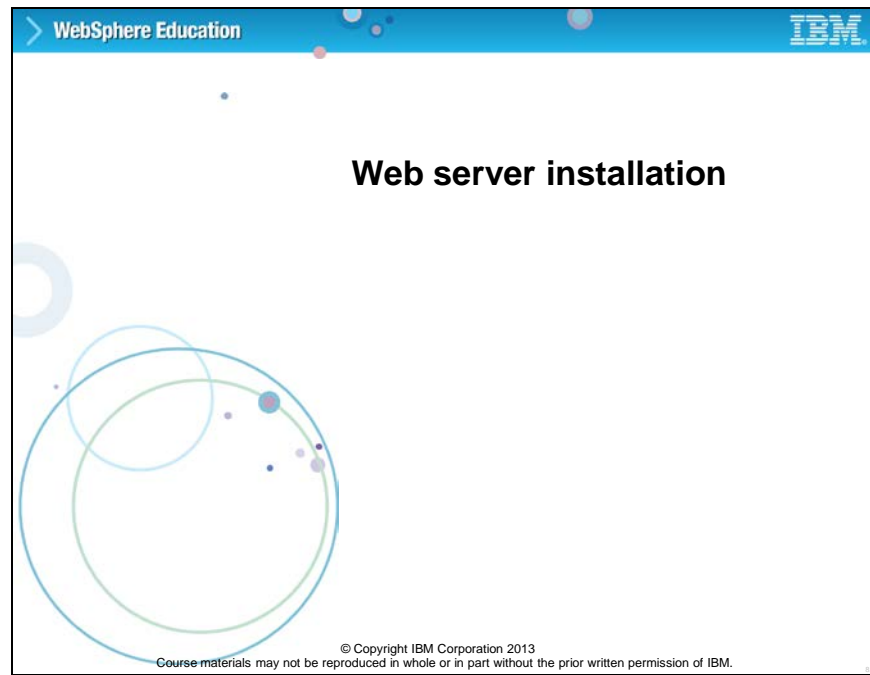


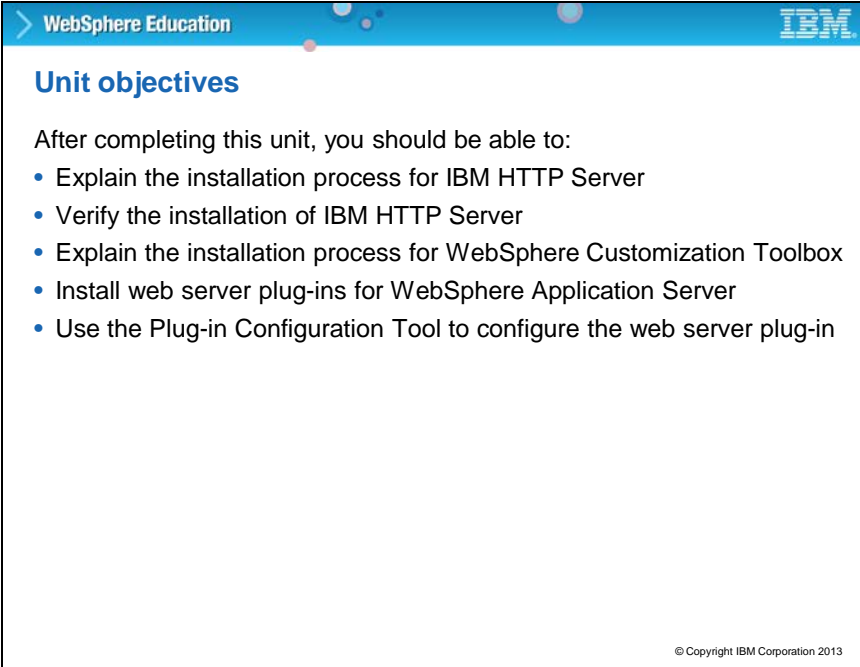
Slide 1



### **Web server installation**

This unit covers the installation and configuration of a web server.

Slide 2



The slide is titled 'Unit objectives' and is part of a 'WebSphere Education' presentation, as indicated by the header. It lists five objectives for completing the unit. The IBM logo is in the top right corner, and a copyright notice for 2013 is in the bottom right corner.

WebSphere Education

**Unit objectives**

After completing this unit, you should be able to:

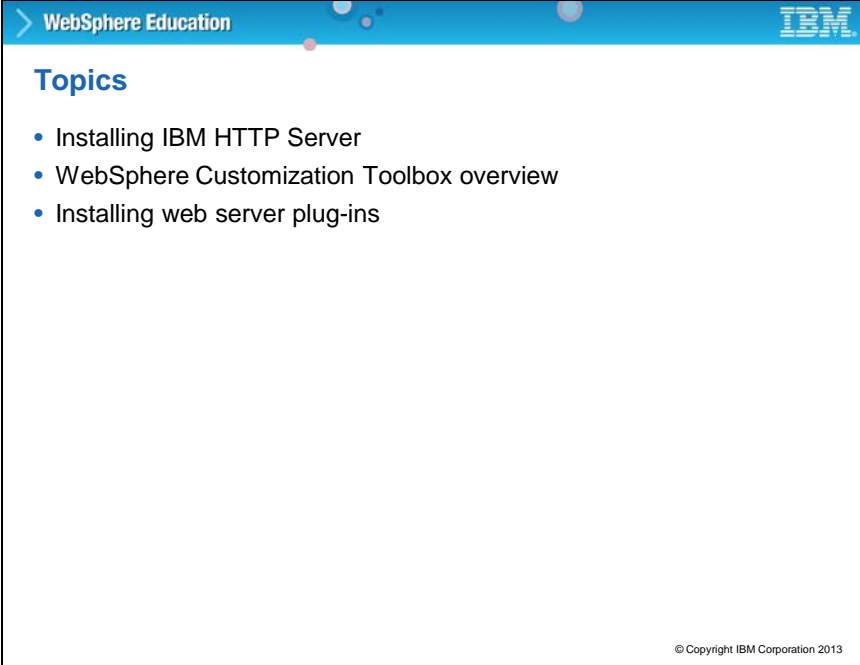
- Explain the installation process for IBM HTTP Server
- Verify the installation of IBM HTTP Server
- Explain the installation process for WebSphere Customization Toolbox
- Install web server plug-ins for WebSphere Application Server
- Use the Plug-in Configuration Tool to configure the web server plug-in

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After completing this unit, you should be able to:

- Explain the installation process for IBM HTTP Server
- Verify the installation of IBM HTTP Server
- Explain the installation process for WebSphere Customization Toolbox
- Install web server plug-ins for WebSphere Application Server
- Use the Plug-ins Configuration Tool to configure the web server plug-in

Slide 3

A presentation slide with a blue header bar. The header bar contains a right-pointing arrow, the text 'WebSphere Education', and the IBM logo. The main content area is white and contains the title 'Topics' in blue, followed by a bulleted list of three items. The footer of the slide is white and contains a small copyright notice.

> WebSphere Education IBM

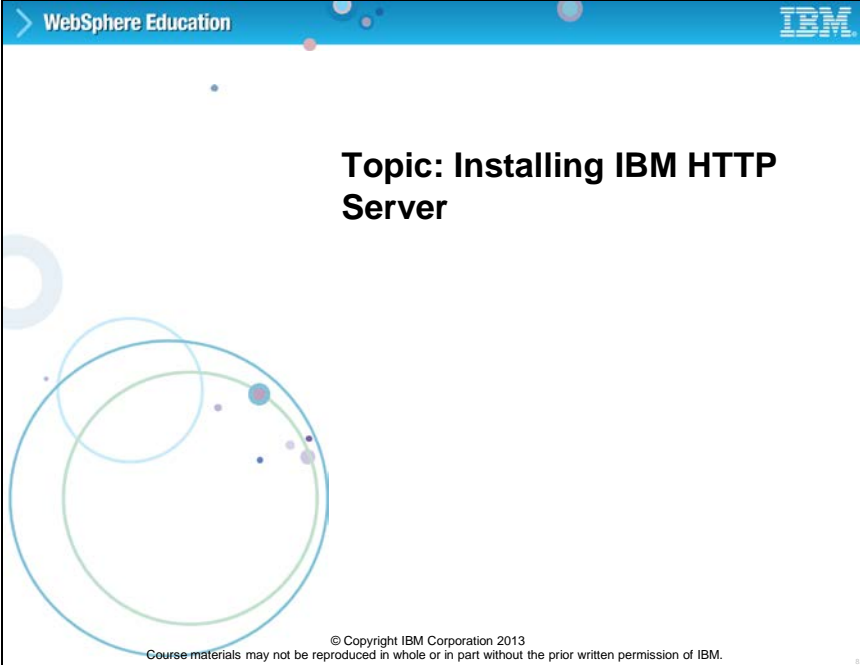
### Topics

- Installing IBM HTTP Server
- WebSphere Customization Toolbox overview
- Installing web server plug-ins

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This unit includes three topics.


Slide 4



The slide features a blue header bar with the text 'WebSphere Education' on the left and the 'IBM' logo on the right. The main content area is white with the title 'Topic: Installing IBM HTTP Server' in bold black text. In the bottom left corner, there is a decorative graphic consisting of several overlapping circles in light blue and green, with small colored dots scattered around them. At the bottom center, there is a small copyright notice: '© Copyright IBM Corporation 2013. Course materials may not be reproduced in whole or in part without the prior written permission of IBM.'


Topic: Installing IBM HTTP Server. In this topic, the installation process for the IBM HTTP Server is described.

