

# **Oracle® Retail Regular Price Optimization**

Installation Guide

Release 13.2.1

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Primary Author: Barrett Gaines

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Oracle Retail Regular Price Optimization Installation Guide, Release 13.2.1

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If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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# Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

## Audience

This Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

## Documentation Accessibility

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Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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## Related Documents

For more information, see the following documents in the Oracle Retail Regular Price Optimization Release 13.2.1 documentation set:

- *Oracle Retail Regular Price Optimization Release Notes*
- *Oracle Retail Regular Price Optimization Implementation Guide*

## Customer Support

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<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

## Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.2) or a later patch release (for example, 13.2.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

[http://www.oracle.com/technology/documentation/oracle\\_retail.html](http://www.oracle.com/technology/documentation/oracle_retail.html)

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

# Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



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# Introduction

Oracle Retail Regular Price Optimization (RPO) assists retail price managers in pricing hard-line and grocery items. It is suited for long lifecycle items with infrequent price changes. It recommends permanent prices based on initial estimates of an item's total sales volume over a planning period and on price-related sales of items and related items.

RPO includes grouping in its pricing analysis because it considers cross-item elasticities; that is, RPO considers how price changes for one item may affect the sales volume of other items that belong to the same demand group. Users can input objective functions and pricing constraints that define the optimization problem. Once these inputs are defined, the pricing optimizer recommends prices and associated volumes. What-if cases can also be created and evaluated side by side within the context of a pricing scenario. Once an analysis of the what-if cases and recommended prices is complete, the user can make a final decision to submit the recommended prices for the given set of merchandise items and locations.

## About This Document

This document provides detailed instructions on how to install a Regular Price Optimization domain using a configuration created with the RPAS Configuration Tools. This document does not describe how to create the actual configuration.

This document contains information for full and patch installations:

- [Chapter 2, "Full Installation: UNIX Environments"](#). Refer to this section if you are performing a full installation.
- [Chapter 3, "Patch Installation"](#). Refer to this section if you are performing a patch installation.

Please read this entire guide before beginning the installation process to ensure you understand the installation process and have all the necessary documentation, hardware, and software available.

You will find supplemental installations guides referenced throughout this document; note that the *RPAS Installation Guide* and the *RPAS Configuration Tools User Guide* must be obtained prior to beginning the installation process. Oracle Retail recommends that you read these documents in their entirety before beginning the RPO installation process.

## Hardware and Software Requirements

The following table provides information about the current release.

**Table 1–1 Hardware and Software Requirements**

Requirement	Details
Supported RPAS Version	13.2.1
Supported OS, Server and Compilers	<ul style="list-style-type: none"> <li>■ Oracle Solaris 10 (SPARC): GCC 4.2.3 (32 bit)</li> <li>■ AIX 5.3 (POWER) - TL5 or greater: GCC 4.1.1 (32 bit)</li> <li>■ AIX 6.1 (POWER) - TL4: GCC 4.3.3 (32 bit)</li> <li>■ HP-UX 11.31 (Itanium): ACC 6.20 (64 bit)</li> <li>■ Oracle Enterprise Linux 5, Update 3 (OEL 5.3): GCC 4.1.2 (64 bit)</li> <li>■ Red Hat Enterprise Linux 5.3: GCC 4.1.2 (64 bit)</li> </ul>
Supported OS, Client	<ul style="list-style-type: none"> <li>■ Microsoft Windows XP</li> <li>■ Microsoft Windows Vista</li> </ul>
Required 3rd Party Software	<p>Oracle Java Runtime Environment (JRE) 1.5</p> <ul style="list-style-type: none"> <li>■ For AIX, the JRE version must be the 32-bit version of Java 1.5 SR1 or higher.</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>■ Oracle JRE 1.6 is also certified, but it is not necessary to upgrade to JRE 1.6.</li> <li>■ When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.</li> </ul>

## Supported Oracle Retail Products

The following Oracle Retail products are supported:

**Table 1–2 Supported Oracle Retail Products**

Requirement	Version
Oracle Retail Demand Forecasting	13.2.1

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## Full Installation: UNIX Environments

The installation of the server-side RPAS components on UNIX operating systems is accomplished using a Java-based installation program that is included with the installation package. The installation package contains two installers, the RPAS Installer and the RPO Installer.

