CHAPTER 2

Installing Prime Performance Manager

The following topics tell you how to install and start Cisco Prime Performance Manager, and also how to verify the installation.

Installing Prime Performance Manager Gateway and Unit

The steps to install Prime Performance Manager gateway and unit on the Oracle Solaris and Linux servers are the same. However, the output may differ on Linux servers. You must install the Prime Performance Manager in the following order. Many steps are partially or fully automated.

1. Downloading and Extracting the Prime Performance Manager Software, page 2-2
2. Starting the Installation, page 2-3
3. Selecting a Startup Option, page 2-12
4. Verifying Prime Performance Manager Installation, page 2-15

Prime Performance uses separate gateway and unit installation scripts. If you install the gateway and unit on the same server, the gateway script runs first, then the unit script.

Before you Begin

Before you install Prime Performance Manager, verify that:

- Your hardware and the software meet the requirements specified in Server Requirements, page 1-1.
- The required ports are available. See Prime Performance Manager Ports, page 1-18.

Downloading and Extracting the Prime Performance Manager Software

You can get the Prime Performance Manager 1.1 software in one of two ways. You can either download the evaluation version from Cisco.com or the licensed software version from the DVD.

Caution The following steps include logging in as the *root* user. As the *root* user, you can adversely affect your operating environment if you are unaware of the effects of the commands that you use. If you are a relatively inexperienced UNIX user, limit your activities as the root user to the tasks described in this guide.

If you are installing Prime Performance Manager 1.1 from the software DVD, go to the "Starting the Installation" procedure on page 2-3. To download and extract the Prime Performance Manager zip 1.1 file:

Step 1 Log into the server as *root*.

If you are already logged in, but not as the root user, use the **su** command to change your login to root:

```
# su
# Password: root-password
```

Step 2 Create (or use an existing) directory where you can unzip the Prime Performance Manager 1.1 zip file. You can extract the file into any disk partition with enough space to contain the downloaded zip file and the extracted image. Space requirements:

- Linux—700 MB
- Oracle Solaris—1.1 GB

Note Do not use the /tmp directory for the temporary unzip location. Using the /tmp directory can cause unexpected results.

```
# mkdir /ppm
# cd /ppm
```

Step 3 To download the Prime Performance Manager upgrade software:

a. Log into the Cisco Prime Performance Manager website:

   http://www.cisco.com/go/performance

b. At the bottom of the page, click **Try Cisco Prime Performance Manager**.

c. In the Downloads area Find box, enter **Cisco Prime Performance Manager 1.0**.

d. In the Download Software page, click **Download Now** next to the appropriate Release 1.1 upgrade software module:

   – ppm110-solaris-upgrade-k9-fcs.zip—1.x upgrade installation for Solaris servers.

   – ppm110-cd-linux-upgrade-k9-fcs.zip—1.x upgrade installation for Linux servers.

e. On the Download Cart confirmation page, click **Proceed With Download** and download the file to the directory specified in Step 2.

Step 4 To download the Prime Performance Manager 1.1 evaluation software:

a. Log into the Cisco Prime Performance Manager website:

   http://www.cisco.com/go/performance

b. Scroll to the bottom of the Cisco Prime Performance Manager page and click **Try Cisco Performance Manager**.

c. In Welcome to Cisco Promotional Store page, click the **Cisco Prime Performance Manager (PPM) 1.1. Linux** or **Cisco Prime Performance Manager (PPM) 1.1. Solaris**.

d. Proceed through the checkout cart. At the end, you will download one of the following evaluation zip files to In the Download Software page, click **Download Now** next to the appropriate Release 1.1 upgrade software module:

- ppm110-cd-sol-111220-k9-eval-fcs.zip—Evaluation installation for Solaris servers.
- ppm110-cd-linux-111220-k9-eval-fcs.zip—Evaluation installation for Linux servers.

Step 5 Unzip the Prime Performance Manager 1.1 file:

```
cd ppm11zipfile
# unzip ppm11zipfile
```

Where *ppm11zipfile* is the file you downloaded in Step 3 or Step 4.

Step 6 Continue with the "Starting the Installation" procedure on page 2-3.

Starting the Installation

Complete the following steps to install:

- Gateway and unit on the same server.
- Gateway and unit on the different servers.

During the installation, the Prime Performance Manager installer prompts you for a response and displays the default value for each prompt in square brackets [ ]. To accept the default value, press **Enter**.

