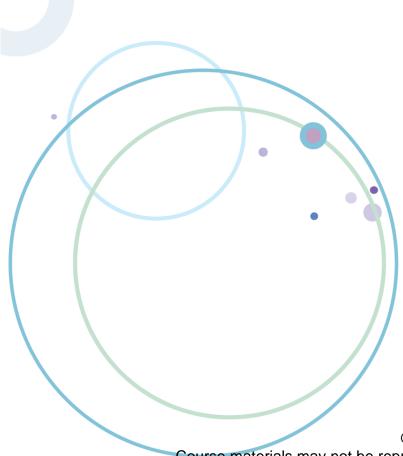


Web server installation



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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

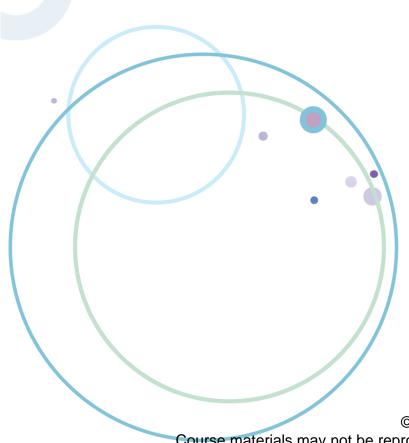


Topics

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



Topic: Installing IBM HTTP Server



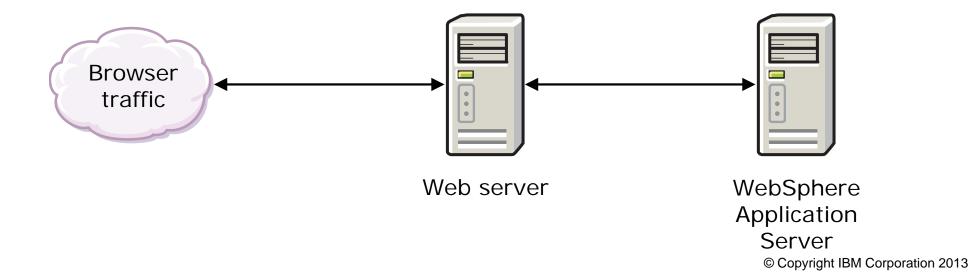
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Web servers for WebSphere Application Server

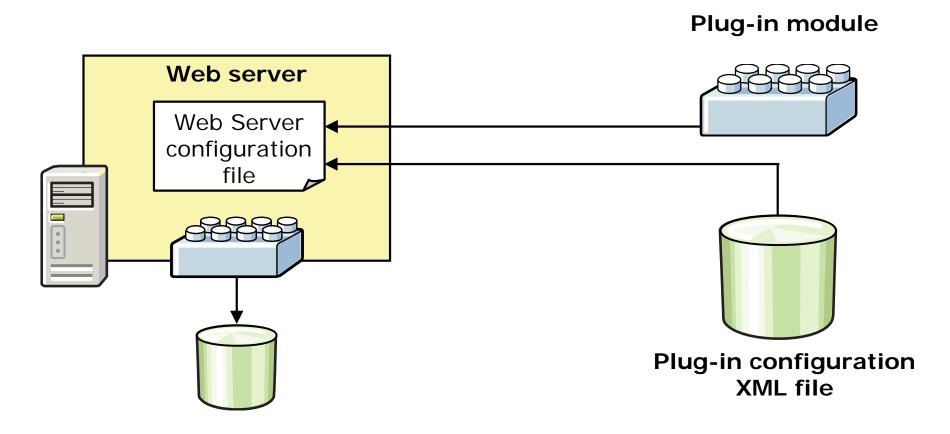
- Supported web servers include:
 - Apache HTTP Server
 - Lotus Domino Web Server
 - IBM HTTP Server
 - Microsoft Internet Information Services
 - Sun Java System Web Server
- For the latest specifics on versions and patch levels, check:
 - http://www-01.ibm.com/support/docview.wss?uid=swg27038218





Web server plug-in installation

- Plug-in is a separate installation package
- Typical plug-in installation action
 - Installs the plug-in binary files for the web server
 - Updates the web server configuration file





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

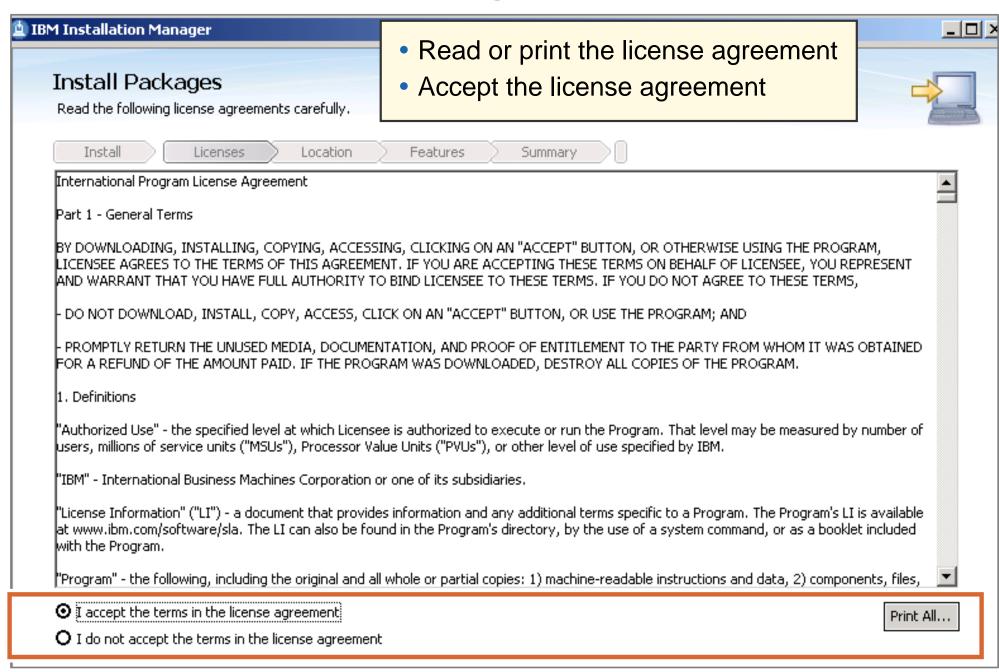


IBM HTTP Server: Select package

Installation Packages	Status	∨endor
▼ □ ⑥ Application Client for IBM WebSphere Application Server		
□ M \/arcian 0 5 5 A		IDM
▼ IBM HTTP Server for WebSphere Application Server		
☑ 🖟 Version 8.5.5.0	Will be installed	IBM
▼ □ IBM WebSphere Application Server Network Deployment	Installed	
☐ 🗓 Version 8.5.5.0	Installed	IBM
Pluggable Application Client for IBM WebSphere Application Server		
🔻 🗌 🧊 Web Server Plug-ins for IBM WebSphere Application Server		
☐ 🗓 Version 8.5.5.0		IBM
▼ □ ∅ WebSphere Customization Toolbox		
☐ 🗓 Version 8.5.5.0		IBM

