



IBM Software Group

IBM WebSphere® Application Server Feature Pack for Web 2.0

Product installation



@business on demand.

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This presentation is an overview of the IBM WebSphere Application Server Feature Pack for Web 2.0

Agenda

- Downloading the Feature Pack for Web 2.0
- Feature pack installer
- Problem determination
- z/OS® installation
- WebSphere Application Server Community Edition 2.0
- Results of installation
- Eclipse and Rational® Application Developer



The agenda for this presentation includes how to download the Feature Pack for Web 2.0, the results of installing the Feature Pack of Web 2.0, and how to work with Eclipse and Rational Application Developer.

Section

Downloading the Feature Pack for Web 2.0



This next section will explain where to download and how to install the Feature Pack for Web 2.0

Where to find the Feature Pack for Web 2.0

- Download the Feature Pack for Web 2.0 from:

- ▶ The WebSphere Application Server Version 6.1 Feature Packs service page:

<http://www.ibm.com/software/webservers/appserv/was/featurepacks/>

- ▶ IBM Passport Advantage[®]

<http://www.ibm.com/software/howtobuy/passportadvantage/>



The Feature Pack for Web 2.0 can be downloaded from the WebSphere Application Server Version 6.1 Feature Packs service Web site and from the IBM Passport Advantage Web site.

Section

Feature pack installer



The next section discusses the specifics of the Feature Pack for Web 2.0 installer.

Before you begin

- Install a WebSphere Application Server product and test the product installation
- Verify that you are running the minimum level of WebSphere Application Server that is required by the feature pack
- Apply any appropriate iFix
- The operating system requirements for a feature pack are the same as for the application server installation
- Stop the application server and any other processes for the product on which you are installing the feature pack



The Feature Pack for Web 2.0 is an optionally installable product extension for IBM WebSphere Application Server Version 6, 6.1, and 7.0. Before starting this installation, you need to install a WebSphere Application Server Version 6 or 7.0 product if you have not done so already and apply the appropriate iFix.

The operating system requirements for a feature pack are the same as for the application server installation. However, you need to ensure that you have enough free disk space to install the feature pack onto the application server installation. You need to have 280 MB of free space available in your target installation directory and 250 MB of free space available in your temporary directory in addition to the required application server product.

Make sure you stop the application server and any other processes for the product on which you are installing the feature pack.

Feature pack installation

- Installer uses InstallShield Multi-platform
- Provides support for graphical and silent installation
 - ▶ No Launchpad for the Feature Pack for Web 2.0
 - ▶ Can be invoked from the “install” executable file in the <install_image> directory
 - ▶ Silent installation uses a response file as input
 - ▶ Queries for other WebSphere Application Server installations
- Common logging and tracing strategy is used across the WebSphere Application Server and Feature Pack installers



The installer for the Feature Pack for Web 2.0 uses the same InstallShield Multi-platform technologies as the WebSphere Application Server V6 installer. This provides support for graphical or silent installation run from the command line. Silent installation uses a response file, specific to the Feature Pack, that is provided as input to the command. The Feature Pack installer will check for other WebSphere Application Server V6 installation as part of installing. The Feature Pack for Web 2.0 uses the same logging and tracing strategy as the other WebSphere Application Server product installers.

Command-line installation

- Run the “install” file in the root directory of the feature pack installation image and point to the Java™ Virtual Machine (JVM) already included with the application server:
 - `install -is:javahome <app_server_root>\java` **Windows®**
 - `./install -is:javahome <app_server_root>/java` **LINUX® / UNIX®**
 - ▶ Complete the steps in the feature pack installation wizard.
- Silent installation option uses a single response file for options to install product binary and to create a profile.
 - ▶ `<IMAGE_DIR>/install -options “response_file_name” -silent`
 - ▶ Sample file: `<IMAGE_DIR>/responsefile.WEB2FEP.txt`
 - ▶ License acceptance must be changed to “true”



The Feature Pack for Web 2.0 installer can be launched with the “install” executable file from the image directory. When running the installation you must point to the JVM already included with your application server. During a silent installation, a response file is used to obtain the input for the installation process. A sample response file is provided to help get started and show the available options. An important thing to remember is that the license agreement must be changed in the response file, change the `silentInstallLicenseAcceptance` option from “false” to “true”.

