

Installing the Advanced Single Server Edition on AIX using the Typical Installation option

The steps that follow describe the easiest way to install a single configuration of WebSphere Application Server Advanced Single Server Edition that uses the following--

- AIX 4.3.3 or AIX 5.1
- IBM Java 2™ Software Developer's Kit (SDK) 1.3.0
- IBM HTTP Server 1.3.19
- A single node

See the WebSphere Application Server Supported Software and APIs Web site at www.ibm.com/software/webservers/appserv/doc/latest/prereq.html to determine the products and fix levels that are supported for use with your version of WebSphere Application Server.

Steps for installation

[Installing WebSphere Application Server 4.0 -- Advanced Single Server Edition -- Typical Installation option](#)

[Testing the installation](#)

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Installing WebSphere Application Server 4.0 -- Advanced Single Server Edition -- Typical Installation option

This article describes the quickest way to install WebSphere Application Server Advanced Single Server Edition and IBM HTTP Server on an AIX machine.

These instructions assume the following:

- Your machine has enough memory and disk space for your installation. The Typical Installation requires approximately 92 MB of disk space for WebSphere Application Server and an additional 22 MB for IBM HTTP Server.
- If you plan to use IBM HTTP Server, you will select it for installation during the WebSphere Application Server installation process. If you plan to use a different supported Web server with WebSphere, you have already installed it on the same machine that will contain WebSphere Application Server.
- You do not have a previous version of WebSphere Application Server already installed on this machine. If you do have a previous version of WebSphere Application Server already installed, do not follow these instructions. Instead, see the article [Migration overview](#).

Perform the following steps to install WebSphere Application Server:

1. Ensure that you are logged into the machine with superuser (root) privileges.
2. If you have a version of IBM HTTP Server previous to version 1.3.19 installed on your machine, uninstall IBM HTTP Server. The Typical Installation of WebSphere Application Server installs IBM HTTP Server version 1.3.19.
3. If another Web server is running on your system, stop the Web server.
4. Insert the WebSphere Application Server CD-ROM into the CD-ROM drive.
5. If necessary, use the **mkdir** command to create a mount point for the CD-ROM. The following command creates a mount point at the directory /cdrom; you can mount the CD-ROM at any location on the machine's local file system.

```
# mkdir /cdrom
```

The commands in these steps assume the CD-ROM is mounted at /cdrom. If you mount the CD-ROM at a different location, use that location when issuing commands.

6. Mount the CD-ROM drive by entering the following command:

```
# mount -o ro -v cdrfs /dev/cdnumber /cdrom
```

In this command, *number* is the CD-ROM number for your system, usually 0 (zero). Note that this command assumes that the CD-ROM is mounted at /cdrom.

7. Ensure that the DISPLAY and TERM environment variables are set properly.
8. If the supported Web server or database you plan to use with WebSphere is newer than the version currently required by WebSphere Application Server, you must update the prereq.properties file or disable the prerequisite checking functionality before installing WebSphere Application Server.

To obtain an updated prereq.properties file, download the latest version from the WebSphere Application Server Tools Web site at www.ibm.com/software/webservers/appserv/tools.html. Ensure that the updated prereq.properties file is downloaded or copied into the local /tmp directory.

To disable prerequisite checking functionality, perform the following steps:

- a. Copy the prereq.properties file from the /cdrom directory to the /tmp directory on the machine on which you plan to install WebSphere Application Server.
 - b. Open the prereq.properties file in a text editor and disable prerequisite checking for an individual component by changing the value of the specific key from 1 to 0.
 - c. Save the edited prereq.properties file.
9. Navigate to the /cdrom/aix directory.
 10. If you have not downloaded an updated prereq.properties file or disabled the prerequisite checking functionality, start the WebSphere Application Server installation program by using the **install.sh** command, as follows:

```
# ./install.sh
```

If you have downloaded an updated prereq.properties file or disabled the prerequisite checking functionality as detailed in [Step 8](#), start the WebSphere Application Server installation program by using the **install.sh** command, as follows:

```
# ./install.sh -prereqfile /tmp/prereq.properties
```

11. The Welcome to the IBM WebSphere Application Server Setup program dialog box opens. Click **Next** to continue.
12. The Install Options dialog box opens. Ensure that **Typical Installation** is selected, and click **Next**.
13. The Select Destination Directory dialog opens. Specify the directory in which you want to install WebSphere Application Server. You can either accept the default destination directory or specify a different one by typing the full pathname or by clicking **Browse**. Note that you cannot modify the destination directory for IBM HTTP Server. Click **Next** to continue.
14. The Setup Complete dialog box opens. To view the ReadMe file, ensure that **Yes, I want to view the ReadMe File** is selected and click **Finish**; the ReadMe file opens in a default browser window. To view the ReadMe file at a later time, deselect **Yes, I want to view the ReadMe File** and click **Finish** to exit from the IBM WebSphere Application Server Setup program.
15. The WebSphere Application Server - First Steps dialog box opens. You can use this GUI to access product information in the InfoCenter, start and stop the application server, run the WebSphere samples, launch the administrative console, or launch the application assembly tool. Because you must first start and possibly configure the Web server before using WebSphere, close this dialog for now. You can launch the First Steps GUI at a later time by running the **firststeps.sh** script located in the /usr/WebSphere/AppServer/bin directory.
16. Unmount the CD-ROM before removing it from the CD-ROM drive by using the **umount** command, as follows:

```
# umount /cdrom
```

17. If you are using a Web server other than IBM HTTP Server, start the server. If you are using IBM HTTP Server and have installed it during the WebSphere Application Server installation, you may need to configure the Web Server to run it successfully.

