



Sun Java™ System

# Application Server Platform Edition 8.1 Installation Guide

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2005Q1

Sun Microsystems, Inc.  
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U.S.A.

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# Preface

This guide provides instructions for installing the Sun Java™ System Application Server Platform Edition 8.1 2005Q1 software.

This preface contains information about the following topics:

- [Who Should Use This Book](#)
- [How This Book Is Organized](#)
- [Conventions Used in This Book](#)
- [Related Documentation](#)
- [Accessing Sun Resources Online](#)
- [Contacting Sun Technical Support](#)
- [Related Third-Party Web Site References](#)
- [Sun Welcomes Your Comments](#)

## 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 1** How This Book Is Organized

Chapter	Description
<a href="#">Chapter 1, “Installing Application Server 8.1 Software”</a>	Provides instructions for installing Application Server software on UNIX, Linux, and Windows
<a href="#">Chapter 2, “Uninstalling Application Server 8.1 Software”</a>	Provides instructions for uninstalling Application Server software

## Conventions Used in This Book

The tables in this section describe the conventions used in this book.

### Typographic Conventions

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

**Table 2** Typographic Conventions

Typeface	Meaning	Examples
AaBbCc123 (Monospace)	API and language elements, HTML tags, web site URLs, command names, file names, directory path names, onscreen computer output, sample code.	<p>Edit your <code>.login</code> file.</p> <p>Use <code>ls -a</code> to list all files.</p> <p><code>% You have mail.</code></p>
<b>AaBbCc123</b> (Monospace bold)	What you type, when contrasted with onscreen computer output.	<p><code>% su</code></p> <p>Password:</p>

**Table 2** Typographic Conventions (*Continued*)

Typeface	Meaning	Examples
<i>AaBbCc123</i> (Italic)	Book titles, new terms, words to be emphasized.  A placeholder in a command or path name to be replaced with a real name or value.	Read Chapter 6 in the <i>User's Guide</i> .  These are called <i>class</i> options.  Do <i>not</i> save the file.  The file is located in the <i>install-dir/bin</i> directory.

## Symbols

The following table describes the symbol conventions used in this book.

**Table 3** Symbol Conventions

Symbol	Description	Example	Meaning
[ ]	Contains optional command options.	ls [-l]	The -l option is not required.
{   }	Contains a set of choices for a required command option.	-d {y n}	The -d option requires that you use either the y argument or the n argument.
-	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.
>	Indicates menu item selection in a graphical user interface.	File > New > Templates	From the File menu, choose New. From the New submenu, choose Templates.

## Default Paths and File Names

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

**Table 4** Default Paths and File Names

Term	Description
<i>install_dir</i>	<p>By default, the Application Server installation directory is located here:</p> <ul style="list-style-type: none"> <li>• Sun Java Enterprise System installations on the Solaris™ platform: <code>/opt/SUNWappserver/appserver</code></li> <li>• Sun Java Enterprise System installations on the Linux platform: <code>/opt/sun/appserver/</code></li> <li>• Other Solaris and Linux installations, non-root user: <i>user's home directory</i>/<code>SUNWappserver</code></li> <li>• Other Solaris and Linux installations, root user: <code>/opt/SUNWappserver</code></li> <li>• Windows, all installations: <i>SystemDrive</i>: <code>\Sun\AppServer</code></li> </ul>
<i>domain_root_dir</i>	<p>By default, the directory containing all domains is located here:</p> <ul style="list-style-type: none"> <li>• Sun Java Enterprise System installations on the Solaris platform: <code>/var/opt/SUNWappserver/domains/</code></li> <li>• Sun Java Enterprise System installations on the Linux platform: <code>/var/opt/sun/appserver/domains/</code></li> <li>• All other installations: <i>install_dir</i>/<code>domains/</code></li> </ul>
<i>domain_dir</i>	<p>By default, each domain directory is located here: <i>domain_root_dir</i>/<i>domain_dir</i></p> <p>In configuration files, you might see <i>domain_dir</i> represented as follows: <code>\${com.sun.aas.instanceRoot}</code></p>



## Shell Prompts

The following table describes the shell prompts used in this book.

**Table 5** Shell Prompts

Shell	Prompt
C shell on UNIX or Linux	<i>machine-name%</i>
C shell superuser on UNIX or Linux	<i>machine-name#</i>
Bourne shell and Korn shell on UNIX or Linux	\$
Bourne shell and Korn shell superuser on UNIX or Linux	#
Windows command line	C:\

## Related Documentation

The <http://docs.sun.com><sup>SM</sup> web site enables you to access Sun technical documentation online. You can browse the archive or search for a specific book title or subject.

## Books in This Documentation Set

The Sun Java System Application Server manuals are available as online files in Portable Document Format (PDF) and Hypertext Markup Language (HTML).

The following table summarizes the books included in the Application Server core documentation set.

**Table 6** Books in This 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 Sun Java System Application Server product.
<i>Installation Guide</i>	Installing the Sun Java System Application Server software and its components.

