



IBM Software Group

# WebSphere® Commerce V6

## *Installation and configuration*



@business on demand.

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Welcome to this presentation on WebSphere Commerce. This presentation discusses the steps to install and configure the product.

## Unit objectives

- Installation requirements
- Install and configure the required components of WebSphere Commerce V6
- Start and use the configuration manager client user interface

This presentation discusses what the installation requirements are, how to install and configure the required components of WebSphere Commerce V6.0, and how to start and use the Configuration Manager client user interface

## Hardware requirements - Windows®

- **Minimum requirements:**
  - ▶ **Dedicated Pentium® III 733 MHz IBM-compatible personal computer with:**
    - 2 Gigs of memory per processor
    - 4.5 Gigs of free disk space on your target installation drive
    - 900 MB of free disk space on the drive where system %TMP% variable is defined
    - A CD-ROM drive
    - A graphics-capable monitor with a color depth of at least 256 colors
    - A mouse or other pointing device
    - A local area network (LAN) adapter that is supported by the TCP/IP protocol
- **Production requirements are greater**



The minimum requirements are sufficient to run a minimal configuration, with no optional components installed or enabled. The minimal configuration is typically for development or demonstration purposes. As additional components are configured, the memory and processor resources will need to be increased.

In a production environment, the requirements are greater. Exact sizing requirements will depend on a number of factors. The most important factors are whether additional components or applications will be running on the same machine, multiple instances will be configured, expected number of requests, and expected size of the database

## Software requirements - Windows

- Windows 2000 Server or Advanced Server with Service Pack 4 or higher
- Windows 2003 Enterprise or Standard Editions
- Administrative user with OS specific rights
- Networking adapter driver and TCP/IP protocol
- Internet Explorer 6 with Service Pack 1



Although WebSphere Commerce will run on Windows 2000 Professional Edition and Windows XP Professional Edition, as it does in the development environment, these are not supported for a production server.

WebSphere Commerce V6.0 supports the Microsoft IIS Web server. If you choose to use a different Web server, do not install IIS because it will try to use the same ports as the Web server for WebSphere Commerce. If IIS is already on the system, then it must be stopped during the WebSphere Commerce installation.

Install networking support and the adapter driver for your LAN adapter. Configure this adapter to support the TCP/IP protocol. Server machines should always have a fixed IP address, not a dynamically assigned address. Also define the TCP/IP host name and domain.

Internet Explorer 6.0 with Service Pack 1 must be installed on any machines you will use to access WebSphere Commerce administration tools or documentation. The supported browsers for stores depend on what HTML version, JavaScript, Java applets, and other browser technologies that are used by your Web pages.

## Commerce V6 package – physical media

- Commerce V6 CDs
  - ▶ Disk 1
  - ▶ Disk 2
- WebSphere Application Server V6.0 Network Deployment
  - ▶ Disk 1 – contains IBM HTTP Server and WebSphere Application Server WebServer plug-ins
  - ▶ Disk 2 – contains WebSphere Application Server Custom Installation Package
- DB2<sup>®</sup> Enterprise Server Edition
  - ▶ Server
  - ▶ Administrator Client

Note: WebSphere Commerce Express includes WebSphere Application Server Express and DB2 Express



If you choose a physical media installation, you will see that the WebSphere Commerce package includes a number of CDs. Many of them are not required during installation of the WebSphere Commerce server. They include optional software that would be installed on a separate machine. The minimum requirement is to install a database, such as DB2 and Web server, such as IBM HTTP Server, plus WebSphere Application Server and WebSphere Commerce. Both DB2 and IBM HTTP Server are provided with the product.

The WebSphere Application Server install disks are not the standard WebSphere Application Server images. These are custom to WebSphere Commerce and are a Custom Installation Package (CIP) that includes Refresh Pack 2 and several required iFixes. These maintenance patches are automatically installed and applied to the application server by the Commerce installer. This reduces the time and complexity of the Commerce installation process.

## Commerce v6 package – Electronic media

- Commerce download image
  - ▶ One download that contains disk1 and disk2
- WebSphere Application Server V6 Network Deployment image
  - ▶ One download that contains disk 1 and disk 2
- DB2 ESE image
  - ▶ One download that contains the server and administrator client

Note: WebSphere Commerce Express includes WebSphere Application Server Express and DB2 Express



If a product comes on multiple CDs, they are bundled together into one download. You should unzip all images to one directory, then launch the installer.

