





Virtual Enterprise Version 6.1.1 Installation Guide

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Installing and configuring the product

Use this procedure to install and customize product packages. The information includes planning, preparing for, completing, and maintaining product installations, including configuring the product after installation.

Before you begin

For information on installing and deploying WebSphere® eXtreme Scale in your environment, see the WebSphere eXtreme Scale Information Center.

1. Obtain the product code for distributed platforms in one of the following ways:
 - Insert the product disc.
 - Download the installation image from the Passport Advantage® site. See the Find Downloads and Media Web page.
2. Prepare the environment in which you plan to install the product.
 - You can install the product in an environment that contains an existing installation of WebSphere Application Server Network Deployment. You can configure one or more nodes that comprise your Network Deployment cell. See “Installing in a WebSphere Application Server environment” on page 4 for more information.
 - You can install the middleware agent if you want to run the product in an environment that does not contain WebSphere Application Server Network Deployment. The middleware agent is located on a node that is running other middleware servers. See “Installing the middleware agent” on page 7 for more information.
3. Use the installation wizard or install the product silently. See “Installing the product” on page 5 for more information.
4. Augment existing WebSphere Application Server Network Deployment profiles to use the features of the product. See “Creating and augmenting profiles” on page 17 for more information.
5. Create a customized installation package (CIP) or an integrated installation package (IIP) if you want to install multiple installation packages. See “Using the Installation Factory plug-in to create and install customized packages” on page 11 for more information.
6. Use the latest version of the IBM Update Installer for WebSphere Software to update your product environment with maintenance packages. See “Using the Update Installer to install maintenance packages” on page 27 for more information.

Planning the installation

Planning is the process of defining what you want to accomplish with WebSphere Virtual Enterprise and how to meet your business goals.

About this task

Establishing application serving capability in new and existing environments by installing the product requires you to first plan and prepare your environment.

1. Familiarize yourself with the minimum hardware and software requirements for the product. See “Hardware and software requirements” for more information.
2. Establish your product topology. See “Topology design” for more information.

Hardware and software requirements

Before you install WebSphere Virtual Enterprise, you must review the hardware and software requirements.

For a detailed list of supported hardware and software options by operating system, see the System requirements Web site. If there is a conflict between the information provided in the information center and the information on the System Requirements page, the information at the Web site takes precedence.

Topology design

Install the product first as a simple topology configuration to familiarize yourself with its features in a test environment. When you are familiar with the advanced features, you can design advanced topologies that apply specifically to your application server environment.

The following graphic represents a supported topology of the product. In this topology, the on demand router is between the Web server and the node groups. The ODR, with the assistance of the autonomic managers, categorizes and prioritizes the work before routing work to the appropriate nodes. The deployment manager is the centralized management communication vehicle, as indicated by the dotted lines.

Install the deployment manager on a separate workstation from the application server nodes so that an outage of a single node, either planned or unplanned, does not impact both the application serving capacity and management capability.

When you are using a single physical computer that is hosting multiple nodes, the deployment manager can run on one of the nodes, and application servers can run on the other nodes. The application placement controller has been updated to consider the placement decisions made by the deployment manager.

When you are familiar with the product in a simple topology, you can add layers of complexity to your test environment. Include a firewall to secure your environment, and stress test to see the product features in action. Typically, when the workload increases, you must ensure that you have enough resources to manage the workload and that the resources configure and function together. You can also include an Internet Protocol (IP) sprayer in the configuration to eliminate any single point of failure, and make the topology highly available. An IP sprayer distributes requests from one IP address to multiple IP addresses.

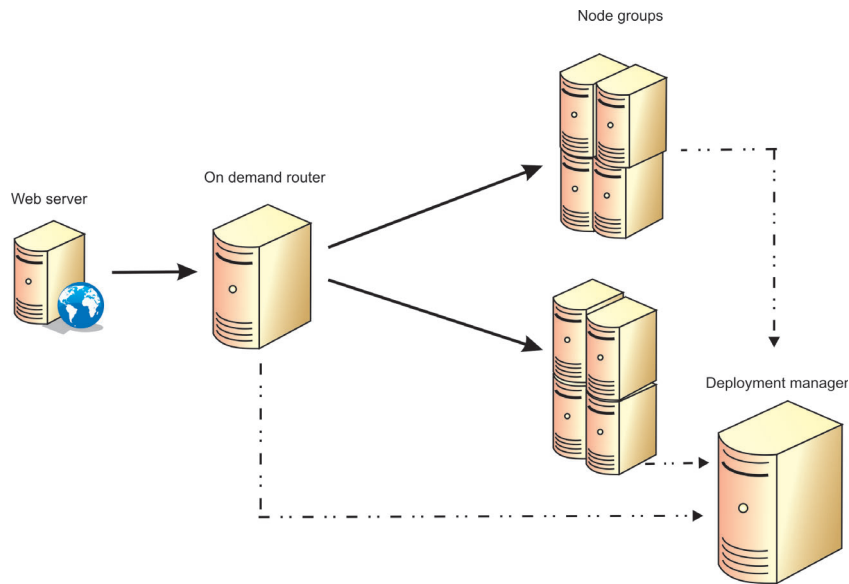


Figure 1. A simple supported configuration

Installation scenarios

You can install WebSphere Extended Deployment, including all three separate products, in various ways to enhance your application server environment. Depending on your existing environment and which product you install, the installation process includes certain features that might not be available in other installation scenarios.

WebSphere Extended Deployment Version 6.1.1 includes the following three products:

- WebSphere Virtual Enterprise Version 6.1.1
- WebSphere Extended Deployment Compute Grid Version 6.1.1
- WebSphere eXtreme Scale Version 7.0

You can install WebSphere Virtual Enterprise in an environment that contains WebSphere Application Server Network Deployment and either Compute Grid, eXtreme Scale, or both. During the installation process, the wizard detects and verifies the existing installations as part of the current installation process.

When you install Virtual Enterprise in environments in which WebSphere Application Server Network Deployment does not exist, only the middleware agent is installed on a node that is running other middleware servers. The middleware agent is a server process that is used to manage servers that are not running the product.

Additionally, the installation wizard does not present the option to add the product to the centralized installation manager repository. However, you can add the product later by using the centralized installation manager tool. See “Using the centralized installation manager repository tool to add products” on page 8 for more information.

When you integrate eXtreme Scale with an existing installation of WebSphere Application Server Network Deployment and Virtual Enterprise, you can install

both the eXtreme Scale client and server, or you can install the client only. See Integrating WebSphere eXtreme Scale with WebSphere Application Server in the WebSphere eXtreme Scale Information Center for more information.