Slide 5

WebSphere Education 

### Web servers for WebSphere Application Server

- Supported web servers include:
  - Apache HTTP Server
  - Lotus Domino Web Server
  - IBM HTTP Server
  - Microsoft Internet Information Services
  - Sun Java System Web Server
- For the latest specifics on versions and patch levels, check:
  - <http://www-01.ibm.com/support/docview.wss?uid=swg27038218>



Browser traffic

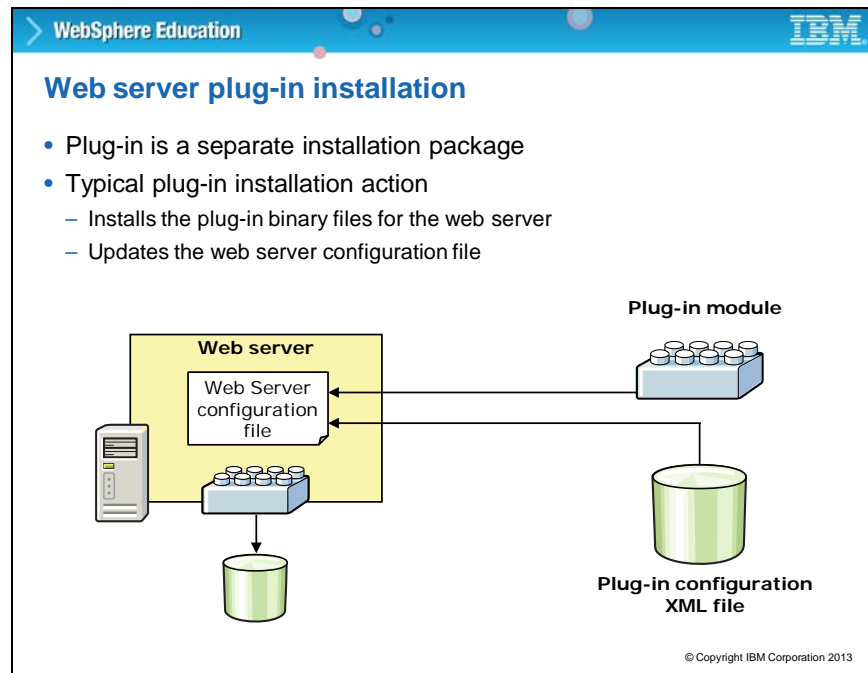
Web server

WebSphere Application Server

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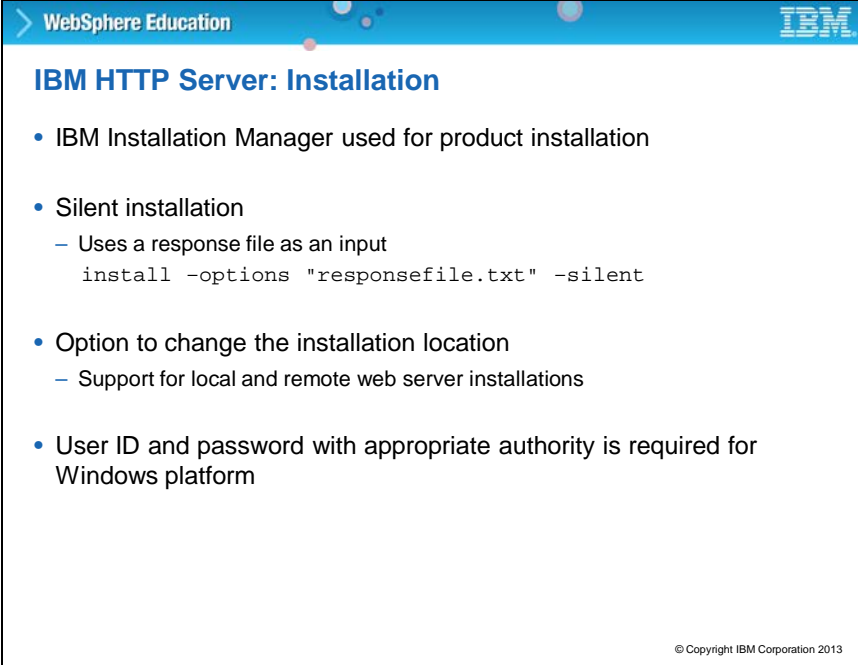
This slide lists the supported web servers. Visit the support site for the latest specification on version and patch levels for your web server.

Slide 6



WebSphere Application Server provides a binary plug-in for the web server that you must install. The purpose of the binary plug-in is to provide the communication protocol between the web server and the application server. When you create a profile that you want to use with a web server, you must install the web server plug-in. Use the web server plug-in configuration tool to configure both the web server and the application server. If the web server is not already installed, you can still install the web server plug-in for future use.

Slide 7



The slide is titled "IBM HTTP Server: Installation" and is part of a "WebSphere Education" presentation. It lists four main points: 1. IBM Installation Manager used for product installation. 2. Silent installation, which uses a response file as input, with the command `install -options "responsefile.txt" -silent`. 3. Option to change the installation location, supporting both local and remote web server installations. 4. User ID and password with appropriate authority is required for the Windows platform. The IBM logo is in the top right corner, and the copyright notice "© Copyright IBM Corporation 2013" is in the bottom right corner.

WebSphere Education

## IBM HTTP Server: Installation

- IBM Installation Manager used for product installation
- Silent installation
  - Uses a response file as an input  
`install -options "responsefile.txt" -silent`
- Option to change the installation location
  - Support for local and remote web server installations
- User ID and password with appropriate authority is required for Windows platform

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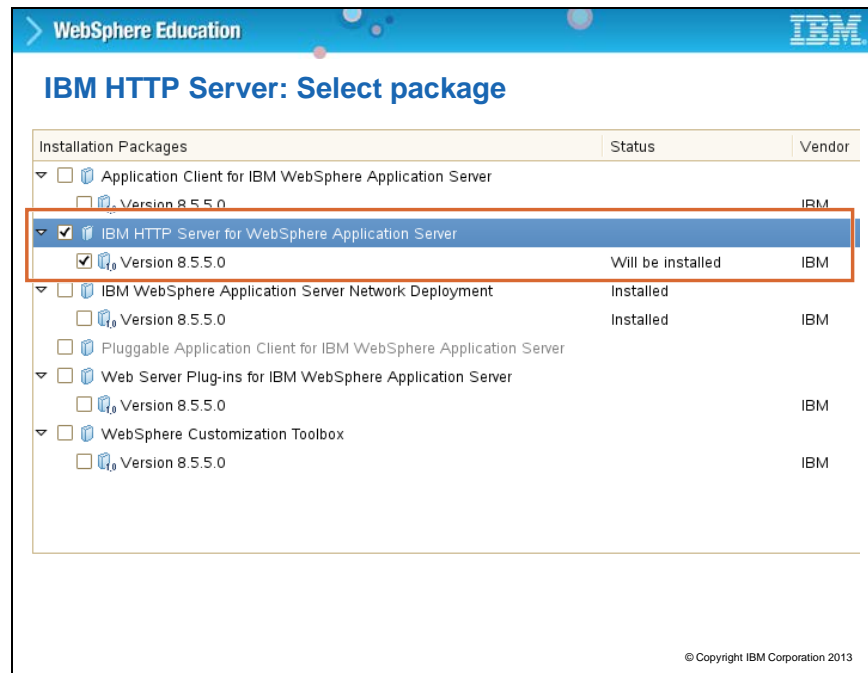
The IBM Installation Manager is used to install the IBM HTTP Server. To install IBM HTTP Server, the Installation Manager must be configured to connect to the repository that contains the HTTP Server installation package.

IBM HTTP Server can be installed by using a GUI, silently by using response files, or by using the command line. If you are going to install the IBM HTTP Server silently, you create a response file and use the command syntax that is on the slide, specifying the name of the response file.

During installation, you have the option of changing the installation location. Choose a file system that is accessible by the Installation Manager. The web server can be installed locally or on a remote system.

On a Windows platform, verify that the user ID has the appropriate access to the file system that contains the IBM HTTP Server installation files and has permissions to start and stop services. In this course, you use the GUI to install IBM HTTP Server.

## Slide 8

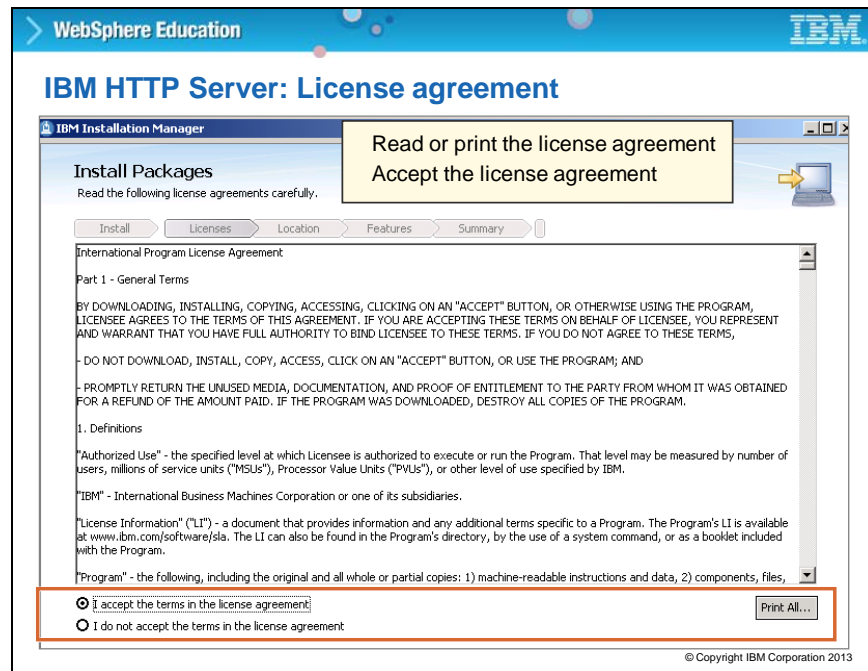


To install IBM HTTP Server by using the GUI, start the Installation Manager. From the main page, select the **Install** option. The Installation Manager searches its defined repositories for available packages. If the IBM HTTP Server package is found in one of the repositories, then it is listed on the Install Packages page that is on the slide.

Select the IBM HTTP Server and the appropriate version. If you already have the IBM HTTP Server installed on your system, a message displays indicating that IBM HTTP Server is already installed. To create another installation of IBM HTTP Server in another location, click **Continue** and click **Next**.



Slide 9



Read and accept the license agreement to continue with the installation.

## Slide 10

**WebSphere Education** **IBM**

## IBM HTTP Server: Installation directory and package group

**Install Packages**  
A package group is a location that contains one or more packages. Some compatible packages can be installed into a common package group and will share a common user interface. Select an existing package group or create a new one.

Install > Licenses > **Location** > Features > Summary > Done

☐ Use the existing package group  
☒ Create a new package group

| Package Group Name   | Installation Directory |
|----------------------|------------------------|
| IBM HTTP Server V8.5 | /opt/IBM/HTTPServer    |

Package Group Name: IBM HTTP Server V8.5  
 Installation Directory: /opt/IBM/HTTPServer

**Details**  
 Shared Resources Directory: /opt/IBM/IMShared

**Disk Space Information**

| Volume | Available Space |
|--------|-----------------|
| /      | 18.29 GB        |

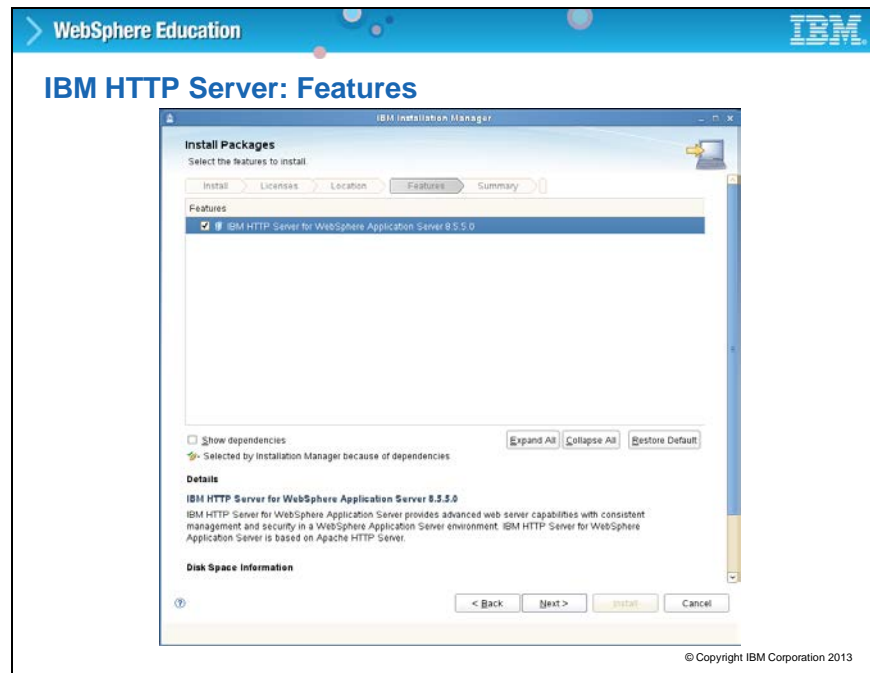
Create a package group  
 Specify the directory location for the product installation

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As explained in a previous unit, package groups can contain one or more packages. Here, the option to **Create a new package group** is selected. The package group contains the IBM HTTP Server package.

