Sun N1 Service Provisioning System User's Guide for Sun Java System Web Server Plug-In 1.0

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Contents

Preface

The *Sun N1 Service Provisioning System User's Guide for Sun Java System Web Server Plug-In 1.0* explains how to use the Sun N1™ Service Provisioning System software to capture and deploy the Sun Java™ System Web Server 7.0

Note – In this document the term "x86" refers to the Intel 32–bit family of microprocessors and compatible 64–bit and 32–bit microprocessors made by AMD.

Who Should Use This Book

The main audience for the Sun N1 Service Provisioning System User's Guide for Sun Java System Web Server Plug-In 1.0 includes system administrators and operators of the N1 Service Provisioning System software who want to be able to deploy and control the Web Server 7.0 with N1 Service Provisioning System software. These users are expected to be familiar with the following:

- The N1 Service Provisioning System product
- Standard UNIX® commands and utilities
- General concepts and management features available in the Web Server 7.0 product

Before You Read This Book

If you are not already familiar with using the N1 Service Provisioning System software and the Web Server 7.0, read the following books:

- *Sun Java Enterprise System 5 Installation Guide for UNIX*
- *Sun N1 Service Provisioning System 5.2 System Administration Guide*
- *Sun N1 Service Provisioning System 5.2 Operation and Provisioning Guide*.
- *Sun N1 Service Provisioning System 5.2.1 Release Notes*

How This Book Is Organized

Chapter 1 provides an overview of the plug-in solution.

Chapter 2 describes installation and runtime issues.

Chapter 3 explains how to install and configure the plug-in.

Chapter 4 explains how to use the provisioning system to install, delete, and control the Web Server 7.0 Administration Server and Web Server Instances.

Chapter 5 describes the components, plans, and host types included in the Sun Java System Web Server 7.0 Plug-In 1.0.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (`http://www.sun.com/documentation/`)
- Support (`http://www.sun.com/support/`)
- Training (`http://www.sun.com/training/`)

Typographic Conventions

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

TABLE P–1 Typographic Conventions

Typeface	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories, and onscreen computer output	Edit your `.login` file. Use `ls -a` to list all files. `machine_name% you have mail.`
`AaBbCc123`	What you type, contrasted with onscreen computer output	`machine_name%` **`su`** `Password:`
aabbcc123	Placeholder: replace with a real name or value	The command to remove a file is `rm` *filename.*

TABLE P–1 Typographic Conventions *(Continued)*

Typeface	Meaning	Example
AaBbCc123	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the *User's Guide*. A *cache* is a copy that is stored locally. Do *not* save the file. **Note:** Some emphasized items appear bold online.

Shell Prompts in Command Examples

The following table shows the default UNIX system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P–2 Shell Prompts

Shell	Prompt
C shell	`machine_name%`
C shell for superuser	`machine_name#`
Bourne shell and Korn shell	`$`
Bourne shell and Korn shell for superuser	`#`

◆ ◆ ◆ CHAPTER 1

Overview of Sun Java System Web Server 7.0 Plug-In 1.0

This chapter describes the general information about using the N1 Service Provisioning System to provision the Sun Java System Web Server 7.0. This chapter includes the following information:

Purpose of the Sun Java System Web Server 7.0 Plug-In 1.0

The N1 Service Provisioning System software provides enhanced capabilities in out-of-the-box support for the Web Server 7.0. The Web Server 7.0 is a secure and highly available server that you can use to host web sites. The Sun Java System Web Server 7.0 Plug-In 1.0 provides plans and components that enable you to install and uninstall the basic installation infrastructure. The basic installation infrastructure includes an Administration Server and a Web Server instance. The plug-in also provides controls to start, stop, and restart instances of these servers.

What the Sun Java System Web Server 7.0 Plug-In 1.0 Includes

The Sun Java System Web Server 7.0 Plug-In 1.0 has following components.

- Standalone Version of Web Server 7.0
- Java ES Version of Web Server 7.0

For more information about the plans and components, see Chapter 4.

Standalone Version of Web Server 7.0

The Sun Java System Web Server 7.0 Plug-In 1.0 creates the `/com/sun/webserver7` directory.

TABLE 1–1 Standalone Web Server 7.0 Admin Server Management

Links	Description
ViewInstalled	Container component that provides the list of installed Web Admin Servers.
Install	Plan to install an Administration Server and the first Web Server instance.
Uninstall	Plan to uninstall an Administration Server and all Web server instances.
Start,Stop and Restart	Container components to Start, Stop and Restart the Administration Server.