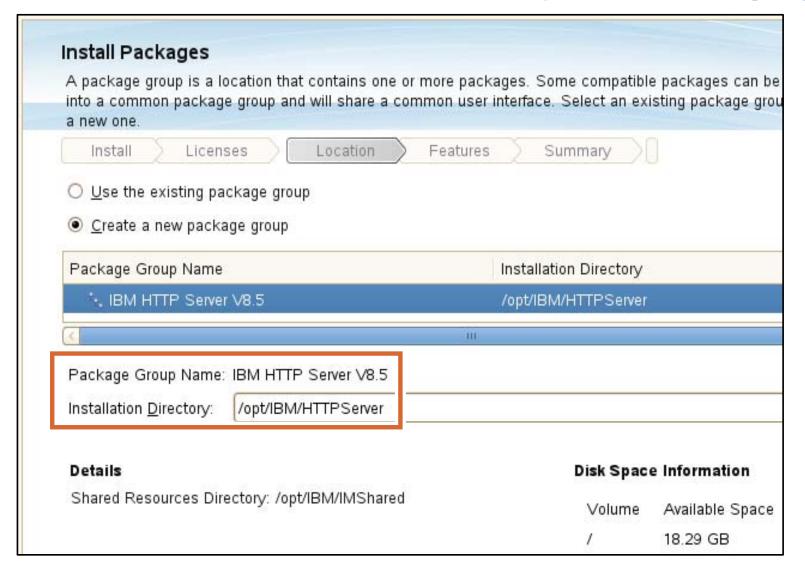


IBM HTTP Server: License agreement





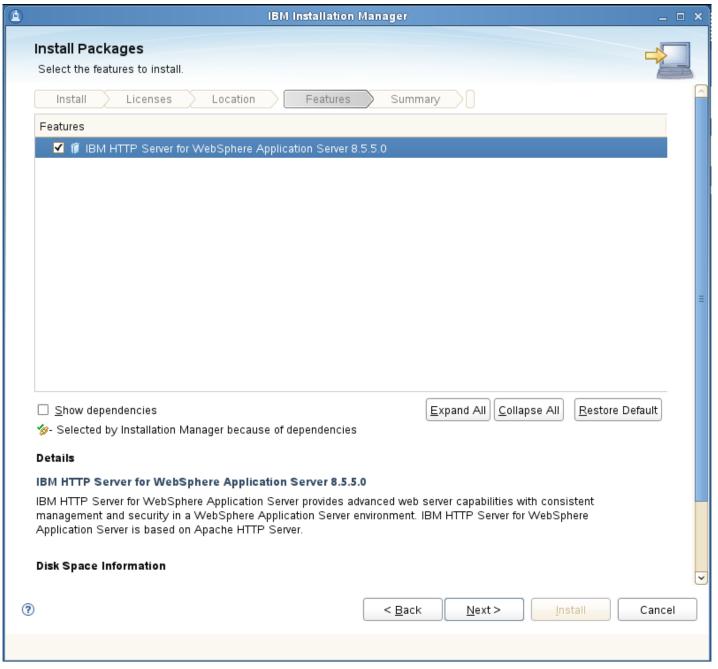
IBM HTTP Server: Installation directory and package group



