



# **Sun Java System Application Server Platform Edition 9 Installation Guide**



Sun Microsystems, Inc.  
4150 Network Circle  
Santa Clara, CA 95054  
U.S.A.

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# Preface

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This *Installation Guide* provides instructions for installing the Sun Java™ System Application Server (Application Server) Platform Edition 9 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 that you are familiar with the following topics:

- Installation of software products
- Your operating system
- Client/server programming model
- Internet and World Wide Web

## How This Book Is Organized

Chapter 1 provides instructions for installing Application Server software on UNIX®, Linux, and Windows.

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 Uniform Resource Locator (URL) for stand-alone Application Server documentation is <http://docs.sun.com/app/docs/coll/1343.3>. For an introduction to Application Server, refer to the books in the order in which they are listed in the following table.

TABLE P-1 Books in the Application Server Documentation Set

Book Title	Description
<i>Documentation Center</i>	Application Server documentation topics organized by task and subject.
<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, Java Development Kit (JDK™), and database drivers.
<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>Application Deployment Guide</i>	Deployment of applications and application components to the Application Server. Includes information about deployment descriptors.
<i>Developer's Guide</i>	Creating and implementing Java Platform, Enterprise Edition (Java EE platform) applications intended to run on the Application Server that follow the open Java standards model for Java EE components and APIs. Includes information about developer tools, security, debugging, and creating lifecycle modules.
<i>Java EE 5 Tutorial</i>	Using Java EE 5 platform technologies and APIs to develop Java EE applications.
<i>Administration Guide</i>	Configuring, managing, and deploying Application Server subsystems and components from the Admin 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.x, and 8.x. 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.
<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 documentation about other stand-alone Sun Java System server products, go to the following:

- [Message Queue documentation \(http://docs.sun.com/app/docs/coll/1343.3\)](http://docs.sun.com/app/docs/coll/1343.3)
- [Directory Server documentation \(http://docs.sun.com/app/docs/coll/1316.1\)](http://docs.sun.com/app/docs/coll/1316.1)
- [Web Server documentation \(http://docs.sun.com/app/docs/coll/1308.1\)](http://docs.sun.com/app/docs/coll/1308.1)

## Default Paths and File Names

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

TABLE P-2 Default Paths and File Names

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

## Typographic Conventions

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

TABLE P-3 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% you have mail.</code>
<b>AaBbCc123</b>	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> 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>

TABLE P-3 Typographic Conventions (Continued)

Typeface	Meaning	Example
<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-4 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.
→	Indicates menu item selection in a graphical user interface.	File → New → Templates	From the File menu, choose New. From the New submenu, choose Templates.

## Accessing Sun Resources Online

The [docs.sun.com](http://docs.sun.com) web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. Books are available as online files in PDF and HTML formats. Both formats are readable by assistive technologies for users with disabilities.

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

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

- “Distribution Types and Their Components” on page 15
- “Installing the Software” on page 16
- “Installing in Silent Mode” on page 19

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

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**Note** – The Application Server is available in Platform, Enterprise, and Standard editions. This document covers Platform Edition.

- Platform Edition is Java Platform, Enterprise Edition (Java EE) 5 compatible, lightweight, small footprint product intended for developer productivity and department-level production environments.
  - Enterprise Edition is designed for mission-critical services and large-scale production environments. It supports horizontal scalability and service continuity with a load balancer plug-in and cluster management. Enterprise Edition also supports reliable session state management with the high-availability database (HADB).
  - Standard Edition provides all the features of the Enterprise Edition except for the session state failover.
- 

## Distribution Types and Their Components

The Application Server product distribution includes the following components:

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

Use the following instructions to install all distributions.

# Installing the Software

After you have verified that your system meets the requirements specified in “Hardware and Software Requirements” in *Sun Java System Application Server Platform Edition 9 Release Notes*, use either of the following procedures to install the Application Server product.

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**Note** – If you are installing on a Solaris 10 system, Application Server can be installed either in the global zone or a non-global zone. For more information on zones, see the Solaris 10 documentation.