The RPAS Installer automates the following:

- Installation of the RPAS server
- Installation of Configuration Tools on the server (Refer to the *RPAS Installation Guide* for information on installing Configuration Tools on Windows machines)
- Definition of DomainDaemon port
- Creation of a sample global domain

The RPO Installer automates the following:

- Installation of the RPO mock install configuration
- Custom configuration of make\_domain.rpo script for creating domains
- Creation of sample RPO domain

This document assumes that the RPAS Installer process (from the *RPAS Installation Guide*) has been completed prior to using the RPO Installer.

### Preparation

The RPAS components included in this installation process are available inside the media pack of the solution downloaded from Oracle's E-Delivery Web site (<http://edelivery.oracle.com/>).

If you are installing any RPAS 12.1 or above solution on HP Itanium, you need to set the 64-bit Configuration Tools environment variable for Java as shown below:

```
export RIDE_OPTIONS=-d64
```

## Environment Variable Setup Script

Before running the solution installer, run the `retaillogin.ksh` script. The script is located in the root of the base directory where RPAS was installed unless the default was overwritten when specifying directory paths.

Source the script from inside the directory where the script is located:

```
. ./retaillogin.ksh
```

Or, include the full path after the period:

```
. /<base_directory>/retaillogin.ksh
```

---

---

**Notes:**

- The preceding period and space (". ") must be included at the beginning of the command when executing the script.
  - Include this path and script in the `.profile` in your home directory (`~/ .profile`) if you want to have this environment setup script run during login.
- 
- 

This script sets up environment variables, such as `RPAS_HOME` and `RIDE_HOME`, which are required for RPAS to run properly.

## Extracting the RPO Installation Package

Perform the following procedure to extract the installation package.

1. Create an installation directory from which the RPO installation routine will be run. This directory is referred to as [RPO Installation].
2. Download the package from Oracle E-Delivery, and transfer the archive to the [RPO Installation] directory on the target server using FTP. Use binary mode to transfer the archive.
3. Extract the package to the [RPO Installation] directory.

```
cd [RPO Installation]
unzip [RPO Media Pack]
```

4. Extract the RPO Installer.

```
cd CDROM
unzip rpo.zip
```

## Installation Instructions

Perform the following procedures to install RPO.

1. Begin the Installer by first changing to the root of the [RPO Installation]/CDROM/rpo directory and running the following command:

```
./install.sh
```

---

---

**Note:** The command must be executed with the preceding period and forward slash.

---

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If this process is performed on an X-Windows emulator (such as Exceed), a graphical user interface to the Installer appears. If you are running in console mode through a terminal emulator, a text interface to the Installer appears.

In both cases, the requested information is identical but displayed differently. In the GUI, you may be shown a check box to signal whether you want a component installed; in text mode, you are prompted for a response of yes or no.