To start the installation:

Step 1 If you downloaded the Prime Performance Manager zip file, in the directory where you have extracted the Prime Performance Manager zip file, enter:

```
# ./setup.sh
```

If you are installing from the Prime Performance Manager 1.1 software DVD, insert the DVD in the disk drive, then enter one of the following:

- Full installation on Linux:

```
cd ppm110-cd-linux-111220-k9-fcs
./setup.sh
```

- Full installation on Solaris:

```
cd ppm110-cd-sol-111220-k9-fcs:
./setup.sh
```

- Upgrade installation on Linux:

```
cd ppm110-upgrade-linux-fcs:
./setup.sh
```

- Upgrade installation on Solaris:

```
cd ppm110-upgrade-solaris-fcs:
```

```
./setup.sh
```

The installer checks for the gateway and unit installation, then displays the installation menu:

```
    1) Review  README File First (Recommended)
    2) Install Prime Performance Manager Gateway and Unit
    3) Install Prime Performance Manager Gateway Only
    4) Install Prime Performance Manager Unit Only
    5) Exit Setup

Please choose an option -> 2
```

Step 2 Enter the installation option.

- Option 1—Displays the Readme file.
- Option 2—Installs the gateway and unit on the same server.
- Option 3—Installs the gateway; does not install the unit.
- Option 4—Installs the unit; does not install the gateway.

Gateway and Unit or Gateway Only Installation:

Note If you selected option 4 (unit only), go to the Install Gateway and Unit or Unit Only:, page 2-8 section.

If you selected option 2 (gateway and unit) or 3 (gateway only), the installer displays information similar to the following:

```
================================================================================
===============- Prime Performance Manager Gateway Install Started -============
Started : Thu May 12 14:15 EDT 2011
Host    : SunOS yourserver 5.10 SUNW,Sun-Fire-V215
Version : 1.1.0
================================================================================
```

The installer checks your system to ensure that all requirements are met. Information similar to the following appears:

```
================================================================
=================- System Requirements Check -================
================================================================
INFO: Checking Operating System Type    : SunOS, OK.
INFO: Checking Operating System Version :   5.10, OK.

Checking for Required patches...
INFO: Checking Solaris patch [121133-02]...OK.
INFO: Checking Solaris patch [120900-04]...OK.
INFO: Checking Solaris patch [119254-73]...OK.
INFO: Checking Solaris patch [119578-30]...OK.
INFO: Checking Solaris patch [118833-36]...OK.
INFO: Checking Solaris patch [118918-24]...OK.
INFO: Checking Solaris patch [120011-14]...OK.
INFO: Checking Solaris patch [127127-11]...OK.
INFO: Checking Solaris patch [137137-09]...OK.
INFO: Checking Solaris patch [118918-24]...OK.
INFO: Checking Solaris patch [120272-28]...OK.
INFO: Checking Solaris patch [138217-01]...OK.
INFO: Checking Solaris patch [122640-05]...OK.
INFO: Checking Solaris patch [125503-02]...OK.
INFO: Checking Solaris patch [126897-02]...OK.
INFO: Checking Solaris patch [140796-01]...OK.
```

```
INFO: Checking Solaris patch [140860-01]...OK.
INFO: Checking Solaris patch [140899-01]...OK.
INFO: Checking Solaris patch [125891-01]...OK.
INFO: Checking Solaris patch [126540-02]...OK.
INFO: Checking Solaris patch [127755-01]...OK.
INFO: Checking Solaris patch [138866-03]...OK.
INFO: Checking Solaris patch [125555-07]...OK.

Checking for Optional patches...
INFO: Checking Solaris patch [125547-02]...OK.

INFO: This product requires:

        RAM             8192 MB
        SWAP            8192 MB
        CPU             1024 MHz

INFO: Checking RAM...  16778 MB OK

INFO: Checking Swap... 52475 MB OK

INFO: Checking CPU...  2 x 1504 MHz OK
```

If any requirement is missing, a warning message appears. For a list of all system requirements, see Server Requirements, page 1-1.

Next, the installer checks the TCP/IP addresses. Information similar to the following appears:

```
============================================================
------------------- TCP/IP Address Check --------------------
============================================================

Network Names defined for: yourserver
localhost
yourserver
============================================================

INFO: Machine: "yourserver" resolves to nnn.nnn.nnn.nnn
INFO: Local address resolution -> Primary:files, Secondary:dns
```

If multiple IP addresses are configured on the Linux server, you are prompted to bind the server to a specific IP address during the installation. This prompt appears during the TCP/IP Address Check.