The images are packaged with a special directory structure. The installer understands this directory structure and will not prompt for the various CDs.

## Pre-installation checklist - Windows

- Ensure that you are logged in as a Windows user ID that has administrator authority and the correct user rights (see Installation Guide for details)
- Ensure your host name conforms to TCP/IP standards and can be resolved to an IP address
- If IIS is running and you plan to use IBM HTTP Server, stop the IIS service (or disable it)
- If a component of WebSphere Commerce is already installed, stop all services related to that component
- If you are running Lotus® Notes or any other server on your machine, stop the server
- If you have a Web server on your machine using ports 80, 443, 5442, 5443, 8000, 8001, 8002, 8004, 8006, or 8007 disable it or change its ports

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DB2 requires user IDs that will manage or connect to a database, and conform to certain naming requirements, including a length restriction (for some platforms) and not beginning with certain combinations of characters.

TCP/IP standards require host names and domains to begin with a letter and only contain letters, digits or hyphens. Host names should not be case sensitive. Some operating systems and applications do not honor or enforce these rules and allow you to include other characters in host names (for example, an underscore). If a machine's host name does not comply with TCP/IP standards, IBM HTTP Server will not accept connections from that machine.

Stop and disable any programs that could conflict with any of the WebSphere Commerce components such as antivirus software or VPN clients.

## WebSphere Commerce V6 installer

- Installer is updated to support the software that is included in WebSphere Commerce V6.
- Quick install no longer provides option to create Commerce Payment instance.
- Windows user rights for installer user are simplified:
  - ▶ Quick install: No additional user rights needed
  - ▶ Custom install: Only requires “Act as part of the operating system” user right set
- Installer provides a soft stop warning if pre-installed software is not at the supported level

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There are some changes to the WebSphere Commerce V6 installer.

The quick install no longer provides an option to create Commerce Payment instance. The Windows user rights for the installer user are simplified. For example, there are no additional user rights needed for the quick install. Custom install only requires the “act as part of the operating system” user right to be set. The installer provides a soft stop warning if pre-installed software is not at the supported level.



## Installation process - Windows

- Insert WebSphere Commerce V6.0 Disk 1
- Run setup.bat in the root of the CD (if autorun is enabled, it should start automatically)
- InstallShield wizard steps through the installation
  - ▶ Verify prerequisites
  - ▶ Select installation type and components to install
  - ▶ Select database and Web server products
  - ▶ View installation steps and begin installation
  - ▶ Install DB2, HTTP Server, WebSphere Application Server
  - ▶ Install WebSphere Commerce
  - ▶ Perform post-installation setup tasks
- After installation of all components, restart if installed by custom installation

Installation on Windows is a relatively easy process because the InstallShield Wizard steps you through the process and offers choices to specify the configuration required. Run the setup.bat program in the root of the WebSphere Commerce install disk 1 and follow the prompts to perform the installation. Installation on UNIX platforms and iSeries is similar because the InstallShield for Multi-platforms wizard has the same interface on all platforms.

## Installation types

- Quick installation
  - ▶ Installs all of the IBM software stack on a single machine
  - ▶ Instance creation is done at end of installation
  - ▶ Requires clean machine with no preinstalled instances of software
- Custom installation
  - ▶ Allows the installer to choose the software to be installed



There are two types of installation.

Quick Installation, installs all of the IBM software stack ( DB2, IBM HTTP Server, WebSphere Application Server, and WebSphere Commerce) on a single machine. Instance creation is done at the end of installation. Quick installation requires a clean machine with no versions of the software pre-installed. Depending on machine specifications, typically the total time required to complete quick installation is under 2 hours.

Custom Installation allows the installer to choose the software to be installed.

## Installation directories

### Default installation directories on Windows 2000 and Windows 2003

DB2	C:\Program Files\IBM\SQLLIB
HTTP Server	C:\Program Files\IBM HTTP Server
WebSphere Application Server	C:\Program Files\WebSphere\AppServer
WebSphere Commerce	C:\Program Files\WebSphere\CommerceServer60

After installation, you should familiarize yourself with the installation directories for the different products.

