



Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Installation Guide

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Preface

This *Installation Guide* provides instructions for installing the Sun Java™ System Application Server Platform Edition 8.1 2005Q2 software.

Who Should Use This Book

This guide is intended for system administrators, network administrators, evaluators, application server administrators, web developers, and software developers who want to install the Application Server software.

This guide assumes you are familiar with the following topics:

- Installation of software products
- UNIX, Linux, or Microsoft Windows, depending on your operating system
- Client/server programming model
- Internet and World Wide Web

How This Book Is Organized

TABLE P-1 How This Book Is Organized

Chapter	Description
Chapter 1	Provides instructions for installing Application Server software on UNIX, Linux, and Windows

TABLE P-1 How This Book Is Organized (Continued)

Chapter	Description
Chapter 2	Provides instructions for uninstalling Application Server software

Application Server Documentation Set

The Application Server documentation set describes deployment planning and system installation. The URL for Application Server documentation is <http://docs.sun.com/app/docs/coll/1343.1>. For an introduction to Application Server, refer to the books in the order in which they are listed in the following table.

TABLE P-2 Books in the Application Server Documentation Set

Book Title	Description
<i>Release Notes</i>	Late-breaking information about the software and the documentation. Includes a comprehensive, table-based summary of the supported hardware, operating system, JDK, and JDBC/RDBMS.
<i>Quick Start Guide</i>	How to get started with the Application Server product.
<i>Installation Guide</i>	Installing the software and its components.
<i>Developer's Guide</i>	Creating and implementing Java™ 2 Platform, Enterprise Edition (J2EE™ platform) applications intended to run on the Application Server that follow the open Java standards model for J2EE components and APIs. Includes general information about developer tools, security, assembly, deployment, debugging, and creating lifecycle modules.
<i>J2EE 1.4 Tutorial</i>	Using J2EE 1.4 platform technologies and APIs to develop J2EE applications.
<i>Administration Guide</i>	Configuring, managing, and deploying Application Server subsystems and components from the Administration Console.
<i>Administration Reference</i>	Editing the Application Server configuration file, <code>domain.xml</code> .
<i>Upgrade and Migration Guide</i>	Migrating your applications to the new Application Server programming model, specifically from Application Server 6.x and 7. This guide also describes differences between adjacent product releases and configuration options that can result in incompatibility with the product specifications.
<i>Troubleshooting Guide</i>	Solving Application Server problems.
<i>Error Message Reference</i>	Solving Application Server error messages.

TABLE P-2 Books in the Application Server Documentation Set (Continued)

Book Title	Description
<i>Reference Manual</i>	Utility commands available with the Application Server; written in man page style. Includes the <code>asadmin</code> command line interface.

Related Books

For other Sun Java System server documentation, go to the following:

- Message Queue documentation
- Directory Server documentation
- Web Server documentation

The URL for all documentation about Java ES and its components is <http://docs.sun.com/prod/entsys.05q4>.

Default Paths and File Names

The following table describes the default paths and file names that are used in this book.

TABLE P-3 Default Paths and File Names

Placeholder	Description	Default Value
<i>install-dir</i>	Represents the base installation directory for Application Server.	<p>Sun Java Enterprise System installations on the Solaris™ platform:</p> <p><code>/opt/SUNWappserver/appserver</code></p> <p>Sun Java Enterprise System installations on the Linux platform:</p> <p><code>/opt/sun/appserver/</code></p> <p>Other Solaris and Linux installations, non-root user:</p> <p><i>user's home directory</i>/<code>SUNWappserver</code></p> <p>Other Solaris and Linux installations, root user:</p> <p><code>/opt/SUNWappserver</code></p> <p>Windows, all installations:</p> <p><code>SystemDrive:\Sun\AppServer</code></p>
<i>domain-root-dir</i>	Represents the directory containing all domains.	<p>Sun Java Enterprise System installations on the Solaris platform:</p> <p><code>/var/opt/SUNWappserver/domains/</code></p> <p>Sun Java Enterprise System installations on the Linux platform:</p> <p><code>/var/opt/sun/appserver/domains/</code></p> <p>All other installations:</p> <p><i>install-dir</i>/<code>domains/</code></p>
<i>domain-dir</i>	<p>Represents the directory for a domain.</p> <p>In configuration files, you might see <i>domain-dir</i> represented as follows:</p> <p><code>\${com.sun.aas.instanceRoot}</code></p>	<i>domain-root-dir</i> / <i>domain-dir</i>

Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P-4 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name%</code> su Password:
<i>AaBbCc123</i>	A placeholder to be replaced with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized (note that some emphasized items appear bold online)	Read Chapter 6 in the <i>User's Guide</i> . A <i>cache</i> is a copy that is stored locally. Do <i>not</i> save the file.