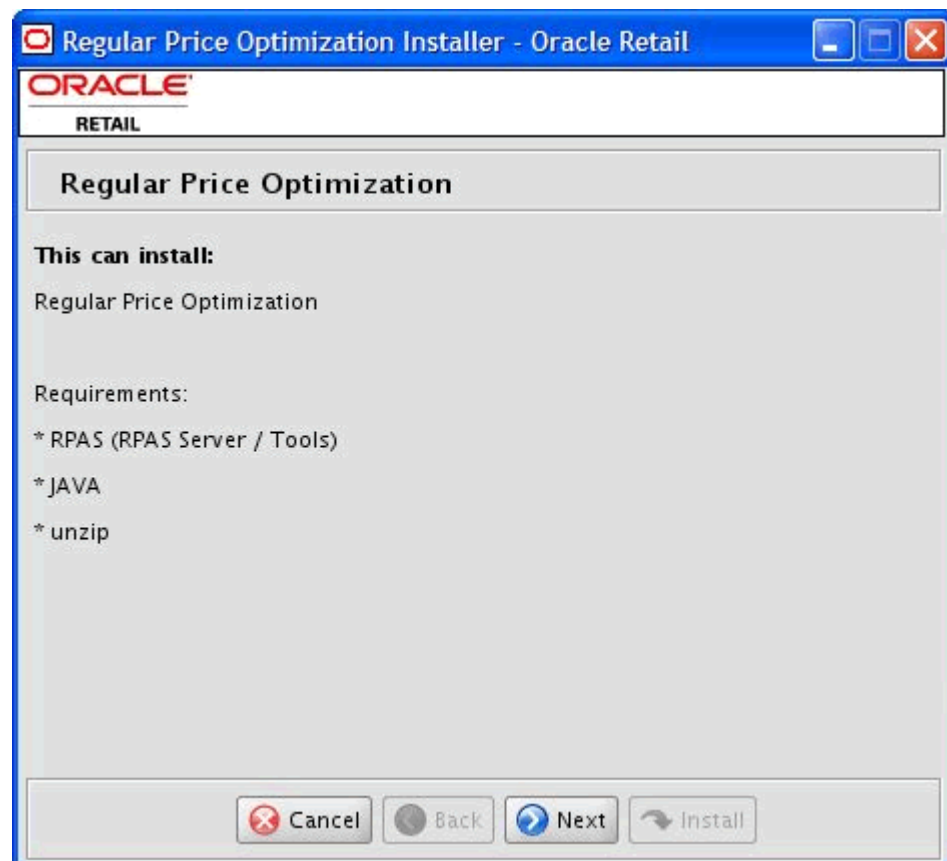
---

**Note:** In text mode, the default value appears in square brackets. To use the default value and continue, click **Enter**. If you wish to use a different value, enter the new value. When prompted to create a directory, respond with **y** or **yes** and click **Enter**.

---

The Regular Price Optimization Installer screen appears and shows the components that are installed during the installation process, as well as other required components.

**Figure 2-1 Regular Price Optimization Installer Screen**



Click **Next** to continue.

2. The Base Paths for Solution screen appears. Enter the following information:
  - Directories to store the configuration
  - Directory to store created domains for this solution (used to create domain paths on following page)
  - Path to the retaillogin.ksh script created during RPAS installation

**Figure 2–2 Base Paths for Solution Screen**

Regular Price Optimization Installer - Oracle Retail

**ORACLE**  
RETAIL

**Base Paths for Solution**

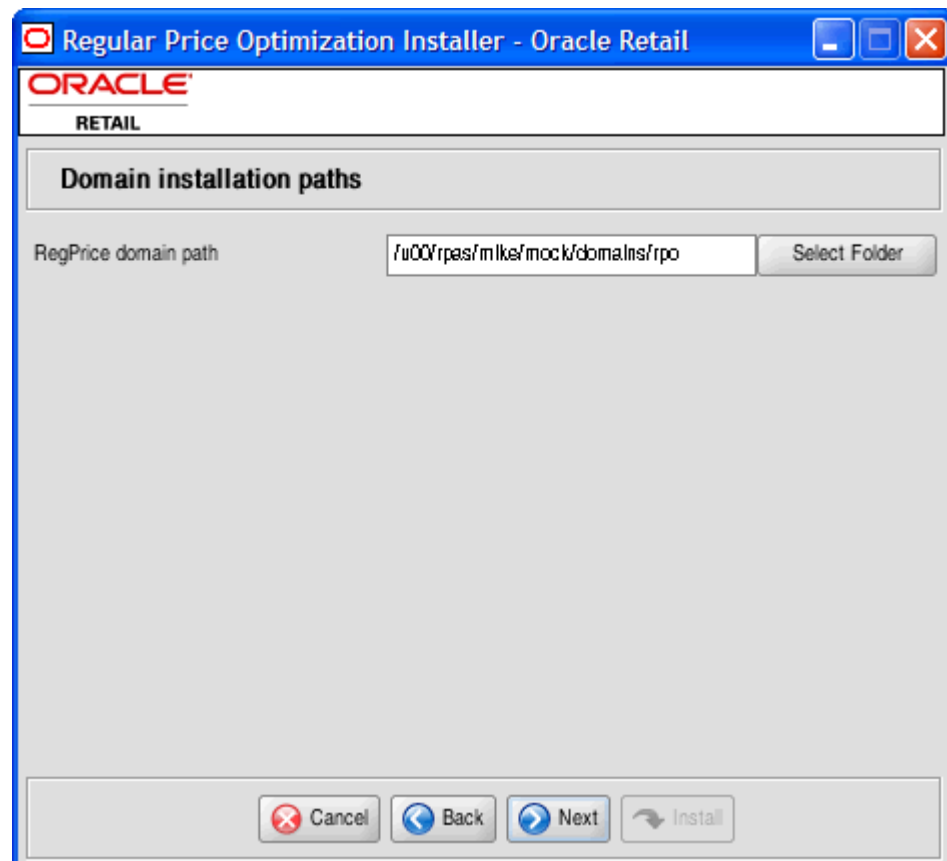
Dir to store configurations	/u00/rpas/mlke/mock/configurations/rpo	Select Folder
Dir to store created domains	/u00/rpas/mlke/mock/domains	Select Folder
Path to retaillogin.ksh script	/u00/rpas/mlke/mock/retaillogin.ksh	Select File