Next, specify the installation root directory for the product binary files. The following restrictions apply when specifying an installation directory:

- Do not use symbolic links as the destination directory; they are not supported.
- Do not use spaces in the name of the installation directory; they are not supported.
- Do not use a semicolon in the directory name. IBM HTTP Server cannot install properly if the target directory includes a semicolon.

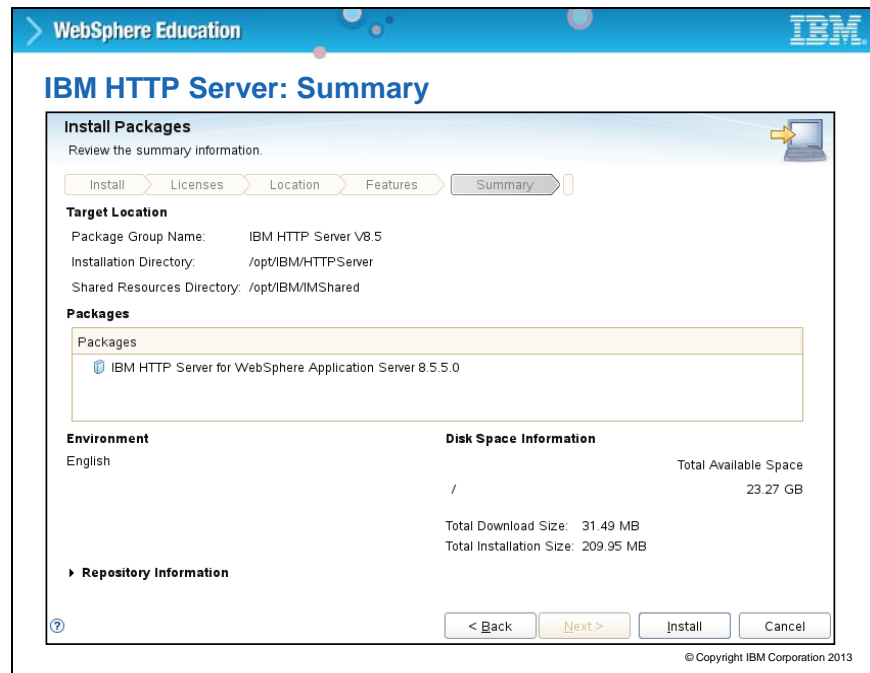


Select any available features to install and click **Next** to continue with the installation.

Slide 12

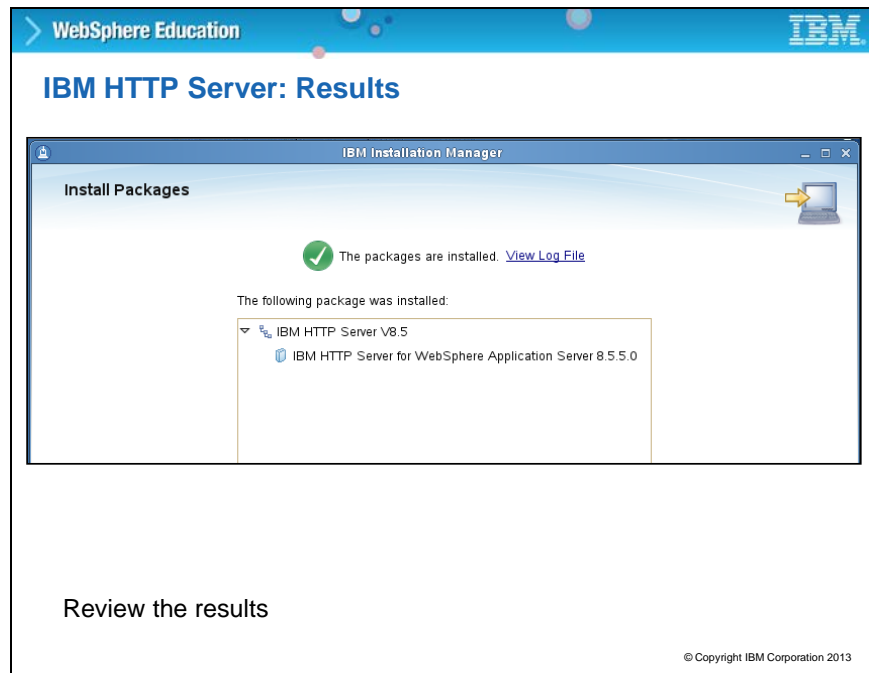
The screenshot shows the 'IBM HTTP Server: Port values' configuration window. At the top, there's a blue header with 'WebSphere Education' and the IBM logo. Below the header, the title 'IBM HTTP Server: Port values' is displayed. The main content area is titled 'Install Packages' and contains a sub-header 'Fill in the configurations for the packages.' Below this, there are five tabs: 'Install', 'Licenses', 'Location', 'Features', and 'Summary'. The 'Features' tab is currently selected. On the left side of the 'Features' tab, there is a tree view with 'IBM HTTP Server for WebSphere' expanded, showing 'Web Server Configuration' as a sub-item. The right side of the window is titled 'Configuration for IBM HTTP Server for WebSphere' and contains the text 'Web Server Configuration'. Below this, there is a description: 'Specify a port number for IBM HTTP Server to communicate. If the default port is already in use, then change to another port number. If the port is not available, the Web Server Configuration will fail.' At the bottom of this section, there is a text input field labeled 'HTTP port:' with the value '80' entered. Below the input field, there is a button labeled 'Verify the assigned port values'. At the bottom right of the window, there is a small copyright notice: '© Copyright IBM Corporation 2013'.

On the Features page, you configure the TCP port that the IBM HTTP Server uses to communicate. Port 80 is typically the default port used. If port 80 is already in use, then change to another port that is available.



Review the summary information and click **Install**.

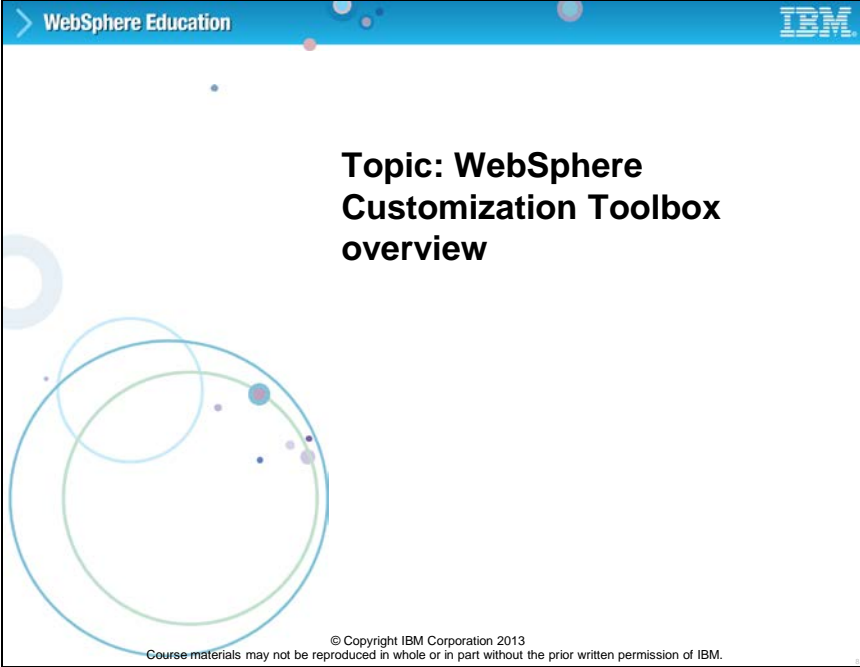
Slide 14



If the installation is successful, the Installation Manager displays a message that indicates the installation is successful. If the installation is not successful, click **View Log File** to troubleshoot the problem. The Installation Manager might also display important post-installation instructions. In this case, it is always a good idea to view the log file.

Click **Finish** and then click **File > Exit** to close the Installation Manager.

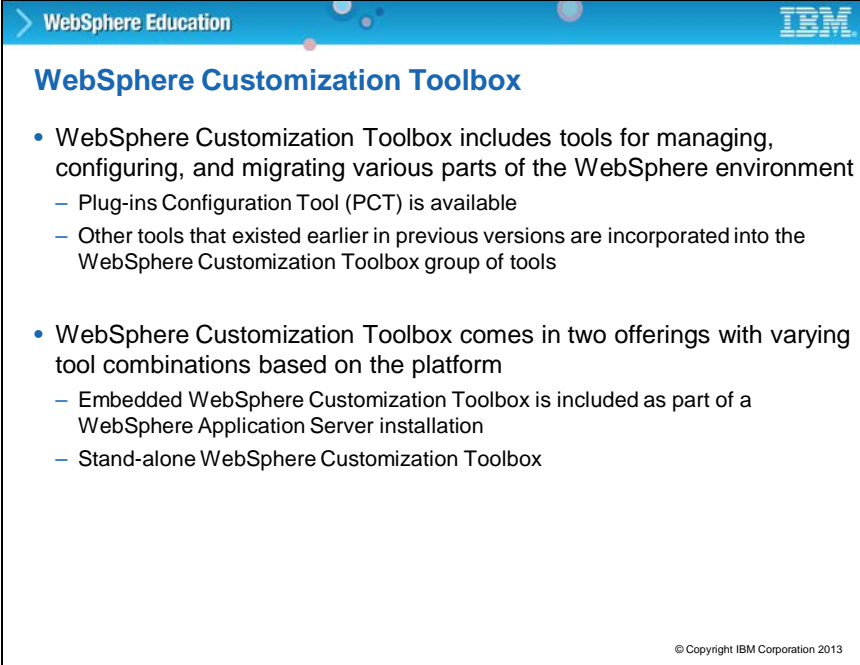
Slide 15



The slide features a blue header bar with the text 'WebSphere Education' on the left and the IBM logo on the right. The main content area is white with the title 'Topic: WebSphere Customization Toolbox overview' in bold black text. To the left of the title are several overlapping circles in light blue and green, with small colored dots scattered around them. At the bottom of the slide, there is a small copyright notice: '© Copyright IBM Corporation 2013. Course materials may not be reproduced in whole or in part without the prior written permission of IBM.'