Installing in a WebSphere Application Server environment

WebSphere Application Server Network Deployment is an essential prerequisite for a successful product installation. Before you begin the installation process, you must prepare your Network Deployment environment.

Before you begin

- See the WebSphere Application Server detailed system requirements for a detailed list of supported hardware and software options by operating system.
- See the WebSphere Application Server Library page to access the latest on-line documentation.

About this task

A basic topology consists of a single deployment manager, a single on demand router (ODR), and two application servers. Use three workstations (A, B, and C) for this basic topology. Set up the deployment manager and the nodes with one workstation by combining the requirements of workstations A and B if it is a high-power workstation. Otherwise, set up workstations A and B separately for optimal performance. Set up the deployment manager first.

1. Set up workstation A, the deployment manager:
 - a. Install WebSphere Application Server Network Deployment.
 - b. Install the latest WebSphere Application Server Network Deployment fix pack to update your product level. See Recommended fixes for WebSphere Application Server for more information.
 - c. Create a deployment manager profile.
 - d. Run the stopManager command to stop the deployment manager in preparation for a product installation.
2. Set up workstation B, the managed nodes:
 - a. Install WebSphere Application Server Network Deployment and the latest fix pack to update your product level.
 - b. Create two custom profiles, and federate the node within each custom profile into the deployment manager cell.
 - c. Run the stopNode command to stop each node in the node agent process in preparation for a product installation.
3. Set up workstation C, the on demand router (ODR):
 - a. Install WebSphere Application Server Network Deployment and the latest fix pack to update your product level.
 - b. Create a custom profile, and federate the node within the custom profile into the deployment manager cell.
 - c. Run the stopNode command, and verify that the node stopped in preparation for a product installation.
4. Linux UNIX Increase the size of the file limit of your operating system:
 - a. Run the ulimit -n 8192 command.
 - b. Run the iscdploy.sh -restore command from the *was_home/bin/* directory

Results

Your WebSphere Application Server Network Deployment environment is now prepared to support the installation of WebSphere Virtual Enterprise.

What to do next

Install the product on the deployment manager and on each managed node in the cell if the nodes do not share the same installation location. Before you begin the installation process, however, you must restart the deployment manager and each of the nodes to which you plan to install the product. To start the deployment manager, run the following command from the *profile_root/bin* directory of the Network Deployment installation:

- `Windows` startManager.bat
- `Linux` `UNIX` ./startManager.sh

To start each of the nodes, run the following command from the *profile_root/bin* directory of the Network Deployment installation:

- `Windows` startNode.bat
- `Linux` `UNIX` ./startNode.sh

Installing the product

Install the product by using the graphical user interface (GUI).

Before you begin

- Read the readme file, which is located in the root directory of the product media.
- Install the latest WebSphere Application Server fix pack if you are installing the product in an existing WebSphere Application Server environment. See Recommended fixes for WebSphere Application Server for more information.
- Exit the WebSphere Application Server Network Deployment directory. Installation errors can occur if you inadvertently leave a command line or browser instance open in the *profile_root/installedApps* directory.

Note: Do not augment profiles for the product during the installation of WebSphere Virtual Enterprise Version 6.1. If your environment contains WebSphere Application Server Network Deployment Version 7.0, you must install WebSphere Virtual Enterprise Version 6.1.0.5 before you can augment profiles for the product.

1. Stop all the processes that are running on the workstation that you are preparing for installation.

Run the following command to stop the deployment manager:

- `Linux` `UNIX` ./stopManager.sh
- `Windows` stopManager.bat

Run the following command to stop the nodes:

- `Linux` `UNIX` ./stopNode.sh
- `Windows` stopNode.bat

2. Run the following command to start the installation wizard:

- `Linux` `UNIX` install
- `Windows` install.bat

3. Complete all of the required fields on the wizard panels.
Optionally, select the check box to add the product to the centralized installation manager repository if you are installing Virtual Enterprise or Compute Grid. Click **Browse** to specify the location of the repository. The option to add the product to the centralized installation manager repository is unavailable if you previously chose not to install the repository when you installed Virtual Enterprise, or if you install other product packages without installing Virtual Enterprise.
4. Repeat the process to install the product on each node in the cell.

Tip: Use the same CD or DVD to install the product on the nodes.

Results

The installation wizard installs the product files in *install_root* directory.

What to do next

Configure each node to meet your objectives, which you can do either from the administrative console or by using the wsadmin tool.

- Click **Servers** → **All servers** to configure each node from the administrative console.
- See the Scripts section in Information Center for the steps to use the wsadmin tool to configure each node.

Installing the product silently

Use either a fully-qualified response file, which you configure specifically to your needs, or parameters that pass to the command line to silently install the product and start the nodes.

Before you begin

- Stop all processes that are running in your WebSphere Application Server Network Deployment environment. Stop all the nodes and the node agent, but do not stop the entire cell. See *Command-line utilities* for more information.

Note: Do not augment profiles for the product during the installation of WebSphere Virtual Enterprise Version 6.1. If your environment contains WebSphere Application Server Network Deployment Version 7.0, you must install WebSphere Virtual Enterprise Version 6.1.0.5 before you can augment profiles for the product.

About this task

A silent installation uses the same installation program that the graphical user interface (GUI) version uses. However, instead of displaying a wizard interface, the silent installation reads all of your responses from a file that you customize, or from parameters that you pass to the command line.

1. Optional: If you choose to install the product using a response file, first customize the file.
 - a. Copy the response file from the product CD or DVD to your disk drive.
 - b. Open and edit the response file in the text editor of your choice. You must specify the following parameters:
 - The license agreement

- The location of the product installation
- The list of profiles to augment
- The location of the centralized installation manager repository

Tip: The installer uses the location that you select for your installation to determine where the existing instance of WebSphere Application Server Network Deployment is installed. If you install on a node with multiple WebSphere Application Server Network Deployment instances, clearly define your location.

c. Run the following script to start the installation.

```
./install.sh|bat -options C:/drive_path/response_file.txt -silent
```

The log files are located in the *install_root/logs/xd_operations/install* directory. If the installation fails before the installation location is located or created, the log files are located in the *user_home/wxd_install_logs* directory. For example, if you log in as root, *user_home* is the */root* directory.

If you install WebSphere Virtual Enterprise in a Network Deployment environment, you can install the centralized installation manager repository, or include the product in the existing repository by further customizing the response file.