Cancel Back Next Install

Click **Next** to continue.

3. The Domain installation paths screen appears. Enter the path to the RPO domain to be created.

**Figure 2–3 Domain Installation Paths Screen**

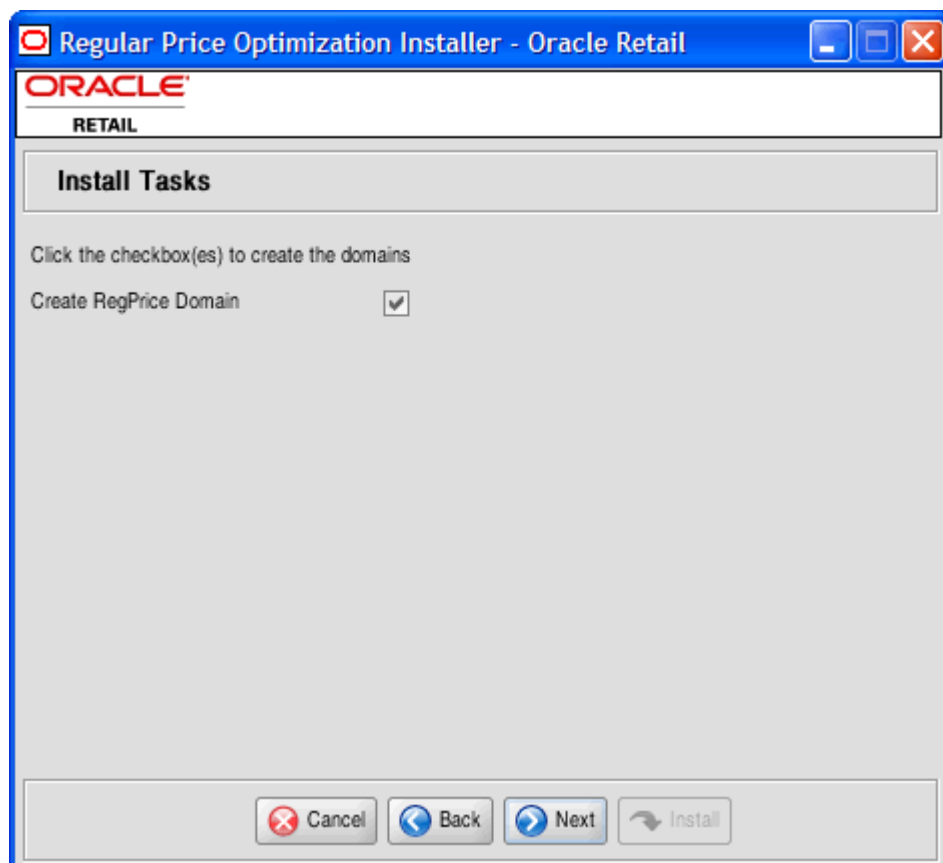


Click **Next** to continue.

4. The Install Tasks screen appears. If you want to create the RPO domain, ensure that the **Create RegPrice Domain** check box is selected.

If you want to install all required components to support the RPO domain, but do not want to create the actual RPO domain, deselect the **Create RegPrice Domain** check box.