TABLE 1–2 Standalone Web Server 7.0 Instance Management

Links	Description
ViewInstalled	Container components to view the installed Web Server instances.
Create	Plan to create additional Web Server instance.
Delete	Container component to delete a Web Server instance.
Start, Stop and Restart	Container components to Start, Stop and Restart the Web Server instance.

Java ES Version of Web Server 7.0

The Sun Java System Web Server 7.0 Plug-In 1.0 creates `/com/sun/jes_webserver7` directory.

TABLE 1–3 Java ES Web Server 7.0 Admin Server Management

Links	Description
ViewInstall	Container components to view the installed Java ES Web Admin Servers.
Uninstall	Container components to uninstall an Administration Server and all Web Server instance.
Start, Stop and Restart	Container components to Start, Stop and Restart the Administration Server.

TABLE 1–4 Java ES Web Server 7.0 Instance Management

Links	Description
ViewInstalled	Container components to view the installed Web Server instances.
Create	Plan to create additional Web Service instance.
Start, Stop and Restart	Container components to Start, Stop and Restart the Web Server Instance.

Requirements for Using the Sun Java System Web Server 7.0 Plug-In 1.0

Any host on which you intend to deploy the Web Server 7.0 must meet the following requirements:

- Install the Solaris 8 OS, Solaris 9 OS, Solaris 10 OS or Red Hat Linux Advanced Server 2.1.

  Note – Solaris 8 on SPARC based servers only.

- Contain the installation files for the Web Server 7.0.
- Meet the requirements for installing the Web Server 7.0. For more information, see *Sun Java Enterprise System 5 Installation Guide for UNIX*.
- Run the Remote Node.

◆ ◆ ◆ CHAPTER 2

Release Notes

This chapter contains details about issues that are known to be problems. This chapter includes the following sections:

"Installation Issues" on page 13

Installation Issues

No installation issues are known.

◆ ◆ ◆ CHAPTER 3

Installing and Configuring the Sun Java System Web Server 7.0 Plug-In 1.0

This chapter explains how to install and configure the Sun Java System Web Server 7.0 Plug-In 1.0. The chapter contains the following information:

Acquiring the Sun Java System Web Server 7.0 Plug-In 1.0

Acquiring the Sun Java System Web Server 7.0 plug-in involves two-step. First, you must add the package file that contains the Sun Java System Web Server 7.0 plug-in JAR (Java™ Archive) file to your system. Then you must import the Sun Java System Web Server 7.0 plug-in JAR file.

The Sun Java System Web Server 7.0 plug-in is packaged as a *plug-in* to the N1 Service Provisioning System software. The plug-in files for the Sun Java System Web Server 7.0 plug-in are available from the Sun N1 Service Provisioning System 5.2.1 DVD or from the Sun Download Center.

Once the package file is added to your system, the Sun Java System Web Server 7.0 Plug-In 1.0 is available for import from two different JAR files. Choose the correct file depending on your situation.

- If you are importing the Sun Java System Web Server 7.0 Plug-In 1.0 for the first time, acquire the `com.sun.webserver7_1.0 3.0.jar` file.
- If you have already imported the previous version of the Sun Java System Web Server 7.0 Plug-In 1.0, acquire the `com.sun.jes6_WS_2.0_3.0.jar` file.

1. Add the file containing the JAR file:
   - "Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Solaris" on page 16
   - "Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Linux" on page 16

- "Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Windows" on page 17

2. Import the JAR file - "Importing the Sun Java System Web Server 7.0 Plug-In 1.0 to the N1 Service Provisioning System" on page 17.
   - "How to Import the Sun Java System Web Server 7.0 Plug-In 1.0 Using the Browser Interface" on page 17
   - "How to Import the Sun Java System Web Server 7.0 Plug-In 1.0 Using the CLI" on page 18

Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Solaris

The Sun Java System Web Server 7.0 plug-in is contained in the `SUNWspsjesws7.pkg` package.

▼ To Add the Sun Java System Web Server 7.0 Plug-In 1.0 Package for Solaris

1. **In a terminal window, login as a superuser.**
2. **Change to the directory containing the plug-in package.**
3. **Type the following command and press Return.**

   `# pkgadd -d` *package_directory* **`SUNWspsjesws7.pkg`**

   The standalone JAR file is in the `/opt/SUNWn1sps/plugins/com.sun.webserver7/` directory.

Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Linux

The Sun Java System Web Server 7.0 plug-in is contained in the `sun-spsjesws6-3.0-1.noarch.rpm` file.

▼ To Add the Sun Java System Web Server 7.0 Plug-In 1.0 Package for Linux

1. **In a terminal window, login as a superuser.**
2. **Change to the directory containing the `sun-spsjesws6-3.0-1.noarch.rpm` file.**
3. **Type the following command and press Return.**

   `# rpm -i` *package_directory* **`sun-spsjesws6-3.0-1.noarch.rpm`**

The standalone JAR file is in the `/opt/sun/N1_Service_Provisioning_System/plugins/com.sun.webserver7` directory.

Adding the Sun Java System Web Server 7.0 Plug-In 1.0 for Windows

The Sun Java System Web Server 7.0 plug-in is contained in the `sun-spsjesws6-3.0.msi` Microsoft Installer (MSI) package file.

▼ To Add the Sun Java System Web Server 7.0 Plug-In 1.0 MSI File for Windows

1. **Change to the directory containing the `sun-spsjesws6-3.0.msi` file.**
2. **Double-click the `sun-spsjesws6-3.0.msi` file.**

   The Installer GUI starts. The JAR file is copied to the `c:\Program Files\N1 Service Provisioning System\plugins\com.sun.webserver7` directory.

Importing the Sun Java System Web Server 7.0 Plug-In 1.0 to the N1 Service Provisioning System

To make a given plug-in known to the N1 Service Provisioning System product, you need to import the plug-in.

▼ How to Import the Sun Java System Web Server 7.0 Plug-In 1.0 Using the Browser Interface

To import or upgrade a plug-in, follow these steps as explained in detail in Chapter 5, "Plug-In Administration," in *Sun N1 Service Provisioning System 5.2 System Administration Guide*.

1. **In the Administrative section of the browser interface main window, click Plug-ins.**
2. **In the Action column of the Plug-ins page, click Import.**
3. **Browse to the location where you downloaded the JAR file.**
   - If you are importing the Sun Java System Web Server 7.0 Plug-In 1.0 for the first time, select the `com.sun.webserver7_1.03.0.jar` file.

4 **Click the Continue to Import button.**

When the import completes successfully, a plug-in details page appears and shows you the objects that the plug-in provides.

▼ How to Import the Sun Java System Web Server 7.0 Plug-In 1.0 Using the CLI

You can also import a plug-in archive file by using the command-line interface.

- **To import a plug-in file from the CLI, type:**

  ```
  % cr_cli -cmd plg.p.add -path plugin-filename -u username -p password
  ```

  - If you are importing the Sun Java System Web Server 7.0 Plug-In 1.0 for the first time, *plugin-filename* is `com.sun.webserver7_1.03.0.jar`.

Patching the Sun Java System Web Server Plug-In

Check the SunSolve web site (`http://www.sunsolve.sun.com`) for available patches for the Sun Java System Web Server Plug-In. To apply the patch, follow the instructions in the patch README file.

◆ ◆ ◆ CHAPTER 4

Using the Sun Java System Web Server 7.0 Plug-In 1.0

The Sun Java System Web Server 7.0 Plug-In 1.0 provides a number of specific components and plans that enable you to install and control Web Server 7.0 Administration Servers and Web Server 7.0 Web Server Instances. This chapter describes the following information:

Introduction to the Web Server 7.0

The Web Server 7.0 is a secure and highly available server that you can use to host web sites. When you install the Web Server 7.0 product, the following two server instances are installed:

- Administration Server
- Web Server instance

The Administration Server is a web-based server that contains the Java forms that you use to configure all of your Web Server instances. After you install the initial Web Server instance, you can use the Administration Server to install additional instances.

The Sun Java System Web Server 7.0 Plug-In 1.0 enables you to use the N1 Service Provisioning System to install and control Web Server 7.0 Administration Servers and Web Server instances. Using the provisioning system, you install an Administration Server and the first Web Server instance together. The provisioning system cannot install additional instances of the Web Server.

Installing the Web Server 7.0

When you use the provisioning system to install the Web Server 7.0, the provisioning system installs an Administration Server and the first Web Server instance. To install the Web Server 7.0 using the provisioning system, use the following steps:

1. Create the `WEB_ADMIN_PASSWORD` session variables.

   See "Creating Session Variables" on page 20.

2. Install the Administration Server and the first Web Server instance.

   See "How to Install an Administration Server and the First Web Server Instance" on page 21.