Topic: WebSphere Customization Toolbox overview. This topic explains the differences between the WebSphere Customization Toolkit that is embedded with the WebSphere Application Server installation and the stand-alone version.

Slide 16



The slide is titled "WebSphere Education" in the top left corner and features the IBM logo in the top right corner. The main title is "WebSphere Customization Toolbox". Below the title, there is a bulleted list of features:

- WebSphere Customization Toolbox includes tools for managing, configuring, and migrating various parts of the WebSphere environment
  - Plug-ins Configuration Tool (PCT) is available
  - Other tools that existed earlier in previous versions are incorporated into the WebSphere Customization Toolbox group of tools
- WebSphere Customization Toolbox comes in two offerings with varying tool combinations based on the platform
  - Embedded WebSphere Customization Toolbox is included as part of a WebSphere Application Server installation
  - Stand-alone WebSphere Customization Toolbox

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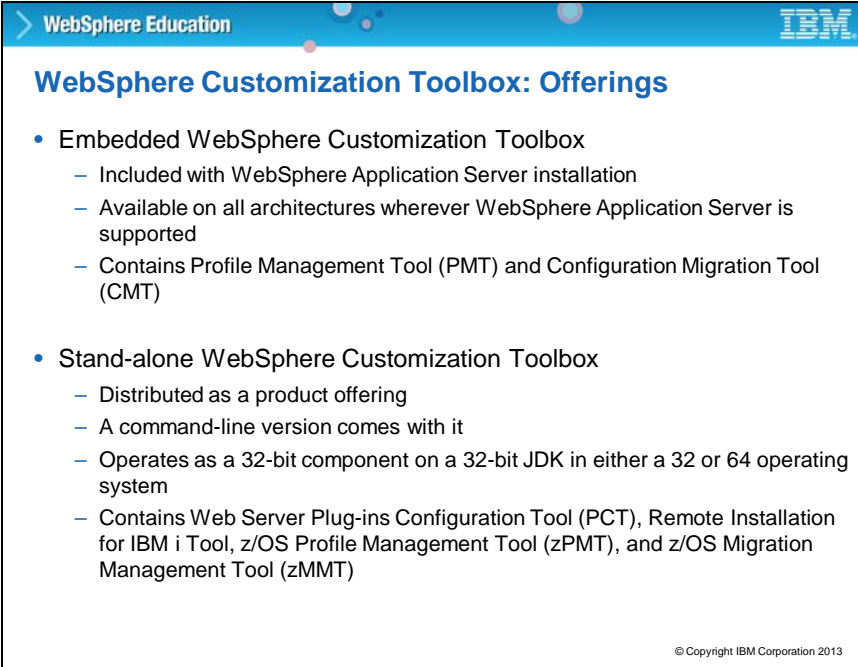
The WebSphere Customization Toolbox (WCT) includes tools for managing, configuring, and migrating parts of your WebSphere Application Server environment. WebSphere Customization Toolbox is more frequently called WCT.

WebSphere Customization Toolbox existed in version 7 but with limited capabilities, namely for configuring z/OS application servers. All tools that are contained in WebSphere Customization Toolbox of version 7 are carried forward; also, a tool, the Plug-ins Configuration Tool (PCT), is offered.

WebSphere Customization Toolbox is delivered as an independent stand-alone offering in addition to the embedded version. The tools that are wrapped into the WebSphere Customization Toolbox framework are different between the stand-alone and embedded versions.



Slide 17



The slide is titled "WebSphere Customization Toolbox: Offerings" and is part of a "WebSphere Education" presentation, as indicated by the header. It features a blue header bar with the "WebSphere Education" text and the IBM logo. The main content is a bulleted list describing two types of offerings: an embedded version and a stand-alone version. The embedded version is included with the WebSphere Application Server installation and contains the Profile Management Tool (PMT) and Configuration Migration Tool (CMT). The stand-alone version is distributed as a product offering, includes a command-line version, operates as a 32-bit component on a 32-bit JDK, and contains the Web Server Plug-ins Configuration Tool (PCT), Remote Installation for IBM i Tool, z/OS Profile Management Tool (zPMT), and z/OS Migration Management Tool (zMMT). A small copyright notice "© Copyright IBM Corporation 2013" is located at the bottom right of the slide.

WebSphere Education

### WebSphere Customization Toolbox: Offerings

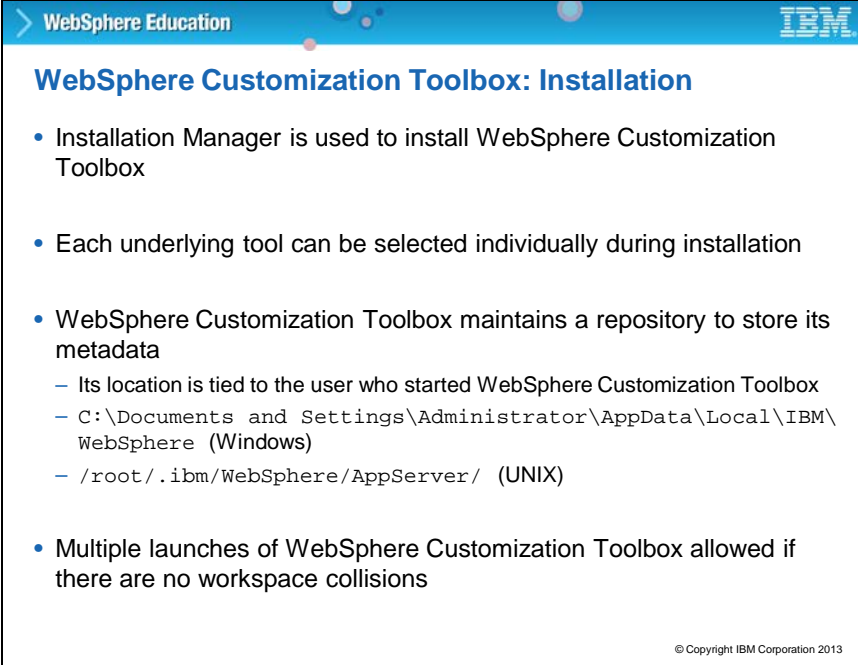
- Embedded WebSphere Customization Toolbox
  - Included with WebSphere Application Server installation
  - Available on all architectures wherever WebSphere Application Server is supported
  - Contains Profile Management Tool (PMT) and Configuration Migration Tool (CMT)
- Stand-alone WebSphere Customization Toolbox
  - Distributed as a product offering
  - A command-line version comes with it
  - Operates as a 32-bit component on a 32-bit JDK in either a 32 or 64 operating system
  - Contains Web Server Plug-ins Configuration Tool (PCT), Remote Installation for IBM i Tool, z/OS Profile Management Tool (zPMT), and z/OS Migration Management Tool (zMMT)

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The embedded WebSphere Customization Toolbox is included with the installation of WebSphere Application Server and includes the Profile Management Tool (PMT) and Configuration Migration Tool (CMT). The embedded version is started from the command line by using the WCT command or it can be started from the first steps program.

The stand-alone version is a separate product installation. It provides you with tools to customize the web server plug-in, remote installation for IBM i Tool, z/OS Profile Management Tool, and the z/OS Migration Management Tool (zMMT). The stand-alone version can be started by using the WCT command.

Slide 18



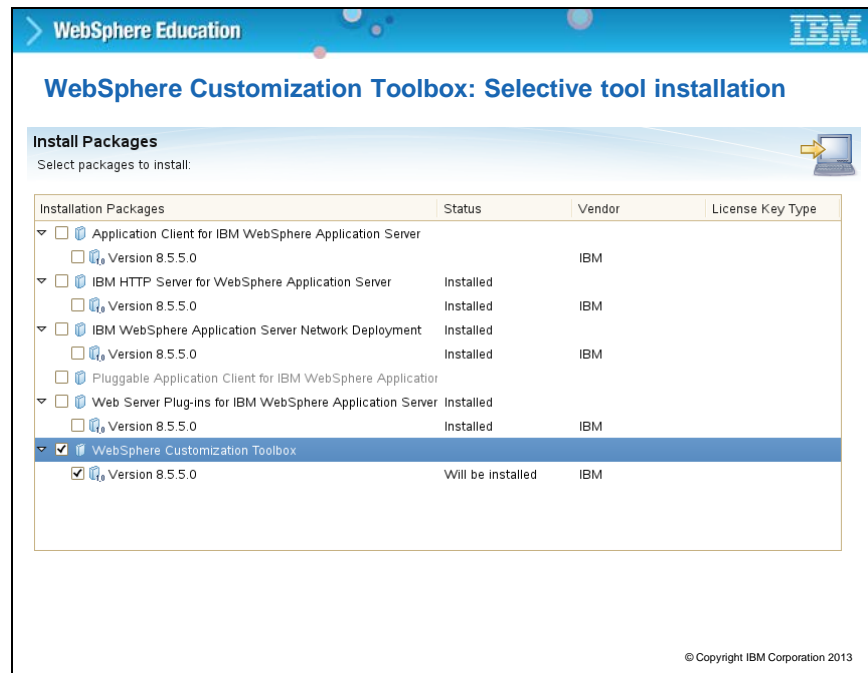
The slide is titled "WebSphere Customization Toolbox: Installation" and is part of a "WebSphere Education" presentation. It contains a bulleted list of installation details. The list includes: "Installation Manager is used to install WebSphere Customization Toolbox", "Each underlying tool can be selected individually during installation", "WebSphere Customization Toolbox maintains a repository to store its metadata" (with sub-points for Windows and UNIX locations), and "Multiple launches of WebSphere Customization Toolbox allowed if there are no workspace collisions". A copyright notice for IBM Corporation 2013 is at the bottom right.