For example, `The Gateway must bind to a specific IP address. Available IP addresses. xx.yy.zz.ww, aa.bb.cc.dd. Enter IP address to bind server to: nnn.nnn.nnn.nnn.`

Next, the installer checks the TCP/IP port usage. Information similar to the following appears:

```
============================================================
------------------- TCP/IP Port Usage Check -----------------
============================================================

INFO: This product uses these port numbers:

INFO:    [ 1] Server Name         : yourserver
INFO:    [ 2] Web Server          : 4440/tcp
INFO:    [ 3] JSP Server          : 4470/tcp
INFO:    [ 4] Naming Server       : 45742/tcp

INFO: Checking system for available ports...

INFO: Checking port   4440 for Web    Server... Available.
INFO: Checking port   4470 for JSP    Server... Available.
INFO: Checking port  45742 for Naming Server... Available.
```

The installer displays the gateway summary information and prompt:

```
============================================================
==============- Prime Performance Manager Gateway Summary -=========
============================================================

INFO: The following parameters will be used:

INFO:   [ 1] Server Name         : yourserver
INFO:   [ 2] Web Server          : 4440/tcp
INFO:   [ 3] JSP Server          : 4470/tcp
INFO:   [ 4] Naming Server       : 45742/tcp

Press Return to continue ->
```

Step 3 Press **Enter**.

The Cisco Prime Performance Manager checks the disk space to determine whether adequate space in the ../opt default installation directory to install the Prime Performance Manager gateway. Information similar to the following is displayed:

```
============================================================
================- Disk Space Usage Check -==================
============================================================

INFO: For this product the default disk space requirements are:
        /opt                  10240 MB
        /var/sadm                 1 MB
        /var/tmp                  1 MB
        /tmp                      1 MB

INFO: Checking default disk space requirements... OK.
============================================================

INFO: Checking your release... All components present.
INFO: Checking for existing product tree... None.
```

If space is available, installation continues. If not, the installer prompts you to specify a different directory, then continues the installation. If your system meets all requirements, the installer displays the following information and prompt:

```
============================================================
================- Express Install Check -===================
============================================================

Express Install takes all defaults and places the product in /opt

Do you want the Express Install (y/n)? [n]
```

Express Install uses all the default settings. It minimizes system prompts, and installs the Prime Performance Manager in the ../opt directory.

Step 4 Select an installation option:

- Express Install—Press **Enter**.
- Standard Installation—Enter **n**, then press **Enter**.

  The installer prompts you to enter the directory name and TCP port number for the web server, JSP server, and naming server. The installer displays prompts, similar to the following:

  - `Where should the product be installed ? [/opt]`
  - `Which tcp port should Web Server use [4440] ?`
  - `Which tcp port should JSP Server use [4470] ?`
  - `Which tcp port should Naming Server use [45742] ?`

If you chose the Express installation, the installer displays the following messages and prompt:

```
INFO: Installing product into /opt.

Processing package instance <CSCOppm-gw> from <The path where the user has extracted the
.zip file, for example /ppm/0842AM/ppm100-cd-sol-xxyyzz-k9>

Cisco Prime Manager Performance - Gateway(sparc) 1.1.0
Prime Performance Manager - Gateway
Copyright (c) 2001-2012 by Cisco Systems, Inc.
All rights reserved
Using </opt/CSCOppm-gw> as the package base directory.
## Processing package information.
## Processing system information.

Installing Cisco Prime Manager Performance - Gateway as <CSCOppm-gw>

## Installing part 1 of 1.
/opt/CSCOppm-gw/apache/LICENSE
------------------------------
------------------------------
/opt/CSCOppm-gw/tomcat/webapps/ppm/res/tree/connectors/plus-TopBottomRight.png
/opt/CSCOppm-gw/tomcat/webapps/ppm/res/tree/connectors/plus-TopRight.png
[ verifying class <ppmGW> ]
## Executing postinstall script.

INFO: Adding cron entries...

============================================================
INFO: *** Install mode: NEW ***
============================================================
Installation of <CSCOppm-gw> was successful.

INFO: Checking Installation.
INFO: Package CSCOppm-gw installed OK. Verifying... OK.
============================================================
Enter default SNMP read community string:  [public ]
```

Step 5 Press **Enter** to accept the default, or enter a different SNMP read community string.