Uninstalling overview

- Uninstallation uses InstallShield Multi Platform
- Located under “uninstall” directory
 - ▶ <Install_root>/uninstall_web2fep/uninstall.exe
- Silent uninstallation is supported
 - ▶ <Install_root>/uninstall_web2fep/uninstall –silent
 - ▶ Use 'uninstall -silent



Uninstalling the Feature Pack for Web 2.0 is similar to the other WebSphere Application Server products. On distributed platforms, both the graphical wizard and silent uninstallation options are available. During the installation process, an uninstaller is created under the “uninstall” directory. Invoking the uninstallation process will completely remove the Feature Pack for Web 2.0, but leave maintenance and the base WebSphere Application Server installation behind.

Section

Problem determination



The next section explains how to do problem determination on an installation of the Feature Pack for Web 2.0.

Log file locations

- Log files for installation and uninstallation can be found under these directories
 - ▶ <install_root>/logs/install/web2fep
 - ▶ <install_root>/logs/uninstall/web2fep
- If the logs directory can not be accessed during installation, the logs are saved under <user home>/web2feplogs



Log files contain information about installing, configuring and updating WebSphere Application Server components with the Feature Pack for Web 2.0 updates. The log file will initially be created in your current “temp” directory and then copied into the <Install Home>/logs/web2fep directory. If the installation is terminated before the file is copied, then it will remain in your “temp” directory.

Trace file

- Trace file contain more detailed than the main log.txt file
- These trace files are not translated and meant primarily for IBM service
 - ▶ <Install_root>/logs/web2fep/install/trace.txt.gz
 - ▶ <Install_root>/logs/web2fep/install/trace.xml.gz
- Trace format and trace log level can be changed using command line options
- -OPT traceFormat=ALL/text/XML
 - ▶ ALL (By default) will produce both text and XML format
- -OPT traceLevel=INFO (default is INFO)
 - ▶ See the Appendix for complete list of “traceLevel” options



Trace files contain more detailed information for determining problems, than the standard installation logs. The trace file logs are not translated, because they are intend primarily for use by IBM support and services. The installation trace files can be found in the standard installation log directory for the Feature Pack for Web 2.0. The amount of trace data generated can be altered using command line options, and by options in the silent installation response file. More information about the various trace levels is available in the appendix.

Installation on z/OS – 1 of 2

- Perform SMP/E installation of the required level of WebSphere Application Server for z/OS
 - ▶ Current prerequisites: WebSphere Application Server V6.0.2.30 and WebSphere Application Server V6.1.0.19
- Apply the required WebSphere Application Server interim fixes
- The Web 2.0 V1.0.0.1 Feature Pack is delivered as a PTF for z/OS
 - ▶ For WebSphere Application Server V7 and WebSphere Application Server V6.0.2 only one PTF is needed
 - ▶ For WebSphere Application Server V6.1 two PTFs are required



The Feature Pack for Web 2.0 is an optionally installable product extension for IBM WebSphere Application Server Version 6 and 7.0. Before starting this installation, you need to install a WebSphere Application Server Version 6 or 7.0 product if you have not done so already and apply the appropriate ++APARS.

Verify that you are running the minimum level of WebSphere Application Server for z/OS that is required by the feature pack, and install any WebSphere Application Server for z/OS maintenance that is needed.