- Installation Manager is used to install WebSphere Customization Toolbox
- Each underlying tool can be selected individually during installation
- WebSphere Customization Toolbox maintains a repository to store its metadata
  - Its location is tied to the user who started WebSphere Customization Toolbox
  - C:\Documents and Settings\Administrator\AppData\Local\IBM\WebSphere (Windows)
  - /root/.ibm/WebSphere/AppServer/ (UNIX)
- Multiple launches of WebSphere Customization Toolbox allowed if there are no workspace collisions

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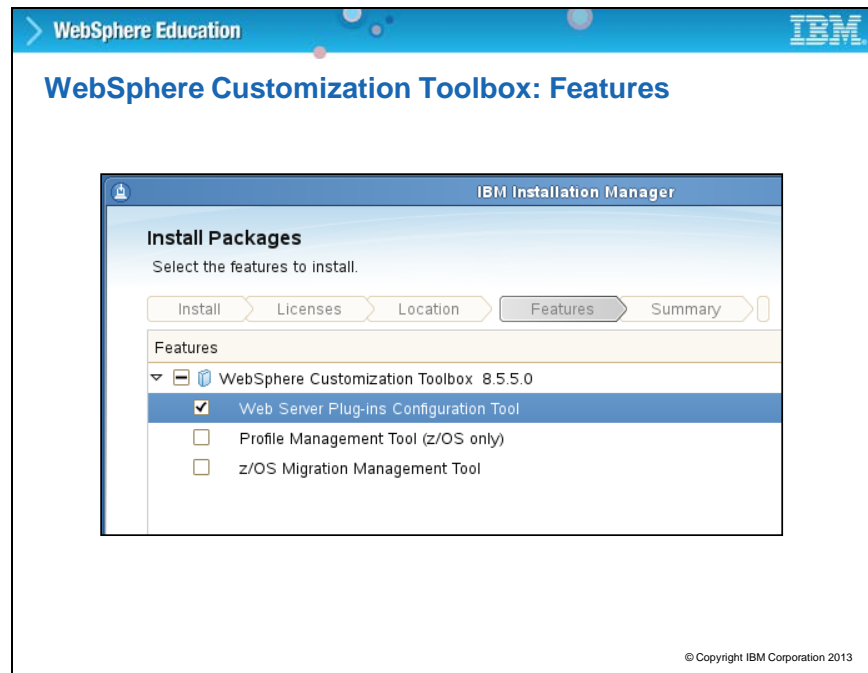
The stand-alone WebSphere Customization Toolbox is installed by using the Installation Manager. During the installation process, you are prompted to select the tools that you want included. WebSphere Customization Toolbox maintains a repository to store its metadata. The location of this repository depends on the user ID that started the installation of WebSphere Customization Toolbox. You can have multiple copies of WebSphere Customization Toolbox opened if you select a different workspace. A workspace is a directory on the file system that is used to store metadata about each instance of WebSphere Customization Toolbox.

Slide 19



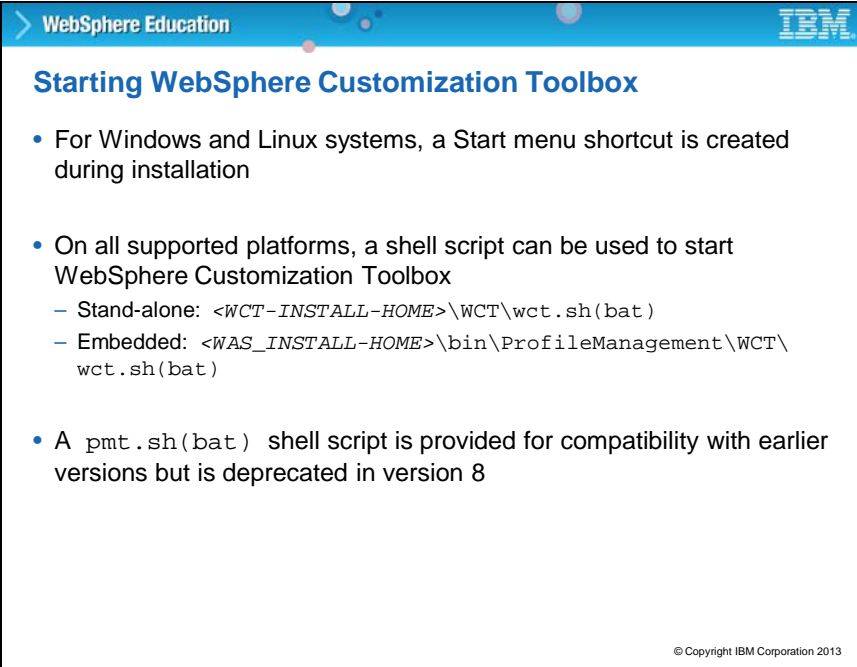
This screen capture illustrates the choices for possible WebSphere Customization Toolbox tool selections during installation.

To install the stand-alone WebSphere Customization Toolbox, start the Installation Manager and select the **Install** option from the main page. The Installation Manager searches the configured repositories and displays the available installation packages. Select the **WebSphere Customization Toolbox** and its appropriate version. Click **Next** to continue.



This screen capture illustrates the choices for possible WebSphere Customization Toolbox tool feature selections during modification. You are prompted to select which features you want to include in WebSphere Customization Toolbox. You have the following options:

- The **Web Server plug-in Configuration Tool** allows you to configure your web server plug-ins on distributed and Windows operating systems.
- The **Profile Management Tool (z/OS only)** allows you to build and process definitions for creating WebSphere Application Server profiles. Processing these definitions results in customization jobs that you can run on the z/OS system. You can upload directly to the z/OS system as you process a definition, or you can save it locally and upload it to the z/OS system later.
- The **z/OS Migration Management Tool** allows you to build and process definitions for porting WebSphere Application Server profiles.



The slide is titled "Starting WebSphere Customization Toolbox" and is part of a "WebSphere Education" presentation, as indicated by the header. It contains three bullet points detailing how to start the toolbox on different systems. The first bullet point states that a Start menu shortcut is created during installation for Windows and Linux. The second bullet point explains that a shell script can be used on all supported platforms to start the toolbox, with sub-points for stand-alone and embedded installations. The stand-alone command is `<WCT-INSTALL-HOME>\WCT\wct.sh(bat)`, and the embedded command is `<WAS_INSTALL-HOME>\bin\ProfileManagement\WCT\wct.sh(bat)`. The third bullet point notes that a `pmt.sh(bat)` script is provided for compatibility but is deprecated in version 8. The IBM logo is in the top right corner, and the copyright notice "© Copyright IBM Corporation 2013" is at the bottom right.

- For Windows and Linux systems, a Start menu shortcut is created during installation
- On all supported platforms, a shell script can be used to start WebSphere Customization Toolbox
  - Stand-alone: `<WCT-INSTALL-HOME>\WCT\wct.sh(bat)`
  - Embedded: `<WAS_INSTALL-HOME>\bin\ProfileManagement\WCT\wct.sh(bat)`
- A `pmt.sh(bat)` shell script is provided for compatibility with earlier versions but is deprecated in version 8

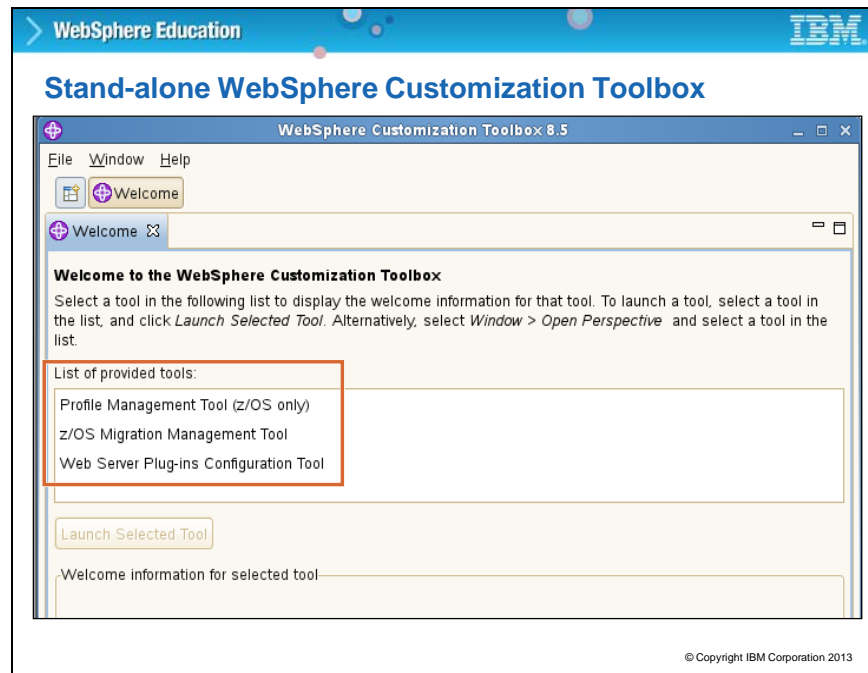
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Starting the embedded WebSphere Customization Toolbox gives you the option of using the Profile Management Tool or the Configuration Migration Tool.

Starting the stand-alone WebSphere Customization Toolbox gives you options of using the Profile Management Tool (z/OS) only, z/OS Migration Management Tool, or the Web Server plug-ins Configuration Tool.

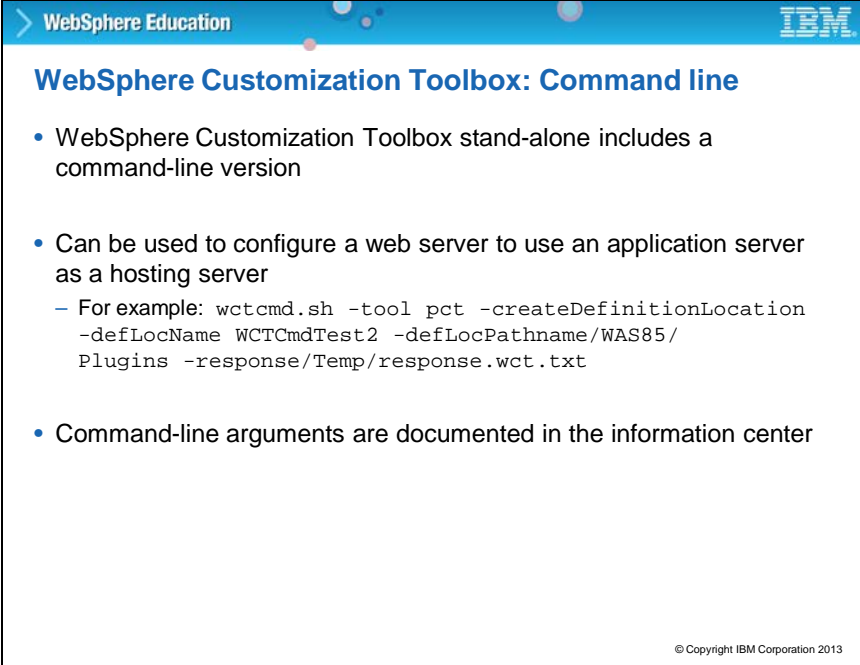


This screen capture shows the embedded WebSphere Customization Toolbox. The two included tools are listed. Select the appropriate tool and click **Launch Selected Tool** to begin working with that tool.



This screen capture shows the stand-alone WebSphere Customization Toolbox. All three tools are installed in the WebSphere Customization Toolbox and are listed in the screen capture. Select the appropriate tool and click **Launch Selected Tool** to begin working with that tool.

