Red Hat Process Automation Manager 7.0

Patching Red Hat Process Automation Manager 7.0

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Abstract

This document describes how to apply patch updates to Red Hat Process Automation Manager 7.0.

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PREFACE

As a Red Hat Process Automation Manager user, you can apply product updates to Red Hat Process Automation Manager as they become available in the Red Hat Customer Portal to keep your Red Hat Process Automation Manager distribution current with the latest enhancements and fixes. Red Hat provides patch tools and product notifications for new patch releases so you can more readily apply helpful updates to Red Hat Process Automation Manager and Process Server.

Prerequisites

- Red Hat Process Automation Manager 7.0 or 7.0.x is installed. For installation options, see *Planning a Red Hat Process Automation Manager installation* .

- You have a Red Hat Customer Portal account.

CHAPTER 1. RED HAT PROCESS AUTOMATION MANAGER VERSIONING

Red Hat Process Automation Manager versions are designated with a numerical **Major.Minor.Patch** format, such as **7.0.1**. In this example, the major release is **7.x.x**, the minor release is **7.0.x**, and the patch release is **7.0.1**. Major releases often require data migration, while minor release upgrades and patch updates are typically managed with upgrade and update tools provided with the Red Hat Process Automation Manager release artifacts.

The following are the general types of releases for Red Hat Process Automation Manager:

Major release migrations

Major releases of Red Hat Process Automation Manager include substantial enhancements, security updates, bug fixes, and possibly redesigned features and functions. Data migration may be required when an application is moved from one major release to another major release, such as from Red Hat JBoss BPM Suite 6.4 to Red Hat Process Automation Manager 7.0. Automated migration tools are often provided with new major versions of Red Hat Process Automation Manager to facilitate migration, but some manual effort is occasionally required for certain data and configurations. The supported migration paths are specified in product announcements and documentation.
For example migration instructions, see *Migrating from Red Hat JBoss BPM Suite 6.4 to Red Hat Process Automation Manager 7.0*.

Minor release upgrades

Minor releases of Red Hat Process Automation Manager include enhancements, security updates, and bug fixes. Data migration is not typically required when an application is upgraded to the next minor release, such as from Red Hat Process Automation Manager 7.0 to Red Hat Process Automation Manager 7.1. Automated upgrade tools are often provided with new minor versions of Red Hat Process Automation Manager to facilitate upgrading.
Minor release upgrades currently do not apply to Red Hat Process Automation Manager 7.0.

Patch updates

Patch updates of Red Hat Process Automation Manager typically include the latest security updates and bug fixes. Scheduled patch updates contain all previously released patch updates for that minor version of the product, so you do not need to apply each patch update incrementally in order to apply the latest update. For example, you can update Red Hat Process Automation Manager 7.0.0 or 7.0.1 to Red Hat Process Automation Manager 7.0.2. However, for optimal Red Hat Process Automation Manager performance, you should apply product updates as they become available. Occasionally, unscheduled patch updates may be released outside the normal update cycle of the existing product. These may include security or other updates provided by Red Hat Global Support Services (GSS) to fix specific issues, and may not be cumulative updates. Automated patch tools are often provided with patch releases of Red Hat Process Automation Manager to facilitate updating.

To keep your Red Hat Process Automation Manager distribution current with the latest enhancements and fixes, apply new product releases and updates to Red Hat Process Automation Manager as they become available in the Red Hat Customer Portal. Consider also enabling product notifications in the Red Hat Customer Portal.

For information about enabling product notifications, see Chapter 2, *Enabling Red Hat Process Automation Manager notifications in the Red Hat Customer Portal*.

CHAPTER 2. ENABLING RED HAT PROCESS AUTOMATION MANAGER NOTIFICATIONS IN THE RED HAT CUSTOMER PORTAL

You can enable notifications in the Red Hat Customer Portal to receive Red Hat Process Automation Manager updates and announcements. These notifications inform you of updated or added documentation, product releases, and patch updates related to Red Hat Process Automation Manager. With notifications enabled, you can more readily apply product updates to Red Hat Process Automation Manager as they become available in the Red Hat Customer Portal to keep your Red Hat Process Automation Manager distribution current with the latest enhancements and fixes.

Prerequisite

You have a Red Hat Customer Portal account and are logged in.

Procedure

1. In the top-right corner of the Red Hat Customer Portal window, click your profile name and click **Notifications**.

2. Select the **Notifications** tab and click **Manage Notifications**.

3. Next to **Follow**, select **Products** from the drop-down menu, and then select **Red Hat Process Automation Manager** from the next drop-down menu that appears.

4. Click **Save Notification** to finish.

You can add notifications for any other products as needed in the same way.