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

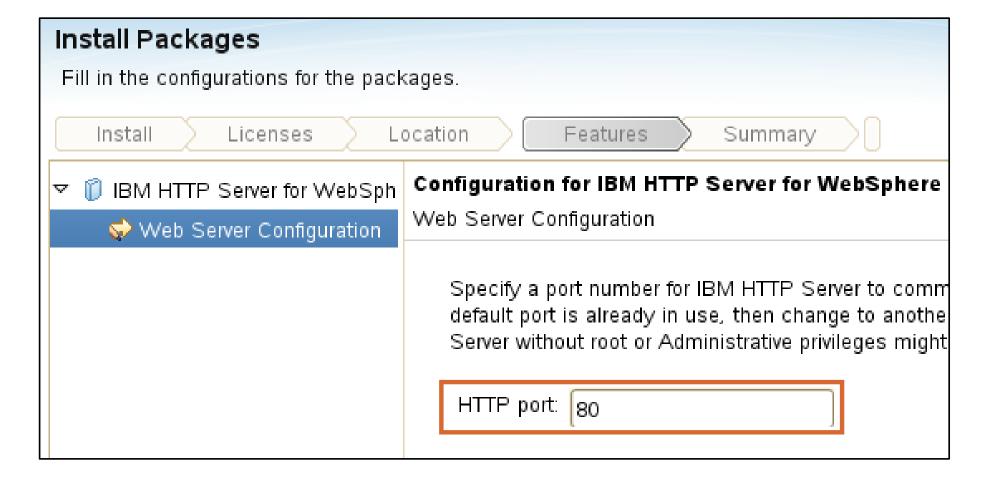


IBM HTTP Server: Features





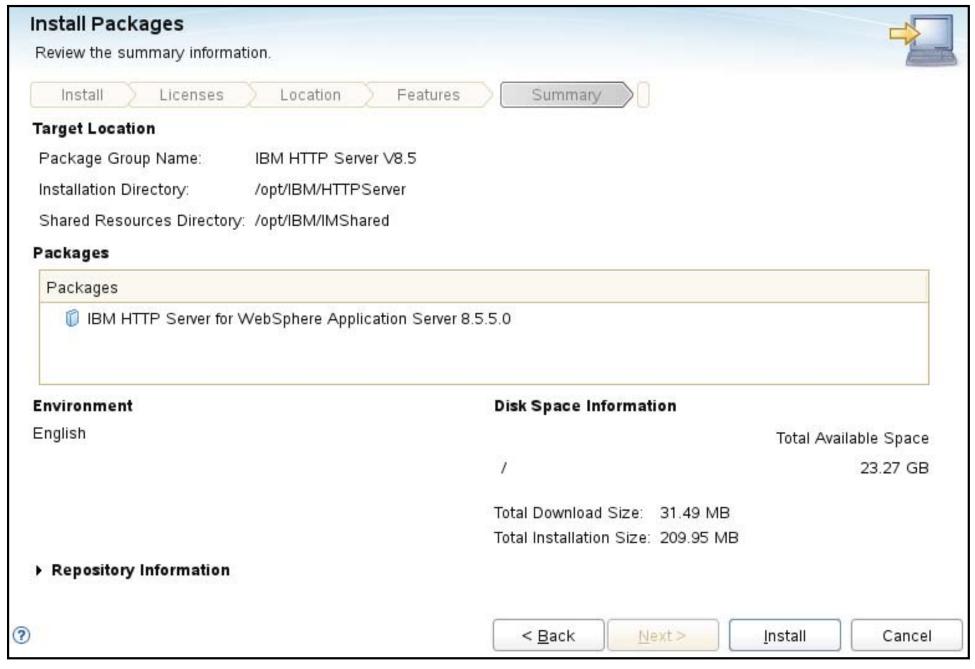
IBM HTTP Server: Port values



Verify the assigned port values

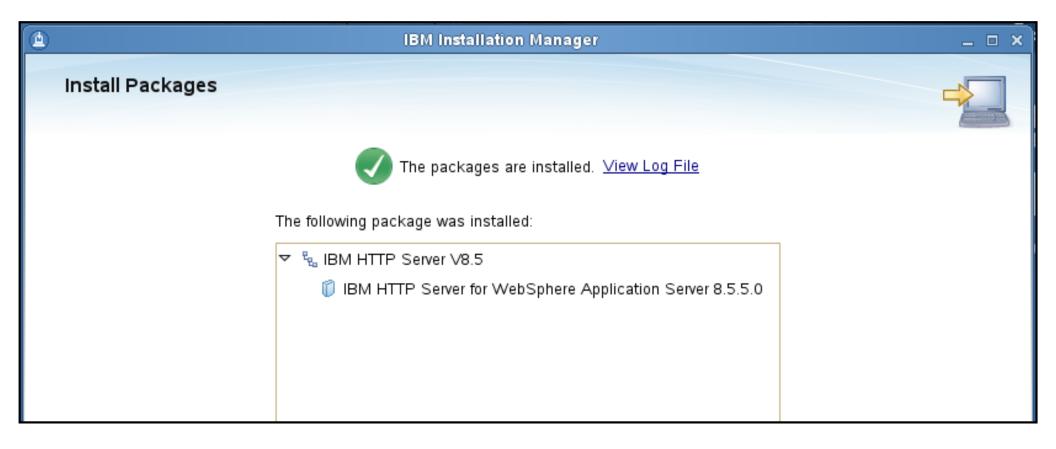


IBM HTTP Server: Summary





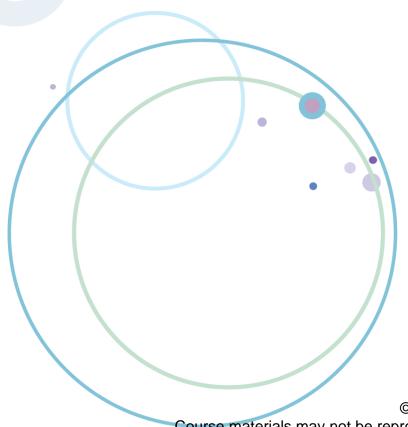
IBM HTTP Server: Results



Review the results



Topic: WebSphere Customization Toolbox overview



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WebSphere Customization Toolbox

- 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



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)



WebSphere Customization Toolbox: Installation

- 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

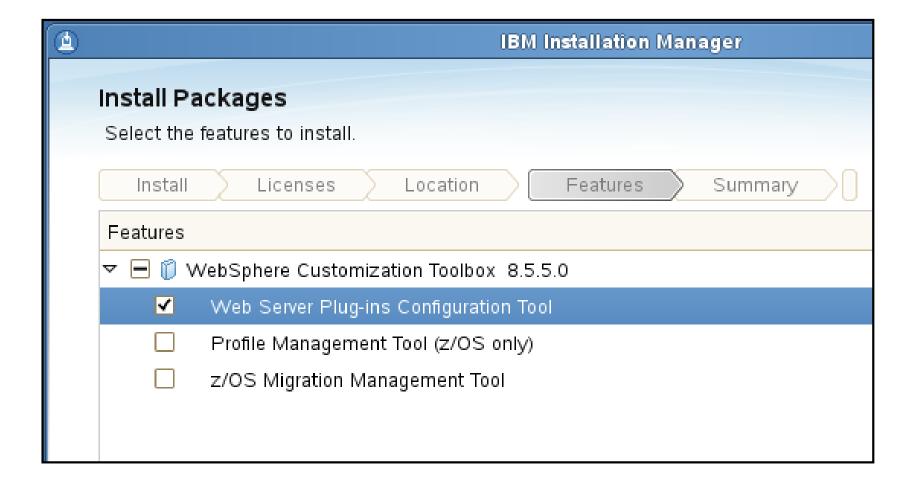


WebSphere Customization Toolbox: Selective tool installation

Installation Packages	Status	Vendor	License Key Type
🗖 🧻 Application Client for IBM WebSphere Application Server			
☐ 🗓 Version 8.5.5.0		IBM	
🗸 🔲 🧊 IBM HTTP Server for WebSphere Application Server	Installed		
☐ 🗓 Version 8.5.5.0	Installed	IBM	
🗖 🧻 IBM WebSphere Application Server Network Deployment	Installed		
☐ 🗓 Version 8.5.5.0	Installed	IBM	
Pluggable Application Client for IBM WebSphere Application	1		
🗸 🔲 🧊 Web Server Plug-ins for IBM WebSphere Application Serve	r Installed		
☐ 🗓 Version 8.5.5.0	Installed	IBM	
▼ WebSphere Customization Toolbox			
✓ 🗓 Version 8.5.5.0	Will be installed	IBM	