The following messages and prompt appear:

```
Default SNMP read community string set to: public

============================================================

Prime Network (ANA) Integration Is Available From WebClient.

   Integration Screen Is Default Window At First Login
```

```
Press Any Key To Continue...

============================================================

Would you like to enable User Access and Logins? [ n ]
```

Step 6 Enter **y** to add user with the required access role, or n to add user access later. (For information on enabling user access, see the *Cisco Prime Performance Manager 1.1 User Guide*.)

```
Enable Later With: ppm useraccess enable

============================================================
To use the product CLI, set your Unix path to:
/opt/CSCOppm-gw/bin:$PATH

To access the product via WebClient use the following URL:
http://yourserver:4440

in your web browser.
Check the documentation for supported browsers and versions.

============================- Error Summary -============================
No Errors were encountered during installation.
========================================================================

Started  : Thu May 12 14:15 EDT 2011
Finished : Thu May 12 14:25 EDT 2011

========================================================================
=============- Prime Performance Manager Gateway Install Completed -============
========================================================================
Review /var/tmp/cisco_primepm_gw_install.log for detailed results.

========================================================================
```

See Client Requirements, page 1-17 for the supported browsers to launch Prime Performance Manager.

The installer completes gateway installation and displays the following message:

```
Review /var/tmp/cisco_primepm_gw_install.log for detailed results.

 Would you like to view the install log? [ n ] ->
```

Step 7 If you do not want to view the log, press **Enter**. To view the log, enter **y**, press **Enter**, then press the **spacebar** to scroll through the log.

If you chose to install only the gateway in Step 2, after the gateway installation, you can choose a startup option. See Selecting a Startup Option, page 2-12.

If you chose to install the gateway and the unit, the installer continues with the unit installation.

Install Gateway and Unit or Unit Only:

If you chose to install both gateway and unit (option 2), the unit installation begins automatically. If you selected unit only (option 4), the installer displays information similar to the following:

```
===============- Cisco Prime Performance Manager Unit Install Started -============
Started : Thu May 12 14:26 EDT 2011
Host    : SunOS yourserver 5.10 SUNW,Sun-Fire-V215
Version : 1.1.0

========================================================================
```

The installer checks the system to ensure that all requirements are met. Information similar to the following appears:

```
============================================================
=================- System Requirements Check -===============
============================================================
INFO: Checking Operating System Type    : SunOS, OK.
INFO: Checking Operating System Version :   5.10, OK.

Checking for Required patches...
INFO: Checking Solaris patch [121133-02]...OK.
INFO: Checking Solaris patch [120900-04]...OK.
INFO: Checking Solaris patch [119254-73]...OK.
INFO: Checking Solaris patch [119578-30]...OK.
INFO: Checking Solaris patch [118833-36]...OK.
INFO: Checking Solaris patch [118918-24]...OK.
INFO: Checking Solaris patch [120011-14]...OK.
INFO: Checking Solaris patch [127127-11]...OK.
INFO: Checking Solaris patch [137137-09]...OK.
INFO: Checking Solaris patch [118918-24]...OK.
INFO: Checking Solaris patch [120272-28]...OK.
INFO: Checking Solaris patch [138217-01]...OK.
INFO: Checking Solaris patch [122640-05]...OK.
INFO: Checking Solaris patch [125503-02]...OK.
INFO: Checking Solaris patch [126897-02]...OK.
INFO: Checking Solaris patch [140796-01]...OK.
INFO: Checking Solaris patch [140860-01]...OK.
INFO: Checking Solaris patch [140899-01]...OK.
INFO: Checking Solaris patch [125891-01]...OK.
INFO: Checking Solaris patch [126540-02]...OK.
INFO: Checking Solaris patch [127755-01]...OK.
INFO: Checking Solaris patch [138866-03]...OK.
INFO: Checking Solaris patch [125555-07]...OK.

Checking for Optional patches...
INFO: Checking Solaris patch [125547-02]...OK.

INFO: This product requires:

        RAM             8192 MB
        SWAP            8192 MB
        CPU             1024 MHz

INFO: Checking RAM... 16778 MB OK

INFO: Checking Swap... 52475 MB Ok

INFO: Checking CPU... 2 x 1504 MHz OK
```

If any requirement is missing, a warning message appears. For a list of all system requirements, see Server Requirements, page 1-1.

The installer checks the TCP/IP addresses. Information similar to the following appears:

```
============================================================
==================- TCP/IP Address Check -==================
============================================================

Network Names defined for: yourserver
localhost
yourserver

INFO: Machine: "yourserver" resolves to nnn.nnn.nnn.nnn
```

```
INFO: Local address resolution -> Primary:files, Secondary:dns
```

If multiple IP addresses are configured on the Linux server, you are prompted to bind the server to a specific IP address. For example:

```
The Unit must bind to a specific IP address. Available IP addresses. xx.yy.zz.ww,
aa.bb.cc.dd. Enter IP address to bind server to: xx.yy.zz.ww.
```

