installation log

This log contains messages generated by the WebSphere Commerce installation wizard. The default location for this log file is:

WC_installdir/logs/install_date_time.log

Default values for *WC_installdir* are listed in “Path variables” on page 15.

Review this log to ensure that all components of WebSphere Commerce installed successfully.

The WebSphere Commerce installation is complete if the following message appears in the log file:

WebSphere Commerce installation Complete.

WebSphere Commerce instance creation logs

Instance creation during the WebSphere Commerce installation creates the following log files:

- auction.log
- createdb.log
- createdb.db2.log
- createdb.production.log
- createsp.log
- createsp.err.log
- EnterpriseApp.log
- GenPluginCfg.log
- populatedb.err.log
- populatedb.log
- populatedb2.err.log
- populatedb2.log
- populatedbnl.log
- populatedbnl.err.log
- reorgdb2.log
- reorgdb2.err.log
- sec_check.log
- trace.txt
- WASConfig.log
- WASConfig.err.log

The files are located in the following directory:

WC_installdir/instances/demo/logs

Default values for *WC_installdir* are listed in “Path variables” on page 15.

Instance creation is successful if the log files listed earlier do not contain any errors or exceptions and the following logs from the list above are empty:

- createsp.err.log

- populatedb.err.log
- populatedb2.err.log
- populatedbml.err.log
- reorgdb2.err.log (this file is only created if there is an error)
- WASConfig.err.log

Also, review the contents of the following logs to confirm they do not contain any errors:

- createdb.log
- createdb.db2.log

If instance creation failed, the WebSphere Commerce instance can be created manually by following the instructions in the *WebSphere Commerce Installation Guide*.

The next step

After installing WebSphere Commerce and verifying the installation, you can continue by doing the following:

Publish a WebSphere Commerce sample store (recommended)

WebSphere Commerce provides a number of sample stores demonstrating various functions in WebSphere Commerce. A WebSphere Commerce sample store can be used to familiarize yourself with WebSphere Commerce and as a base for developing a customized store.

If you do not publish a sample store, you should publish the access control policies, organization structures, and other information associated with one of the sample stores to provide the framework for developing your store.

For information on publishing a WebSphere Commerce sample store, refer to the "Publishing a store archive in WebSphere Commerce" topic in the WebSphere Commerce Production and Development online help. To work with the sample stores provided with WebSphere Commerce, see the *WebSphere Commerce Sample Store Guide*.

For information on developing a store in WebSphere Commerce, refer to the *WebSphere Commerce Store Development Guide*.

Install additional software provided with WebSphere Commerce (optional)

WebSphere Commerce provides a number of additional software packages that enhance WebSphere Commerce and provide additional function. For more information on the additional software provided with WebSphere Commerce, refer to the *WebSphere Commerce Additional Software Guide*.

Chapter 4. Where to find more information

More information about the WebSphere Commerce system and its components is available from a variety of sources in different formats. The following sections indicate what information is available and how to access it.

WebSphere Commerce information

The following are the sources of WebSphere Commerce information:

- WebSphere Commerce online help
- WebSphere Commerce technical library

WebSphere Commerce online help

The WebSphere Commerce online information is your primary source of information for customizing, administering, and reconfiguring WebSphere Commerce. After you have installed WebSphere Commerce, you can access topics in the online information by visiting the following URL:

`https://host_name:8000/wchelp/`

where *host_name* is the fully qualified TCP/IP host name of the machine on which WebSphere Commerce is installed.

WebSphere Commerce technical library

The WebSphere Commerce technical library is available at the following URL:

`http://www.ibm.com/software/commerce/library/`

A copy of this book, and any updated versions of this book, are available as PDF files from the Library section of the WebSphere Commerce Web site. In addition, new and updated documentation may also be available from the Web site.

WebSphere Commerce Payments information

Help for WebSphere Commerce Payments is available by clicking the following help icon:



This help icon displays on the WebSphere Commerce Payments user interface within the WebSphere Commerce Administration Console and WebSphere Commerce Accelerator and in the standalone WebSphere Commerce Payments user interface at the following URL:

`http://host_name:http_port/webapp/PaymentManager`

or

`https://host_name:ssl_port/webapp/PaymentManager`

Where the variables are defined as follows:

host_name

The fully qualified TCP/IP host name of the Web server associated with WebSphere Commerce Payments.

http_port

The HTTP port used by WebSphere Commerce Payments. The default HTTP port is 5432.

ssl_port

The SSL port used by WebSphere Commerce Payments. The default SSL port is 5433.

If WebSphere Commerce Payments is SSL-enabled, you can use either URL. If IWebSphere Commerce Payments is not SSL-enabled, you can only use the non-secure URL (http).

Help is also available at the following URL:

`http://host_name:http_port/webapp/PaymentManager/language/docenter.html`

or

`https://host_name:ssl_port/webapp/PaymentManager/language/docenter.html`

Where the variables are defined as follows:

host_name

The fully qualified TCP/IP host name of the Web server associated with WebSphere Commerce Payments.

http_port

The HTTP port used by WebSphere Commerce Payments. The default HTTP port is 5432.

ssl_port

The SSL port used by WebSphere Commerce Payments. The default SSL port is 5433.

language

A language code for the language in which the help page will be displayed. It is two letters for most languages. The language codes are as follows:

Language	Code
German	de
English	en
Spanish	es
French	fr
Italian	it
Japanese	ja
Korean	ko
Brazilian Portuguese	pt
Simplified Chinese	zh
Traditional Chinese	zh_TW

More information about WebSphere Commerce Payments and the Payments Cassettes is available at the WebSphere Commerce Technical Library:

<http://www.ibm.com/software/commerce/library/>

IBM HTTP Server information

IBM HTTP Server information is available at the IBM HTTP Server Web site:

<http://www.ibm.com/software/webservers/httpservers/>

The documents are in HTML format, PDF files, or both.

WebSphere Application Server information

WebSphere Application Server information is available at the WebSphere Application Server InfoCenter:

<http://www.ibm.com/software/webservers/appserv/infocenter.html>

DB2 Universal Database information

The HTML documentation files are available under the `/doc/locale/html` subdirectory, where *locale* is the language code for your locale (for example, *en* for American English). Any documentation that is not available in a national language is shown in English.

For a complete list of the available DB2 documentation, and how to view or print it, refer to the *DB2 Quick Beginnings for UNIX* book. Additional DB2 information is available at the DB2 Technical Library:

<http://www.ibm.com/software/data/db2/library/>

Other IBM publications

You can purchase copies of most IBM publications from your IBM authorized dealer or marketing representative.

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