Installation on z/OS – 2 of 2

- Follow the installation instructions for the PTFs for the Web 2.0 Feature Pack
 - ▶ The PTF will allocate and initialize an Optional Materials directory in the installation file system
 - ▶ The Web 2.0 product code will then be installed into a subdirectory of the Optional Materials directory
- Create a Network Deployment cell
- Run the linkWEB20xxxzOSImage.sh script from the Optional Materials installation directory
 - ▶ xxx is replaced with the version of WebSphere Application Server you have installed



The Feature Pack for Web 2.0 is included as service with the WebSphere Application Server for z/OS optional materials. Obtain the program temporary fix (PTF) numbers for the Feature Pack for Web 2.0 Version product code from the WebSphere Application Server for z/OS support Web site.

Install the installation-support PTF for the Feature Pack for Web 2.0. This PTF includes JCL to allocate and initialize a file system to hold the Feature Pack for Web 2.0 product code. Follow the instructions contained in this PTF to create the Feature Pack for Web 2.0 file system.

Install the product PTF for the Feature Pack for Web 2.0. This PTF contains the Feature Pack for Web 2.0 product code, which is installed into a subdirectory of the Optional Materials directory.

Run the linkWEB20xxxzOSImage.sh script from the Optional Materials installation directory.

Section

WebSphere Application Server Community Edition 2.0



The next section discusses the specific installation concepts for WebSphere Application Server Community Edition 2.0

Installation

- Install the WebSphere Application Server Community Edition 2 product and test the product installation.
- Installer uses InstallShield Multi-Platform
- Run the installation executable file in the root directory of the feature pack installation.
 - ▶ The installer does not provide a Java virtual machine to run the install, so you will need to instruct the installer where to locate your 1.4.2 or 5.0 Java virtual machine.
 - ▶ Run this command:
 - `install -is:javahome <directory containing your Java Virtual Machine>`.
- The installer wizard will launch.
- Use the wizard to install the set of features on your system.



Install the WebSphere Application Server Community Edition 2 product and test the product installation.

The various features of the feature pack have been made available as an InstallShield Multi-Platform based install package to be compatible with any development environment that you may have. The contents of this feature pack are targeted towards application development environments and the tools of these development efforts. However, you need to ensure that you have enough free disk space to install the feature pack. The following prerequisites are required:

150 MB of free space available in your target installation directory.

Java 1.4.2 or Java 5.0 to run the installer.

The following steps describe how to install the Feature Pack for Web 2.0:

Locate the installer for the Feature Pack. The installer does not provide a Java virtual machine to run the install, so you will need to instruct the installer where to locate your 1.4.2 or 5.0 Java virtual machine. Once located, run the following command: `install -is:javahome <directory containing your Java Virtual Machine>`. The installer wizard will launch. Use the wizard to install the set of features on your system.

IBM Feature Pack for Web 2.0

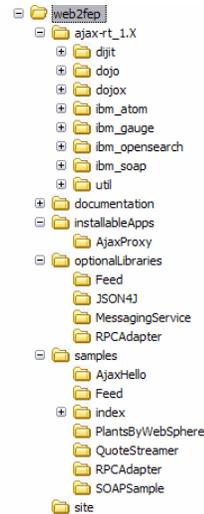
- Web 2.0 SOA Ajax connectivity
 - ▶ Remote Procedure Call adapter
 - ▶ Ajax proxy
 - ▶ Abdera based feed libraries
- Java libraries
 - ▶ JSON4J libraries
 - ▶ Ajax messaging
- Ajax developer's guide
- Ajax development toolkit (Ajax client runtime)
 - ▶ Dojo Toolkit
 - ▶ IBM extensions to the Dojo Toolkit
 - Soap library
 - Atom library
 - Gauge widgets
 - OpenSearch library
- IBM sample applications
 - ▶ Ajax: Hello!
 - ▶ QuoteStreamer
 - ▶ PlantsByWebSphere (Ajax edition)
 - ▶ CourierApp (RPC adapter sample)
 - ▶ HelloWorld (RPC adapter sample)
 - ▶ Feed samples
 - ▶ SOAP sample



IBM WebSphere Application Server Feature Pack for Web 2.0 features includes the Web 2.0 SOA Ajax connectivity: Ajax proxy, Remote Procedure Call (RPC) adapter, and Abdera based Feed Libraries. JSON4J Libraries and Ajax messaging Java libraries and the Ajax Developer's Guide.