WebSphere Customization Toolbox: Features



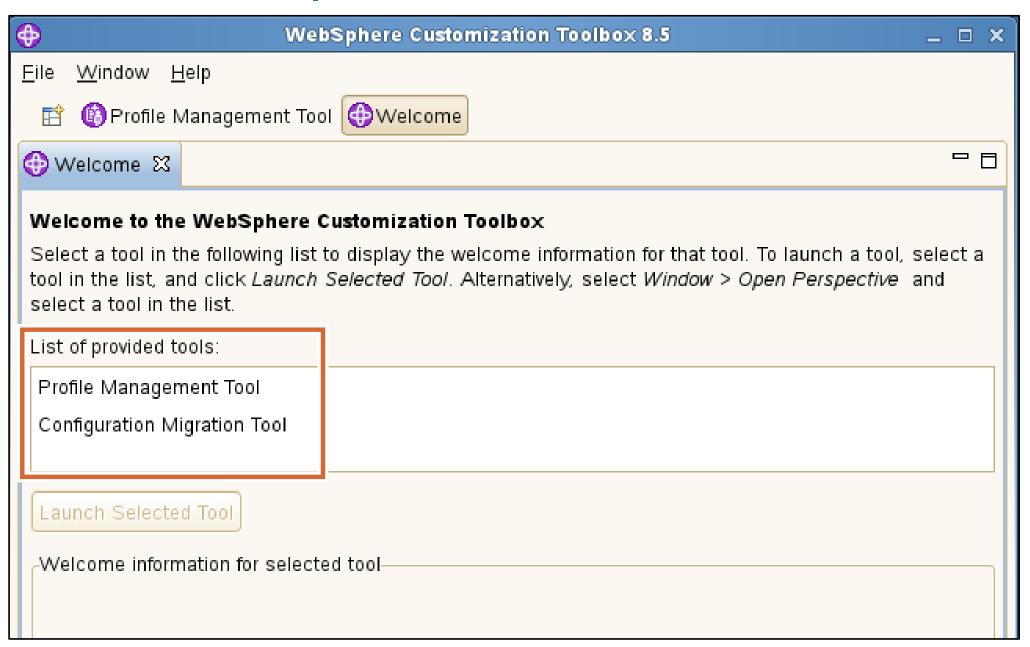


Starting WebSphere Customization Toolbox

- 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

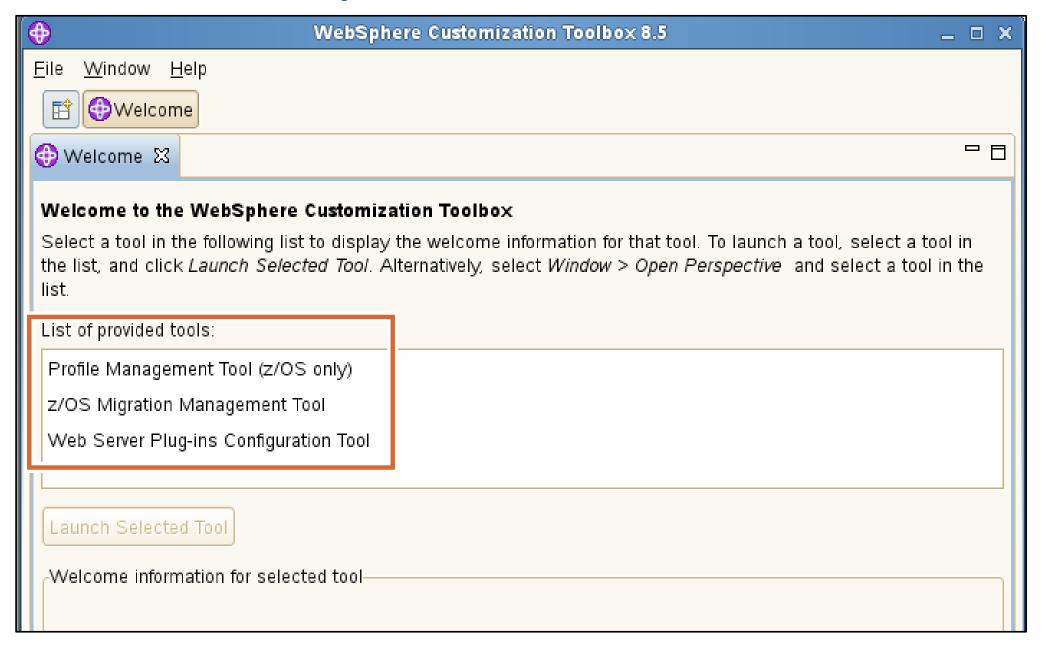


Embedded WebSphere Customization Toolbox





Stand-alone WebSphere Customization Toolbox





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

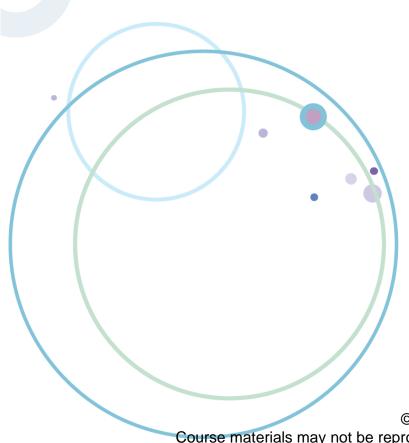


WebSphere Customization Toolbox: Restrictions

- 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



Topic: Installing web server plug-ins



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Web server plug-ins: Package installation

Install Packages

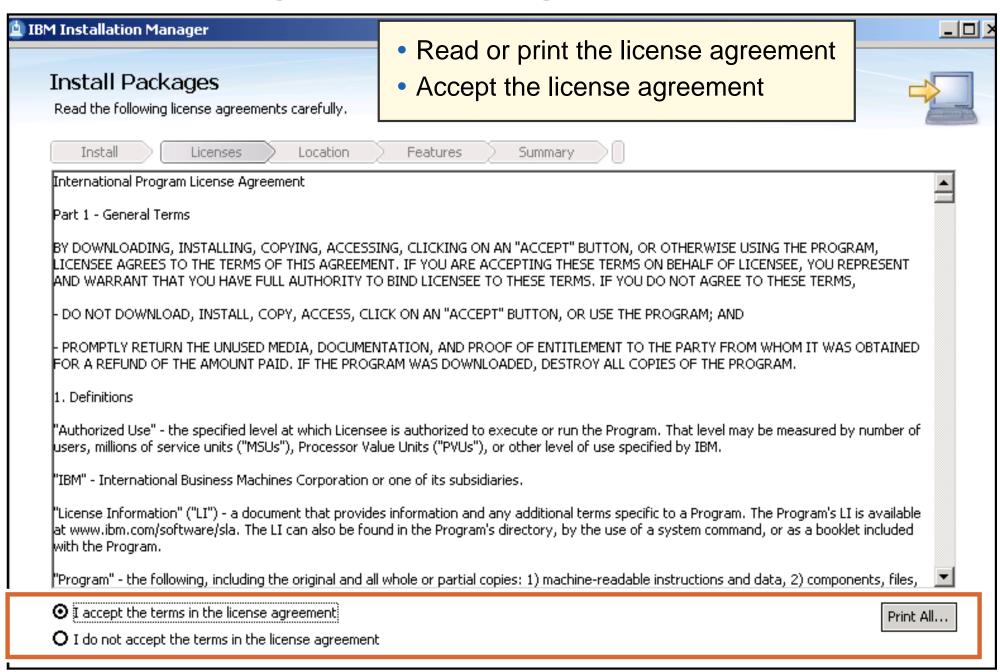
Select packages to install:



Installation Packages	Status	Vendor License Key Type
▼ □ ∅ Application Client for IBM WebSphere Application Server		
☐ Q ₀ Version 8.5.5.0		IBM
▼ □	Installed	
☐ 🗓 Version 8.5.5.0	Installed	IBM
🗸 🔲 🧊 IBM WebSphere Application Server Network Deployment	Installed	
☐ 🗓 Version 8.5.5.0	Installed	IBM
☐ 🗑 Pluggable Application Client for IBM WebSphere Application S	Server	
🔻 🗹 🧃 Web Server Plug-ins for IBM WebSphere Application Server		
✓ Q Q Version 8.5.5.0	Will be installed	IBM
▼ □		
☐ 🗓 Version 8.5.5.0		IBM

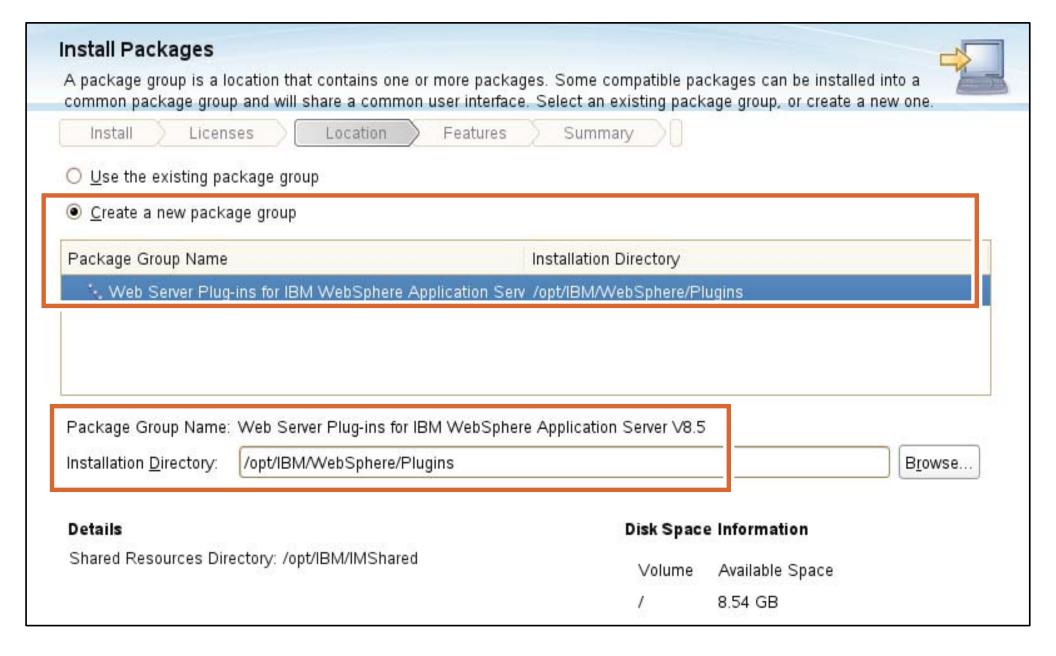


Web server plug-ins: License agreement



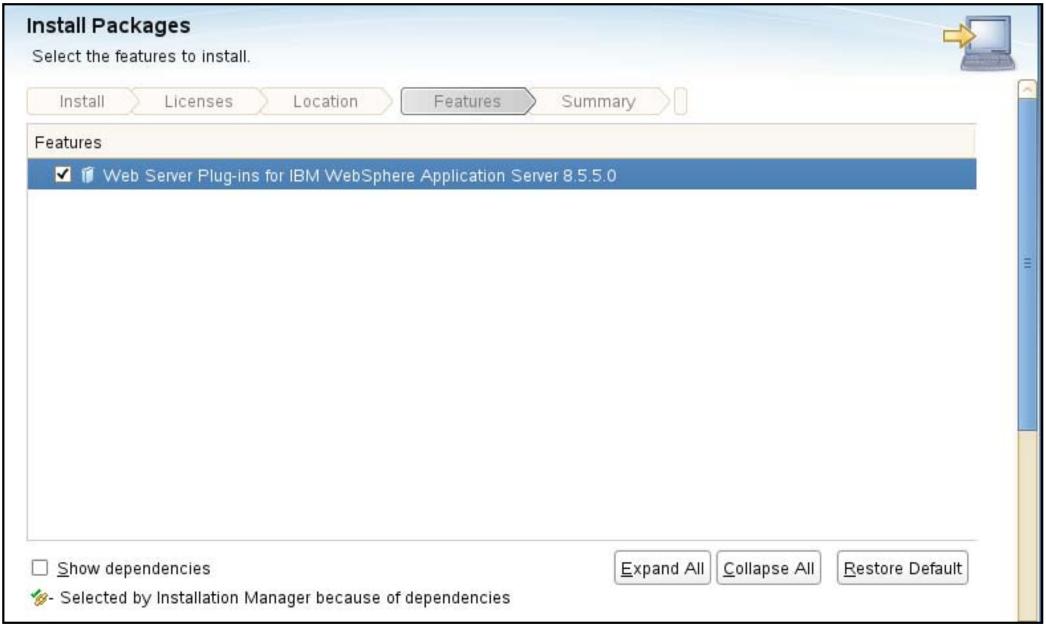


Web server plug-ins: Package group and installation directory



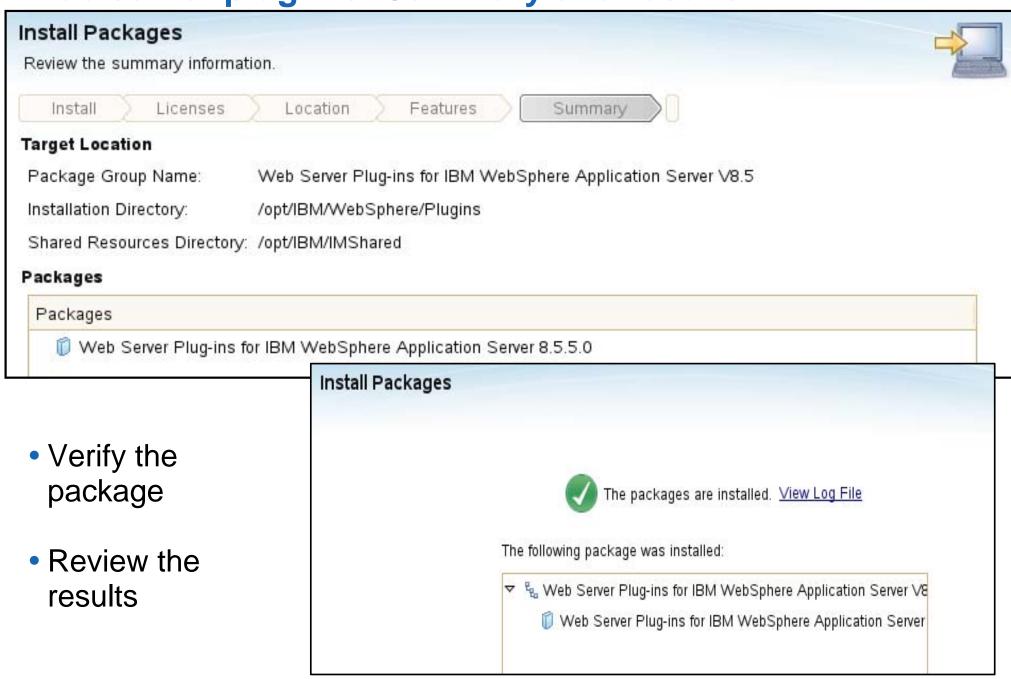


Web server plug-ins: Features



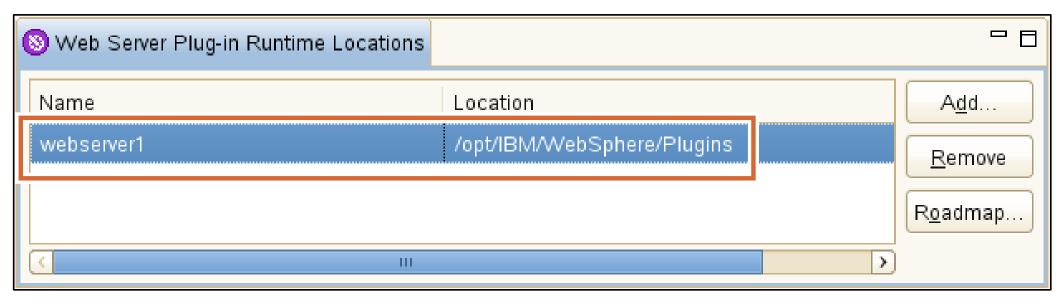


Web server plug-ins: Summary and results





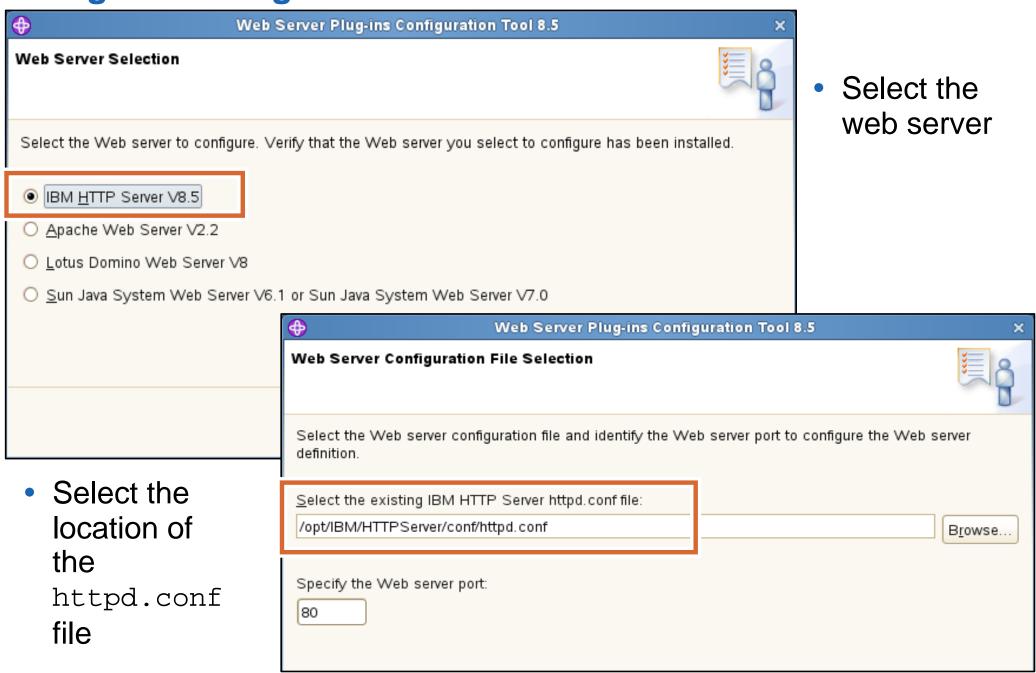
Plug-ins Configuration Tool: Add location