2. Optional: If you choose to install the product by passing certain parameters to the command line, run the following script to start the installation:

```
./install.sh|bat -silent -OPT silentInstallLicenseAcceptance=true -OPT installLocation=install_location
```

Results

You successfully installed the product, and started the nodes without any errors occurring.

What to do next

Configure each node to meet your objectives, which you can do either from the administrative console or by using the wsadmin tool.

- Click **Servers** → **All servers** to configure each node from the administrative console.
- See to use the wsadmin tool to configure each node.

Installing the middleware agent

Install the middleware agent on a node that is running other middleware servers created outside of the product environment. You then can create representations of these nodes and servers and manage them in the administrative console.

Before you begin

Augment the deployment manager profile for the product.

About this task

The middleware agent is a server process that is used to manage servers that are not running the product. When you install a WebSphere Extended Deployment fix pack to your deployment manager, you must also apply the fix pack to your middleware agent installations. The deployment manager and the middleware agents must be at the same fix pack level. Complete the following steps to install the middleware agent on the nodes.

1. Run the following command to start the installer:

- **UNIX** **Linux** `./install.sh`
- **Windows** `install.bat`

Attention: By default, the installation wizard selects the appropriate version of the middleware agent to install based on the version of the operating system. For example, if the wizard detects a 64-bit operating system, the wizard automatically installs a 64-bit version of the middleware agent. To override the default selection and install a 32-bit version of the middleware agent on a 64-bit operating system, you can either use the graphical user interface (GUI) or complete the silent installation process. Run the following command to start the installer:

- `./install.aix.ppc32`
- `./install.aix.ppc32 -silent -options`

2. Complete all of the required fields on the wizard panels.

Results

The installation wizard installs the middleware agent files to an empty directory that does not contain any existing files.

What to do next

After you install the middleware agent, you can create middleware servers on the node.

Using the centralized installation manager repository tool to add products

Use the centralized installation manager repository tool to add one or more WebSphere Extended Deployment products to the repository. From the administrative console, you can then use the centralized installation manager to install your added components from the repository to the nodes.

Before you begin

- To populate the repository for the first time, ensure that the destination directory is empty. Additionally, you can add a product to the repository only if the repository does not already contain that specific product.
- Use the centralized installation manager repository tool to add the WebSphere Virtual Enterprise installation image to the repository if you chose not to add it when prompted by the installation wizard. See “Installing the product” on page 5 for more information.

1. Start the repository tool from the following location:

- **UNIX** **Linux** `install_root/bin/xd_cimgrrepository.sh`
- **Windows** `install_root/bin/xd_cimgrrepository.bat`

2. Select one or more products to include in the repository, and click **Next**.

3. Click **Browse** to provide the location of the product installation image.

If you selected to add multiple products in step 2, the panel is displayed again to prompt you for the installation image location for each product.

If you plan to set up a high availability deployment manager environment, you must specify the location of the repository from the current installation location.

For example, if you install the product in the C:\ProgramFiles\IBM\WebSphere\AppServer directory, specify the repository location C:\ProgramFiles\IBM\WebSphere\AppServer\repository_folder.

4. Optional: You can also install a customized installation package (CIP) to the centralized installation manager repository. Manually copy the installation descriptors from the CIP to the *install_root/properties/xdcimgr* directory on the deployment manager workstation:
 - For a Virtual Enterprise CIP:
wxdop_package/XD/xd.primary.ext.pak/repository/cii_identifier/properties/xdcimgr
wxdop_package/custom/InstallPackageXD61.xml*
 - For a Compute Grid CIP:
wxdcg_package/XD/xd.primary.compute.pak/repository/cii_identifier/properties/xdcimgr
wxdcg_package/custom/InstallPackageXD61.xml*
 - For an eXtreme Scale Version 6.1.0.x only CIP:
wxddg_package/XD/xd.primary.data.pak/repository/cii_identifier/properties/xdcimgr
wxddg_package/custom/InstallPackageXD61.xml*

Results

The centralized installation manager repository now contains one or more WebSphere Extended Deployment products. For information on how to install the repository from the command line, see “Installing the product silently” on page 6.

What to do next

Use the centralized installation manager to install the products to the nodes and begin managing your environments. In the administrative console, click **System administration** → **Centralized Installation Manager**.

Installation parameters

Specify parameters at the command line to customize and configure your product installation.

Parameters

You can pass the following parameters during a command-line or options file installation of the product:

-silent

Suppresses the graphical user interface (GUI). Specify the **-options** parameter to indicate that the installer completes the installation according to a customized options file. If you do not specify the **-options** parameter, the default values are used instead.

Example usage

```
./install.sh|bat -silent -options options_file.txt
```

-options path_name/file_name

Specifies an options file that the installer uses to complete a silent installation. Properties on the command line take precedence.

Example usage

```
./install.sh|bat -options c:/path_name/options_file.txt
```

-log # !file_name @event_type

Generates an installation log file that logs the following event types:

- err
- wrn
- msg1
- msg2
- dbg
- ALL

Example usage

```
./install.sh|bat -log # !c:/temp/logfiles.txt @ALL
```

-is:log path_name/file_name

Creates a log file that contains the Java™ Virtual Machine (JVM) searches of the installer while attempting to start the GUI. The log file is not created unless specified.

Example usage

```
./install.sh|bat -is:log c:/logs/javalog.txt
```

-is:javaconsole

Displays a console window during the installation process.

Example usage

```
./install.sh|bat -is:javaconsole
```

-is:silent

Suppresses the Java initialization window that is typically displayed as the installer starts.

Example usage

```
./install.sh|bat -is:silent
```

-is:tempdir path_name

Specifies the temporary directory that the installer uses during the installation.

Example usage

```
./install.sh|bat -is:tempdir c:/temp
```

-OPT installCimgrRepository=true -OPT cimgrInstallLocation=installation_location/cimgr

Installs the centralized installation manager repository to the specified installation location.

Example usage

```
./install.sh|bat -OPT installCimgrRepository=true -OPT cimgrInstallLocation=c:/mydirectory/cimgr
```

-OPT uninstallCimgr=true -silent

Uninstalls the centralized installation manager repository in silent mode.

Example usage

```
./uninstall.sh|bat -OPT uninstallCimgr=true -silent
```

-OPT profileAugmentList=profiles_separated_by_commas

Specifies certain profiles to augment.

Example usage

```
./install.sh|bat -OPT profileAugmentList=profile01, profile02
```

Using the Installation Factory plug-in to create and install customized packages

Use the Installation Factory plug-in to create a customized installation package (CIP) . A CIP contains a single product installation package and various optional assets.