Slide 24



The slide is titled "WebSphere Education" in the top left corner and features the IBM logo in the top right corner. The main title is "WebSphere Customization Toolbox: Command line". It contains three bullet points: the first states that the stand-alone toolbox includes a command-line version; the second states it can be used to configure a web server to use an application server as a hosting server, with an example command provided; the third states that command-line arguments are documented in the information center. The example command is: `wctcmd.sh -tool pct -createDefinitionLocation -defLocName WCTCmdTest2 -defLocPathname/WAS85/Plugins -response/Temp/response.wct.txt`. A copyright notice "© Copyright IBM Corporation 2013" is located in the bottom right corner of the slide.

WebSphere Education

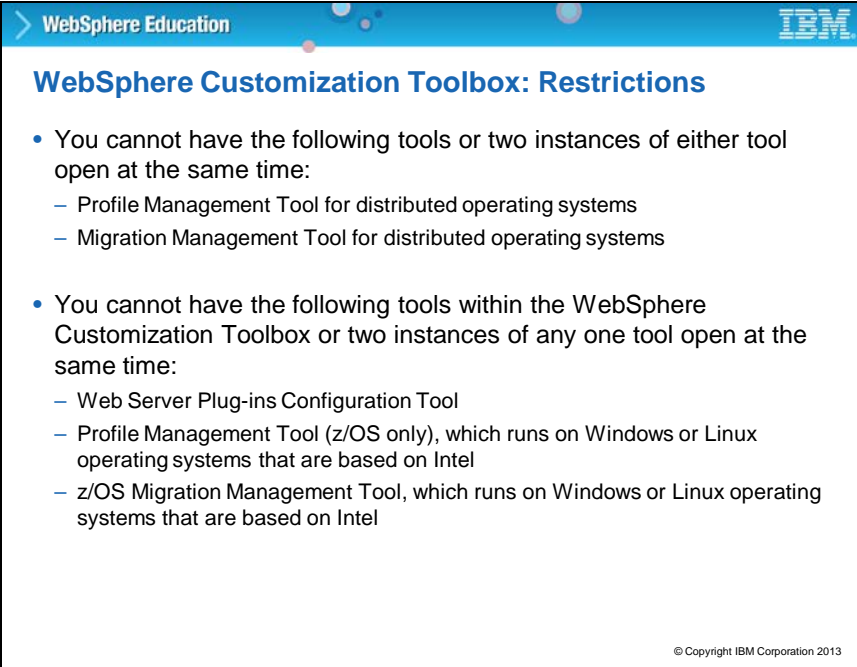
### WebSphere Customization Toolbox: Command line

- WebSphere Customization Toolbox stand-alone includes a command-line version
- Can be used to configure a web server to use an application server as a hosting server
  - For example: `wctcmd.sh -tool pct -createDefinitionLocation -defLocName WCTCmdTest2 -defLocPathname/WAS85/Plugins -response/Temp/response.wct.txt`
- Command-line arguments are documented in the information center

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The stand-alone WebSphere Customization Toolbox includes a command-line version. To start the stand-alone WebSphere Customization Toolbox, you can use the syntax that is displayed on the slide. You can find more information about the command-line version in the information center.





The slide is titled "WebSphere Customization Toolbox: Restrictions" and is part of a "WebSphere Education" presentation. It contains two main bullet points detailing restrictions on tool usage. The first bullet point states that you cannot have two instances of either the Profile Management Tool or the Migration Management Tool for distributed operating systems open at the same time. The second bullet point states that you cannot have two instances of any one tool open at the same time within the WebSphere Customization Toolbox. The tools listed are the Web Server Plug-ins Configuration Tool, the Profile Management Tool (z/OS only), and the z/OS Migration Management Tool. The slide also includes the IBM logo and a copyright notice for IBM Corporation 2013.

WebSphere Education

### WebSphere Customization Toolbox: Restrictions

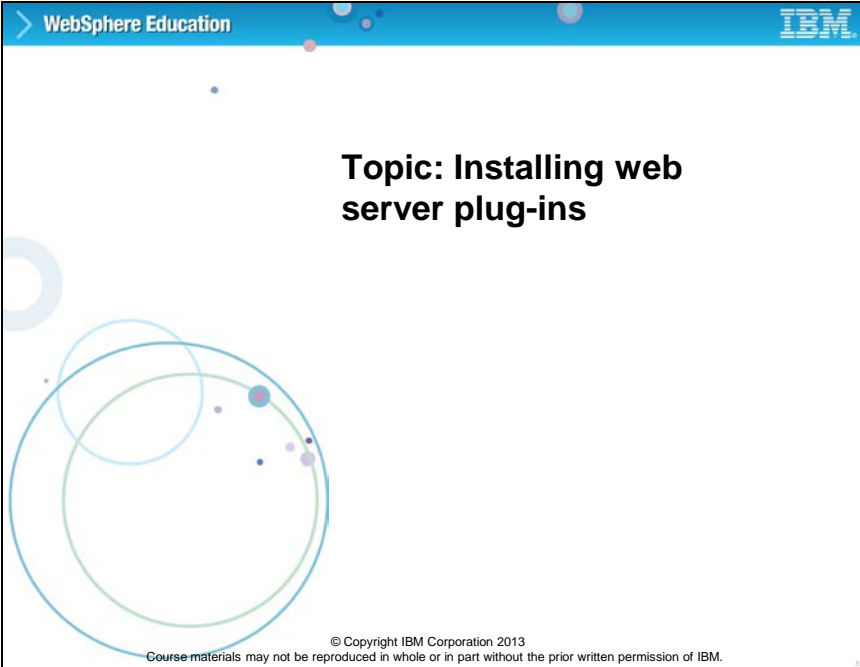
- You cannot have the following tools or two instances of either tool open at the same time:
  - Profile Management Tool for distributed operating systems
  - Migration Management Tool for distributed operating systems
- You cannot have the following tools within the WebSphere Customization Toolbox or two instances of any one tool open at the same time:
  - Web Server Plug-ins Configuration Tool
  - Profile Management Tool (z/OS only), which runs on Windows or Linux operating systems that are based on Intel
  - z/OS Migration Management Tool, which runs on Windows or Linux operating systems that are based on Intel

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There are a few restrictions to keep in mind with the WebSphere Customization Toolbox. Within the embedded version, you cannot have the Profile Management Tool and the Migration Management Tool open at the same time.

Within the stand-alone version, you cannot have more than one instance of any of the tools open at the same time. However, you can have multiple instances of WebSphere Customization Toolbox open at the same time; if they are using different workspaces.

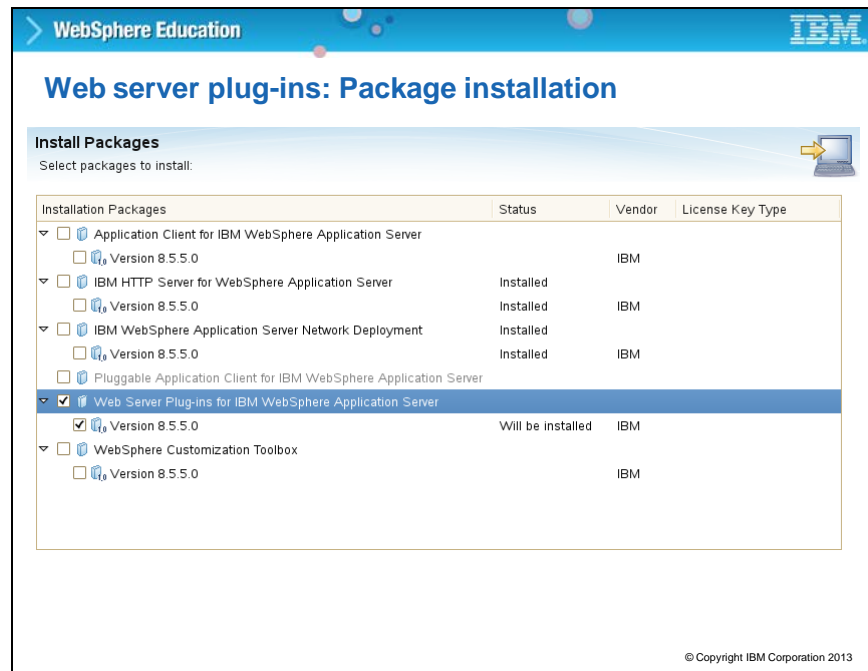
Slide 26



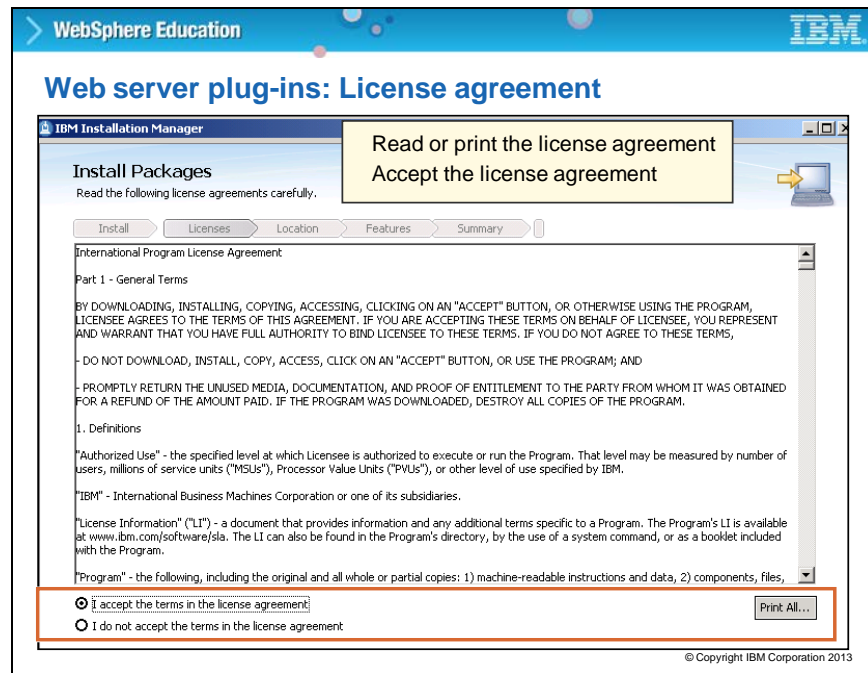
The slide features a blue header bar with the text "WebSphere Education" on the left and the "IBM" logo on the right. The main content area is white with the title "Topic: Installing web server plug-ins" in bold black text. To the left of the title is a decorative graphic consisting of several overlapping circles in light blue and green, with small colored dots scattered around them. At the bottom of the slide, there is a small copyright notice: "© Copyright IBM Corporation 2013" and "Course materials may not be reproduced in whole or in part without the prior written permission of IBM."

Topic: Installing web server plug-ins. In this topic, you examine the steps for installing the web server plug-in.