It is useful to know where samples and documentation files are found, where useful utilities are located, and where log and data files will be stored.

## Verify installation

- Check the installation log files:
    - ▶ <WC\_HOME>\logs\db2.log
    - ▶ <WebSphere Application Server\_HOME>\logs\\*
    - ▶ <WC\_HOME>\logs\install.log
    - ▶ <WC\_HOME>\instances\    - ▶ <WC\_HOME>\logs\wctrace\*.log
    - ▶ <WC\_HOME>\logs\depcheck\*.log
    - ▶ <WC\_HOME>\logs\wcinstall.log
- Check that DB2 starts correctly

If logs do not appear in the <WC\_HOME>/logs directory, they may be found in the %TMP% directory. The logs in the <WC\_HOME>\instances directory will not exist in a custom installation until you have created an instance of WebSphere Commerce.

After installation, there is no WebSphere Commerce instance so you cannot verify if WebSphere Commerce will actually work correctly, but you should check the installation logs and ensure the related products are installed and can start correctly.

## Installing optional components

- All optional software must be installed separately
- Refer to the Additional Software Guide for instructions on:
  - ▶ WebSphere Commerce Analyzer
  - ▶ IBM Tivoli Directory Server (or other LDAP server)
  - ▶ WebSphere Commerce Recommendation Engine
- Also includes instructions for configuring WebSphere MQ 5.3 and CrossWorlds® InterChange Server 4.2.0

There are several optional products bundled with WebSphere Commerce. These can be installed anytime after WebSphere Commerce has been installed and should normally be installed on separate dedicated machines. Most cannot be installed on the WebSphere Commerce machine due to prerequisite software conflicts.

WebSphere MQ and WebSphere InterChange Server are not included with WebSphere Commerce V6 but can be used for business integration. Lotus Sametime and Lotus Quickplace are no longer bundled with WebSphere Commerce but can be integrated to provide real-time chat support and collaborative workspaces. DB2 Extenders are also no longer bundled with the product but WebSphere Content Discovery can be integrated to provide advanced search capabilities.

## The WebSphere Commerce instance

Each WebSphere Commerce Instance has:

- WebSphere Application Server Profile (created by Configuration Manager)
- WebSphere Application Server administrator console
- IBM HTTP Server httpd.conf in  
    <WC\_Home>/instances/<instance\_name>/httpconf
- IBM HTTP Server logs in  
    <WC\_Home>/instances/<instance\_name>/httplogs
- IBM HTTP Server process
- IBM HTTP Server service on Windows
- Database

Each instance of WebSphere Commerce is associated with a unique WebSphere Application Server profile, has a unique configuration file, host name, and IP address and connects to a unique database. If you are using IBM HTTP Server, you also have a separate IBM HTTP Server configuration file and process.

## Configuration process

- Instance creation requires a number of configuration steps.
  - ▶ Create instance configuration files
  - ▶ Create database, tables, indexes, and so forth
  - ▶ Import bootstrap data
  - ▶ Configure Web server
    - SSL, virtual hosts, path aliases
  - ▶ Configure WebSphere Application Server
    - Virtual host aliases
    - JDBC™ driver and data source
    - Application server and application
- The WebSphere Commerce configuration manager is used to create the instance.

There are four basic components of WebSphere Commerce. Each component needs to be configured correctly during instance configurations. The WebSphere Commerce Configuration Manager is used to configure most of the components automatically. However, some manual steps may be necessary if a non-IBM database or Web server is used.

For the WebSphere Commerce Server, the instance configuration file needs to be created with the appropriate instance specific values. The plug-ins for integrating with Commerce Payments also need to be created

The Web Server must be updated to enable SSL, virtual hosts for secure and non-secure access. You also need to define aliases for accessing WebSphere Commerce Web content and access to the content needs to be restricted.

The WebSphere Commerce database needs to be created and the tables, views, indexes, stored procedures, and other objects must be created. Then the default bootstrap data is loaded into the database.

The WebSphere Application Server, Virtual Hosts, JDBC™ driver, and data source must be created and the Enterprise Application must be deployed.