**Table 6** Books in This Documentation Set (*Continued*)

<b>Book Title</b>	<b>Description</b>
<i>Developer's Guide</i>	Creating and implementing Java™ 2 Platform, Enterprise Edition (J2EE™ platform) applications intended to run on the 2005Q1 Sun Java System 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 and deploying the applications on the Sun Java System Application Server.
<i>Administration Guide</i>	Configuring, managing, and deploying the Sun Java System Application Server subsystems and components from the Administration Console.
<i>Administration Reference</i>	Editing the Sun Java System Application Server configuration file, <code>domain.xml</code> .
<i>Upgrade and Migration Guide</i>	Migrating your applications to the new Sun Java System 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 Sun Java System Application Server problems.
<i>Error Message Reference</i>	Solving Sun Java System Application Server error messages.
<i>Reference Manual</i>	Utility commands available with the Sun Java System Application Server; written in manpage style. Includes the <code>asadmin</code> command line interface.

## Other Server Documentation

For other server documentation, go to the following:

- **Message Queue documentation**  
<http://docs.sun.com/db?p=prod/s1.s1msgqu>
- **Directory Server documentation**  
[http://docs.sun.com/coll/DirectoryServer\\_04q2](http://docs.sun.com/coll/DirectoryServer_04q2)
- **Web Server documentation**  
[http://docs.sun.com/coll/S1\\_websvr61\\_en](http://docs.sun.com/coll/S1_websvr61_en)

# Accessing Sun Resources Online

For product downloads, professional services, patches and support, and additional developer information, go to the following:

- Download Center  
<http://www.sun.com/software/download/>
- Professional Services  
<http://www.sun.com/service/sunps/sunone/index.html>
- Sun Enterprise Services, Solaris Patches, and Support  
<http://sunsolve.sun.com/>
- Developer Information  
<http://developers.sun.com/prodtech/index.html>

## Contacting Sun Technical Support

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# Installing Application Server 8.1 Software

This guide provides instructions for installing the Sun Java System Application Server Platform Edition 8.1 software. The following topics are discussed:

- [What You Are Installing](#)
- [Installing the Application Server Software](#)
- [Installing in Silent Mode](#)

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 8.1 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 *Application Server Platform Edition 8.1 2005Q1 Release Notes*, use either of the following sets of steps to install the Application Server product:

- [Installing on UNIX and Linux](#)
- [Installing on Windows](#)

### Installing on UNIX and Linux

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.
  - a. To run the installation program that uses a graphical interface, at the command prompt type the name of the bundle file:  
  
***./bundle\_filename***
  - b. 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 2005Q1 Upgrade and Migration Guide* at <http://docs.sun.com/>.
  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 2005Q1 Quick Start Guide*, located in `install_dir/docs/QuickStart.html` or at <http://docs.sun.com/>.

## Installing on Windows

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 2005Q1 Upgrade and Migration Guide* at <http://docs.sun.com/>.

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 2005Q1 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](#)
- [Installing in Silent Mode](#)

## 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](#)
- [Example Installation Configuration](#)
- [Modifying the Installation Configuration File](#)

### 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` Refer to Installation Methods for more detailed information.



## 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
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 [Table 1-1](#). 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.

**Table 1-1** Installation Configuration File Variables

<b>Variable Name</b>	<b>Valid Values (if applicable)</b>	<b>Content</b>	<b>Comments</b>
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	
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.

**Table 1-1** Installation Configuration File Variables

Variable Name	Valid Values (if applicable)	Content	Comments
ADMIN_PASSWORD_ENCRYPTED	TRUE FALSE	Obfuscated admin password flag	In initial statefile created by product installer this flag is set to TRUE, since the admin password value is obfuscated for security reasons.  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.
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.
UPDATE_PATH	TRUE FALSE	Whether to update PATH environment variable to include Application Server <i>bin</i> directory.	Valid only for Windows platforms and is disregarded otherwise.  If this entry is not present, default value of FALSE is used.

## Installing in Silent Mode

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

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 Sun Java System Application Server software.
3. Copy the Sun Java System 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 2005Q1 Administration Guide*.

When the Admin Console is started, the initial page of the Application Server graphical interface is displayed.

# Uninstalling Application Server 8.1 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.
- 

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

1. 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.
2. Navigate to your Application Server installation directory.
3. Invoke the uninstall program as follows:
  - On UNIX or Linux, type one of the following commands at the command prompt:
    - To use the uninstall that has a graphical interface:  
`./uninstall`

- To use the uninstall that has a command-line interface:

```
./uninstall -console
```

- On Windows, under the Sun Microsystems, Application Server PE program group in the Start Programs area of your desktop, click Uninstall.
- On Windows, you can also invoke the uninstall program through the Control Panel:
  - I. Navigate to the Control Panel.
  - II. Choose Add/Remove Programs.
  - III. 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.
  - IV. Click Remove.