Slide 27



To install the web server plug-in, start the Installation Manager and select the **Install** option. The Installation Manager searches its repositories for packages that are available for installation. Select the Web Server Plug-in for IBM WebSphere Application Server and the appropriate version. Click **Next**.



Read and accept the license agreement to continue with the installation.

## Slide 29

**WebSphere Education** **IBM**

### Web server plug-ins: Package group and installation directory

#### Install Packages

A package group is a location that contains one or more packages. Some compatible packages can be installed into a common package group and will share a common user interface. Select an existing package group, or create a new one.

Install > Licenses > **Location** > Features > Summary

☐ Use the existing package group

☒ Create a new package group

| Package Group Name                                     | Installation Directory     |
|--|----------------------------|
| Web Server Plug-ins for IBM WebSphere Application Serv | /opt/IBM/WebSphere/Plugins |

Package Group Name: Web Server Plug-ins for IBM WebSphere Application Server V8.5

Installation Directory: /opt/IBM/WebSphere/Plugins

**Details** Shared Resources Directory: /opt/IBM/IMShared

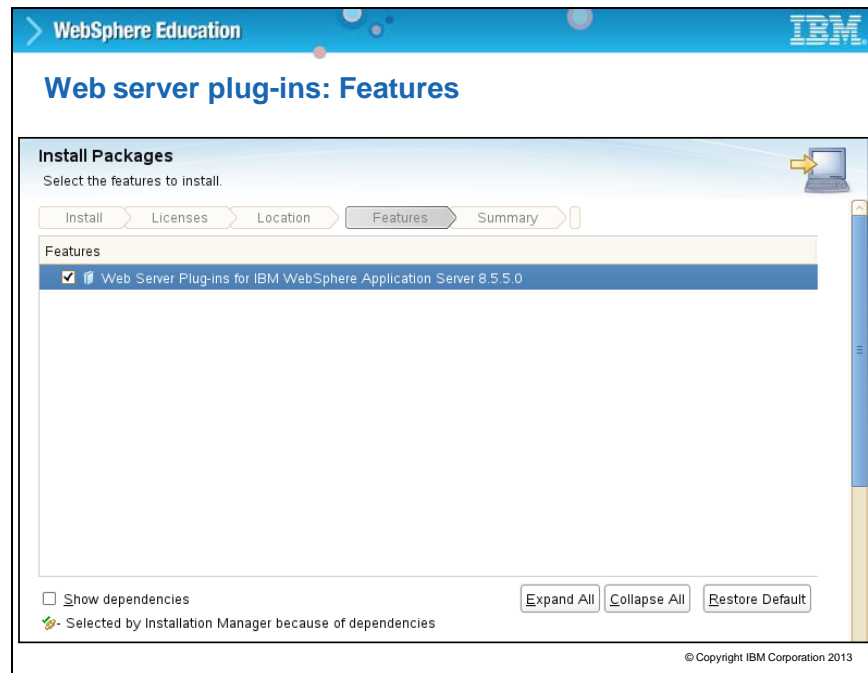
**Disk Space Information**

| Volume | Available Space |
|--------|-----------------|
| /      | 8.54 GB         |

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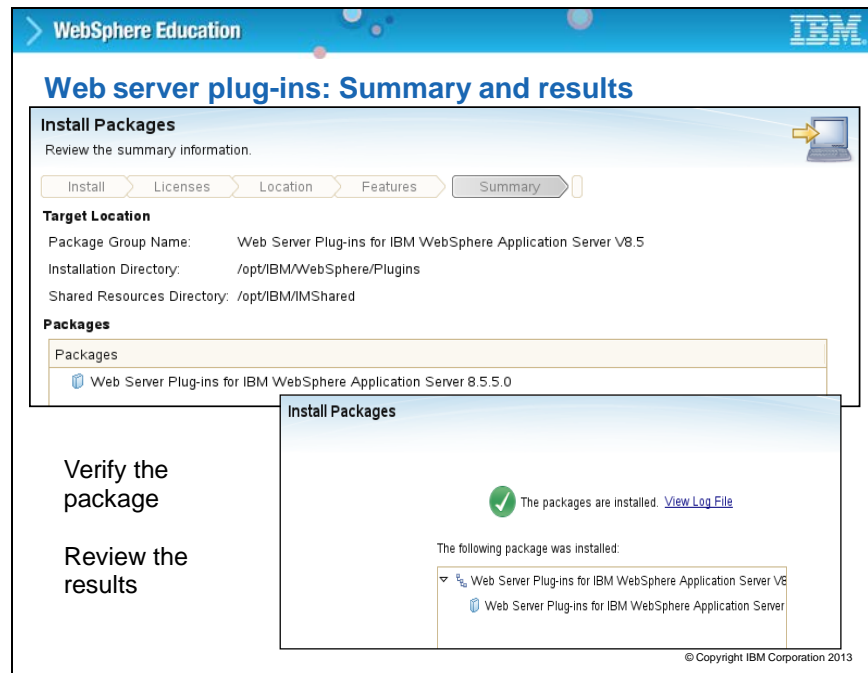
You are prompted to choose an existing package group that contains the plug-ins package or create a new package group. In this example, a new package group is created. Next, you specify the installation root directory for the product binary files and click **Next**.

Slide 30




Select any additional feature to install if any are available.

Slide 31

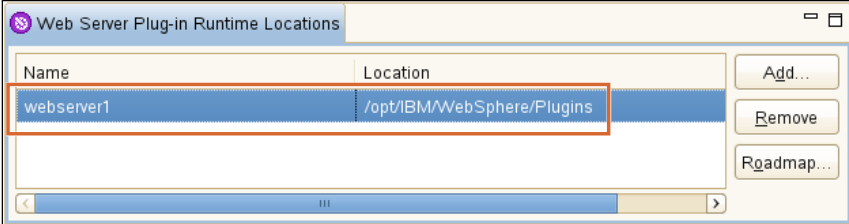


Review the summary information and click **Install**. If the installation is successful, the program displays a message that indicates that installation is successful. The program might also display important post-installation instructions. If the installation is not successful, click **View Log File** to troubleshoot the problem. Click **Finish**.

## Slide 32

WebSphere Education 

### Plug-ins Configuration Tool: Add location



| Name       | Location                   |
|------------|----------------------------|
| webserver1 | /opt/IBM/WebSphere/Plugins |

After the plug-in is installed, it must be configured

Start the Web Server Plug-ins Configuration Tool from the WebSphere Customization Toolbox

Select the installation location

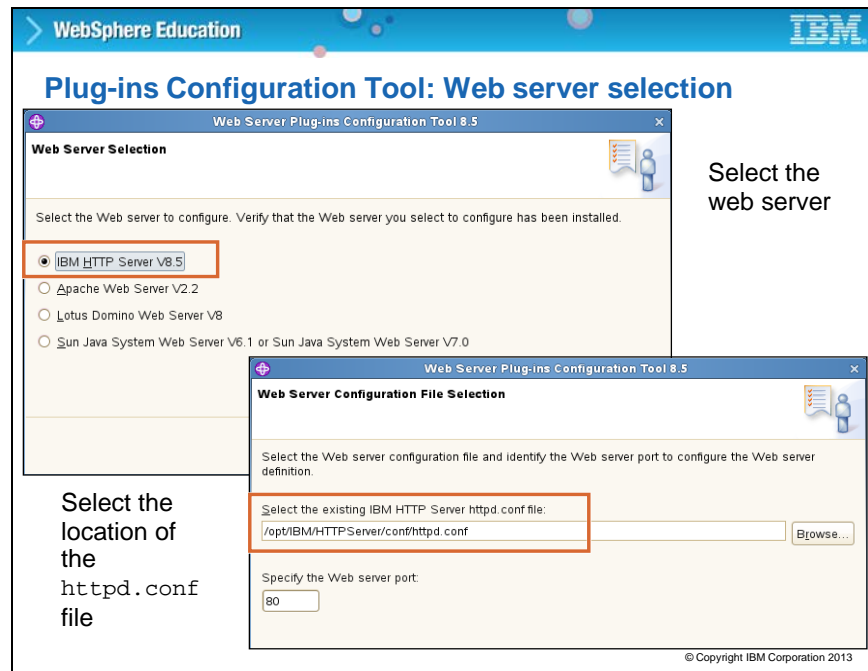
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After you install the plug-in, it must be configured. Configuration is done through the Web Server Plug-in Configuration Tool. The first step is to provide the location of the plug-in, which was selected during installation of the plug-in.

From the Start menu, or the command line, start the WebSphere Customization Toolbox. When WebSphere Customization Toolbox is started, select the Web Server Plug-in Configuration Tool. Select **Add** to configure a new web server plug-in. You are then prompted to provide the name and location of the plug-in that is selected during installation.



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You are prompted to select the type of web server that you want to configure. Here, IBM HTTP Server V8.5 is selected. Be sure that it is installed. Click **Next**.

You are then prompted to provide the location of the web server configuration file and specify the web server port number. After configuration, the configuration file contains the location of the plug-ins and other information about the plug-ins.

## Slide 34

WebSphere Education

## Plug-ins Configuration Tool: Administration server

Web Server Plug-ins Configuration Tool 8.5

### Setup IBM HTTP Server Administration Server

Optionally configure an administrative server to administer the Web server. You can manage the Web server from a WebSphere Application Server administrative console by using the IBM HTTP Server administrative server to control the communication between them.

☒ Setup IBM HTTP Server Administration Server

Specify a port number for IBM HTTP Server administration server to communicate. The default port is 8008. If the default port is already in use, then change to another port that is available. Running IBM HTTP Server administration server without root or Administrative privileges might restrict use of ports below 1024.

HTTP Administration Port:  
8008

Optionally create a user ID and password to authenticate to the IBM HTTP Server Administration Server from the WebSphere Application Server administrative console. The user ID and password is encrypted and stored in the confadmin.passwd file. You can create additional user IDs after the configuration by using the httpasswd utility.

☒ Create a user ID for IBM HTTP Server Administration Server authentication

User ID: lhsadmin

Password: .....