The installer checks the TCP/IP port usage. Information similar to the following appears:

```
============================================================
=================- TCP/IP Port Usage Check -=================
============================================================

INFO: This product uses these port numbers:

INFO:   [ 1] Server Name         : yourserver
INFO:   [ 2] Web Server          : 5440/tcp
INFO:   [ 3] JSP Server          : 5470/tcp
INFO:   [ 4] Naming Server       : 55742/tcp

INFO: Checking system for available ports...

INFO: Checking port   5440 for Web    Server... Available.
INFO: Checking port   5470 for JSP    Server... Available.
INFO: Checking port  55742 for Naming Server... Available.
```

The installer displays the following unit summary information:

```
============================================================
==============- Cisco Prime Performance Manager Unit Summary -==========
============================================================

INFO: The following parameters will be used:

INFO:   [ 1] Server Name         : yourserver
INFO:   [ 2] Web Server          : 5440/tcp
INFO:   [ 3] JSP Server          : 5470/tcp
INFO:   [ 4] Naming Server       : 55742/tcp

Press Return to continue ->
```

Step 8 Press **Enter**.

The installer checks the disk to ensure adequate space in the ../opt default installation directory is available to install the unit. It displays information similar to the following:

```
============================================================
================- Disk Space Usage Check -==================
============================================================

INFO: For this product the default disk space requirements are:
        /opt                  10240 MB
        /var/sadm                1 MB
        /var/tmp                 1 MB
        /tmp                     1 MB

INFO: Checking default disk space requirements... OK.
============================================================

INFO: Checking your release... All components present.

INFO: Checking for existing product tree... None.
```

If space is adequate, installation continues. If the space is not adequate, the installer prompts you to specify a different directory, then continues the installation.

The Express Install option uses default settings, minimizing system prompts, and places the Cisco Prime Performance Manager in the /opt directory.

If space is available, installation continues. If not, the installer prompts you to specify a different directory, then continues the installation. If your system meets all requirements, the installer displays the following information and prompt:

```
============================================================
================ Express Install Check -====================
============================================================

Express Install takes all defaults and places the product in /opt

Do you want the Express Install (y/n)? [n]
```

Express Install uses all the default settings. It minimizes system prompts, and installs the Prime Performance Manager in the ../opt directory.

Step 9 Select an installation option:

- Express Install—Press **Enter**.
- Standard Installation—Enter **n**, then press **Enter**.

The installer prompts you to enter the directory name and TCP port number for the web server, JSP server, and naming server:

  - `Where should the product be installed ? [/opt]`
  - `Which tcp port should Web Server use [5440] ?`
  - `Which tcp port should JSP Server use [5470] ?`
  - `Which tcp port should Naming Server use [55742] ?`

If you chose the Express installation, the following messages and prompt appear:

```
INFO: Installing product into /opt.

Processing package instance <CSCOppm-unit> from </ppm/0842AM/ppm100-cd-sol-xxyyzz-k9>

Cisco Cisco Prime Performance Manager - Unit(sparc) 1.1.0

Prime Performance Manager - Unit
Copyright (c) 2001-2012 by Cisco Systems, Inc.
All rights reserved
Using </opt/CSCOppm-unit> as the package base directory.
## Processing package information.
## Processing system information.
Installing Cisco Cisco Prime Performance Manager - Unit as <CSCOppm-unit>

## Installing part 1 of 1.
/opt/CSCOppm-unit/Prototype
/opt/CSCOppm-unit/apache/LICENSE
/opt/CSCOppm-unit/apache/LICENSE.SSL
/opt/CSCOppm-unit/apache/LICENSE.tomcatjk
/opt/CSCOppm-unit/apache/bin/ab
/opt/CSCOppm-unit/apache/bin/apachectl
/opt/CSCOppm-unit/apache/bin/apxs...
.../opt/CSCOppm-gw/tomcat/webapps/ppm/res/tree/connectors/plus-TopRight.png

[ verifying class <ppmUnit> ]
## Executing postinstall script.
```

```
INFO: Adding cron entries...

============================================================
INFO: *** Install mode: NEW ***
============================================================

Installation of <CSCOppm-unit> was successful.

INFO: Checking Installation.
INFO: Package CSCOppm-unit installed OK. Verifying... OK.

============================================================
To use the product CLI, set your UNIX path to:

   /opt/CSCOppm-unit/bin:$PATH
============================- Error Summary -============================

No Errors were encountered during installation.

================================================================================

Started  : Thu May 12 14:26 EDT 2011
Finished : Thu May 12 14:29 EDT 2011
================================================================================
=============- Cisco Prime Performance Manager Unit Install Completed -=============
```

Note If you installed the unit on a different server than the gateway, you are prompted to enter the IP address or hostname of the gateway server and the RMI port.