Before you begin

Before you can create and install customized packages, you must first download the following products:

- IBM Installation Factory for WebSphere Application Server
- IBM Installation Factory plug-in for WebSphere Extended Deployment

Note: Do not augment profiles for the product during the installation of WebSphere Virtual Enterprise Version 6.1. If your environment contains WebSphere Application Server Network Deployment Version 7.0, you must install WebSphere Virtual Enterprise Version 6.1.0.5 before you can augment profiles for the product.

About this task

Using the Installation Factory, you create a CIP by combining a single product component with maintenance packages, customization scripts, and other files.

- Create and install a CIP.
 1. Create a build definition file and generate the CIP.
 2. Install the CIP.

See “Creating a build definition file and generating a CIP” on page 12 for more information.

- Create and install an IIP.
 1. Create a build definition file and generate the IIP.
 2. Install the IIP.

See “Creating a build definition file and generating an IIP” on page 15 for more information.

Build definition file

A build definition file is an XML document that specifies how to build and install a customized installation package (CIP) . The Installation Factory plug-in reads the package details of the build definition file to generate a CIP .

Before you can create a CIP , you must create a build definition file for each customized package. The build definition file describes which product components, or installation packages, to install, the location of the CIP , the maintenance packages to include, the installation scripts, and other files that you choose.

The Build definition wizard steps you through the process of creating a build definition file. You can also use the wizard to modify an existing build definition file. Each panel in the Build definition wizard prompts you for information about a customized package, such as the package identification, the installation location for the build definition, and the installation location for the customized package. All of this information is saved in the new build definition file, or modified and saved in an existing build definition file. For more information, see the CIP Build definition wizard panels.

To create only the build definition file, you can use the command-line interface tool to generate the customized package outside of the GUI. See “Silently installing a CIP or an IIP” on page 16 for more information.

Creating a build definition file and generating a CIP

The IBM Installation Factory plug-in for WebSphere Extended Deployment generates a CIP according to the details that the build definition file provides. The build definition specifies the product package to install, the location of the CIP, the maintenance packages to include in the installation, the install scripts, and any additional files to include in the CIP.

Before you begin

Gather the components to include in the CIP. Optional assets can include maintenance packages and additional files to install on the system. Ensure that all of the assets are available on the workstation on which you intend to create your CIP.

About this task

You can use the Build definition wizard to create a build definition file and generate a CIP.

1. Run the following script from the *IF_HOME/bin* directory to start the Installation Factory:

-   `ifgui.sh`
-  `ifgui.bat`

Click the **New Build Definition** icon.

2. Select the product to include in the build definition file, and click **Finish** to start the Build definition wizard.
3. Follow the prompts in the wizard.

On the Install and Uninstall Scripts panel, click **Add Scripts...** to populate the table with any customized installation scripts. Type the location of the script files, and clear the check box to continue if an error message is displayed. The operation is stopped by default. Click **OK** to return to the panel.

Results

You created and customized the build definition file, and you generated the CIP if you chose to work in the connected mode.

If the Build definition wizard does not provide you with the option to generate the CIP from the build definition file, you can still generate it by running the `ifcli.sh|bat` script from the *IF_HOME/bin* directory.

What to do next

Install the CIP.

Installing a CIP

Simplify the product installation process by installing a customized installation package (CIP), which is a single product installation image that can include one or more maintenance packages, configuration scripts, and other files.

Before you begin

Create a build definition file to specify what options to include in the CIP.

About this task

A CIP combines and installs a single product component with maintenance packages, customization scripts, and other files.

1. Stop all the processes that are running on the workstation that you are preparing for installation.

Run the following command to stop the deployment manager:

- `Linux` `UNIX` `profile_root/bin/stopManager.sh`
- `Windows` `profile_root\bin\stopManager.bat`

Run the following command to stop the nodes:

- `Linux` `UNIX` `profile_root/bin/stopNode.sh`
- `Windows` `profile_root\bin\stopNode.bat`

2. Run the following command to start the wizard:

- `Linux` `UNIX` `CIP_home/bin/install`
- `Windows` `CIP_home\bin\install.bat`

3. Follow the prompts to complete the installation.

Results

You successfully installed the CIP.

What to do next

You can use the Profile Management Tool plug-in or the `manageprofiles` command to create and augment profiles for the product.

Installing a CIP to apply maintenance to an existing product installation

You can apply maintenance packages to an existing product installation by installing a customized installation package (CIP).

Before you begin

Create a build definition file to specify what options to include in the CIP.

About this task

When applying maintenance with a CIP that contains a refresh pack, a fix pack, or both, all previously installed authorized program analysis reports (APAR) are uninstalled by the wizard. If the CIP is at the same level as the product, previously installed APARs remain only if they are packaged in the CIP. To successfully apply maintenance or updates to an installation, the CIP must include the installed features. To successfully apply maintenance to an existing installation, which is referred to as a *slip installation*, you must include the installed features in the CIP.

1. Stop all the processes that are running on the workstation that you are preparing for installation.

Run the following command to stop the deployment manager:

- `Linux` `UNIX` `profile_root/bin/stopManager.sh`
- `Windows` `profile_root\bin\stopManager.bat`

Run the following command to stop the nodes:

- `Linux` `UNIX` `profile_root/bin/stopNode.sh`
- `Windows` `profile_root\bin\stopNode.bat`

2. Run the following command to start the wizard:

- `Linux` `UNIX` `CIP_home/bin/install`
- `Windows` `CIP_home\bin\install.bat`

3. Follow the prompts to complete the installation.

Results

The installation preview summary lists the resulting product version and any applicable features and interim fixes. Next, the wizard successfully applies the maintenance and updates the features of the product.

The product binary files are copied to the `was_home/properties/version/nif/` backup directory. You can use the Update Installer to uninstall any updates and restore your workstation.

Uninstalling CIP updates from an existing product installation

You can remove CIP updates from an existing product installation without removing the entire product. Use the IBM Update Installer for WebSphere Software to uninstall any CIP updates.

Before you begin

You must have at least one existing copy of the product installed on the system.

About this task

Complete the following procedure to remove CIP updates from an existing product installation.

1. Download the latest version of the Update Installer. See Recommended fixes for more information.
2. Install the Update Installer. See Installing the Update Installer for WebSphere Software in the WebSphere Application Server Network Deployment Information Center for more information.
3. Uninstall any fix pack, refresh pack, or interim fix that you added to your environment after you installed the CIP.
4. Uninstall any interim fixes that you included in the slip installation. This process is the same as uninstalling a single fix pack or refresh pack. However, the maintenance that was included in the CIP is now included in a single operation.
5. Uninstall the CIP by using the Update Installer. The maintenance levels return to the pre-update state, and the CIP is denoted by the CIP identifier prepended to its filename.