Symbol Conventions

The following table explains symbols that might be used in this book.

TABLE P-5 Symbol Conventions

Symbol	Description	Example	Meaning
[]	Contains optional arguments and command options.	<code>ls [-l]</code>	The <code>-l</code> option is not required.
{ }	Contains a set of choices for a required command option.	<code>-d {y n}</code>	The <code>-d</code> option requires that you use either the <code>y</code> argument or the <code>n</code> argument.
<code>\$ { }</code>	Indicates a variable reference.	<code>\$ {com.sun.javaRoot}</code>	References the value of the <code>com.sun.javaRoot</code> variable.
-	Joins simultaneous multiple keystrokes.	Control-A	Press the Control key while you press the A key.
+	Joins consecutive multiple keystrokes.	Ctrl+A+N	Press the Control key, release it, and then press the subsequent keys.

TABLE P-5 Symbol Conventions (Continued)

Symbol	Description	Example	Meaning
→	Indicates menu item selection in a graphical user interface.	File → New → Templates	From the File menu, choose New. From the New submenu, choose Templates.

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To access the following Sun resources, go to <http://www.sun.com>:

- Downloads of Sun products
- Services and solutions
- Support (including patches and updates)
- Training
- Research
- Communities (for example, Sun Developer Network)

Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Installing Application Server Software

This guide provides instructions for installing the Sun Java™ System Application Server Platform Edition software. The following topics are discussed:

- “What You Are Installing” on page 17
- “Installing the Application Server Software” on page 18
- “Installing in Silent Mode” on page 19

UNIX installations support both root and non-root user installations. Users of Windows installations should have Power User or Administrator access.

What You Are Installing

There are two different distribution types:

The Application Server product distribution includes the following components:

- Application Server software, including administrative tools and utilities
- Sun Java System Message Queue
- PointBase Database Server

The Java™ 2 Platform™, Enterprise Edition (J2EE™) 1.4 product distribution includes the following components:

- All components contained in the Application Server product distribution
- Java™ 2 Platform Edition (J2SE™) Software Development Kit (SDK)
- J2EE™ SDK samples, which includes BluePrints applications, such as Petstore, Adventure Builder, and SmartTicket

Use these instructions to install either distribution.

Installing the Application Server Software

After you have verified that your system meets the requirements specified in the *Sun Java System Application Server Platform Edition 8.1 2005Q4 Release Notes*, use either of the following sets of steps to install the Application Server product.

▼ To Install on UNIX or Linux

- Steps**
1. **Navigate to the directory where you downloaded the bundle file.**
 2. **Change the permission of the bundle file so that you have execute access:**

```
chmod +x bundle_filename
```
 3. **Run the installation program.**
 - **To run the installation program that uses a graphical interface, at the command prompt type the name of the bundle file:**

```
./bundle_filename
```
 - **To run the installation program that uses the command-line interface, at the command prompt type the name of the bundle file followed by the `-console` option:**

```
./bundle_filename -console
```
 4. **In the Admin Configuration page (or at the command line), enter the following:**
 - **Admin User Name**—Name of the user who administers the server
 - **Password**—Admin user's password to access the Admin Server (8-character minimum)
 - **Admin Port**—Administration port number for initial server instance
 - **HTTP Port**—Port number to access the default server instance
 - **HTTPS Port**—Secure port number to access the default server instance
 5. **In the Installation Options page, select the options that you want.**

If you select the "Upgrade from Previous Version" checkbox, the upgrade process begins after installation is completed. For information about upgrading, see the *Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Upgrade and Migration Guide*.
 6. **Set the `PATH` environment variable to include the Application Server `install_dir/bin` directory.**

7. **Verify the installation by following the instructions in the *Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Quick Start Guide*, located in `install_dir/docs/QuickStart.html` or online at <http://docs.sun.com/>.**

▼ To Install on Windows

- Steps**
1. **Navigate to the directory where you downloaded the .exe file.**
 2. **Double click the .exe file to start the installation program.**
 3. **Follow the instructions on the wizard screens of the installation program.**
 4. **In the Admin Configuration page (or at the command line), enter the following:**
 - Admin User Name—Name of the user who administers the server
 - Password—Admin user's password to access the Admin Server (8-character minimum)
 - Admin Port—Administration port number for initial server instance
 - HTTP Port—Port number to access the default server instance
 - HTTPS Port—Secure port number to access the initial server instance
 5. **In the Installation Options page, select the options that you want.**