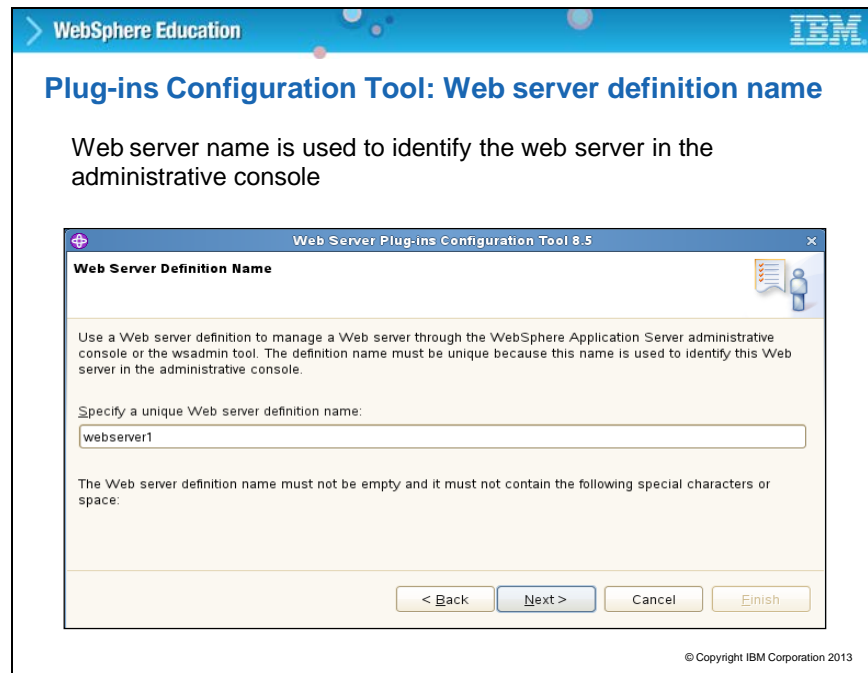
Confirm password: .....

< Back Next > Cancel Finish

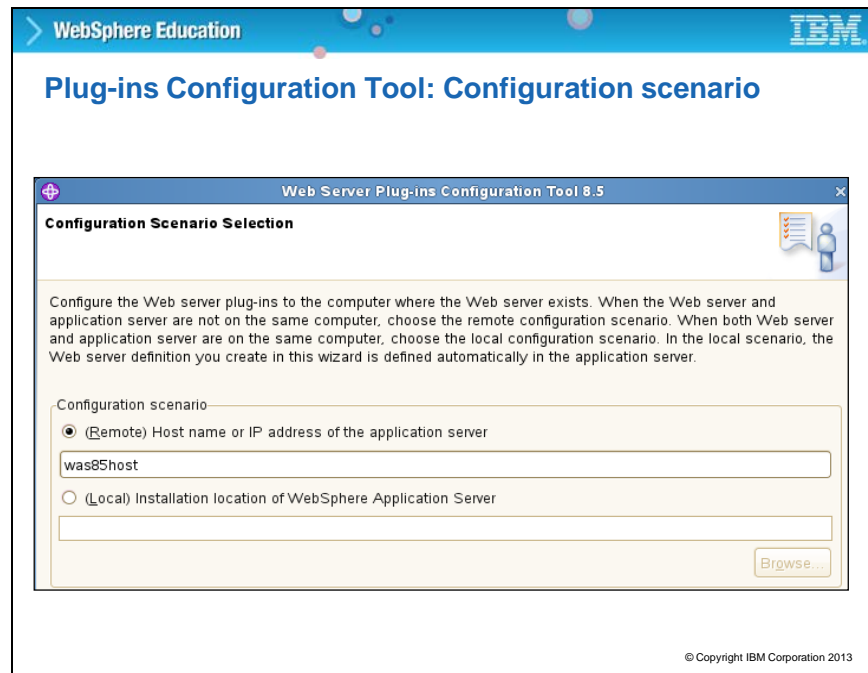
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Configure IBM HTTP Server Administrative Server when administering IBM HTTP Server from the administrative console

IBM HTTP Server Administration Server is used to control communication between the administrative console and IBM HTTP Server. Specify the port that the IHS Administration Server uses. Optionally, you can configure a user ID and password to authenticate to the IHS Administration Server. The administrative console uses these credentials to communicate with the IHS Administration Server.



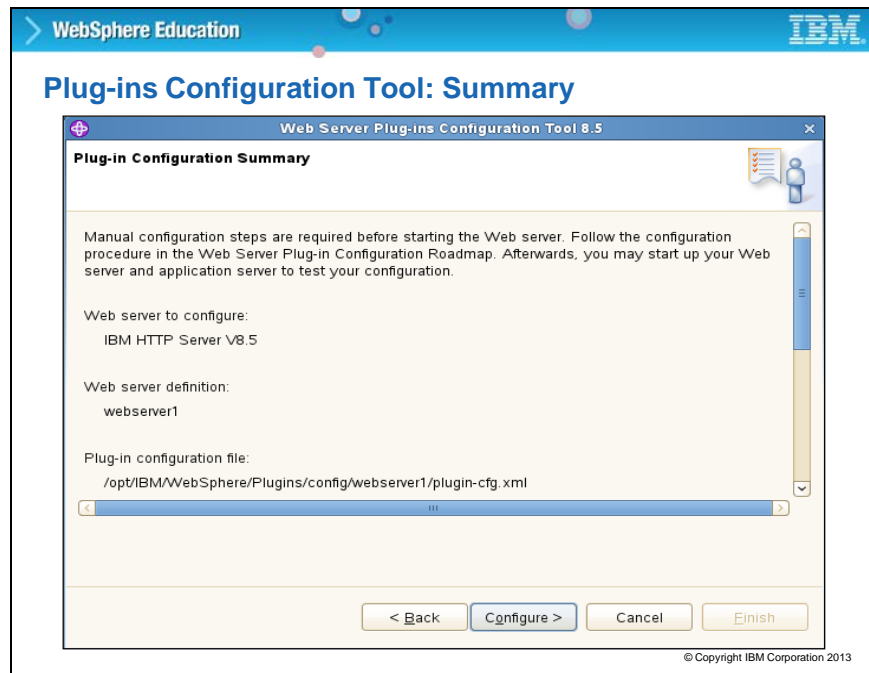
The web server definition name is displayed in the administrative console and is used to identify the web server. The name is also used to create a directory under the web server installation root > plug-ins > config directory. You must specify this name if you are going to configure WebSphere Application Server to manage this web server.



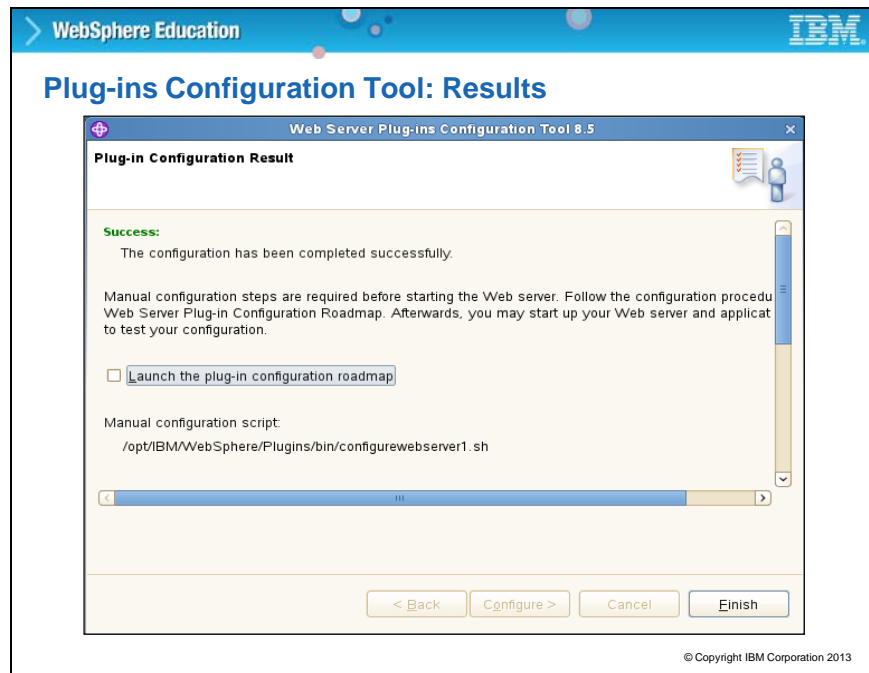
For a **remote** configuration, the Web Server Plug-in Configuration Tool configures the web server to use the plugin-cfg.xml file that is maintained on the web server in the *plugins\_root/config/web\_server\_name* directory. This file must periodically be propagated from the application server to this directory on the web server.

For a **local** configuration, the Web Server Plug-in Configuration Tool configures the web server to use the plugin-cfg.xml file within the application server profile. The stand-alone application server regenerates this file whenever a change occurs in the application server configuration that affects deployed applications.

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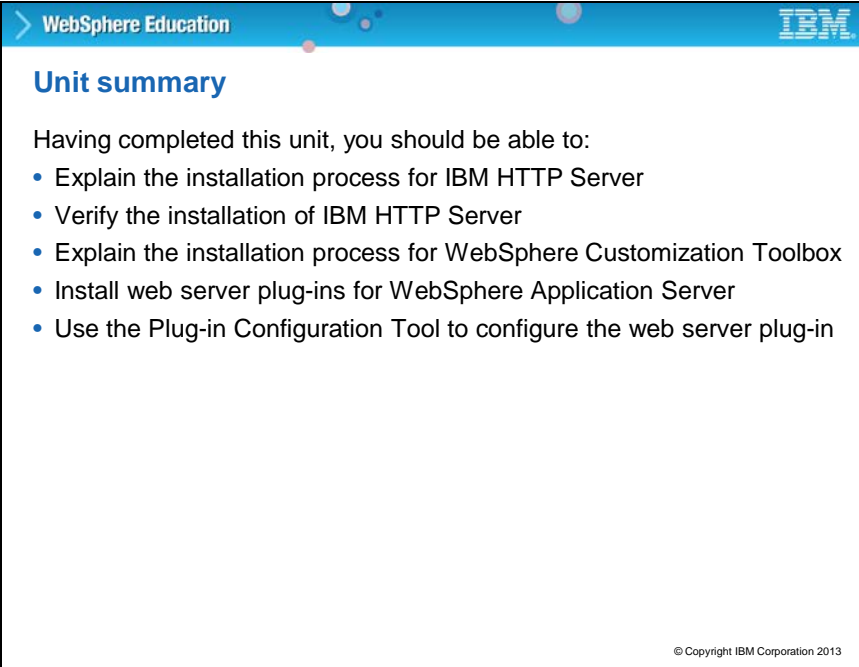


Review the summary and select **Configure**.



After the configuration is complete, results are displayed. Review the result before you continue.

Slide 39



The slide features a blue header bar with the text 'WebSphere Education' on the left and the IBM logo on the right. The main content area is white with a blue title 'Unit summary'. Below the title, it states 'Having completed this unit, you should be able to:' followed by a bulleted list of five items. The footer contains the copyright notice '© Copyright IBM Corporation 2013'.

**Unit summary**

Having completed this unit, you should be able to:

- Explain the installation process for IBM HTTP Server
- Verify the installation of IBM HTTP Server
- Explain the installation process for WebSphere Customization Toolbox
- Install web server plug-ins for WebSphere Application Server
- Use the Plug-in Configuration Tool to configure the web server plug-in

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You completed this unit.

Having completed this unit, you should be able to:

- Explain the installation process for IBM HTTP Server
- Verify the installation of IBM HTTP Server
- Explain the installation process for WebSphere Customization Toolbox
- Install web server plug-ins for WebSphere Application Server
- Use the Plug-ins Configuration Tool to configure the web server plug-in