Results

You successfully removed the CIP updates from an existing product installation.

Creating a build definition file and generating an IIP

The IBM® Installation Factory plug-in for WebSphere Extended Deployment generates an IIP based on the properties that the build definition file provides, such as which installation packages to include in the IIP, the order in which the Installation Factory installs each package, and the location of the IIP.

About this task

Using the Build definition wizard, specify the details of an IIP in the build definition file, which is then used to generate the customized package.

1. Run the following script from the *IF_home/bin* directory to start the Installation Factory:

-   `ifgui.sh`
-  `ifgui.bat`

2. Click the **Create New Integrated Installation Package** icon to start the Build definition wizard.
3. Follow the prompts to complete the process.
 - a. On the Construct the IIP panel, select a supported installation package from the list, and click **Add Installer** to add the installation package to the IIP. A panel that displays the package name, the package identifier, and the package properties is displayed. To view specific information about the selected package, click **View Installation Package Information**. Click **Modify** to enter the directory path to the installation package for each operating system. If you are currently adding an installation package for WebSphere Extended Deployment, select the checkbox, which provides you with the option to use the same package for all supported operating systems. Click **OK** and return to the Construct the IIP panel. An invocation is created by default.
 - To modify the directory path to an installation package, select the package from the Installation packages used in the IIP list, and click **Modify**.
 - To modify an invocation, select the invocation, and click **Modify**. Specify the default installation location for the invocation on each operating system. Specify the location to the response file if you select a silent installation as the default installation mode.
 - Click **Add Invocation** to add an invocation contribution to the installation package. A panel from which you can specify properties for the invocation is displayed.
 - Click **Remove** to remove installation packages or invocations.
4. Review the summary of your selections, select the **Save build definition file and generate integrated installation package** option, and click **Finish**.

Alternatively, you can choose to save the build definition file without generating the IIP. With this option, you actually generate the IIP outside of the wizard by running the `ifcli.sh|bat` script from the *IF_home/bin* directory.

Results

You created and customized the build definition file for an IIP.

What to do next

Install the IIP.

Silently installing a CIP or an IIP

You can silently install a CIP or an IIP for the product by using either a fully-qualified response file, which you configure specifically to your needs, or parameters that you pass to the command line.

Before you begin

Create the build definition file for the CIP or IIP.

About this task

A silent installation uses the same installation program that the graphical user interface (GUI) version uses. However, instead of displaying a wizard interface, the silent installation reads all of your responses from a file that you customize, or from parameters that you pass to the command line. If you are silently installing an IIP, you can invoke a contribution with a combination of options that you specify directly on the command line, as well as options that you specify in a response file. However, any contribution options that you pass to the command line causes the IIP installer to ignore all of the options that are specified in a specific contribution's response file. See the detailed IIP installation options for more information.

1. Optional: If you choose to install the CIP or IIP using a response file, first customize the file.
 - a. Copy the response file from the product DVD to your disk drive.
 - b. Open and edit the response file in the text editor of your choice.

Tip: The installer uses the location that you select for your installation to determine where your WebSphere Application Server Network Deployment instance is installed. If you install on a node with multiple instances, clearly define your location.

- c. Run the following script to start your customized response file.

- `Linux` `UNIX` `install -options /absolute_path/response_file.txt -silent`
- `Windows` `install.bat -options C:\drive_path\response_file.txt -silent`

2. Optional: If you choose to install the CIP or IIP by passing certain parameters to the command line, run the following script to start the installation:

- `Linux` `UNIX` `install -silent -OPT silentInstallLicenseAcceptance=true -OPT installLocation=install_location`
- `Windows` `install.bat -silent -OPT silentInstallLicenseAcceptance=true -OPT installLocation=install_location`

where *install_location* is the location of your existing WebSphere Application Server Network Deployment installation.

3. Review the resulting logs for errors or an installation failure.

Results

You silently installed the CIP or IIP.

What to do next

Use the Profile Management Tool plug-in or the `manageprofiles` command to create and augment profiles if you chose not to augment profiles for the product during the installation process.

If you already augmented profiles for the product, you can begin creating and configuring servers and deploying applications in your environment. For more information, see the Preparing the hosting environment for dynamic operations topic in the Information Center.

Creating and augmenting profiles

After you install the product, create unique types of profiles and augment existing profiles for WebSphere Virtual Enterprise.

Before you begin

Ensure that your environment meets all of the hardware and software requirements.

About this task

To utilize the product features, use Profile Management Tool plug-in or the `manageprofiles` command to create and augment profiles for the product.

- Create profiles using the Profile Management Tool plug-in GUI. See “Using the graphical user interface to create profiles” for more information.
- Augment existing profiles using the Profile Management Tool plug-in GUI. See “Using the graphical user interface to augment profiles” on page 19 for more information.
- Use the `manageprofiles` command to create and augment profiles. See “`manageprofiles` command” on page 21 for more information.

What to do next

Depending on which task you choose to complete, start the First steps console for assistance with configuring and testing your product environment. Alternatively, repeat any of the preceding tasks to create or augment additional profiles.

Using the graphical user interface to create profiles

Use the graphical user interface (GUI), which is provided by the Profile Management Tool plug-in, to create profiles for the product. A profile is a set of files that define the runtime environment.

About this task

The Profile Management Tool plug-in enables the graphical user interface (GUI) to assist you in creating profiles, such as a stand-alone application server profile, a deployment manager profile, a cell profile, and a custom profile.

1. Choose one of the following options to start the profile creation wizard:
 - Select **Profile Management Tool** from the First steps console.
 - Access the Profile Management Tool from the **Start** menu.
 - Run the `./pmt.sh` bat script from the `install_root/bin/ProfileManagement` directory.

The Action Selection page is displayed only if at least one profile and the augment templates exist.

2. Follow the prompts to complete the process.

What to do next

You can create additional profiles or augment existing profiles. To restart the Profile Management tool, run the `./pmt.sh|bat` command from the `install_root/bin/ProfileManagement` directory, or select **Profile Management Tool** in the First steps console.

Creating profiles for multiple products

You can create profiles for multiple products to further enhance your environment and utilize all of the product features that are available.