The most complex and time consuming steps of the process are creating the database and configuring the WebSphere Application Server.

## Start the configuration manager

- Ensure necessary services are started on server
  - ▶ Database server
  - ▶ IBM WebSphere Commerce V6.0 configuration manager
- Start configuration manager client
  - ▶ Start -> Programs -> IBM WebSphere -> WebSphere Commerce Server V6.0 -> Configuration Manager
- Log in to Configuration Manager using user ID **configadmin** and password specified during installation



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The Configuration Manager is a client-server Java application. The server component should be running when you want to perform configuration tasks, but you should stop it when it is not needed to save resources and enhance security. When you start the Configuration Manager server as a service, it listens on port 1099 for a connection. The client component is a password-protected graphical user interface that allows you to create instances and edit configuration settings. It can run on a different machine from the server.

A configuration user, **configadmin**, is predefined but must be manually entered. There is no pre-defined password. A password for the *configadmin* user ID is specified during WebSphere Commerce installation. Password restrictions apply so you must set a password of at least 8 characters that includes at least one digit.



## Instance creation wizard (1 of 3)

- Instance
  - ▶ Enter instance name (must be unique)
  - ▶ Enter merchant key for data encryption
  - ▶ Specify site administrator user ID and password
- Database
  - ▶ Create new or use existing
  - ▶ Enter database administrator name and password
  - ▶ Enter database name (must be unique)
  - ▶ Choose database type (DB2 or Oracle)
  - ▶ Specify if database is remote
- Schema
  - ▶ Enter database user name and password

Configuration Manager is used to create and configure instances. Like many user interfaces, Configuration Manager uses an Explorer like tree structure to show the configuration resources. When an entry is selected, actions can be selected from the Action menu or the right-button context menu.

The wizard has seven pages that must be completed in sequence. Most pages have adequate default values for a single machine configuration.

The **Instance page** defines general instance settings. The Commerce Instance name must be unique and is used in the WebSphere Commerce and WebSphere Application Server configuration settings to identify the instance. The Merchant Key, which is a 16-byte hexadecimal number is used as the encryption key for the instance. The Site Administrator ID for the WebSphere Commerce instance has the highest level of authority within the system and can access all of the functions in every Commerce tool.

The **Database page** configures the database creation. You must first select whether to create a new or use an existing database and specify the database administrator ID and password. The database name must be unique for each instance. The default name is *mall*. If you select *Use Remote Database*, you must enter the information needed to connect to the remote database server, such as the node name and port. During development, multiple databases can be created for an instance to provide different data sets for testing. The Database type must be selected.

The **Schema page** configures the database content. You can set one database as active for each instance.

## Instance creation wizard (2 of 3)

- WebSphere
  - ▶ Enter cell and node name of WebSphere Application Server profile
  - ▶ Enter data source name
  - ▶ Enter JDBC driver location
- Languages
  - ▶ Specify languages for which to load translated data
- Web server
  - ▶ Enter host name (must be unique)
  - ▶ Choose Web server type
  - ▶ Choose server ports
  - ▶ Choose basic or X.509 authentication
- Staging
  - ▶ Enable staging server
  - ▶ Enable workspaces

The **WebSphere page** allows you to specify the names for some of the WebSphere Application Server resources that will be created, such as, the cell name or node name of the WebSphere Application Server profile. You can also specify the name for the data source and the location of the JDBC driver that will be created in the WebSphere Application Server configuration.

The **Languages page** allows additional translated information including country, currency, quantity, and language names, to be loaded into the database when it is created.

The **Web server page** allows you to choose the Web server type and set the host name for WebSphere Commerce. You must select a Web server type. The host name should be the unique fully qualified name, including domain part, to be associated with the e-commerce site. If you implement a multiple machine, clustered environment, this would be the host name of the cluster. This page also allows you to modify the ports for the WebSphere Commerce administrative tools.

The **Staging page** allows you to create the instance as a staging server. If this option is selected, a standard WebSphere Commerce instance will be created that can be used for testing and development. The database is created with additional tables and triggers that track the changes which will need to be propagated to the production system. This is also the page where you can choose to enable the workspaces feature. You must first select the option to enable the staging server, then the option to enable workspaces will become available.

