



# IBM<sup>®</sup> WebSphere<sup>™</sup> Host Publisher Planning and Installation Guide for Windows NT<sup>®</sup>, AIX<sup>®</sup>, and Solaris<sup>®</sup>

*Version 2 Release 2*





# IBM<sup>®</sup> WebSphere<sup>™</sup> Host Publisher Planning and Installation Guide for Windows NT<sup>®</sup>, AIX<sup>®</sup>, and Solaris<sup>®</sup>

*Version 2 Release 2*

**Note**

Before using this information and the product it supports, be sure to read the general information under "Appendix A. Notices" on page 13.

**Second Edition (July 2000)**

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# Planning and Installing Host Publisher

As with any software, some planning is necessary to ensure a successful installation. Use this planning information to help you install the Host Publisher components.

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## Hardware and software requirements

Host Publisher Studio runs on Windows 95, Windows 98, Windows NT Version 4, and Windows 2000.

Host Publisher Server runs on several platforms. The platforms, and the requirements for each, are listed below.

### Hardware requirements

#### Host Publisher Server

**Windows NT** 105 MB of disk space (60 for IBM WebSphere Application Server); 256 MB RAM (512 MB recommended).

**AIX** 100 MB of disk space (55 for IBM WebSphere Application Server); 256 MB RAM (512 MB recommended).

**Solaris** 55 MB of disk space (45 for IBM WebSphere Application Server); 256 MB RAM (512 MB recommended). We recommend that you allow 512 MB of swap space (256 MB minimum) and room for 512 file descriptors (256 minimum).

#### Host Publisher Studio

**Windows 95, Windows 98, Windows NT, and Windows 2000:**

- Pentium 166 processor or higher
- Minimum of 128 MB RAM
- 90 MB of free disk space
- A display with a color depth of 256 colors or higher.

### Software requirements

#### Host Publisher Server

**Windows NT** Windows NT Workstation or Server Version 4.0, Service Pack 4

Supported Web servers:

- WebSphere Application Server 2.0.3.1

- IBM HTTP Server V1.3.3.3 and V1.3.6.2 (on Host Publisher Server CD) for Windows NT
- Apache Server 1.3.2 and 1.3.6 for Windows NT
- Domino V5.0 for Windows NT
- Lotus Domino Go Webserver V4.6.2.5 for Windows NT
- Microsoft Internet Information Server V3.x and V4.0 for Windows NT
- Netscape Enterprise Server V3.01, V3.51 and V3.6 for Windows NT (recommend 3.6)
- Netscape FastTrack Server V3.01 for Windows NT
- WebSphere Application Server 3.0.2
  - IBM HTTP Server V1.3.6.2 (on Host Publisher Server CD) for Windows NT
  - Apache Server 1.3.6 for Windows NT
  - Domino V5.0 for Windows NT
  - Lotus Domino Go Webserver V4.6.2.5 and V4.6.2.6 for Windows NT
  - Microsoft Internet Information Server V3.x and V4.0 for Windows NT

## AIX

AIX V4.3.2 or V4.3.3

Supported Web servers:

- WebSphere Application Server 2.0.3.1
  - IBM HTTP Server V1.3.6 and V1.3.6.2 (on Host Publisher Server CD) for AIX
  - Apache Server 1.3.2 and 1.3.6 for AIX
  - Domino V5.0 for AIX
  - Lotus Domino Go Webserver V4.6.2.5 for AIX
  - Netscape Enterprise Server V3.01, V3.51, and V3.6 for AIX (recommend 3.6)
  - Netscape FastTrack Server V3.01 for AIX
- WebSphere Application Server 3.0.2
  - IBM HTTP Server V1.3.6 and V1.3.6.2 (on Host Publisher Server CD) for AIX
  - Apache Server 1.3.6 for AIX
  - Domino V5.0 for AIX
  - Lotus Domino Go Webserver V4.6.2.5 and V4.6.2.6 for AIX



**Solaris** Sun Solaris V2.6 or V2.7 SPARC, JDK 1.1.8, and the Native Threads Package

Supported Web servers:

- WebSphere Application Server 2.0.3.1
  - IBM HTTP Server V1.3.3.3 and V1.3.6.2 (on Host Publisher Server CD) for Sun Solaris
  - Apache Server 1.3.2 and 1.3.6 for Sun Solaris
  - Lotus Domino Go Webserver V4.6.2.5 for Sun Solaris
  - Netscape Enterprise Server V3.01, V3.51, and V3.6 for Sun Solaris (recommend 3.6)
  - Netscape FastTrack Server V3.01 for Sun Solaris
- WebSphere Application Server 3.0.2
  - IBM HTTP Server V1.3.6.2 (on Host Publisher Server CD) for Sun Solaris
  - Apache Server 1.3.6 for Sun Solaris
  - Lotus Domino Go Webserver V4.6.2.5 and V4.6.2.6 for Sun Solaris

### **Host Publisher Studio**

#### **Windows 95, Windows 98**

None

#### **Windows NT**

Windows NT Workstation or Server Version 4.0, Service Pack 4

#### **Windows 2000**

Windows 2000 Professional, Server, or Advanced Server

### **Limitations**

Host Publisher Version 2.2 uses IBM WebSphere Application Server 2.0.3.1 or IBM WebSphere Application Server V3.0.2. Refer to documentation on those products to understand any limitation considerations they might have.