1. Create a new profile for WebSphere Virtual Enterprise.
 - a. Choose one of the following options to start the profile creation wizard:
 - Select **Profile Management Tool** from the First steps console.
 - Access the Profile Management Tool from the **Start** menu.
 - Run the `./pmt.sh|bat` script from the `install_root/bin/ProfileManagement` directory.

The Action Selection page is displayed only if at least one profile and the augment templates exist.

- b. Follow the prompts on the panels.
 - c. Review the summary of your selections, and click **Create**.
 - d. Review the completion panel, and click **Finish**.
2. Augment the profile with the WebSphere Extended Deployment Compute Grid augment template.
 - a. Start the Profile Management Tool plug-in. Run the `./pmt.sh|bat` command from the `install_root/bin/ProfileManagement` directory, or select **Profile Management Tool** from the First steps console. Click **Augment**.
 - b. Select the existing profile that you want to augment, and click **Next**.
 - c. Select the **WebSphere Extended Deployment Compute Grid** augment, and click **Next**. The Profile Verification panel is displayed, which verifies if the profile can be augmented by the selected augment.
 - d. Review the Profile Augmentation Summary panel, and click **Augment**. The Profile Augmentation Complete panel is displayed. Because you are creating the profile specifically for multiple products, click **Augment another profile** to return to the Profile Selection panel.
 3. Augment the profile with the WebSphere eXtreme Scale augment template.
 - a. Select the existing profile that you want to augment, and click **Next**.
 - b. Select the **WebSphere eXtreme Scale** augment, and click **Next**. The Profile Verification panel is displayed.
 - c. Review the Profile Augmentation Summary panel, and click **Augment**. The Profile Augmentation Complete panel is displayed. Click **Finish** to exit the wizard.

Creating profiles for use with other IBM products

You can create profiles that combine WebSphere Extended Deployment features with the features of other IBM products, such as WebSphere Commerce Server and WebSphere Portal for Multiplatforms.

1. Create a new profile for WebSphere Virtual Enterprise. If you installed multiple WebSphere Extended Deployment products, you are not required to create multiple profiles. Instead, create a profile for only one of the products, depending on your topology and any support requirements.
 - a. Choose one of the following options to start the Profile Management Tool plug-in:
 - Select **Profile Management Tool** from the First steps console.
 - Access the Profile Management Tool from the **Start** menu.
 - Run the `./pmt.sh|bat` script from the `install_root/bin/ProfileManagement` directory.

The Action Selection page is displayed only if at least one profile and the augment templates exist.
 - b. Follow the prompts on the panels.
 - c. Review the summary of your selections, and click **Create**.
 - d. Review the completion panel, and click **Finish**.
2. Augment the profile with the augment templates for the other products that exist in your environment.

Restriction: Some augment templates cannot be used more than once with each profile. If unsuccessfully attempted, a message appears that states the selected template does not support multiple augmentations. Click **OK**, and select a different template.

Results

The profile is augmented to use the features of WebSphere Virtual Enterprise and other IBM products.

Using the graphical user interface to augment profiles

After you install the product, you can augment an existing profile to make it compatible with WebSphere Virtual Enterprise.

About this task

When you augment an existing profile, you change the profile by applying a product-specific augmentation template.

1. Choose one of the following options to start the profile augment wizard:
 - Select **Profile Management Tool** from the First steps console.
 - Access the Profile Management Tool from the **Start** menu.
 - Run the `./pmt.sh|bat` script from the `install_root/bin/ProfileManagement` directory.
2. Follow the prompts to complete the process.

Results

You successfully augmented the profile for the product.

What to do next

You can augment additional profiles. To restart the wizard, run the `./pmt.sh|bat` command from the `install_root/bin/ProfileManagement` directory, or select **Profile Management Tool** in the First steps console.

You can also continue establishing your product environment. Start the deployment manager and federate one or more nodes into the cell from the administrative console or by running the addNode command.

Augmenting profiles with multiple product augment templates

To augment a profile with the functionality of all three WebSphere Extended Deployment products, apply the augment template for each of the three products.

Before you begin

- Install WebSphere Application Server Network Deployment, and apply the latest WebSphere Application Server fix pack.
- Install all three WebSphere Extended Deployment products: Virtual Enterprise, Compute Grid, and eXtreme Scale.

Note: If your environment contains WebSphere Application Server Network Deployment Version 7.0, you must install WebSphere Extended Deployment Version 6.1.0.5 before augmenting profiles to use with WWebSphere Extended Deployment. Do not augment profiles to use with WebSphere Extended Deployment during the installation of Version 6.1.

About this task

Apply the augment templates for all three products to update your deployment manager and nodes with available product features.

1. Augment an existing WebSphere Application Server profile with the Virtual Enterprise augment template.
 - a. Choose one of the following options to start the Profile Management Tool plug-in:
 - Select **Profile Management Tool** from the First steps console.
 - Access the Profile Management Tool from the **Start** menu.
 - Run the `./pmt.sh|bat` script from the `install_root/bin/ProfileManagement` directory.

The Action Selection page is displayed only if at least one profile and the augment templates exist.
 - b. Review the Welcome panel, and click **Next**.
 - c. Select the existing profile that you want to augment, and click **Next**.
 - d. Select the **WebSphere Virtual Enterprise** augment template, and click **Next**. The Profile Verification panel is displayed, which verifies if the profile can be augmented by the selected augment template.
 - e. Review the Profile Augmentation Summary panel, and click **Augment**. The Profile Augmentation Complete panel is displayed. Because you are augmenting the profile specifically for multiple products, click **Augment another profile** to return to the Profile Selection panel.
2. Repeat the process until the profile is augmented with the augment template for Compute Grid and the augment template for eXtreme Scale. Click **Finish** to exit the wizard.

Results

You augmented the profile with multiple product augment templates. Your environment now contains the features of each product.

What to do next

You can augment additional profiles. To restart the wizard, run the `./pmt.sh|bat` command from the `install_root/bin/ProfileManagement` directory, or select **Profile Management Tool** in the First steps console.

You can also continue establishing your product environment. Start the deployment manager and federate one or more nodes into the cell from the administrative console or by running the `addNode` command.

manageprofiles command

Use the `manageprofiles` command utility to create and augment profiles with the WebSphere Virtual Enterprise template. To use the features of the product, your environment must contain at least one profile augmented for the product.

Location

The command file is in the `install_root/bin` directory.