## Instance creation wizard (3 of 3)

- Click **Finish** to begin instance creation:
  - ▶ Instance files are created in directory <WC\_HOME>/instances /<instance>
  - ▶ Database is created and bootstrap data is loaded
  - ▶ Web server definition is created
  - ▶ WebSphere Application Server resources are imported
- Instance creation can take 30 minutes or longer
- After creation
  - ▶ Start the Web server for the WebSphere Commerce instance
  - ▶ Start WebSphere Commerce server



When you click Finish on the Instance Creation Wizard, it will start creating the instance.

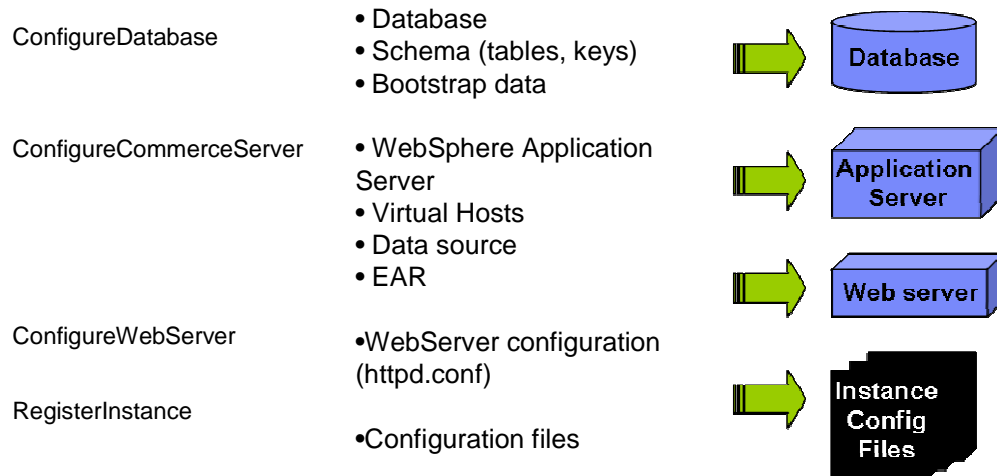
Do the following steps to create the instance:

1. Create the instance directories and the instance configuration file (<instance\_name>.xml)
2. Create the database, tables, views and other structures then load the bootstrap data into the database, including language specific descriptions.
3. Create the WebSphere Application Server profile and start the server.
4. Create and configure the HTTP server instance along with SSL settings, virtual hosts, and aliases.
5. Import the WebSphere Commerce resources into WebSphere Application Server and deploy the WebSphere Commerce Enterprise Application.

The instance creation can take 30 minutes or longer depending on the speed of your processor. The wizard will create a configuration file containing the settings and then run Ant scripts to configure the other components.

## Commerce instance creation

### Ant targets divided into four logical groups



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Ant targets are invoked during instance creation. The targets defined for WebSphere Commerce are divided into several high-level groups that correspond to the environment that are to be configured. The groups are Database, Application Server, Web server and WebSphere Commerce.

After instance creation, you can fully expand the tree and see all of the properties associated with the instance. When you expand the settings for an instance, you will notice many pages of settings that were not displayed by the instance wizard. There are many components that can be enabled and disabled and there are many settings associated with services such as the cache and messaging transports. In past versions, if you changed any settings, or enabled or disabled components, you needed to immediately stop and restart the WebSphere Commerce Server.

In WebSphere Commerce V6, closing the Configuration Manager invokes an ANT script called "UpdateEAR" which will deploy the changed configuration file to the Commerce application server. It is very important to close the Configuration manager tool when you are done making changes. In addition, UpdateEAR can take up to an hour to run. If changes need to be deployed sooner, this update will need to be done manually.

## Verify configuration

Check the instance creation log files to ensure successful database creation and WebSphere Application Server import

- Instance configuration file
  - ▶ <WC\_HOME>\instances\*instance\_name*\xml\*Instance\_name.xml*
- Instance creation logs
  - ▶ <WC\_HOME>\instances <instance>\logs \createInstance\*.log
  - ▶ <WC\_HOME>\instances <instance>\logs \createdb\*.log
- WebSphere Commerce Server log
  - ▶ *WC\_profiledir*\logs \server1\SystemOut.log

You should first check to ensure that the instance configuration file was created. The default instance name is demonstration so the file would be called demo.xml.

