



IBM Software Group

IBM® WebSphere® Application Server V6

Installation Overview

Distributed Platform



@business on demand.

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Updated March 1, 2005

This presentation will focus on an overview of the install process.

Goals

- The goal is to understand the install overview of different components packaged in WebSphere Application Server V6
- Follow-on presentations contain details of install process of each of the components with the V6 packages



The goals for the presentation are to explain the various components that are packaged as part of WebSphere Application Server V6. Other presentations will provide greater detail, explaining the install of specific components such as the IBM HTTP Server.

Section

Install Overview



The next section discusses the install overview.

Install Overview

- WebSphere Application Server V6 install package consists of the following programs
 - ▶ Application Server
 - ▶ IBM HTTP Server (IHS)
 - ▶ Web Server Plug-ins
 - ▶ Application Client
- Application Server install is profile based
 - ▶ Profiles are sets of runtime configurations, sharing the same product binaries
- All packages support GUI and silent install
- All packages use Installshield Multiplatform (ISMP) for install
- Easy to install IHS and Web Server Plug-in on remote IHS machine
 - ▶ Installed from the Launch pad
 - ▶ Not part of Application Server install wizard

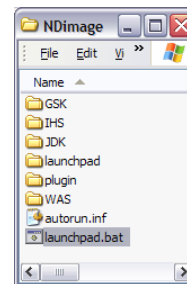


The standard WebSphere Application Server V6 install package contains the Application Server component, the IBM HTTP Server, the Web Server Plug-in and the Application client. Each of these can be installed separately through a wizard or silent install process. New in V6 is the capability to install the IBM HTTP Server and Plug-ins separately on a remote system from the Application Server.

Details of profiles are covered in a separate presentation.

Launch Pad

- GUI install is invoked from a browser-based Launch pad
- It can be used to access product overview, to access the readme file, to access the install guide, and to install the product.
- Launch pad is available on the root directory of the product CD
 - ▶ launchpad.sh on Linux® and UNIX® platforms
 - ▶ launchpad.bat on Windows™ platforms



The various wizard-based GUI install programs can be started from the Launch pad program that comes with WebSphere Application Server V6. Various documentation on the product can also be accessed from the Launch pad. The Launch pad can be found at the root directory of the product CD.

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Launch Pad – Initial page

WebSphere Application Server Network Deployment

Welcome

Solution Installation Diagrams

WebSphere Application Server Network Deployment Installation

IBM HTTP Server Installation

Web Server plug-ins Installation

Application Clients Installation

Application Server Toolkit Installation

WebSphere Application Server Network Deployment Version 6.0

IBM WebSphere Application Server, Version 6.0 is an integrated platform that contains an Application Server, Web development tools, a Web server, and additional supporting software and documentation. This launchpad may serve as a single point of reference for installing your Application Server environment.

See the [solution installation diagrams](#) for illustrations of common application server environments.

To begin, select an entry from the list below. If you would like help documentation and support links to these concepts before initializing a wizard interface, select from the list to the left.

- [Launch the installation wizard for WebSphere Application Server](#)
- [Launch the installation wizard for IBM HTTP Server](#)
- [Launch the installation wizard for Web server plug-ins](#)
- [Launch the installation wizard for WebSphere Application Clients](#)
- [Launch the installation wizard for the Application Server Toolkit on Linux \(Intel\) and Windows platforms](#)

Important:
Before installing a Web server plug-in, you must install a version of WebSphere Application Server and a supported Web server.

Launch Pad contains links to documentation on install of different components

Install Overview
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Here is an example of the screen shown when the Launch pad program is started. The install wizard for the various components can be initiated by clicking on the links in the middle of the panel.

Install – At a Glance

Packages	Components Installed as part of the Install and what can be done post-install	Types of Install available
WebSphere Application Server V6 or WebSphere Application Server V6 Express	Part of Install: <ul style="list-style-type: none"> ▪ Product Binaries ▪ Create Stand-alone Application Server Profile ▪ Optional: Java Doc ▪ Optional: Samples Install checks and options: <ul style="list-style-type: none"> ▪ Check for other WebSphere Application Server installs ▪ Provide port selection 	GUI Install <ul style="list-style-type: none"> ▪ From Launch Pad ▪ From running appropriate Install executable
WebSphere Application Server V6 Network Deployment	Part of Install: <ul style="list-style-type: none"> ▪ Product Binaries ▪ Optional: Start Profile Creation tool to create one of the DMgr or Stand-alone Application Server or Managed Node profile ▪ Optional: Java™ Doc ▪ Optional: Samples Install checks and options: <ul style="list-style-type: none"> ▪ Check for other WebSphere Application Server installs ▪ Provide port selection for profiles 	Silent Install <ul style="list-style-type: none"> ▪ Using custom option file (samples provided)



The next two pages show what is installed as part of the install process for each of the components.