- 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

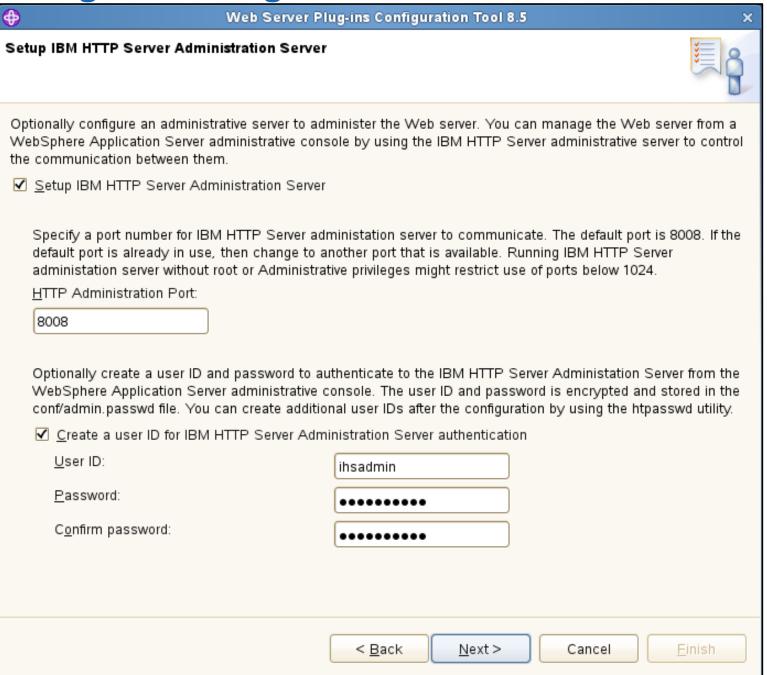


Plug-ins Configuration Tool: Web server selection





Plug-ins Configuration Tool: Administration server

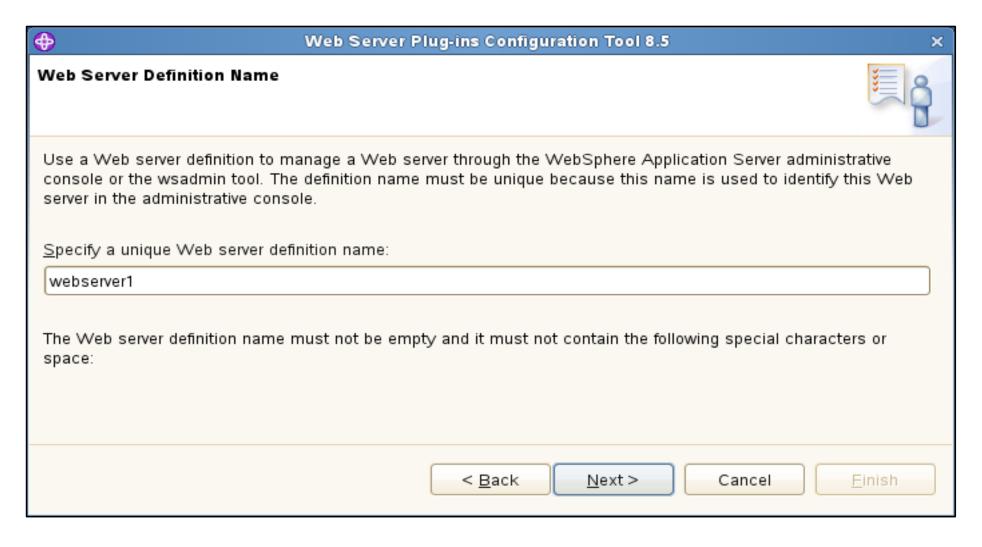


 Configure IBM HTTP Server Administrative Server when administering IBM HTTP Server from the administrative console



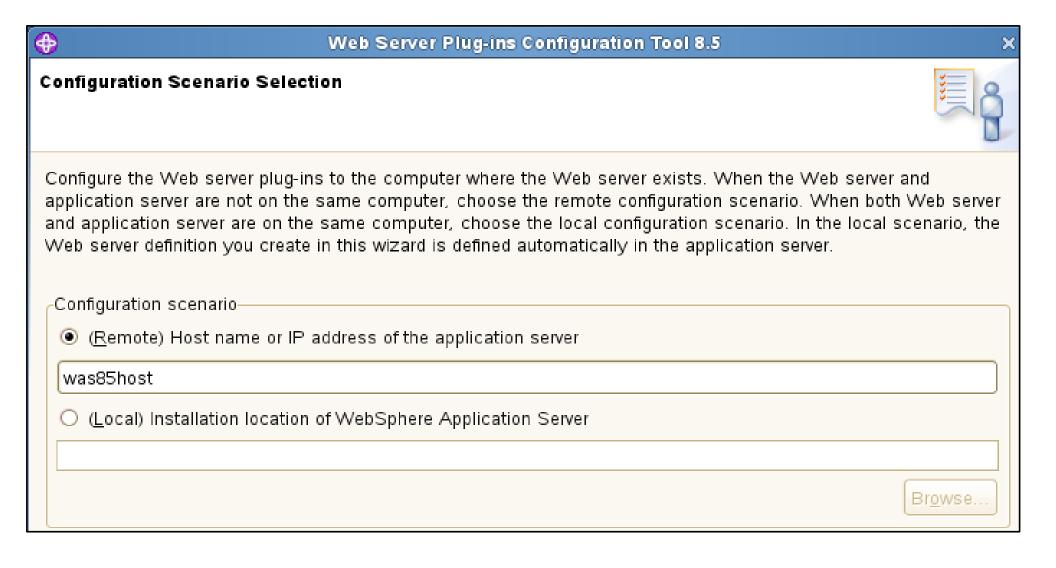
Plug-ins Configuration Tool: Web server definition name