### **Performance considerations**

Host Publisher Version 2.2 is a Java product. Performance is a function of the speed of the network, the processing power of the workstation or server, as well as the level of the Java Development Kit (JDK) being used. Host Publisher Version 2.2 ships its own version of the JDK for its use and will periodically update it to newer levels after performing sufficient compatibility and performance tests. If you want to use a newer level of the JDK, we recommend that you first consult IBM Service.

---

## Before installing Host Publisher

Before you begin installing Host Publisher, you must know:

- The desktop folder name (for Windows NT)
- The directory path into which you will install Host Publisher

**Note:** If you are upgrading from Host Publisher Version 2.1, you must install Host Publisher Version 2.2 in the same directory path to ensure access to your existing applications.

- The *alias* you want to use (for Host Publisher Server only)  
The alias is a string that appears in every URL request. It allows the organization of Host Publisher document parts under one directory.
- The number of Host Publisher licenses (connections to host or database resources) for which you are authorized
- If Host Publisher installation does not detect WebSphere Application Server on the machine, WebSphere Application Server V3.0.2 is installed. You must know the userid and password to access the database where WebSphere Application Server configuration information is stored.

If you have WebSphere Application Server 2.0.3.1 installed, stop your Web server and WebSphere. If you have WebSphere Application Server 3.0.2 installed, keep your Web server and WebSphere running.

---

## Installing Host Publisher Server

Installation of the Host Publisher Server includes the following:

- WebSphere Application Server (if not currently installed)
- Java Development Kit (JDK) (except on Solaris)

**Note:** WebSphere Application Server, if installed with Host Publisher, points to this JDK. If WebSphere Application Server is already installed on your system, the level of JDK for WebSphere is not upgraded. This could cause runtime problems. See the chapter on troubleshooting in the *Host Publisher Administrator's and User's Guide* for more information. To see what level of the JDK we require, change to the *install\_dir/common/jdk/bin* directory, where *install\_dir* is the directory in which Host Publisher is installed, and run the command: `./java -version`. This represents the minimum required level of the JDK.

- Host Publisher 2.2 Server code
- Host Publisher Server Administration files
- A server configuration file (server.properties), that contains the purchased number of licenses

Publishing of applications is handled by the Host Publisher Studio; however, some database and host access samples have been provided for your use. Refer to <http://www.ibm.com/software/network/hostpublisher/downloads/> for the latest information about the samples.

During installation, these files are modified:

### **WebSphere Application Server 2.0.3.1**

- WebSphere Application Server's **bootstrap.properties** file, to allow it to access Java code installed with Host Publisher 2.2
- WebSphere Application Server's **servlets.properties** file, to define the Host Publisher Server Administration servlet, and to make Integration Objects that are published later accessible to WebSphere
- Web server configuration files, to configure the Host Publisher Server alias.

### **WebSphere Application Server 3.0.2**

- WebSphere Application Server's configuration database, to define the Host Publisher Administration servlet and to enable WebSphere to access your Host Publisher documents
- Web server configuration files, to configure the Host Publisher Server alias
- WebSphere Application Server's administration configuration files, to access the Host Publisher class files
- HTTP server configuration files, to add Host Publisher aliases.

## **Installing on Windows NT, AIX, and Solaris**

To install Host Publisher on Windows NT, AIX, and Solaris:

1. If you have WebSphere Application Server 2.0.3.1 installed, stop your Web server and WebSphere. If you have WebSphere Application Server 3.0.2 installed, keep your Web server and WebSphere running.
2. Insert the CD.
  - a. **Windows NT:** Wait for the Start window. If the autorun screen does not appear, run the installation program from the CD root directory (setupwin.exe).
  - b. **AIX and Solaris:** Run the installation program from the CD root directory (setupaix.sh or setupsun.sh).
3. Click **Install Products**.
4. Proceed through the windows, making appropriate choices where necessary.
5. To read the latest product information, click the button for the README file.
6. Click Finish when the final window appears.

On Windows NT, reboot after you complete installation, and start WebSphere Application Server.

If you are running WebSphere 3.0.2, stop and restart WebSphere Application Server.

---

## Installing Host Publisher Studio

1. Wait for the Start window. If the autorun screen does not appear, run the installation program from the CD root directory (setup.exe).
2. Proceed through the installation windows.
3. Click Finish when the final window appears.