Install – At a Glance

Program	Components Installed as part of the Install and what can be done post-install	Types of Install available
IBM HTTP Server V6	<p>Part of Install:</p> <ul style="list-style-type: none"> IBM HTTP Server V6 GSKit (security component) 	<p>GUI Install</p> <ul style="list-style-type: none"> From Launch Pad From running appropriate Install executable <p>Silent Install</p> <ul style="list-style-type: none"> Using response file (sample provided)
Web Server Plug-in Module	<p>Part of Install:</p> <ul style="list-style-type: none"> Web Server plug-in Global Security Kit (GSKit) security component <p>Additionally:</p> <ul style="list-style-type: none"> Web server configuration file (like HTTPd.conf) is modified to point this Web Server plug-in Web server definitions created in the Application Server package for local plug-in installs 	
WebSphere Application Client V6	<p>Part of Install:</p> <ul style="list-style-type: none"> Application client code 	



This slide continues to show what is installed as part of the install process for each of the components.

Install as non-root

- All WebSphere Application Server V6 components can be installed as non-root, except the following
 - ▶ GSKit component during IHS and Web Server Plug-in install – when installing as non-root, GSKit will not be installed
 - this may be acceptable in a development environment
- However, at this time, IBM will support only configurations installed with “root” authority



These components can all be installed without needing root level access permissions. The only exception to this is the install of the Global Security Kit. This is installed as part of either the plug-in install or the IBM HTTP Server install and requires root level authorities to be installed.

However IBM will only support installs that were performed with root level permissions.

Incremental install

- Scenario:
 - ▶ User wants to install additional features of WebSphere Application Server V6
- Requirements for an incremental install are:
 - ▶ An existing V6 install on the system
 - ▶ User selects the same existing directory
- Install will show additional features available for install
- All programs or components have incremental install options which lets you add options to an existing install
 - ▶ For example, adding samples to an existing install
- Application Server incremental install does not modify already existing profiles
 - ▶ Profiles created after the incremental install will see the new options



WebSphere Application Server V6 supports the concept of an incremental install. After a successful install in which all components were not installed, it is possible to use GUI to install additional components. To perform an incremental install, the user selects an existing install directory for WebSphere Application Server V6. The install process will recognize the existing binaries and offer to install only the features that are not present. This process will not alter any profiles that have already been created.

Section

Install Log files



The next section discusses the location of the log files created during install.

Install Log files

- Each install program creates its own set of log files that can be used for Problem determination
 - ▶ Log file details are included in the install of the appropriate packages
- ISMP uses a file called **vpd.properties**, to track WebSphere products that it installs on all distributed platforms except Solaris™ and HP-UX™
 - ▶ vpd.properties file lists program components that are currently installed
 - ▶ Files updated during install and uninstall
 - ▶ The file helps ISMP to recognize previous installs of WebSphere Application Server products and to control options for new installs
 - ▶ vpd.properties file location:
 - AIX®: root directory or usr/lib/objrepos directory
 - Linux: root directory
 - Windows: C:\WINNT or C:\windows directory



Each install process creates a different set of log files that will contain information about the success or failure of the install. Install Shield for Multi Platforms uses a properties file to track installs of WebSphere products except on Solaris and HP Unix platforms. This file contains information about what components have been installed on a system, and helps ISMP to find previous installs.

More on vpd.properties file

- Certain situations require you to edit and manually remove the entries in vpd.properties file before reinstalling a WebSphere Application Server product
 - ▶ Bypassing the uninstaller program to uninstall a product manually
 - ▶ Uninstalling a product manually when the uninstaller program is not present or is not working



In certain situations you may need to manually edit the vpd.properties file in order to enable a reinstall process. This is needed in the rare situations where you will need to manually uninstall a product rather than use the uninstaller.

Example vpd.properties file

Identifier	Product
WSB...60	All V6 products use this identifier to identify the core product files: <ul style="list-style-type: none"> WebSphere Application Server V6 install WebSphere Application Server V6 WebSphere Application Server V6 Network Deployment
WSP...60	Web server plug-ins for WebSphere Application Server V6
WSC...	WebSphere Application Server V6 Clients
IHS...	IBM HTTP Server V6

Example (Don't attempt to read this)

```
WSBAA60|6|0|0|0|6.0.0.0|1=WebSphere Application Server| IBM WebSphere Application Server| |IBM|
|6.0.0.0| C:\Program Files\IBM\WebSphere\AppServer|0|0|1| WSBAA60|6|0|0|0|6.0.0.0|1|0|false|
"_uninst" "uninstall.jar" "uninstall.dat" ""|true|3| WSBAA60|6|0|0|0|6.0.0.0|1
WSBAA60NDOOnlyComponent| | | | |1=NDOnly.ismp.component| ND Only| |IBM| |6.0.0.0| C:\Program
Files\IBM\WebSphere\AppServer\properties\version\install_6.0.0.0\componentmaps|0|0|1|
WSBAA60NDOOnly|6|0|0|0|6.0.0.0|1|0|false| |true|3| WSBAA60NDOOnlyComponent| | | | |1
...
```



This slide shows an example of the information stored in the VPD properties file.

Section

Summary and Reference

The next section discusses the summary and references.

Summary and References

- WebSphere Application Server V6 has been simplified
- IBM HTTP Server and Web Server Plug-in install separated from the Application Server install wizard

- References
 - ▶ WebSphere Application Server V6 Information Center

This presentation offered a brief overview of the install procedures for WebSphere Application Server V6.

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