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## ▼ To Install on Solaris or Linux

**Before You Begin** If you are installing as a non-root user, you must have read/write access to the following directories:

- The installation directory you select
- The home directory of the installation user
- The `/var/tmp` directory
- The `/tmp` directory

**1** Navigate to the directory where you downloaded the distribution file.

**2** Change the permission of the distribution file so that you have execute access:

```
chmod +x distribution_filename
```

The distribution file name changes depending upon the distribution, version, and platform, in the format `sjas_pe-version-platform.bin` or `java_ee_sdk-version-platform.bin`. For example, for the Linux Application Server distribution, the file is `sjsas_pe-9_0-linux.bin`. For the Linux Java EE SDK distribution, the file is `java_ee_sdk-5-linux.bin` or `java_ee_sdk-5-soa_kit-preview-linux.bin`.

**3** Run the installation program.

- To run the installation program that uses a graphical interface, at the command prompt, type the name of the distribution file:

```
./distribution_filename
```

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

```
./distribution_filename -console
```

**4** In the Administration 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).

- Prompt or Don't Prompt for Administrator User Name – The user name can be stored in a preferences file so that you do not have to provide it to perform administrative tasks.
- 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 Enter the directory where you want to install the software.**

**6 In the Installation Options page, select the options that you want.**

If you select the Upgrade from Previous Version checkbox, the upgrade wizard begins after installation is completed. Upgrades from 8.0 Platform Edition, 8.1 Platform Edition, and 8.2 Platform Edition are supported. For information about upgrading, see Chapter 3, “Upgrading an Application Server Installation,” in *Sun Java System Application Server Platform Edition 9 Upgrade and Migration Guide*.

**7 In the Java EE SDK SOA Starter Kit Preview distribution, choose whether to install Project Open ESB Starter Kit as an add-on.**

Project Open ESB Starter Kit implements an enterprise service bus (ESB) runtime that incorporates the JSR 208 specification for Java Business Integration (JBI) and other open standards. Open ESB Starter Kit allows you to integrate web services and enterprise applications as loosely coupled composite applications within a service-oriented architecture (SOA).

Open ESB Starter Kit includes a Business Process Execution Language (BPEL) service engine, a Java EE service engine, an HTTP SOAP binding component, and examples that demonstrate using the BPEL service engine. Additional components, tools, and documentation are available for download. Refer to <http://java.sun.com/integration/openesb/starterkit.jsp> for more information on the Open ESB Starter Kit and the additional components, tools, and documentation that are available.

**8 On the Ready to Install page click Install Now.**

**9 After the installation completes, set the PATH environment variable to include the Application Server *install-dir/bin* directory.**

**10 Verify the installation by following the instructions in the *Sun Java System Application Server Platform Edition 9 Quick Start Guide*, located in *install-dir/docs/QuickStart.html* or on [docs.sun.com](http://docs.sun.com).**

If you have problems with your installation, or with starting the server, see the *Sun Java System Application Server Platform Edition 9 Troubleshooting Guide*.

## ▼ To Install on Windows

**1** Navigate to the directory where you downloaded the `.exe` file.

**2** Double-click the `.exe` file to start the installation program.

The executable file name changes depending upon the distribution and version, in the format `sjas_pe-version-windows.exe` or `java_ee_sdk-version-windows.exe`. For example, for the Application Server distribution, the file is `sjsas_pe-9_0-windows.exe`. For the Java EE SDK distribution, the file is `java_ee_sdk-5-windows.exe` or `java_ee_sdk-5-soa_kit-preview-windows.exe`.

**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).
- Prompt or Don’t Prompt for Administrator User Name – The user name can be stored in a preferences file so that you do not have to provide it to perform administrative tasks.
- 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** Enter the directory where you want to install Application Server.

**6** In the Installation Options page, select the options that you want.

If you select the Upgrade from Previous Version checkbox, the upgrade wizard begins after installation is completed. Upgrades from 8.0 Platform Edition, 8.1 Platform Edition, and 8.2 Platform Edition are supported. For information about upgrading, see Chapter 3, “Upgrading an Application Server Installation,” in *Sun Java System Application Server Platform Edition 9 Upgrade and Migration Guide*.

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**Note** – To create a Windows service, the `sc.exe` utility must be available on the system. Windows 2000 users may need to install the Windows 2000 Resource Kit to get this utility. For other supported Windows versions, the utility is included in the operating system.

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**7** In the Java EE SDK SOA Starter Kit Preview distribution, choose whether to install Project Open ESB Starter Kit as an add-on.

Project Open ESB Starter Kit implements an enterprise service bus (ESB) runtime that incorporates the JSR 208 specification for Java Business Integration (JBI) and other open standards. Open ESB Starter Kit allows you to integrate web services and enterprise applications as loosely coupled composite applications within a service-oriented architecture (SOA).