Creating Session Variables

The installation of the Web Server 7.0 requires that you create passwords to use to install the Sun Java System Web Server 7.0 and to access the Administration Server. The provisioning system stores secure data, such as passwords, as session variables. When you save a password as a session variable, the password is stored in a way that prevents other users from accessing the password information. However, the password information is available for use by the provisioning system when you are logged in to that session.

You must create a password that you want to use to access the Administration Server. Create a session variable called `WEB_ADMIN_PASSWORD`. The value that you give this session variable is the password that you want to use to access the Administration Server. When the provisioning system is installing the Administration Server, it sets the access password for the server to the value of this variable.

▼ How to Create Session Variables

1 From any page in the N1 Service Provisioning System, click Session Variables.

The Session Variables link can be found in the top right corner of the page.

2 Type the `WEB_ADMIN_PASSWORD` in the blank field of the Session Variable column.

3 Click the checkbox in the Password column.

4 Type the password to access the Administration Server in the blank field of the Value column. The password must be a minimum of eight characters.

5 Click Create link.

6 In the N1 Grid SPS password field, type the password you use to access the N1 Service Provisioning System.

7 **Click the Save button.**

▼ How to Install an Administration Server and the First Web Server Instance

Before You Begin Before you can deploy the Administration Server and a Web Server instance, you must have the Web Server 7.0 installation files saved on the target server. For more information, see *Sun Java Enterprise System 5 Installation Guide for UNIX*.

Be sure to create `WEB_ADMIN_PASSWORD` session variables. For more information, see "How to Create Session Variables" on page 20.

1 **Click the Sun Java System Web Server 7.0 icon under the Common Tasks section of the left control panel.**

2 **Click the Standalone Web Server 7.0 Admin Server Management: install link.**

3 **Click the Run button.**

4 **In the Plan Parameters table, in the Variable Settings column for the WebAdminServer component, click Select From List.**

The Select Variable Setting screen displays.

5 **Click Create Set link.**

The Select Variable Setting screen displays.

6 **Enter a name in the Set Name field.**

The Select check boxes to assign value to the respective variables.

7 **Click the Save button.**

The Select Variable Setting screen displays.

8 **Click the Select button.**

9 **From the list of Variable Settings, change the following variables as described in the following steps.**

a. **Set the `installPath` variable to the path on the target server where you want to install the state file that contains the name/value pairs needed to install the Administration Server. Set install variable to unique value which differentiates the webAdminServers.**

Note – The value for the `installPath` variable is treated as a relative path to the default Remote Agent directory, unless you specify an absolute path, such as `/opt` or `c:\mydir`. For example, for a Windows Remote Agent, if you set the `installPath` variable to `c:\mydir` and deploy the file to an Agent with a default home directory of `c:\Program Files\N1 Service Provisioning System\agent`, the file is deployed to `c:\Program Files\N1 Service Provisioning System\agent\c\mydir`.

b. Set the `JES_Media_Directory` variable to the path to the Web Server 7.0 installation binary on the target server. Ensure that port numbers are not in use.

c. Click the Select button.

For information about other Variable Settings, see "WebAdminServer Component" on page 25.

10 Select the target hosts.

11 Click the Run Plan (includes preflight) button.

The InstallWebAdminServer plan completes the following tasks:

- Installs the Administration Server and one Web Server instance.
- If you set the `webAutoStart` variable to `yes`, starts the Administration Server and the Web Server instance.
- If you set the `webAutoStart` variable to `yes`, verifies that the Administration Server and the Web Server instance are running.

Creating and Deleting Web Server Instances

▼ How to Create Additional Web Server Instances

The Sun Java System Web Server 7.0 Plug-In 1.0 can create a new Web Server instance on a server. The plug-in enables you to control the default as well as additional Web Server instances that you create using N1 Service Provisioning System .

1 In the browser interface of the provisioning system, click the Sun Java System Web Server 7 icon under the Common Tasks section of the left control panel.

2 Click the Standalone Web Server 7.0 Instance Management: create link.

3 Click the Run button.

4. **In the Plan Parameters table, in the Variable Settings column for the WebServerInstance component, click Select From List.**

   The Select Variable Setting window opens.

5. **Click the Create Set link**

   The Select Variable Setting screen displays.

6. **Enter a name in the Set Name field.**

   Select check boxes to assign value to the respective variables.

7. **Click the Save button.**

   The Select Variable Setting screen displays.

