## Installation Guide for UNIX

Platform Process Manager Version 8.0 October 2010



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## **Before Installing**

## Introduction

#### About the document

This document describes how to install the software required to run Process Manager on UNIX hosts. Process Manager includes both server and client installations. Both of these components are required to run jobs using Process Manager.

This document assumes the following:

- You have installed LSF.
- The Process Manager Server and Client will be installed on a single UNIX host. This host acts as the central point of control for a cluster of LSF hosts that actually run the jobs.
- You are creating an LSF cluster composed of only UNIX hosts. There will be no Windows hosts in your cluster.

#### About the software

The Process Manager Server controls the submission of jobs to LSF, managing any dependencies between the jobs.

LSF dispatches all jobs submitted to it by the Process Manager Server, and returns the status of each jobs to the Process Manager Server. LSF also manages any resource requirements and performs load balancing within the compute cluster.

The Process Manager Client allows you to monitor your workload as it runs.

For an overview of the Process Manager components, see the introductory chapter in *Administering Platform Process Manager*.

You can install all of the components on a single host, or you can install the Process Manager Server and LSF on separate hosts. This document describes how to install all components on a single host.

## Supported versions and requirements

## Requirements

The Process Manager Server requires the following:

- 135 MB free disk space (approximately) for installation, and an additional 2 KB per job to handle jobs that run simultaneously
- 256 MB RAM for processing purposes
- LSF server host for installing Process Manager (Recommendation: The server host on which you install Process Manager should not be an LSF master host)
- J2RE (Java Runtime Environment), version 1.4

## Installation directories

The Process Manager installation produces the following directory structure:

- Machine-independent files are independent of the host type, and are shared by all host types (man pages, configuration files, include files, examples, etc.)
- $\qquad \text{JS\_TOP is the directory in which the Process Manager Server and Client files are installed. For example: } \\$

/usr/local/ppm

## **Prerequisites**

Before installing Process Manager, review these requirements:

- · Obtain a license file for Process Manager.
- Set up a shared file system for the hosts. The shared file system needs to be writable by root during the installation.
- Perform the installation as root. This includes the distribution installation as well as the host setup steps. The root account must be able to write into the file system mounted at LSF\_TOP.

## License files

Copy license file contents into a file from which Process Manager can access the license information. For example, create a file called license. dat.

## Prepare distribution files

- 1. Log in as root to one of the hosts that will be running LSF jobs.
- 2. Get the distribution tar files for all host types you need. For example, for AIX, you need the following files:
  - ppm8. 0\_server\_ai x5-64. tar. Z
  - ppm8. 0\_client\_flowmanager\_aix5-64.tar.Z
  - ppm8. 0\_client\_editors\_aix5-64.tar.Z

Do not extract the distribution tar files.

Get the installation script tar file and extract it:

#### zcat ppm8.0\_pinstall.tar.Z|tar xvf -

This creates a directory called ppm8. 0\_pi nstall, containing the following:

- a) install.config—configuration file where you define your installation prior to installing.
- b) j si nst al l —install script for installing both Process Manager Server and Client

## Edit install.config

1. Change to the ppm8. O\_pi nstall directory:

#### cd ppm8.0\_pinstall

2. As an administrator, edit ppm8. 0\_pi nstall/install.config to define your configuration.

Remove the comment symbol (#) and set values for the following parameters:

a) JS\_TOP

Specify the full path to the Process Manager directory. For example:

JS\_TOP=/usr/share/js

b) JS HOST

Specify the fully-qualified host name of the Process Manager Server host. For example:

JS\_HOST=hostB. platform.com

c) JS\_PORT=1966

Use the default port number, 1966.

Ensure that you change this value if another process is already using the port. For example:

JS\_PORT=1234

d) JS\_ADMINS

Specify the user name of the primary LSF administrator. For example:

JS\_ADMI NS=l sfadmi n

e) JS\_LICENSE

Specify the full path and name of the license file. For example:

JS\_LICENSE=/usr/share/license.dat

f) LSF\_ENVDIR

Specifies the directory where the LSF configuration files are stored. For example: LSF\_ENVDI R=/usr/share/lsf/conf.

3. Saveinstall.config.

## Preinstallation options

## Install library patch upgrade for Solaris 2.7 64-bit machine

If you are running Process Manager on a Solaris 2.7 64-bit machine, you need to ensure that you have the latest shared library patch for C++ from Sun Microsystems.

- 1. Navigate to Sun Microsystem's patch access.
- 2. Search for patch 106327-23 and download it. (This patch is dependent on 106950-13 or greater.)
- 3. Unzip files to a temporary directory and apply the patch.

## 2 Installing

## Run the install script

1. As root, run the install script as follows:

#### ./jsinstall -f install.config

This installs Process Manager. A directory is created and an I nstal 1.1 og file is created. All the events of the installation are logged here.

- 2. Review the license agreement.
- 3. Accept the terms and conditions of the agreement by specifying y.
- 4. When prompted, select the Process Manager Server and Client for the current operating system, and press Enter. A message tells you when installation is successful.

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## After Installing

## Start the Process Manager Server

- 1. After the installation is complete, set the Process Manager environment:
  - On csh or tcsh:

#### source JS\_TOP/conf/cshrc.js

- On sh, ksh or bash:
  - . JS\_TOP/conf/profile.js

where JS\_T0P is the top-level Process Manager installation directory, the value specified in the install. config file.

2. Run j admi n start to start the Process Manager Server:

#### jadmin start

3. To start the daemon on the Server host at boot time, run boot set up on the Server host.

## Set the client environment

- 1. Set the Process Manager environment on each client:
  - On csh or tcsh:

#### source JS\_TOP/conf/cshrc.js

- On sh, ksh or bash:
  - . JS\_TOP/conf/profile.js

where JS\_T0P is the top-level Process Manager installation directory, the value specified in the install.config file.

- 2. After the Process Manager Server has started, run the client applications to verify the success of the installation:
  - a) Run floweditor
  - b) Run flowmanager
  - c) Run cal editor

Both the Calendar Editor and the Flow Manager require a connection to the Server to be able to start. If you are unable to start either application, there is an error in the configuration, or the Server is not started.

After Installing



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