There are various log files created during the instance creation. Check the log files to ensure all steps were performed correctly. In particular, check that the database was created and populated correctly and the WebSphere Application Server resources were imported correctly.

The **createInstance\*.log** files will show if the overall WebSphere Commerce configuration process was successful.

The **createdb\*.log** file will show if the database creation failed. This could occur if the incorrect user name or password was entered or there was insufficient disk space to create the database.

The **SystemOut.log** file will show if the WebSphere Commerce Server application was able to start. Errors could occur if the WebSphere Commerce Enterprise Application failed during deployment.

If instance creation fails, you should examine the createInstance\* logs to determine the cause. It may be possible to recover from the failure by cleaning up the failed component creation and manually running the Ant scripts from that point.

## WebSphere Application Server resources

- WebSphere Application Server profile
  - ▶ <instance>
- Application server
  - ▶ server1
- Web server
  - ▶ webserver1
- Enterprise application
  - ▶ WC\_<instance>
- Web Modules
- EJB Modules
- Connector Modules
- JDBC provider
  - ▶ <instance> - WebSphere Commerce JDBC Provider
- WebSphere Commerce DB2 data source <instance>
- Virtual hosts

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During instance creation, the resources for WebSphere Commerce are configured in the WebSphere Application Server configuration and the enterprise application is deployed. A single profile is created with the same name as the WebSphere Commerce instance. The application server associated with the profile is named *server1*. This runs the EJB modules and Web modules.

A JDBC driver and Data Source are also configured to provide database access for entity EJBs. The Data Source is configured with the WebSphere Commerce database name, user ID, and password.

A Web server is now defined in the WebSphere Application Server Administrative Console. This Web server represents an external Web server instance configured to be used with a particular WebSphere Application Server profile. This allows automatic regeneration of the *plugin-cfg.xml* file triggered by changes to the WebSphere Application Server configuration and automatic propagation to a remote Web server. (IBM HTTP Server only)

## WebSphere profiles

- WebSphere files are split into two components.
  - ▶ Shared static files or product binaries
  - ▶ User customizable data files (profiles)
    - User data includes WebSphere configuration, installed applications, resource adapters, properties, log files, and others

<b>WebSphere</b>	<b><u>Profiles</u></b>
<b>Binaries</b>	-profile1
	-profile2
	...

Multiple profiles on a machine share the same underlying set of product binaries. This saves disk space and simplifies application updates. Every server node is represented by a profile. This includes node agents and Deployment Manager. Each profile has its own bin directory. When running *startserver* and *stopserver* make sure that you are running it for the correct server and profile.

## Testing instance creation

- If you can log on to the WebSphere Commerce tools, the configuration was most likely successful.
- Do the following, before you launch the WebSphere Commerce tools
  - ▶ Make sure SSL is enabled in the Web server
  - ▶ Verify your browser settings
- Launch WebSphere Commerce administration console
  - ▶ `https://<hostname>:8002/adminconsole`
  - ▶ Log in as site administrator specified in instance wizard

A good test to verify that the basic WebSphere Commerce server is functioning is to run the WebSphere Commerce administration tools. If you can successfully start the tools, log on and access some of the administration forms, then that means the basic function of the system should be working. An SSL certificate is created and enabled by default during initial instance creation. For production systems, this should be replaced with a certificate issued by a vendor Certificate Authority.

If you have any popup blockers enabled in your browser, the tools will not launch correctly. If the result of the adminconsole link is a 404 error, then check to see if the URL remains as what is shown in the slide. This means that the WebSphere Application Server plug-in of HTTP server is not configured correctly. If there is a redirection, that means that the application server has some internal configuration problems



## Changes to the Commerce instance in V6

- Stand-alone EAR
- Ant targets for configuration
- Clustering improvements
  - ▶ WebSphere Application Server distributes the EAR to all cluster members.
- Follows the WebSphere Application Server Administrative model
  - ▶ Simplify migration to subsequent releases
  - ▶ Better Management using Administrative Console
- Manage the runtime state of the WebSphere Commerce Application and WebSphere Application Server
  - ▶ Set trace specification without restarting the server
  - ▶ Start/Stop WebSphere Commerce using administrative console
  - ▶ Automatic propagation of plugin-cfg.xml file changes for IBM HTTP Server
- Can start/stop each Websphere instance's Web server independently of others

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In the past, the WebSphere Commerce EAR referenced files in the WebSphere Commerce install directory. This is not the standard J2EE packaging. In WebSphere Commerce V6, all files required at runtime are inside the WebSphere Commerce EAR except Store Archives.