8. **Click the Select button.**

9. **From the list of Variable Settings, change the following variables as described in the following steps:**

   a. **Set the `installIdentifier` variable to `installId` the you provided while installing Web Server Administration Server.**

   b. **If you want to create aWeb Server instance with an existing configuration, set the `configName` variable to an existing `configName`. To create a Web Server instance with a new configuration, set the `configName` variable to a new value.**

   c. **(Optional) Set the server name variable to server name for the new configuration.**

   d. **Click the Select button.**

   For information about other Variable Settings, see "WebServerInstance Component" on page 27.

10. **Select the target hosts.**

11. **Click the Run Plan (includes preflight) button.**

    The CreateWebServerInstance plan creates a virtual host for the Web Server instance of the `com.sun.webserver7#WebServerInstanceHT` host type.

▼ How to Delete a Web Server Instance

The Sun Java System Web Server 7.0 Plug-In 1.0 can delete a Web Server instance from a server except the default Web Server instance. The default Web Server instance will be deleted from

N1 Service Provisioning System database when you run delete default Web Server instance, you should manually delete this instance from the disk.

1. **In the browser interface of the provisioning system, click the Sun Java System Web Server 7.0 icon under the Common Tasks section of the left control panel.**
2. **Click the Standalone Web Server 7.0 Instance Management: delete link.**
3. **Select the Web Server instance(s) that you want to delete and click the Run button.**
4. **Click the Run Plan (includes preflight) button.**

   The provisioning system removes the virtual host for the Web Server instance.

Controlling the Web Server 7.0

The Sun Java System Web Server 7.0 Plug-In 1.0 enables you to start, stop, and restart Administration Servers and Web Server instances.

▼ How to Control Administration Servers and Web Server Instances

1. **In the browser interface of the provisioning system, click the Sun Java System Web Server 7.0 icon under the Common Tasks section of the left control panel.**
2. **To control an Administration Server, click Standalone Web Server 7.0 Admin Server Management: Start, Stop and Restart link.**
3. **To control a Web Server instance, click Standalone Web Server 7.0 Instance Management: Start, Stop and Restart link.**
4. **Choose the Component Procedure that you want to run and click the Run link.**

   For details about the component procedures, see "Components" on page 25.
5. **On the Run details page, select the hosts for which you want to run this procedure.**
6. **Click the Run Selected Installations button.**

◆ ◆ ◆ CHAPTER 5

Component, Plan, and Host Type Reference Details

This chapter contains information about the variables and values available for use with the plans and components that are provided by the Sun Java System Web Server 7.0 Plug-In 1.0. The chapter contains the following sections:

Components

The Sun Java System Web Server 7.0 Plug-In 1.0 provides two stand-alone components that allow you to control Administration Servers and Web Server instances and two Java ES components that allow you to control Java ES Web Administration servers and Java ES Web Server instances.

WebAdminServer Component

The WebAdminServer component provides controls that enable you to stop, start, and restart Administration Servers. The component variables and component procedures available for use with the WebAdminServer component are described below. For instructions to control an Administration Server, see "Controlling the Web Server 7.0" on page 24.

Component Variables

TABLE 5–1 List of component variables

Variables	Description
`installPath`	Path on the target host to install the state file that contains the name/value pairs for the installation of the Administration Server.
`installId`	A unique install identifier to differentiate Admin Servers.
`adminServerHost`	Host name of the Web Server.
`selectedComponent`	Component(s) to be installed. (svrcore/admincli/scrcore64/devsupport)
`configureAs`	Configure Server as (Server/Node).
`adminName`	Administration Server user name.
`adminPort`	Port to access Administration Server.
`adminSSLPort`	SSL port to access Administration Server.
`nonSSLPortRequired`	Non SSL port to access Administration Server.
`adminUser`	User ID to logon to the Administration Server.
`agentHost`	Host name of the Node.
`agentSSLPort`	SSL port of the Node.
`webInstanceUser`	User ID that the default instance of Web Server uses to run on the system.
`webInstanceHost`	Hostname of the Web instance.
`webInstancePort`	Port to access Web instance.
`docRoot`	Path for the Web Server to store content documents.
`webAutoStart`	The value of this variable determines whether the provisioning server will create a boot script that will start the Administration Server and the Web Server instance upon system boot.
`startOnInstall`	The value of this variable determines whether the provisioning server will start the Administration Server and the Web Server instance when the installation is complete.