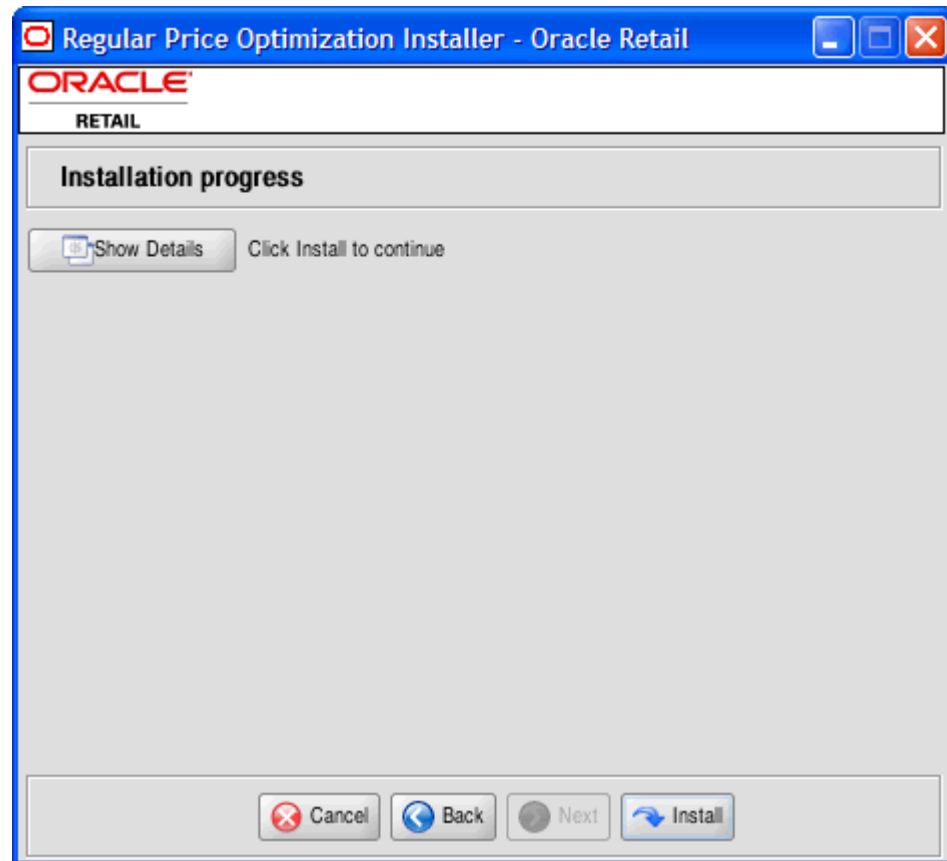
**Figure 2–4** *Install Tasks Screen*



Click **Next** to continue.

