

N1 Grid Service Provisioning System 5.0 User's Guide for the Linux Plug-In

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Contents

Preface 5

1 Overview of Linux Plug-In 9
Purpose of the Linux Plug-In 9
What the Linux Plug-In Includes 9
Requirements for Using the Linux Plug-In 10

2 Installing and Configuring the Linux Plug-In 11
Acquiring the Linux Plug-In 11
Adding the Linux Plug-In to N1 Grid Service Provisioning System 11
Customizing the Solution for Your Environment 12

3 Using the Linux Plug-In 13
Capturing and Deploying Linux RPM Files 13
▼ How to Capture a Linux RPM File 13
▼ How to Deploy a Linux RPM File 14
Component Types 14

Index 15

Preface

The *N1 Grid Service Provisioning System 5.0 User's Guide for the Linux Plug-In* contains information about installing, configuring, and using N1 Grid Service Provisioning System to provision Linux RPM files.

Who Should Use This Book

The main audience for the *N1 Grid Service Provisioning System 5.0 User's Guide for the Linux Plug-In* includes system administrators and operators of N1 Grid Service Provisioning System 5.0 software who want to be able to deploy Linux files with N1 Grid Service Provisioning System software. These users are expected to have the following background:

- Familiar with the N1 Grid Service Provisioning System 5.0 product
- Familiar with standard UNIX® and Microsoft Windows commands and utilities
- Familiar with the general concepts associated with Linux and RPM

Before You Read This Book

If you are not already familiar with using the N1 Grid Service Provisioning System software, read the following books:

- *N1 Grid Service Provisioning System 5.0 System Administration Guide*
- *N1 Grid Service Provisioning System 5.0 Operation and Provisioning Guide*
- *N1 Grid Service Provisioning System 5.0 Release Notes*

How This Book Is Organized

Chapter 1 provides an overview of the Linux Plug-In.

Chapter 2 explains how to install and configure the Linux Plug-In.

Chapter 3 describes how to capture and deploy Linux RPM files and identifies the specific component types in the Linux Plug-In.

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Typographic Conventions

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

TABLE P–1 Typographic Conventions

Typeface or Symbol	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	Command-line placeholder: replace with a real name or value	The command to remove a file is `rm` *filename*.
AaBbCc123	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the *User's Guide*. Perform a *patch analysis*. Do *not* save the file. [Note that some emphasized items appear bold online.]

Shell Prompts in Command Examples

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

TABLE P–2 Shell Prompts

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

CHAPTER 1

Overview of Linux Plug-In

This chapter explains general information about using N1 Grid Service Provisioning System to provision Linux RPM files and applications. The chapter contains the following information:

- "Purpose of the Linux Plug-In" on page 9
- "What the Linux Plug-In Includes" on page 9
- "Requirements for Using the Linux Plug-In" on page 10

Purpose of the Linux Plug-In

The Linux Plug-In adds an RPM (Red Hat Package Manager) file component type to N1 Grid Service Provisioning System software. An RPM file contains all the pieces needed for an application. By creating components of the RPM file component type, you can then deploy those components to other Linux systems. In other words, you deploy the application contained in the RPM file to those systems.

What the Linux Plug-In Includes

The Linux Plug-In includes the `RPM file` component type. This component type identifies a Linux RPM file.

Requirements for Using the Linux Plug-In

Any host on which you intend to deploy Linux RPM files must be running the Red Hat Enterprise Linux 2.1 or 3.0 operating system.

CHAPTER 2

Installing and Configuring the Linux Plug-In

This chapter contains the following information:

- "Acquiring the Linux Plug-In" on page 11
- "Adding the Linux Plug-In to N1 Grid Service Provisioning System" on page 11
- "Customizing the Solution for Your Environment" on page 12

Acquiring the Linux Plug-In

The Linux Plug-In is packaged as a *plug-in* to the N1 Grid Service Provisioning System software. Plug-ins are packaged in Java™ Archive (JAR) files. The Linux Plug-In files are available from the N1 Grid Service Provisioning System 5.0 Supplement CD or from the Sun Download Center.

Adding the Linux Plug-In to N1 Grid Service Provisioning System

To make a given plug-in known to the N1 Grid Service Provisioning System product, you need to import the plug-in. To import a plug-in, follow these steps as explained in detail in Chapter 5, "Plug-In Administration," in *N1 Grid Service Provisioning System 5.0 System Administration Guide*.

1. In the Administrative section of the 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 `com.sun.linux_1.1.jar` file.

4. Click the Continue to Import button.

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

You can also import a plug-in archive file from the command line. Use the following command:

```
% cr-cli -cmd plg.p.add -path com.sun.linux_1.1.jar -u username -p password
```

Customizing the Solution for Your Environment

You should grant no permissions to the `/com/sun/linux` folder.

CHAPTER 3

Using the Linux Plug-In

This chapter explains how to use the Linux Plug-In. The chapter contains the following information:

- "Capturing and Deploying Linux RPM Files" on page 13
- "Component Types" on page 14

Capturing and Deploying Linux RPM Files

Deploying Linux applications across your enterprise basically involves two processes:

- Capturing the RPM file from an existing location into a component
- Deploying that file to other Linux systems

▼ How to Capture a Linux RPM File

Before you can deploy a file across systems, you have to make the file known to the N1 Grid Service Provisioning System software and wrap it into a component.

Steps

1. **From the main page in the N1 Grid Service Provisioning System browser interface, click Create New Component.**

   The Components page appears.

2. **Click the Create link in the Action column.**
3. **Type a name for the component.**
4. **Select `com.sun.linux#RPM file` as the component type.**

The platform type changes to `system#RedHat Linux - any version`.

5. **(Optional) Type a label and description for the component.**
6. **Select the host and path name from which to capture the RPM file.**
7. **Click Check in.**

▼ How to Deploy a Linux RPM File

Steps

1. **Capture the component as described above.**
2. **Go to the Components section of the N1 Grid Service Provisioning System application.**
3. **Choose the component to deploy.**
4. **Click Run in the Actions column next to the Install procedure.**
   A plan details page appears for running the installation procedure.
5. **Choose a target host.**
   The target host needs to be running a version of the Linux operating system that matches the component to deploy.
6. **Click Run Plan.**

Component Types

The `RPM file` component type identifies a Linux RPM file component. When you create a component that uses this file type, the component has a default installation and a default uninstallation process.

Index

C
capturing an RPM file, 13-14
component type, RPM file, 14
configuring the plug-in, 12

D
deploying an RPM file, 14

I
importing the plug-in, 11-12

J
JAR file, 11
Java archive, *See* JAR file

L
Linux plug-in
  configuration, 12
  importing, 11-12

P
plug-in files
  importing, 11-12
plug-in files (Continued)
  location of, 11

R
RPM, 9
`RPM file` component type, 14