Perform the following steps to verify that IBM HTTP Server is installed and configured correctly:

- a. Ensure that the Web server is running. If not, start it by entering the following command:

```
# /usr/HTTPServer/bin/apachectl start
```

- b. Start a browser and enter the name of the local machine as the URL. If you see the IBM HTTP Server Web page, the server is installed and configured correctly.

See the IBM HTTP Server documentation Web site at www.ibm.com/software/webservers/httpservers/library.html for more information about configuring IBM HTTP Server.

To enable the Secure Sockets Layer (SSL) for IBM HTTP Server, see the IBM HTTP Server documentation Web site at www.ibm.com/software/webservers/httpservers/doc/v1319/index.html for more information.

18. Proceed to the article [Testing the installation](#).

Testing the installation

This article describes how to test the installation and configuration of your WebSphere Application Server system. These instructions assume that you have installed a supported Web server and the WebSphere Application Server component.

Perform the following steps to test your WebSphere installation:

1. Ensure that you are logged into the machine with superuser (root) privileges.
2. Start the server by executing the **startServer** script, as follows:

```
# cd /usr/WebSphere/AppServer/bin
# ./startServer.sh
```

Ensure that the server has started successfully by checking the file named `Default_Server_stdout.log` located in the `/usr/WebSphere/AppServer/logs` directory. The message `Server open for e-business` appears in this file when the server has started successfully.

3. Start a Web browser and enter the following URL:

```
http://machine_name:9090/admin
```

In this command, *machine_name* represents the name of the machine on which WebSphere is running.

4. The Login dialog opens, and prompts you to enter a user ID to which your configuraton changes will be saved. Enter a user ID and click **Submit**. If you do not care to save changes using your user ID, click **Submit** without entering a user ID and your changes will be saved using the default user ID `User`.

If the user ID you have entered is already in use and in session, you are prompted to do one of the following:

- o Force the existing user ID out of session. The configuration file that was being used by the existing user ID will be saved in a temporary storage area. You will be prompted to load the saved file; choosing not to do so will delete it from the temporary storage area.
- o Wait for the existing user ID to log out or time out of the session.
- o Select a different user ID.

5. Administer the application server by performing the following steps:
 - a. When the console opens, a tree view is displayed. Click the plus sign (+) next to **Nodes** entry to expand the view.
 - b. Identify the name of your host machine and expand the view of that entry.
 - c. Click the plus sign (+) next to the **Application Servers** entry to expand the view.
 - d. Select the **Default Server** entry. If the value of the **Execution State** field is **STOP**, click the dropdown menu and select **START**.

After the default server is started initially, it will start automatically if it stops or if you restart the machine.

- e. Click **OK**.
6. Ensure that the Web server is running. If the Web server is not running, start it.
7. Start a Web browser and enter the URL for the snoop servlet, which is a sample servlet that is installed by default, as follows:

```
http://machine_name/servlet/snoop
```

In this command, *machine_name* represents the name of the machine on which WebSphere is running. Information about /servlet/snoop is displayed.

8. Ensure that you save any changes you want to keep. If you do not save the changes, they will be lost when you close the Web browser.
9. To stop the console, close the Web browser.
10. Proceed to the article [Testing with an enterprise bean](#).

Testing with an enterprise bean

This article describes how to test your WebSphere configuration by using an enterprise bean and the Increment sample. These instructions assume that you have installed your WebSphere Application Server system and have tested the installation by using the instructions in the article [Testing the installation](#).

Perform the following steps to test your WebSphere configuration using an enterprise bean:

1. Ensure that you are logged into the machine with superuser (root) privileges.
2. Ensure that the administrative console is running.
3. Ensure that the default server (located under **WebSphere Administrative Domain > Nodes > node_name > Application Servers**) is running.
4. Start a Web browser and specify the following URL:

```
http://machine_name/webapp/examples/HitCount
```

In this command, *machine_name* represents the name of the machine on which WebSphere is running. When the Web page opens, several selection options are displayed.

5. Under the heading **Generate hit count using**, click the radio button for the **Enterprise Java Bean** option.
6. Under the heading **Transaction Type**, click the radio button for the **None** option.
7. Click **Increment**.

If the number of hits is displayed, WebSphere is functioning properly.

Uninstalling WebSphere Application Server

Perform the following steps to uninstall WebSphere Application Server from a UNIX machine:

1. Ensure that you are logged into the machine with superuser (root) privileges.
2. If IBM HTTP Server or another Web server is running on your system, stop the Web server.

Note: Although IBM HTTP Server can be installed using the WebSphere Application Server installation program, it is not uninstalled when you uninstall WebSphere Application Server. It must be uninstalled separately. See the IBM HTTP Server Library Web site at www.ibm.com/software/webservers/htpservers/library.html for more information.

3. Ensure that your DISPLAY and TERM environment variables are set properly.
4. Navigate to the root installation directory (/opt/WebSphere/AppServer on HP-UX, Linux, and Solaris; /usr/WebSphere/AppServer on AIX) and execute the **uninstall.sh** script as follows:

```
# ./uninstall.sh
```

5. The uninstallation program starts and the Uninstall dialog box opens. Click **Uninstall** to remove WebSphere

Application Server from the machine.

6. To ensure that subsequent installations of WebSphere Application Server do not conflict with files left on the machine from a previous installation, use the **rm -r** command to remove the WebSphere directory structure. Use caution when executing this command to prevent the unintentional removal of portions of the file system.