If you select the "Upgrade from Previous Version" checkbox, the upgrade process begins after installation is completed. For information about upgrading, see the *Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Upgrade and Migration Guide*.
 6. **If you did not select the corresponding option on the Installation Options screen, set the PATH environment variable to include the Application Server `install_dir/bin` directory.**
 7. **Verify the installation by following the instructions of the *Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Quick Start Guide*, located in `install_dir/docs/QuickStart.html` or at <http://docs.sun.com>.**

Installing in Silent Mode

Silent mode installation is non-interactive. You must first provide a configuration file for information that the installer needs. The following topics are discussed:

- ["Creating the Installation Configuration File" on page 20](#)

- [“Running the Installer in Silent Mode” on page 23](#)

Creating the Installation Configuration File

The installation configuration file is created when you use the `savestate` option with a `setup` command to start a interactive installation. During the interactive installation, your input is collected and stored in the configuration file you specified. This forms the template for silent installation, which you can use later to install the product on one or more machines. If needed, you can modify the installation configuration file.

The following topics are addressed:

- [“Syntax for Creating the Installation Configuration File” on page 20](#)
- [“Modifying the Installation Configuration File” on page 21](#)

Syntax for Creating the Installation Configuration File

The syntax for creating an installation configuration file is as follows:

For graphical method: `./bundle_filename -savestate filename`

For command-line method: `./bundle_filename -console -savestate filename.`

EXAMPLE 1-1 Example Installation Configuration

```
#
# Wizard Statefile created: Mon Aug 25 19:26:08 PDT 2003
#           Wizard path: /j2ee_app_sol/appserv.class
#
# Wizard Statefile section for Sun Java System Application Server
#
[STATE_BEGIN Sun Java System Application Server
a2512d6e8bdfa24acaf5e6bb5d0d46a803690279]
defaultInstallDirectory = /SUNWappserver
currentInstallDirectory = /opt/SUNWappserver
JDK_LOCATION = /share/builds/components/jdk/1.4.2/SunOS
INST_ASADMIN_USERNAME = admin
INST_ASADMIN_PASSWORD = adminadmin
INST_ASADMIN_PORT = 4848
INST_ASWEB_PORT = 8080
INST_HTTPS_PORT = 1043
INST_JMS_PORT = 7676
INST_ORB_PORT = 3700
INST_ORB_SSL_PORT = 1060
INST_ORB_MUTUALAUTH_PORT = 1061
INST_JMX_PORT = 8686
INST_POINTBASE_PORT = 9092
ADMIN_PASSWORD_ENCRYPTED = FALSE
STORE_ADMIN_AUTH = FALSE
```

EXAMPLE 1-1 Example Installation Configuration (Continued)

```
CREATE_SAMPLES_DOMAIN = FALSE
CREATE_DESKTOP_SHORTCUT = FALSE
UPDATE_PATH = FALSE
[STATE_DONE Sun Java System Application Server
a2512d6e8bdfa24acaf5e6bb5d0d46a803690279]
```

Modifying the Installation Configuration File

You can modify the installation configuration file by editing the variables and values described in [“Modifying the Installation Configuration File” on page 21](#). This table provides four columns showing variable names, valid values (if applicable), contents, and comments.

TABLE 1-1 Installation Configuration File Variables

Variable Name	Valid Values (if applicable)	Content	Comments
defaultInstallDirectory		Default installation directory path	
currentInstallDirectory		Selected installation directory path	
JDK_LOCATION		Selected J2SE installation directory path	This entry is needed only for distributions that do not contain a bundled J2SE.
INST_ASADMIN_USERNAME		Administrator user name for initial server instance	
INST_ASADMIN_PASSWORD		Administrator password for initial server instance	This entry is obfuscated by default. See also description of ADMIN_PASSWORD_ENCRYPTED variable.
INST_ASADMIN_PORT	0 -65535	Administration server port number for initial server instance	
INST_ASWEB_PORT	0 -65535	HTTP port number for initial server instance	
INST_HTTPS_PORT	0 -65535	HTTPS port number for initial server instance	