Open ESB Starter Kit includes a Business Process Execution Language (BPEL) service engine, a Java EE service engine, an HTTP SOAP binding component, and examples that demonstrate using the BPEL service engine. Additional components, tools, and documentation are available for download. Refer to <http://java.sun.com/integration/openesb/starterkit.jsp> for more information on the Open ESB Starter Kit and the additional components, tools, and documentation that are available.

- 8** On the Ready to Install page choose Install Now.
- 9** After the installation completes, 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.
- 10** Verify the installation by following the instructions of the *Sun Java System Application Server Platform Edition 9 Quick Start Guide*, located in *install-dir/docs/QuickStart.html* or on [docs.sun.com](http://docs.sun.com).

If you have problems with your installation, or with starting the server, see *Sun Java System Application Server Platform Edition 9 Troubleshooting Guide*.

## 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 19
- “Modifying the Installation Configuration File” on page 21
- “Using the Installation Configuration File to Install in Silent Mode” on page 23

## Creating the Installation Configuration File

The installation configuration file is created when you use the `savestate` option when starting an interactive installation. During the interactive installation, your input is collected and stored in the configuration file you specified. This file 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.

### Creating the Installation Configuration File on Solaris and Linux

For the graphical method the syntax is:

```
./distribution_filename -savestate configuration_filename
```

For the command-line method, the syntax is:

```
./distribution_filename -console -savestate configuration_filename
```

If you do not include a path to the installation configuration file, the file is created in the directory where you are running the installation program.

## Creating the Installation Configuration File on Windows

To create the installation configuration file on the Windows platform, start the installation program from the command line. Change to the directory where the executable file resides.

For the graphical method the syntax is:

```
distribution_filename -savestate configuration_filename
```

For the command-line method, the syntax is:

```
distribution_filename -console -savestate configuration_filename.
```

If you do not include a path to the installation configuration file, the file is created in the directory where you are running the installation program.

## Installation Configuration File Example

The following example shows an installation configuration file created by running the installation program with the `savestate` option.

### EXAMPLE 1-1 Installation Configuration File

```
#
# Wizard Statefile created: Tue Apr 04 17:08:17 PDT 2006
#           Wizard path: /var/tmp/java_AAAocaG3p/appserv.class
#
#
# Install Wizard Statefile section for J2EE 1.4 SDK
#
#
[STATE_BEGIN J2EE 1.4 SDK b2e8342ca21cf327c40510acc9b263256d0eac49]
defaultInstallDirectory = /opt/SUNWappserver
currentInstallDirectory = /opt/SUNWappserver
INST_ASADMIN_USERNAME = admin
INST_ASADMIN_PASSWORD = nmdgvvixsrgokyuhqzvanqzva
INST_MASTER_PASSWORD = pohuxqmnjckmaxhiwyqgunatrvq
INST_ASADMIN_PORT = 4848
INST_ASWEB_PORT = 8080
INST_HTTPS_PORT = 8181
STORE_ADMIN_AUTH = TRUE
ADMIN_PASSWORD_ENCRYPTED = TRUE
INST_JMS_PORT = 7676
INST_ORB_PORT = 3700
INST_ORB_SSL_PORT = 3820
```

**EXAMPLE 1-1** Installation Configuration File (Continued)

```

INST_ORB_MUTUALAUTH_PORT = 3920
INST_JMX_PORT = 8686
CREATE_DESKTOP_SHORTCUT = FALSE
UPDATE_PATH = FALSE
SELECTED_ADDONS =
[STATE_DONE J2EE 1.4 SDK b2e8342ca21cf327c40510acc9b263256d0eac49]

```

## Modifying the Installation Configuration File

You can modify the installation configuration file by editing the variables and values described in the following table. This table has 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
Build ID		The string of characters following the distribution in the STATE_BEGIN and STATE_END sections. This value is automatically generated.	No need to alter this value unless installing a different distribution file than the one that produced the configuration file. To find the build ID, enter <b>distribution_filename -id</b> at the command prompt.
defaultInstallDirectory		Default installation directory path	
currentInstallDirectory		Selected absolute installation directory path	
JDK_LOCATION		Selected JDK installation directory path	This entry is needed only for distributions that do not contain a bundled JDK.
INST_ASADMIN_USERNAME		Administrator user name for initial server instance	
INST_MASTER_PASSWORD		SSL certificate database password for asadmin operations	This entry is obfuscated by default.  See also description of ADMIN_PASSWORD_ENCRYPTED variable.