WebSphere Commerce configuration is now an Ant based process. Ant targets are provided for manually creating or updating the WebSphere Commerce instance. The Configuration Manager invokes Ant tasks to create the components necessary for a Commerce instance. A WebSphere Commerce instance can also be created from the command line using provided Apache Ant and JACL scripts to create the objects required for a WebSphere Commerce instance. Ant is an open-source Java and XML based build tool. XML files define targets which run various Ant tasks. JACL is a Java implementation of TCL. The target UpdateEAR is provided for manual configuration changes. This is invoked automatically when making changes using the Configuration Manager.

In previous releases of WebSphere Commerce, if you had a clustered environment, you would need to install WebSphere Commerce on each node of your cluster. In WebSphere Commerce V6, this is no longer required. All assets required at runtime are packaged in the Websphere Commerce EAR file. WebSphere Application Server will distribute this EAR file to all cluster members. Fewer steps are required to cluster WebSphere Commerce and clustering the WebSphere Commerce Application can be automated by tools such as Tivoli Configuration Manager or Tivoli Provisioning Manager.

## Instance configuration file

- `<WC_Home>/instances/inst/xml/<instance_name>.xml`
  - ▶ This is the master configuration file for your instance
  - ▶ This file is deployed to the EAR when changes occur
- `<WC_EAR>/xml/config/wc-server.xml`
  - ▶ This file is used by the runtime

In WebSphere Commerce V6, the instance configuration file in your WebSphere Commerce instances directory is considered to be the master configuration file. This is the file that is updated when changes are made using the Configuration Manager.

A copy of this file, called `wc-server.xml`, is found in the WebSphere Application Server enterprise application home directory. This file will be automatically updated when changes are made to the WebSphere Commerce configuration using Configuration Manager.

## Deleting a Websphere Commerce instance

- Run command as non-root user:
  - ▶ `config_ant.sh -DinstanceName=value RemoveInstance`
- The following configurations are removed:
  - ▶ Remove instance-related configurations from WebSphere Application Server profile
  - ▶ Remove Web server configuration
  - ▶ Unregister instance from Configuration Manager
  - ▶ Delete `<WC_HOME>/instances/<instance>` directory
- The following objects are not removed:
  - ▶ Database
  - ▶ WebSphere Application Server profile for the instance

When you are deleting a Websphere Commerce instance, all configurations related to the instance are removed from the WebSphere Application Server profile. Web server configuration is removed. The instance directory is removed and the instance is unregistered from the Configuration Manager. The database and WebSphere Application Server profile for the instance are not removed.

## Uninstalling

- WebSphere Commerce components must be uninstalled before uninstalling WebSphere Application Server
  - ▶ Stop WebSphere Commerce and Payment instances
  - ▶ Stop any WebSphere Commerce, WebSphere Application Server, DB2 processes
  - ▶ Delete any existing Commerce and Payment instance
  - ▶ Start Commerce uninstall process
  - ▶ Uninstall WebSphere Application Server, then IBM HTTP Server
  - ▶ Uninstall DB2
- Cleanup of directories, configuration files and the Windows registry may be needed after uninstallation
- Follow the instructions in the appendix of the installation guide carefully

The product components should be uninstalled in the reverse order that they were installed to ensure all components are removed correctly.

If you need to uninstall WebSphere Commerce, you should first remove the deployed application from WebSphere Application Server and drop the instance, and its database.

## Recommended courses

Formal education exists for this product and you can find information on recommended training paths and certification tests at:

- **Application developer for WebSphere Commerce V6**  
<http://www-304.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=a0011792>
- **Business user for WebSphere Commerce V6**  
<http://www-304.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=a0011793>
- **System administrator for WebSphere Commerce V6**  
<http://www-304.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=a0011794>



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