After the unit is installed, the following message:

```
Review /var/tmp/cisco_primepm_unit_install.log for detailed results.

 Would you like to view the install log? [ n ] ->
```

Step 10 If you do not want to view the log, press **Enter**. To view the log, enter **y**, press **Enter**, then press the **spacebar** to scroll through the log.

Selecting a Startup Option

After the Prime Performance Manager gateway and/or unit are installed, the following prompt appears:

```
Checking status of Prime Performance Manager installation.
Preparing for startup...

 ************************************************************************
 *                                                                      *
 *              *           *                    Prime                *
 *           *  *  *     *  *  *           Premier    Integrated       *
 *        *  *  *  *  *  *  *  *  *        Management  Experience       *
 *        *  *  *  *  *  *  *  *  *        Performance   Manager        *
 *              *           *                                         *
 *            C   I   S   C   O             Startup Options           *
 *                                                                      *
 ************************************************************************

1) Start Prime Performance Manager Gateway and Unit
2) Start Prime Performance Manager Gateway Only
3) Start Prime Performance Manager Unit    Only
4) Exit Setup
```

```
Please choose an option ->
```

Note The startup options vary, depending on the installation option you chose. For example, if you installed only the gateway, only the Start Prime Performance Manager Gateway Only and Exit Setup options are displayed. If you installed only the unit, only the Start Prime Performance Manager Unit Only and Exit Setup options are displayed.

Step 11 Choose one of the following startup options:

- Start Prime Performance Manager Gateway and Unit (Enter **1**).
- Start Prime Performance Manager Gateway (Enter **2**).
- Start Unit (Enter **3**).
- Exit Setup (Enter **4**).

Note If you exit the setup without starting Prime Performance Manager, you can start Prime Performance Manager later. See Starting Prime Performance Manager Using CLI, page 2-15.

Note The steps to start the gateway and unit on the Oracle Solaris and Linux servers are the same. However, the output might differ.

If you chose to start the gateway and unit, the installer starts the gateway and displays messages similar to the following:

```
**************************************************************************
 Starting Prime Performance Manager Gateway and Unit
 Versions 1.1.0 & 1.1.0
**************************************************************************
Starting Prime Performance Manager Gateway App Server...

    -- Prime Performance Manager Gateway Launch         Server  IS  Started.

    -- Prime Performance Manager Gateway Database       Server  IS  Started.

    -- Prime Performance Manager Gateway Naming         Server  IS  Started.

    -- Prime Performance Manager Gateway MessageLog     Server  IS  Started.

    -- Prime Performance Manager Gateway DataServer     Server  IS  Started.

    -- Prime Performance Manager Gateway JSP            Server  IS  Started.

Prime Performance Manager Gateway App Server IS Started.

Starting Prime Performance Manager Gateway Web          Server  On  Port 4440...

    -- Prime Performance Manager Gateway Web            Server  IS  Started.

Connect Web Browser To Gateway:

   http://yourserver:4440


Starting Prime Performance Manager Unit App Server...
```

```
    -- Prime Performance Manager Unit Launch         Server  IS  Started.

    -- Prime Performance Manager Unit Database       Server  IS  Started.

    -- Prime Performance Manager Unit Naming         Server  IS  Started.

    -- Prime Performance Manager Unit MessageLog     Server  IS  Started.

    -- Prime Performance Manager Unit DataServer     Server  IS  Started.

    -- Prime Performance Manager Unit JSP            Server  IS  Started.

Prime Performance Manager Unit App Server IS Started.

Report Transport Statistics: Interface enabled
Report Availability: SNMP Ping enabled
Report Availability: Interfaces enabled
Report Resources: CPU enabled
Report Resources: Memory enabled

Application Traffic: AAA                              : disabled
Application Traffic: SNMP                             : disabled
Application Traffic: TCP                              : disabled
Application Traffic: UDP                              : disabled
Availability: Interfaces                              : enabled
Availability: MPLS Networks                           : disabled
Availability: PseudoWires                             : disabled
Availability: SNMP Ping                               : enabled
IP Protocols: BGP                                     : disabled
IP Protocols: ICMP                                    : disabled
IP Protocols: OSPF                                    : disabled
IP QoS: CAR                                           : disabled
IP QoS: Class Map                                     : disabled
IP QoS: EVC                                           : disabled
IP SLA: Ethernet OAM                                  : disabled
IP SLA: ICMP Jitter                                   : disabled
IP SLA: RoundTrip Time                                : disabled
IP SLA: UDP Jitter                                    : disabled
Resources: Buffers                                    : disabled
Resources: CPU                                        : enabled
Resources: Memory                                     : enabled
Transport Statistics: ATM Interface                   : disabled
Transport Statistics: ATM PVC                         : disabled
Transport Statistics: EVC Interface                   : disabled
Transport Statistics: Ethernet Errors                 : disabled
Transport Statistics: Interface                       : enabled
Transport Statistics: MPLS: In Segment                : disabled
Transport Statistics: MPLS: LDP                       : disabled
Transport Statistics: MPLS: MPLS Interface            : disabled
Transport Statistics: MPLS: Out Segment               : disabled
Transport Statistics: MPLS: TE Tunnel                 : disabled
Transport Statistics: PseudoWire                      : disabled

Connect Web Browser To Gateway:

   http://yourserver:4440
```