TABLE 1–1 Installation Configuration File Variables *(Continued)*

Variable Name	Valid Values (if applicable)	Content	Comments
INST_JMS_PORT	0 -65535	JMS port number for initial server instance	If the configuration file does not include this entry, default value of 7676 is used.
INST_ORB_PORT	0 -65535	ORB port number for initial server instance	If the configuration file does not include this entry, default value of 3700 is used.
INST_ORB_SSL_PORT	0 -65535	Secure ORB port number for initial server instance	If the configuration file does not include this entry, default value of 3820 is used.
INST_ORB_MUTUALAUTH_PORT	0 -65535	Mutual authentication ORB port number for initial server instance	If the configuration file does not include this entry, default value of 3920 is used.
INST_JMX_PORT	0 -65535	JMX port number for initial server instance	If the configuration file does not include this entry, default value of 8686 is used.
INST_POINTBASE_PORT	0 -65535	PointBase server port number	If the configuration file does not include this entry, default value of 9092 is used.
ADMIN_PASSWORD_ENCRYPTED	TRUE FALSE	Obfuscated admin password flag	<p>In initial statefile created by product installer this flag is set to TRUE, since the admin password value is obfuscated for security reasons.</p> <p>To override the value for admin password, enter <code>INST_ASADMIN_PASSWORD</code> value in clear text and set this flag to FALSE to enable silent installation to process it correctly.</p>
STORE_ADMIN_AUTH	TRUE FALSE	Whether to create admin authentication user preference file	
CREATE_SAMPLES_DOMAIN	TRUE FALSE	Whether to create additional samples server domain.	
CREATE_DESKTOP_SHORTCUT	TRUE FALSE	Whether to create autodeploy folder desktop shortcut.	Valid for Windows platforms only and is disregarded otherwise.

TABLE 1–1 Installation Configuration File Variables (Continued)

Variable Name	Valid Values (if applicable)	Content	Comments
UPDATE_PATH	TRUE FALSE	Whether to update PATH environment variable to include Application Server bin directory.	Valid only for Windows platforms and is disregarded otherwise. If this entry is not present, default value of FALSE is used.

Running the Installer in Silent Mode

To install the Sun Java System Application Server software in silent mode:

▼ To Install in Silent Mode

- Steps**
1. Review configuration file and verify that it contains what you want to use for your silent installation.
 2. Copy your installation configuration file to each machine where you plan to install the Application Server software.
 3. Copy the Application Server distribution file to each machine where you plan to install the Application Server software.
 4. Navigate to the directory where you copied the distribution file and your installation configuration file.
 5. Start silent installation at the command line using the following command format: `./ bundle_filename -silent config_file`
The installation program reads the specified `config_file`, checks for adequate disk space, then installs the product based on the data in `config_file`.
When the prompt is returned, the silent installation is complete and the installation components are installed on your systems.
 6. Start the Application Server software by using the instructions in the *Sun Java System Application Server Platform Edition 8.1 2005Q2 Update 2 Administration Guide*
When the Admin Console is started, the initial page of the Application Server graphical interface is displayed.

Uninstalling Application Server Software

All components in the current Application Server installation directory are automatically selected for uninstallation.

Note –

- It is important to use the uninstall routine described here. If you attempt another method, problems arise when you try to reinstall the same version or when you install a new version.
 - If you do not stop all domains before the uninstallation, orphaned processes might exist on your system after the uninstallation. On UNIX, identify the processes using the `ps -ef` command and terminate them using the `kill` command.
-

Running the Uninstallation Program

To uninstall the Application Server software, perform the following steps:

▼ To Run the Uninstallation Program on UNIX or Linux

Before You Begin

Make sure that you have stopped all domains and other related processes, including `deploytool`, command prompts using the installation directory or its subdirectories, and any applications using Java™ 2 Platform, Standard Edition (J2SE™ platform) files bundled with the product.

- Steps**
1. Navigate to your Application Server installation directory.

2. Invoke the uninstall program as follows:

- To use the uninstall that has a graphical interface, at the command prompt, type:
`./uninstall`
- To use the uninstall that has a command-line interface, at the command prompt, type:
`./uninstall -console`

▼ To Run the Uninstallation Program on Windows

Before You Begin

Make sure that you have stopped all domains and other related processes, including `deploytool`, command prompts using the installation directory or its subdirectories, and any applications using Java™ 2 Platform, Standard Edition (J2SE™ platform) files bundled with the product.

Step ● Invoke the Uninstalltion program in one of the following ways:

- Under the Sun Microsystems, Application Server PE program group in the Start Programs area of your desktop, click Uninstall.
- Invoke the uninstall program through the Control Panel:
 - a. Navigate to the Control Panel.
 - b. Choose Add/Remove Programs.
 - c. From the list of installed programs, select Java 2 Platform Edition 1.4 SDK for SDK distribution, or Sun Java System Application Server Platform Edition for Application Server distribution.
 - d. Click Remove.