5. The Installation progress screen appears. Click **Install** to begin installing RPO.

**Figure 2–5** *Installation Progress Screen*

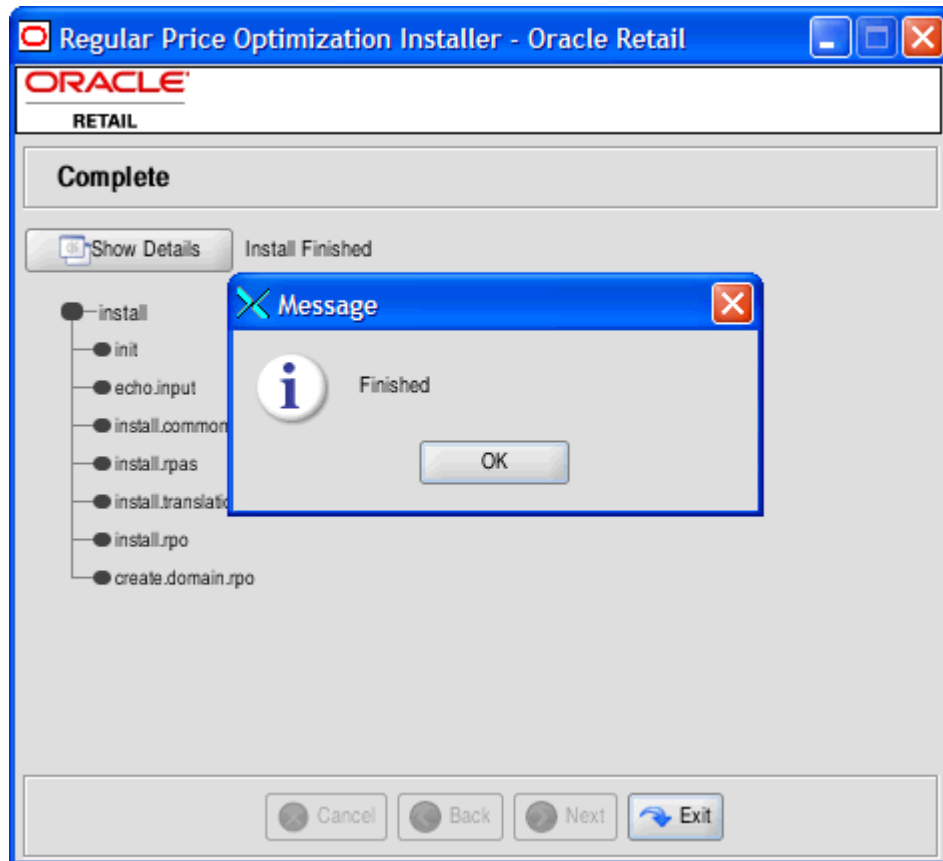


This screen displays installation progress. Select **Show Details** if you wish to view the log output as the installation is performed. If you choose not to view the details, a graphical representation of the installation steps appears. As each step is completed, the text color changes to indicate installation progress.

You can toggle to the Show Details mode at any time during or after the installation.

- When the installation process is finished, the Finished notification screen appears. Click **OK**.

**Figure 2–6 Complete Screen with Finished Message**



Now that the installation process is complete, you can:

- Click **Show Details** to view the logs if you viewed the installation via the graphical progress.
- Click **Exit** to close the installer application once you are finished reviewing the installation.

If you wish to view the log at a later date, a text copy was saved in the directory where you initiated the installation from [RPO Installation]/CDROM/rpo. The log file is named based on the product and a timestamp, followed by the .log extension.

Created as part of this process is a sample domain creation script, located in the [Dir to store configurations] entered previously. This file is named "make\_domain.rpo." This file contains all of the required parameters needed to support the domain installation process. If necessary, this file may be modified if the default parameters are not applicable for your particular environment.

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**Note:** The domain installation process also includes post-installation data loading scripts specific to this configuration. These scripts may also be modified.

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## Patch Installation

This chapter describes how to upgrade RPO from a previous release to 13.2.1.

### Upgrade Prerequisites

In order to upgrade RPO, first verify the following criteria for the RPAS system:

- Verify that RPAS is currently installed.
- Verify that the UNIX operating system is updated to the currently supported version, which can be found in the [Hardware and Software Requirements](#) section.
- Verify that the environment variables are correctly set for both the server and PC; if they are not, follow these instructions to set them:
  - Change directories to the original RPAS installation directory (such as the one created by the most recent installer), and execute `retaillogin.ksh` to set all environment variables. For example:

```
$ cd /retail
$ . ./retaillogin.ksh
```

---

#### Notes:

- Once you have run the script, verify that the environment variables all point to the correct locations on your environment.
  - If you have updated Java since the last installation of RPAS, verify that the `JAVA_HOME` path is correct. If not, update your `retaillogin.ksh` script and source it again as outlined above.
-

## Upgrade Process

The following process outlines how to upgrade RPO to the new version using the RPAS Configuration Tools.

### For the PC

1. Open RPAS Configuration Tools.
2. In RPAS Configuration Tools, load your previous configuration of RPO:
  - a. From the Configuration Tools File menu, select **Open**.
  - b. From the Open window, locate the configuration file and click **Open**.
3. If your configuration requires updating, dialog boxes will prompt you to upgrade. Follow the instructions given in the dialog boxes.
4. In the RPAS Configuration Tools File menu, click **Save** to save the configuration.
5. Zip the configuration in MKS KornShell and transfer the .zip file to the RPAS server.

### For the Server

1. Upgrade the RPAS server configuration by running the installer:
  - a. Begin the installer as described in the [Installation Instructions](#) section.
  - b. Complete steps 1-3.
  - c. At step 4, the [Install Tasks Screen](#), deselect the **Create RegPrice Domain** option.
  - d. Finish the remaining steps of the installer.
2. Unzip the updated configuration and note where it is saved.
3. Upgrade your RPO domain to a 13.2.1 domain. For upgrading instructions, see the "Upgrading and Patching Domains" section in the *RPAS Administration Guide for the Classic Client*.

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**Note:** Whether or not you are taking the latest configuration, a configuration patch must be run over the domain to ensure compatibility with the latest RPAS version.

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