TABLE 5–1 List of component variables *(Continued)*

Variables	Description
`WEB_Media_Directory`	Path to the Web Server 7.0 installation binary on the target server.
`sixtyfourbitInstall`	Identifies 64-bit installation
`webAdminPassword`	Password to access the Administration Server.
`registerAdminAgent`	Specifies whether the Administration Node instance should be registered with the Administration Server instance at the time of installation or later.

Component Procedures

The component provides controls that enable you to stop, start, and restart Administration Servers.

TABLE 5–2 Components

Components	Description
`install:markOnly`	Use this procedure to update the N1 Service Provisioning System database to include any Administration Servers that you installed manually.
`uninstall:markOnly`	Use this procedure to update the N1 Service Provisioning System database to remove any Administration Servers that you uninstalled manually.
`StartWebAdminServer`	Use this procedure to start an Administration Server.
`RestartWebAdminServer`	Use this procedure to stop and then restart an Administration Server.
`StopWebAdminServer`	Use this procedure to stop an Administration Server.

WebServerInstance Component

The WebServerInstance component provides controls that enable you to stop, start, and restart Web Server instances. The component variables and component procedures available for use with the WebServerInstance component are described below. For instructions explaining how to control a Web Server instance, see "Controlling the Web Server 7.0" on page 24.

Component Variables

TABLE 5–3 List of Component variables

Variables	Description
`installIdentifier`	A unique ID that is used to link Web Server instance with Web Admin Server.
`installedPath`	Location where the Administration Server is installed.
`adminSSLPort`	SSL port to access the Administration Server.
`adminUser`	User ID to logon to the Administration Server.
`adminPassword`	Password to access the Web Administration Server.
`docRoot`	Path for the Web Server to store content documents.
`httpPort`	Port for the default HTTP Listener.
`serverName`	Server name for the new configuration.
`configName`	Unique name for your new configuration.
`nodeHost`	The node on which the Web Server instance has to be created.
`startOnCreate`	Start Web Server instance on creation.
`InstallPath`	Unique install path, generated automatically and should not be changed.

Component Procedures

TABLE 5–4 List of component procedures

Component	Description
`Install:markOnly`	Use this procedure to update the N1 Service Provisioning System database to include any server instances that you created manually.
`Uninstall:markonly`	Use this procedure to update the N1 Service Provisioning System database to remove any server instances that you deleted manually.
`StartWebServer`	Use this procedure to start a Web Server instance.
`RestartWebServer`	Use this procedure to stop and then restart a Web Server instance.

TABLE 5–4 List of component procedures *(Continued)*

`StopWebServer`	Use this procedure to stop a Web Server instance.

Plans

The Sun Java System Web Server 7.0 Plug-In 1.0 includes several plans for you to use to install and uninstall the Web Server product.

InstallWebAdminServer Plan

The InstallWebAdminServer plan installs the Administration Server and the first Web Server instance. For instructions explaining how to use the InstallWebAdminServer plan, see "Installing the Web Server 7.0" on page 20.

CreateWebServerInstance Plan

When you use the provisioning system to install the Administration Server, the provisioning system also installs the first Web Server instance. You cannot install any additional Web Server instances using the provisioning system. However, after you have used the Administration Server to manually create an additional Web Server instance, the CreateWebServerInstance plan enables you to update the N1 Service Provisioning System database to include the new Web Server instance. This plan creates a new virtual host in the N1 Service Provisioning System database to account for the new Web Server instance. You can control Web Server instances through the provisioning system by using the component procedures of the WebServerInstance component.

For instructions explaining how to use the CreateWebServerInstance plan, see "How to Create Additional Web Server Instances" on page 22.

InstallJESWebAdminServer Plan

The InstallJESWebAdminServer plan installs the Java ES Web Administration Server and first Web Server instance.

CreateJESWebServerInstance Plan

When you use the provisioning system to install the Java ES Web Administration Server, the provisioning system also installs the firs Web Server instance. You can also install additional Java ES Web Server instances using the provisioning system. You can also control Web Server

instances through the provisioning system by using the component procedures of the WebServerInstance component. For instructions explaining how to use the CreateWebServerInstance plan, see "How to Create Additional Web Server Instances" on page 22

Host Types

When the provisioning system installs an Administration Server or a Web Server instance, the provisioning system creates a virtual host for the installed server. The provisioning system assigns one of the following host types to the newly created virtual host:

- `com.sun.webserver7#WebAdminServerHT` – The provisioning system assigns this host type to the virtual host for an Administration Server.
- `com.sun.webserver7#WebServerInstanceHT` – The provisioning system assigns this host type to the virtual host for a Web Server instance.

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