After the installation is completed, the following message appears:

```
Thank you for purchasing Cisco Cisco Prime Performance Manager!
```

Starting Prime Performance Manager Using CLI

After you install the Prime Performance Manager gateway and/or unit, you can start the gateway and/or unit immediately after the installation or at a later time.

To start the Prime Performance Manager gateway and/or unit from the command line, log in as the *root* user and use the following commands on both Oracle Solaris and Linux:

Note The following procedures assume that you installed the Prime Performance Manager in the default directory, /opt. If you installed the Prime Performance Manager in a different directory, use the name of that directory in place of /opt.

Table 2-1 lists the commands used to start Prime Performance Manager. For detailed instructions on using the commands to start and manage to start Prime Performance Manager, see "Managing Gateways and Units Using the Command Line Interface" in the *Prime Performance Manager 1.1 User Guide.*

Table 2-1 Starting Prime Performance Manager Using CLI

Gateway and/or Unit	Command
Gateway and collocated unit	`# cd /opt/CSCOppm-gw/bin` `# ./ppm start both`
Gateway	`# cd /opt/CSCOppm-gw/bin` `# ./ppm start gw`
Unit	`# cd /opt/CSCOppm-unit/bin` `# ./ppm start unit`

Verifying Prime Performance Manager Installation

To verify the Prime Performance Manager installation, you can perform tasks in the following topics:

- Checking the Installation Log, page 2-16
- Viewing Package Information for Gateway and Unit on Oracle Solaris, page 2-16
- Viewing Package Information for Gateway and Unit on Linux, page 2-17
- Verifying the Gateway and Unit Installation, page 2-18

Note These procedures are only needed if problems occur during installation. If Prime Performance Manager installs and starts normally, no verification tasks need to be performed.

Checking the Installation Log

During installation, messages are recorded in a log file to provide diagnostic information about problems that might arise. The location of the installation log file is provided at the end of the installation.

To check for installation error messages:

Step 1 Log into the Prime Performance Manager server as the *root* user

Step 2 Use the following commands to view the installation logs:

- Gateway installation log:

  # more *install_directory***/install/cisco_primepm_gw_install.log**

- Unit installation log:

  # more *install_directory***/install/cisco_primepm_unit_install.log**

- Gateway and unit installation log

  # more *install_directory***/install/cisco_primepm_install.log**

Where *install_directory* is the directory in which the Prime Performance Manager is installed. The default installation directory for the Prime Performance Manager is /opt/CSCOppm-gw or /opt/CSCOppm-unit

Step 3 Press the **spacebar** to scroll through the log.

You can also display the Prime Performance Manager gateway installation logs using the **ppm installlog** command.

Viewing Package Information for Gateway and Unit on Oracle Solaris

To verify that the Prime Performance Manager gateway and unit software packages are installed on an Oracle Solaris server:

Step 1 Enter one of the following commands:

```
# pkginfo -l CSCOppm-gw
# pkginfo -l CSCOppm-unit
```

Step 2 Verify that you receive output similar to the following:

```
   PKGINST:  CSCOppm-gw
      NAME:  Cisco Cisco Prime Performance Manager - Gateway
  CATEGORY:  application
      ARCH:  sparc
   VERSION:  1.1
   BASEDIR:  /opt/CSCOppm-gw
    VENDOR:  Cisco Systems, Inc
      DESC:  Cisco Cisco Prime Performance Manager - Gateway
    PSTAMP:  ems-svr20920110216010537
  INSTDATE: Dec 17 2011 01:31
   HOTLINE:  1-800-553-2447
     EMAIL:  tac@cisco.com
    STATUS:  completely installed
```

```
FILES:     2207 installed pathnames
            255 directories
           1936 executables
              2 setuid/setgid executables
         421885 blocks used (approx)
```

If the package was not found, one of the following is displayed:

```
ERROR: information for "CSCOppm-gw" was not found
ERROR: information for "CSCOppm-unit" was not found
```

If this occurs, complete the installation again.