**Note:** If you plan to create a response file for silent installation of the Host Publisher Studio on other machines, refer to “Silent installation of Host Publisher Studio” on page 7. The Host Publisher Studio is installed following the creation of the response file.

---

## Silent installation of Host Publisher Server

To perform a silent installation of Host Publisher Server, you must first create a response file that contains the information required on the installation panels. This file is usually called `install.script`; a default `install.script` file is provided for you in the `\instmgr\your_platform` directory, where *your\_platform* is either **win**, **aix**, or **sun**.

To record your own response file, go to the `\instmgr\` directory on the CD, and run the appropriate installation sequence for your platform with the following parameters:

```
instwin.bat -r responsefile_path
instaix.sh -r responsefile_path
instsun.sh -r responsefile_path
```

where *responsefile\_path* is the path where you want the response file to reside.

For example:

```
instwin.bat -r c:\WINNT\install.script
```

or

```
instaix.sh -r ./tmp/install.script
```

To play back the response file, go to the `\instmgr` directory on the CD and run the following command for your platform:

```
instwin.bat -p responsefile_path
```

or

```
instaix.sh -p ./tmp/install.script
```

---

## Silent installation of Host Publisher Studio

Silent installation of Host Publisher Studio differs from the silent installation for the server. After creating a response file, the Host Publisher Studio is installed in the location you specify on the installation panels.

To create a response file that contains the information required on the installation panels, and install the Host Publisher Studio, type the following at a command prompt:

```
setup.exe -r -f1responsefile_path -f2logfile_path
```

where *responsefile\_path* and *logfile\_path* are the paths where you want the response file and log file to reside.

The *-f2* parameter is optional. For example:

```
setup.exe -r -f1c:\WINNT\setup.iss
```

or

```
setup.exe -r -f1c:\HostPublisher\setup.iss -f2c:\HostPublisher\setup.log
```

This creates a response file with a typical *.iss* extension in the specified directory.

To run a silent installation using the response file, at the command prompt, type:

```
setup.exe -s -f1responsefile_path -f2logfile_path
```

The *-f2* parameter is optional. For example:

```
setup.exe -s -f1c:\WINNT\setup.iss
```

or

```
setup.exe -s -f1c:\HostPublisher\setup.iss -f2c:\HostPublisher\setup.log
```

The *setup.log* file provides installation details. If the silent installation is successful, the *ResultCode* is 0. If the silent installation fails, the *ResultCode* is often -12. This indicates that the information in the response file does not exactly correspond to the panels presented during the silent installation. It is important for the response file information to match the installation panels, so make sure you create the response file and run the silent installation in the same environment.

---

## Testing installation of the Server

After you complete installation of Host Publisher 2.2, start the Web server, then access a simple HTML page. In this way, you can ensure that the Host Publisher alias is working.

1. Copy the following HTML code to a file named test.html.

```
<!doctype html public "html2.0">
<html>
<body>
<h1 align="center">My home page</h1>
</body>
</html>
```

2. Place test.html in the *install\_dir*\Server\production\documents directory path, where *install\_dir* is the directory in which Host Publisher is installed. On Windows NT, *install\_dir* defaults to c:\HostPub\. On AIX and Solaris, *install\_dir* is usually /var/HostPublisher/.  
3. Load <http://myhost/alias/test.html> in your browser, where *alias* is the alias you defined when installing Host Publisher. The default alias is /HostPublisher/.

If the test file is not found, check the Web Server's configuration files to ensure the Host Publisher alias is defined. Stop and restart the Web Server if you make changes.

If you are running Host Publisher under WebSphere Application Server 3.0.2, start the Host Publisher Application Server using the WebSphere Administrator's Console application. Under WebSphere 3.0.2, Host Publisher is configured in its own JVM as its own Application Server.

1. **Windows NT:** The Console is started with the adminclient.bat script.
2. **AIX and Solaris:** The Console is started with the adminclient.sh script.

**Note:** For all platforms, the adminclient file is located in the /WebSphere/AppServer/bin directory.

In the Console, select the HostPubServer Application Server you find beneath your Node, and press the Start icon. A dialog box will indicate when the server has successfully started.

Next, access a simple JSP page to make sure all the basic WebSphere Application Server settings are correct.

1. Copy the following HTML code to a file named test.jsp.

```
<html>
<head>
<title>JSP Test</title>
</head>
<body>
```

```
<h2>Hello world</h2>
<h4>I'm at <%=request.getRequestURI() %></h4>
</body>
</html>
```

2. Place test.jsp in the *install\_dir*\Server\production\documents directory path, where *install\_dir* is the directory in which Host Publisher is installed.
3. Load <http://myhost/alias/test.jsp> in your browser, where *alias* is the alias you defined when installing Host Publisher. The default alias is /HostPublisher/.