 Web server name is used to identify the web server in the administrative console



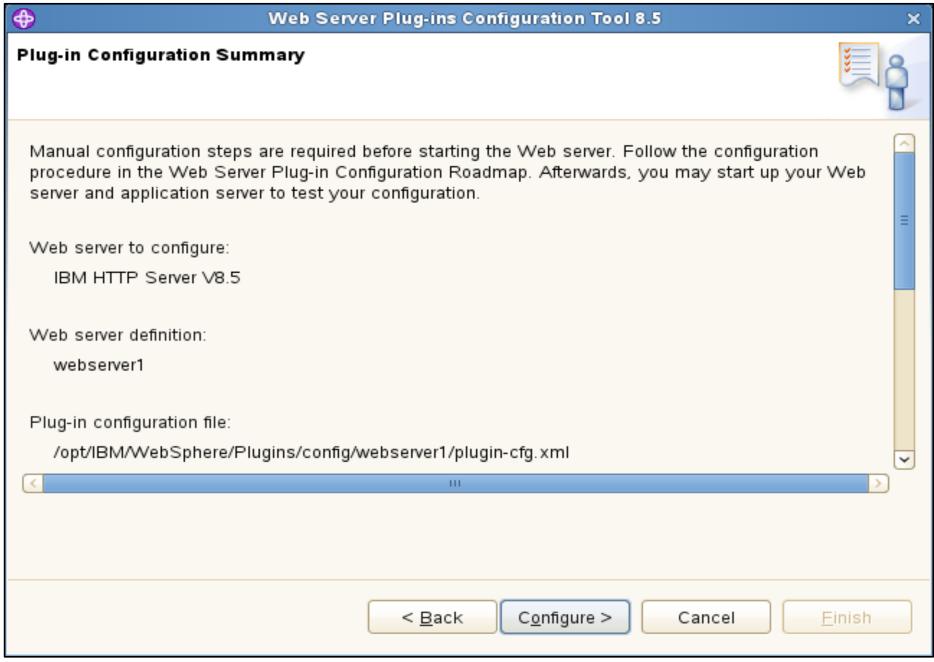


Plug-ins Configuration Tool: Configuration scenario



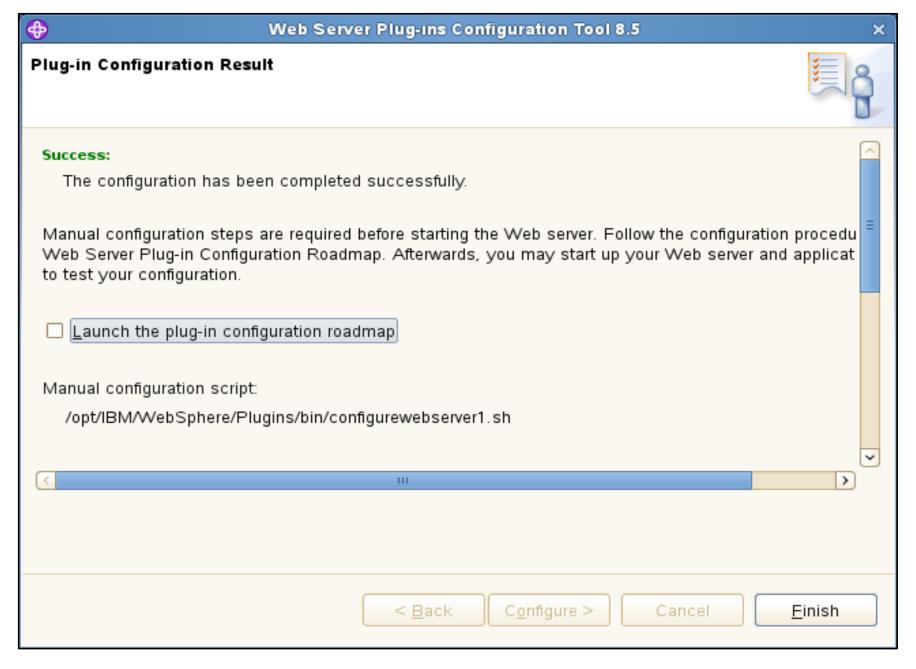


Plug-ins Configuration Tool: Summary





Plug-ins Configuration Tool: Results





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



Checkpoint questions

- 1. What are the two platforms for the WebSphere Configuration Tool?
- 2. What is the reason for configuring HTTP Server Administrative Server?
- 3. When running IBM HTTP Server as a Windows Service, what user rights are required for the user account?

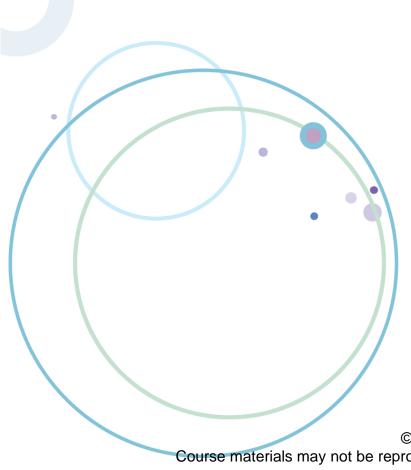


Checkpoint answers

- 1. What are the two platforms for the WebSphere Configuration Tool?
 - Embedded and stand-alone
- 2. What is the reason for configuring HTTP Server Administrative Server?
 - The Administrative Server controls communication between the administrative console and IBM HTTP Server
- 3. When running IBM HTTP Server as a Windows Service, what user rights are required for the user account?
 - Act as part of the operating system
 - Log on as a service



Exercise 1



Installing IBM Installation Manager

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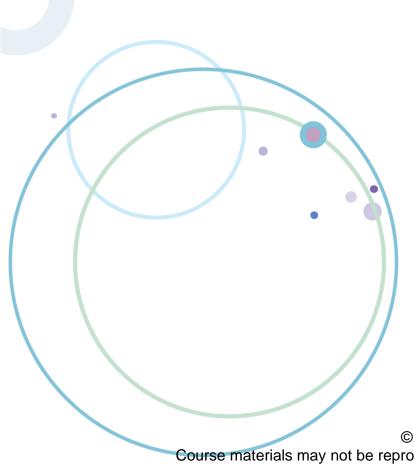
Exercise objectives

After completing this exercise, you should be able to:

- Install IBM Installation Manager
- View the installation log file
- Confirm the installation of Installation Manager



Exercise 2



Installing WebSphere Application Server

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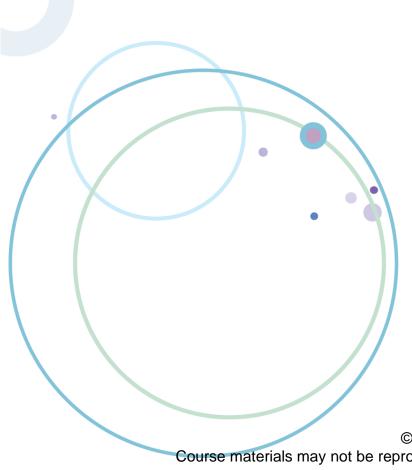
Exercise objectives

After completing this exercise, you should be able to:

- Use IBM Installation Manager to install WebSphere Application Server Network Deployment
- Use IBM Installation Manager to modify a product feature
- Use the Profile Management Tool to create a profile
- Verify that the installation was successful by examining log files
- Start and stop the application server



Exercise 3



Installing IBM HTTP Server

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Exercise objectives

After completing this exercise, you should be able to:

- Install IBM HTTP Server with IBM Installation Manager
- Confirm and test the installation of IBM HTTP Server.
- Install Web Server Plug-ins for WebSphere Application Server
- Install WebSphere Customization Toolbox
- Configure the Web Server Plug-ins for WebSphere Application Server
- Examine the installed directories and files for IBM HTTP Server and the plug-ins