TABLE 1-1 Installation Configuration File Variables (Continued)

Variable Name	Valid Values (if applicable)	Content	Comments
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	Default value is 4848.
INST_ASWEB_PORT	0 - 65535	HTTP port number for initial server instance	Default value is 8080.
INST_HTTPS_PORT	0 - 65535	HTTPS port number for initial server instance	Default value is 8081.
STORE_ADMIN_AUTH	TRUE, FALSE	Whether to create admin authentication user preference file	
ADMIN_PASSWORD_ENCRYPTED	TRUE, FALSE	Obfuscated admin password flag	In the initial statefile created by the 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 INST_ASADMIN_PASSWORD value in clear text and set this flag to FALSE to enable silent installation to process it correctly.
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.

TABLE 1-1 Installation Configuration File Variables (Continued)

Variable Name	Valid Values (if applicable)	Content	Comments
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.
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 bin directory.	Valid only for Windows platforms and is disregarded otherwise. If this entry is not present, default value of FALSE is used.
CREATE_WINDOWS_SERVICE	TRUE, FALSE	Whether to create the server as a Windows service.	Valid for Windows platforms only and is disregarded otherwise.
SELECTED_ADDONS	JB1	Add-ons selected for installation. If no add-ons are selected, the value is blank.	Valid for Java EE SDK SOA Starter Kit Preview installations only and is disregarded otherwise.

## Using the Installation Configuration File to Install in Silent Mode

After creating the configuration file, use it to install Application Server in silent mode as many times as you want. Use the following procedure:

### ▼ To Install in Silent Mode

- 1 Review the installation configuration file and verify that it contains the values to use for your silent installation.
- 2 Copy your installation configuration file to each machine where you plan to install the software.
- 3 Copy the Application Server distribution file to each machine where you plan to install the 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 one of the following command formats:**

▪ **On Solaris or Linux:**

*./distribution\_filename -silent configuration\_filename*

▪ **On Windows:**

*distribution\_filename -silent configuration\_filename*

The installation program reads the specified *configuration\_filename*, checks for adequate disk space, then installs the product based on the data in *configuration\_filename*.

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 9 Administration Guide*.**

# Uninstalling Application Server Software

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This chapter provides instructions for uninstalling the Application Server software, either the Application Server distribution, the Java EE SDK distribution, or the Java EE SDK SOA Starter Kit Preview distribution. When you run the uninstallation program, all components in the current Application Server installation directory are automatically selected for uninstallation.

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**Note** – It is important to use the uninstallation program described here. If you attempt another method, problems arise when you try to reinstall the same version or when you install a new version.

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## Running the Uninstallation Program

To uninstall the Application Server software, complete one of the following procedures:

### ▼ To Run the Uninstallation Program on Solaris or Linux

**Before You Begin** Make sure that you have stopped all domains and other related processes, including command prompts using the installation directory or its subdirectories and any applications using J2SE files bundled with the product.

If you do not stop all domains before the uninstallation, orphaned processes might exist on your system after the uninstallation. Identify the processes using the `ps -ef` command and terminate them using the `kill` command.

- 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`

The uninstallation program removes the Application Server components. Some files and directories remain after running the uninstallation program. Carefully examine the remaining files and directories and clean them up. It is safe to remove uninstallation and installation log files after you have examined them. The installation directory is not automatically removed.

## ▼ **To Run the Uninstallation Program on Windows**

### **Before You Begin**

Make sure that you have stopped all domains and other related processes, including command prompts using the installation directory or its subdirectories and any applications using J2SE files bundled with the product.

If you do not stop all domains before the uninstallation, orphaned processes might exist on your system after the uninstallation. On Windows, these processes interfere with the uninstallation, because the uninstallation program is unable to remove files that are in use. Identify the processes using the Task Manager and terminate them using the End Task or End Process buttons.

### ▶ **Invoke the Uninstallation program in one of the following ways:**

- **From the Windows Start menu, choose Programs ⇒ Sun Microsystems ⇒ Application Server PE 9 ⇒ 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 Platform, Enterprise Edition 5 SDK for SDK distributions, or Sun Java System Application Server Platform Edition for Application Server distribution.**
  - d. **Click Remove.**

The uninstallation program removes the Application Server components. Some files and directories remain after running the uninstallation program. Carefully examine the remaining files and directories and clean them up. It is safe to remove uninstallation and installation log files after you have examined them. The installation directory is not automatically removed.