Results using the installer for WebSphere Application Server V6 - 7.0

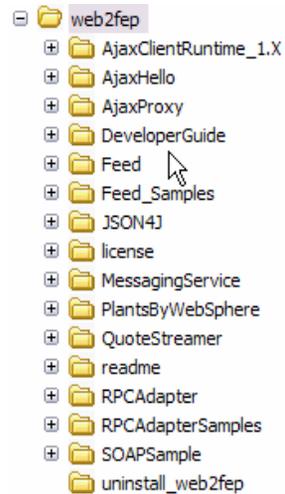
- The installation wizard installs the feature pack into:
<app_server_root>/web2fep
- The installation events are recorded in the installation log files in the
<app_server_root>/logs/install/web2fep directory
- The installer installs all the features and the eclipse-update-site.zip for import into Eclipse.



The installation wizard installs the feature pack into: <app_server_root>/web2fep directory. The layout is shown in the picture on the slide. The installer installs all the features and the eclipse-site.zip for import into Eclipse. All installation events are recorded in the installation log files in the <app_server_root>/logs/install/web2fep directory. If you have any issues with installation look at the installation log files.

Results using the installer for WebSphere Application Server Community Edition

- Each feature has its own folder and each folder contains a documentation directory
- Dojo toolkit is part of the Ajax Client Runtime and it is not a separate download



When extracting the Feature Pack for Web 2.0 for WebSphere Application Server Community Edition 2 you will see the directory structure as depicted in the picture in the slide above. Each feature of the Feature Pack has its own folder where each folder contains a documentation directory.

Section

Eclipse and Rational Application Developer



This section will cover Eclipse and Rational Application Developer

Eclipse and Rational Application Developer

- Suggested Integrated Development Environments (IDEs):
 - ▶ [Rational Application Developer Version 7.5](#)
 - ▶ [Eclipse 3.3](#) with Web tools platform (WTP) 2.5 or higher
- Included in the Feature Pack for Web 2.0 is an archived Eclipse site for use with Eclipse based development located:
 - ▶ `<app_server_root>/web2fep/site/eclipse-update-site.zip`
- Each feature has a set of plug-ins; when you install a feature you get the plug-in for the feature and the plug-in for the help associated with the feature.



The Feature Pack for Web 2.0 includes an archived Eclipse site for ease of use with Eclipse based development. The file is located under `<app_server_root>/web2fep/site/eclipse-update-site.zip`

Each feature has a set of plug-ins and when you install a feature you get the plug-in for the feature and the plug-in for the help associated with the feature.

The Feature Pack for Web 2.0 works well with the Eclipse Version 3.3 with Eclipse Web Tools Platform Version 2.5 and the Rational Application Developer version 7.5

Viewing code

- The client side code for all the samples is JavaScript and HTML.
- Code can be seen by importing the sample into your IDE and opening the enterprise archive (EAR) and Web archive (WAR) files
- All the samples contain the server side code.
- The JSON4J and the messaging libraries source code is not distributed.



The client side code for all the samples is included so that you can better understand how to use the features of the Feature Pack. The JSON4J and the messaging libraries source code are not distributed.

Useful links

- Rational Application Developer Version 7.5 – <http://www.ibm.com/software/awdtools/developer/application/index.html> is one of the premier tools for developing software solutions and applications.
- Eclipse Tools 3.3 - <http://www.eclipse.org>, is an open-source community, whose projects are focused on building an open-development platform that includes extensible frameworks, tools and runtime environments for building, and deploying and managing software across the life cycle.
- Eclipse Web Tools Platform (WTP 2.5 or higher) - <http://www.eclipse.org/webtools/>, extends the Eclipse platform with tools for developing J2EE Web applications.
- The Ajax Toolkit Framework (ATF) - <http://www.eclipse.org/atf>, provides an extensible framework and exemplary tools for building IDEs.



Here are some links for additional information.

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