Purpose

The `manageprofiles` command creates the runtime environment for a product process in a set of files called a profile. When you augment an existing profile, you change the profile by applying a product-specific augmentation template. You can use the `manageprofiles` command to complete the following tasks:

- Create a deployment manager profile
- Create a custom profile
- Create a stand-alone application server profile
- Create a cell profile
- Augment a deployment manager profile
- Augment a custom profile
- Augment a stand-alone application server profile
- Augment a cell profile
- Unaugment any type of profile

In the following sections, the tasks you can perform using the `manageprofiles` command, along with a list of required parameters, is described. For details on the optional parameters to specify for each task, see the `manageprofiles` command in the WebSphere Application Server Network Deployment Information Center.

Create a deployment manager profile

You can use the `manageprofiles` command to create a deployment manager profile. The deployment manager administers the application servers that are federated into the cell.

Required parameters

-create

Creates the profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*
Specifies the path to the template files in the installation root directory.
(Required)

Use the following format:

`-templatePath install_root/profileTemplates/xd_augment/dmgr`

Example

```
./manageprofile.sh|bat -create -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/dmgr
```

Create a custom profile

You can use the manageprofiles command to create a custom profile.

Required parameters

-create
Creates the existing profile. (Required)

-profileName
Specifies the name of the profile. (Required)

-templatePath *template_path*
Specifies the path to the template files in the installation root directory.
(Required)

Use the following format:

`-templatePath install_root/profileTemplates/xd_augment/managed`

Example

```
./manageprofile.sh|bat -create -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/managed
```

Create a stand-alone application server profile

You can use the manageprofiles command to create a stand-alone application server profile.

Required parameters

-create
Creates the existing profile. (Required)

-profileName
Specifies the name of the profile. (Required)

-templatePath *template_path*
Specifies the path to the template files in the installation root directory.
(Required)

Use the following format:

`-templatePath install_root/profileTemplates/xd_augment/default`

Example

```
./manageprofile.sh|bat -create -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/default
```


Create a cell profile

You can use the `manageprofiles` command to create a cell profile, which consists of a deployment manager and an application server.

Required parameters

Specify the following parameters for the deployment manager profile:

-create

Creates the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/cell/dmgr
```

Specify the following parameters for the application server profile:

-create

Creates the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/cell/default
```

Example

```
./manageprofile.sh|bat -create -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/cell/dmgr  
./manageprofile.sh|bat -create -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/cell/default
```

Augment a deployment manager profile

You can use the `manageprofiles` command to augment a deployment manager profile.

Required parameters

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/dmgr
```

Example

```
./manageprofile.sh|bat -augment -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/dmgr
```

Augment a custom profile

You can use the manageprofiles command to augment a custom profile.

Required parameters

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory.
(Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/managed
```

Example

```
./manageprofile.sh|bat -augment -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/managed
```

Augment a stand-alone application server profile

You can use the manageprofiles command to augment a stand-alone application server profile.

Required parameters

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory.
(Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/default
```

Example

```
./manageprofile.sh|bat -augment -profileName profile01 -templatePath  
install_root/profileTemplates/xd_augment/default
```

Augment a cell profile

You can use the manageprofiles command to augment a cell profile.

Required parameters

Specify the following parameters for the deployment manager profile:

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/cell/dmgr
```

Specify the following parameters for the application server profile:

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/xd_augment/cell/default
```

Example

```
./manageprofile.sh|bat -augment -profileName profile01 -templatePath
install_root/profileTemplates/xd_augment/cell/dmgr
```

```
./manageprofile.sh|bat -augment -profileName profile01 -templatePath
install_root/profileTemplates/xd_augment/cell/default
```

Unaugment a profile

To unaugment a profile, specify the **-ignoreStack** parameter with the **-templatePath** parameter in addition to specifying the required **-unaugment** and **-profileName** parameters.

Required parameters

-augment

Augments the existing profile. (Required)

-profileName

Specifies the name of the profile. (Required)

-ignoreStack

Used with the **-templatePath** parameter to unaugment a particular profile that has been augmented. (Required)

-templatePath *template_path*

Specifies the path to the template files in the installation root directory. (Required)

Use the following format:

```
-templatePath install_root/profileTemplates/
xd_augment/profile_type
```

where *profile_type* is one of four profile types:

- dmgr: deployment manager profile
- managed: custom profile
- default: stand-alone application server profile

- cell: cell profile

Example