Viewing Package Information for Gateway and Unit on Linux

To verify that the Prime Performance Manager gateway and unit software package is installed on a Linux server:

Step 1 Enter the following:

```
rpm -qa | grep CSCOppm
```

Step 2 To view more information about a package, enter one of the following commands:

```
rpm - qi CSCOppm-unit-server-1.1.0-01.i386
rpm - qi CSCOppm-unit-openssl-1.1.0-01.i386
rpm - qi CSCOppm-gw-web-1.1.0-01.i386
rpm - qi CSCOppm-unit-web-1.1.0-01.i386
rpm - qi CSCOppm-gw-jre-1.1.0-01.64bit.i386
rpm - qi CSCOppm-unit-jre-1.1.0-01.64bit.i386
rpm - qi CSCOppm-gw-server-1.1.0-01.i386
rpm - qi CSCOppm-gw-openssl-1.1.0-01.i386
```

Step 3 Verify that you receive output similar to the following:

```
<yourserver> rpm - qi CSCOppm-unit-server-1.1.0-01.i386
Name        : CSCOppm-unit-server          Relocations: /opt/CSCOppm-unit
Version     : 1.1.0                             Vendor: Cisco Systems, Inc.
Release     : 01                         Build Date: Fri Dec 9 09:01:02 2011
Install Date: Fri Jan 6 01:41:20 2012 Build Host: <yourhost>
Group  : Cisco/Network Management  Source RPM: CSCOppm-unit-server-1.1.
0-01.src.rpm
Size        : 63513374                         License: Copyright (c) 2008-2012
Cisco Systems, Inc.
Signature   : (none)
Summary     : Cisco Prime Performance Manager - Unit - Server
Description :
Cisco Systems Prime Performance Manager - Unit - Server
```

If a package is not found, one of the following messages is displayed:

```
package "CSCOppm-gw-openssl-1.1.0-01.i386" is not installed
package "CSCOppm-gw-server-1.1.0-01.i386" is not installed
package "CSCOppm-gw-jre-1.1.0-01.64bit.i386" is not installed
package "CSCOppm-gw-web-1.1.0-01.i386" is not installed
package "CSCOppm-unit-openssl-1.1.0-01.i386" is not installed
package "CSCOppm-unit-server-1.1.0-01.i386" is not installed
package "CSCOppm-unit-jre-1.1.0-01.64bit.i386" is not installed
package "CSCOppm-unit-web-1.1.0-01.i386" is not installed
```

If the Prime Performance Manager software packages were not installed, install the Prime Performance Manager again.

Verifying the Gateway and Unit Installation

After you install Prime Performance Manager, you can check the gateway status by entering the following command:

```
/opt/CSCOppm-gw/bin/ppm status
```

Information about the gateway is displayed. In the output, you should see the following status:

```
Prime Performance Manager Gateway Web   Server  IS  Running.
Prime Performance Manager Gateway App   Server  IS  Running.
    -- Prime Performance Manager Gateway Database       Server  IS  Running.
    -- Prime Performance Manager Gateway Naming         Server  IS  Running.
    -- Prime Performance Manager Gateway MessageLog     Server  IS  Running.
    -- Prime Performance Manager Gateway DataServer     Server  IS  Running.
    -- Prime Performance Manager Gateway JSP            Server  IS  Running.
    -- Prime Performance Manager Gateway Launch         Server  IS  Running.
```

If a unit is installed on the same server as the gateway, the unit information is provided. In the output, you should see the following status:

```
Prime Performance Manager Unit Web   Server  IS  Running.
Prime Performance Manager Unit App   Server  IS  Running.
    -- Prime Performance Manager Unit Database       Server  IS  Running.
    -- Prime Performance Manager Unit Naming         Server  IS  Running.
    -- Prime Performance Manager Unit MessageLog     Server  IS  Running.
    -- Prime Performance Manager Unit DataServer     Server  IS  Running.
    -- Prime Performance Manager Unit JSP            Server  IS  Running.
    -- Prime Performance Manager Unit Launch         Server  IS  Running.
```

To check the status of a remote unit, log into the remote server and enter:

```
/opt/CSCOppm-unit/bin/ppm status
```

For additional information, see “Managing Gateways and Units using the Command Line Interface” in the *Cisco Prime Performance Manager 1.1 User Guide*