If <http://myhost/alias/test.jsp> fails to load, ensure that WebSphere Application Server is started. If you are running Host Publisher under WebSphere Application Server 3.0.2, ensure that the Application Server named HostPubServer is started in the WebSphere Administrator's Console.

Next, check the configuration of Host Publisher to WebSphere Application Server.

#### WebSphere 2.0.3.1:

1. Start WebSphere Administration.
2. Ensure that the Host Publisher Server Administration servlet is defined and started.
3. Ensure that the servlet initialization parameters appear in the WebSphere Application Server administration. These parameters are:
  - **install\_dir**
  - **log\_dir** (not needed on Windows NT)
  - **server\_dir** (not needed on Windows NT)

#### WebSphere 3.0.2:

1. Start the WebSphere Administrator's Console.
2. Ensure that the **HostPubServer**, **HPServletEngine**, **hostpublisher**, and **\_IBM\_HP\_WebAdmin\_** entries appear in the topology tree. If these entries are not present, manually run the configuration script located in *install\_dir*, where *install\_dir* is the directory in which Host Publisher is installed. To run the configuration script, type the following on the command line:

```
./HostPubWAS HostPubWASConfig.xml
```
3. Load <http://myhost/alias/showCfg> in your browser, where *alias* is the alias you defined when installing Host Publisher, to see more configuration information. The default alias is /HostPublisher/.

Finally, test the sample applications. Refer to <http://www.ibm.com/software/network/hostpublisher/downloads/> for information on downloadable test applications.

---

## Diagnosing installation problems

Several log files are created during Server installation. These files are located in the directory indicated by the TEMP environment variable; the default is c:\TEMP on Windows NT and /tmp on AIX and Solaris. The files are:

### **HostpubTrace.log**

This file contains the trace data on installation progress. This file contains information primarily about the interface and the install engine. Generally, this is the most important log file, since it provides detail about what the program was doing when it failed.

### **setupHpsserver.log (Windows NT)**

This is the log file from the Host Publisher Server installation. Errors that occurred during the Host Publisher Server silent installation will result in a non-zero ResultCode in this file.

### **InstMgr.log (AIX)**

This file contains the output from the Host Publisher Server installation command: **installp**.

### **/var/tmp/WebSphere.instl (Solaris)**

This file contains the output from the native installation of WebSphere Application Server.

---

## Uninstalling Host Publisher

To uninstall Host Publisher Studio:

1. From the Control Panel, click Add/Remove Programs.
2. Select IBM Host Publisher Studio.
3. Click Add/Remove.

To uninstall Host Publisher Server:

### **On Windows NT:**

1. From the Control Panel, click Add/Remove Programs.
2. Select IBM Host Publisher Server.
3. Click Add/Remove.

**On AIX** do one of the following:

- On the command line, type: `installp -ug HostPublisher.rte`
- or
- Through SMIT, remove the filesets named HostPublisher.

**Note:** If WebSphere Application Server and Host Publisher Server were installed at the same time, WebSphere will be configured to use the



JDK shipped with Host Publisher Server. Do not uninstall Host Publisher's JDK unless you are sure it is not being used by WebSphere.

**On Solaris:**

- On the command line, type: `pkgrm IBMhpsvr IBMhp[three-letter language code]`

For example, to remove an English package, type `pkgrm IBMhpsvr IBMhpenu`. If you do not know your language code, type `pkginfo | grep IBMhp` to get the names of your packages.

Host Publisher Studio and Host Publisher Server, when installed in the same directory on Windows NT, share files located in the *yourinstalldir*\Common directory. The operating system marks these files as shared, so they are not removed if either product remains on the system. When all Host Publisher components are removed from the system, you are asked to remove the shared files.

---

## Uninstalling WebSphere Application Server

WebSphere Application Server is *not* removed during uninstallation of Host Publisher. If no other programs are using WebSphere, you can remove the product as follows:

**On Windows NT:**

1. From the Control Panel, click Add/Remove Programs.
2. Select IBM WebSphere Application Server.
3. Click Add/Remove.

**On AIX** do one of the following:

- On the command line, type: `installp -ug IBMWebAS`
- or
- Through SMIT, remove the filesets named IBMWebAS.

**On Solaris:**

- On the command line, type: `pkgrm IBMWebAS`



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## **Programming interface information**

This Planning and Installation Guide contains information on intended programming interfaces that allow the customer to write programs to obtain the services of Host Publisher.



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# Readers' Comments — We'd Like to Hear from You

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Planning and Installation Guide for Windows NT®, AIX®, and Solaris®  
Version 2 Release 2

Publication No. SC31-8730-01

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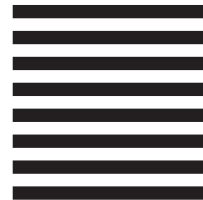
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