```
./manageprofile.sh|bat -unaugment -profileName profile01 -ignoreStack -templatePath
install_root/profileTemplates/xd_augment/profile_type
```

Non-root profile creation and augmentation

Provide a non-root user permissions for files and directories so that the non-root user can create a profile for the product, and augment a profile that was created by a root user, a different non-root user, or the same non-root user.

Overall, non-root users are limited in being able to create and use profiles in their environment. Within the Profile Management Tool plug-in, unique names and port values are disabled for non-root users. The non-root user must change the default field values in the Profile Management tool for the profile name, node name, cell name, and port assignments. Consider assigning non-root users a range of values for each of the fields. You can assign responsibility to the non-root users for adhering to their proper value ranges and for maintaining the integrity of their own definitions.

The term *installer* refers to either a root or non-root user. As an installer, you can grant non-root users permissions to create profiles and establish their own product environments. For example, a non-root user might create a product environment to test application deployment with a profile that he owns. Specific tasks that you can complete to allow non-root profile creation include the following items:

- Creating a profile and assigning ownership of the profile directory to a non-root user so that the non-root user can start WebSphere Application Server for a specific profile.
- Granting write permission of the appropriate files and directories to a non-root user, which allows the non-root user to then create the profile. With this task, you can create a group for users who are authorized to create profiles, or give individual users the ability to create profiles.
- Installing maintenance packages for the product, which includes required services for existing profiles that are owned by a non- user. As the installer, you are the owner of any new files that the maintenance package creates.

For further details, read the detailed information on creating profiles for non-root users, which includes the steps to complete the preceding task examples, in the WebSphere Application Server Network Deployment Information Center.

As an installer, you can also grant permissions for a non-root user to augment profiles. For example, a non-root user can augment a profile that is created by an installer, or augment a profile that he creates. Follow the WebSphere Application Server Network Deployment non-root user augmentation process to complete these tasks.

However, there are exceptions to note. When a non-root user augments a profile that is created by the installer, the following files do not need to be created by the non-root user before augmentation, because they were established during the profile creation process:

- *app_server_root*/logs/manageprofiles.xml
- *app_server_root*/properties/fsdb.xml
- *app_server_root*/properties/profileRegistry.xml

Also, do not modify the Linux or UNIX operating systems **Start menu** permissions.

When a non-root user augments a profile that he creates, the non-root user must modify the permissions for the documents that are located within the WebSphere Virtual Enterprise WebSphere Extended Deployment Compute Grid profile templates.

Using the Update Installer to install maintenance packages

Use the IBM Update Installer for WebSphere Software to update your product environment with various types of maintenance, such as interim fixes, fix packs, and refresh packs.

Before you begin

Install the product.

About this task

Use the Update Installer to install and apply various types of maintenance packages for the product. Because the Update Installer undergoes regular maintenance, you must use the most current version of the tool.

1. Stop all processes that are running in your environment.

To stop the deployment manager, run the following command from the *profile_root/bin* directory of the deployment manager profile:

- `Linux` `UNIX` `./stopManager.sh`
- `Windows` `stopManager.bat`

To stop each node agent, run the following command from the *profile_root/bin* directory of each node:

- `Linux` `UNIX` `./stopNode.sh`
- `Windows` `stopNode.bat`

2. Download the latest version of the Update Installer. See Recommended fixes for more information.
3. Install the Update Installer. See Installing the Update Installer for WebSphere Software in the WebSphere Application Server Network Deployment Information Center for more information.

Attention: To enable the centralized installation manager to call the copy of the Update Installer that you install, you must install the Update Installer into the *WAS_HOME/UpdateInstaller* directory. Otherwise, the centralized installation manager installs an additional copy of the Update Installer into the *WAS_HOME/UpdateInstaller* directory.

4. Download into the *updi_root/maintenance* directory the maintenance packages that you intend to install. See the Support site for more information.
5. Use the Update Installer to install the maintenance package. You can install the maintenance package by running the graphical user interface (GUI), or by running the Update Installer in silent mode.

Run the following command from the *updi_root* directory to start the GUI:

- `Linux` `UNIX` `./update.sh`
- `Windows` `update.bat`

Run the following command from the *updi_root* directory to run the Update Installer in silent mode:

- `Linux` `UNIX` `./update.sh -silent -options responsefile/file_name`
- `Windows` `update.bat -silent -options responsefile\file_name`

If the installation process fails, refer to the temporary log file, which is located in the *updi_root/logs/update/tmp* directory.

Results

Your product environment is now updated with the latest maintenance packages. The Update Installer creates the *install_root/logs/update/maintenance_package.install* directory in which the installation log files are located.

Updating the middleware agent

Install WebSphere Extended Deployment Version 6.1 Fix Pack 3 (6.1.0.3) and the IBM software development kit (SDK), Java Technology Edition 1.5 SR7 Cumulative Fix for WebSphere Application Server Version 6.1.0.17 to update the middleware agent to the latest maintenance levels.

Before you begin

Download and install the IBM Update Installer for WebSphere Application Server Version 6.1.0.x. See “Using the Update Installer to install maintenance packages” on page 27 for more information.

About this task

Use the Update Installer to apply maintenance packages to your existing middleware agent installations. To successfully update the middleware agent with WebSphere Extended Deployment Version 6.1.0.3, you must also install the IBM SDK, Java Technology Edition 1.5 SR7 Cumulative Fix for WebSphere Application Server Version 6.1.0.17.

1. Download the IBM SDK 1.5 SR7 Cumulative Fix for WebSphere Application Server Version 6.1.0.17 into the *updi_root/maintenance* directory. See the IBM SDK 1.5 SR7 Cumulative Fix for WebSphere Application Server download Web site.
2. Download WebSphere Extended Deployment Version 6.1.0.3 into the *updi_root/maintenance* directory. See the Support site for WebSphere Extended Deployment for more information.
3. Use the Update Installer to individually install each maintenance package. You can install the maintenance packages by running the graphical user interface (GUI), or by running the Update Installer in silent mode.

Issue the following command from the *updi_root* directory to start the GUI:

- `Windows` `update.bat`
- `Linux` `UNIX` `./update.sh`

Issue the following command from the *updi_root* directory to run the Update Installer in silent mode:

- `Windows` `update.bat -silent -options responsefile\file_name`
- `Linux` `UNIX` `./update.sh -silent -options responsefile/file_name`

If the installation process fails, then refer to the temporary log file, which is located in the *updi_root/logs/update/tmp* directory.

Click **Relaunch** on the last panel of the Update Installer to install the second maintenance package after the tool installs the first maintenance package.

Results

The middleware agent is now updated with WebSphere Extended Deployment Version 6.1.0.3 and the IBM SDK 1.5 SR7 Cumulative Fix for WebSphere Application Server Version 6.1.0.17.

Uninstalling the product

You can uninstall the product and any maintenance files for the product that are installed in your environment. Complete the uninstallation process either silently or by following the graphical user interface (GUI).

Before you begin

The *install_root/uninstall_xd_operations* subdirectory must exist. If the process fails before the uninstallation files are copied to the workstation, you cannot complete this task. Additionally, you must uninstall any existing maintenance files before attempting to uninstall the product. The wizard will not proceed with the uninstallation if existing maintenance files are detected.

1. Stop all processes before starting the uninstallation process.

Run the following command to stop the deployment manager:

- `Linux` `UNIX` `./stopManager.sh`
- `Windows` `stopManager.bat`

Run the following command to stop the nodes:

- `Linux` `UNIX` `./stopNode.sh`
- `Windows` `stopNode.bat`

`Linux` `UNIX` Complete a search to validate that the Java processes are stopped.

`Windows` Use the task manager to stop the Java processes.

2. Uninstall the product using the wizard or silently.

Run the following script from the *install_root/uninstall_xd_operations* directory to start the wizard:

- `Linux` `UNIX` `uninstall`
- `Windows` `uninstall.exe`

Run the following script from the *install_root/uninstall_xd_operations* directory to silently uninstall the product:

- `Linux` `UNIX` `./uninstall.sh -silent`
- `Windows` `uninstall.bat -silent`

3. Uninstall the deployment manager. Run the following script from the *install_root/uninstall_xd_operations* directory:

- `Linux` `UNIX` `uninstall`
- `Windows` `uninstall.exe`

4. Uninstall the centralized installation manager repository. Run the uninstaller in silent mode, and specify the following option:

Windows

```
uninstall.bat -OPT uninstallCimgr=true -silent
```

Linux

UNIX

```
./uninstall -OPT uninstallCimgr=true -silent
```

Restriction: This option is only supported with the uninstallation of WebSphere Virtual Enterprise.

Results

The product is uninstalled. Review the log files in the *install_root/logs/package_name/uninstall/log* directory for any errors.

Notices

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IBM Director of Licensing
IBM Corporation
500 Columbus Avenue
Thornwood, New York 10594 USA

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