CHAPTER 3. APPLYING PATCH UPDATES TO RED HAT PROCESS AUTOMATION MANAGER

Patch updates of Red Hat Process Automation Manager typically include the latest security updates and bug fixes. Scheduled patch updates contain all previously released patch updates for that minor version of the product, so you do not need to apply each patch update incrementally in order to apply the latest update. For example, you can update Red Hat Process Automation Manager 7.0.0 or 7.0.1 to Red Hat Process Automation Manager 7.0.2. However, to keep your Red Hat Process Automation Manager distribution current with the latest fixes, apply patch updates to Red Hat Process Automation Manager as they become available in the Red Hat Customer Portal.

Automated patch tools are often provided with patch releases to facilitate updating certain components of Red Hat Process Automation Manager, such as Business Central, Process Server, and the headless Process Automation Manager controller. Other Red Hat Process Automation Manager artifacts, such as the process engine and standalone Business Central, are released as new artifacts with each patch update and you must re-install them to apply the update.

> **NOTE**
>
> Only updates for Red Hat Process Automation Manager are included in Red Hat Process Automation Manager patch updates. Patches to Red Hat JBoss EAP must be applied using Red Hat JBoss EAP patch distributions. For more information about Red Hat JBoss EAP patching, see the Red Hat JBoss EAP Patching and upgrading guide.

Prerequisite

Your Red Hat Process Automation Manager and Process Server instances are not running. Do not apply patch updates while you are running an instance of Red Hat Process Automation Manager or Process Server.

Procedure

1. Navigate to the Software Downloads page in the Red Hat Customer Portal (login required), and select the product and version from the drop-down options.
   Example:

   - **Product:** Process Automation Manager

   - **Version:** 7.0.1

2. Click **Patches**, download **Red Hat Process Automation Manager [VERSION] Patch Update** and extract the downloaded **rhpam-$VERSION-patch.zip** file to a temporary directory.
   This patch update tool automates the update of certain components of Red Hat Process Automation Manager, such as Business Central, Process Server, and the headless Process Automation Manager controller. Use this update tool first to apply updates and then install any other patch updates or new release artifacts that are relevant to your Red Hat Process Automation Manager distribution.

3. If you want to preserve any files from being updated by the patch update tool, navigate to the extracted **rhpam-$VERSION-patch** folder, open the **blacklisted.txt** file, and add the relative paths to the files that you do not want to be updated.
   When a file is listed in the **blacklist.txt** file, the patch update script does not replace the file with the new version but instead leaves the file in place and in the same location adds the new version with a **.new** suffix. If you blacklist files that are no longer being distributed, the patch

update tool creates an empty marker file with a **.removed** suffix. You can then choose to retain, merge, or delete these new files manually.

Example files to be excluded in **blacklisted.txt** file:

```
WEB-INF/web.xml  // Custom file
styles/base.css  // Obsolete custom file kept for record
```

The contents of the blacklisted file directories after the update:

```
$ ls WEB-INF
web.xml web.xml.new
```

```
$ ls styles
base.css base.css.removed
```

4. In your command terminal, navigate to the temporary directory where you extracted the **rhpam-$VERSION-patch.zip** file and run the **apply-updates** script in the following format:

> **IMPORTANT**
>
> Make sure that your Red Hat Process Automation Manager and Process Server instances are not running before you apply patch updates. Do not apply patch updates while you are running an instance of Red Hat Process Automation Manager or Process Server.

On Linux or Unix–based systems:

```
$ ./apply-updates.sh $DISTRO_PATH $DISTRO_TYPE
```

On Windows:

```
$ ./apply-updates.bat $DISTRO_PATH $DISTRO_TYPE
```

The **$DISTRO_PATH** portion is the path to the relevant distribution directory and the **$DISTRO_TYPE** portion is the type of distribution that you are updating with this patch.

The following distribution types are supported in Red Hat Process Automation Manager patch update tool:

- **business-central-eap7-deployable**: Updates Business Central (**business-central.war**)

- **kie-server-ee7**: Updates Process Server (**kie-server.war**)

- **controller-ee7**: Updates the headless Process Automation Manager controller (**controller.war**)

Example patch update to Business Central and Process Server for a full Red Hat Process Automation Manager distribution on Red Hat JBoss EAP:

```
./apply-updates.sh ~EAP_HOME/standalone/deployments/business-central.war business-central-eap7-deployable
```

```
./apply-updates.sh ~EAP_HOME/standalone/deployments/kie-server.war kie-server-ee7
```

Example patch update to headless Process Automation Manager controller, if used:

```
./apply-updates.sh ~EAP_HOME/standalone/deployments/controller.war controller-ee7
```

The patch update script creates a **backup** folder in the extracted **rhpam-$VERSION-patch** folder with a copy of the specified distribution, and then proceeds with the update.

5. After the update tool completes, return to the **Software Downloads** page of the Red Hat Customer Portal where you downloaded the patch update tool and install any other patch updates or new release artifacts that are relevant to your Red Hat Process Automation Manager distribution.
   For files that already exist in your Red Hat Process Automation Manager distribution, such as **.jar** files for the process engine or other add-ons, replace the existing version of the file with the new version from the Red Hat Customer Portal.

6. If you use the standalone **Red Hat Process Automation Manager 7.0.0 Maven Repository** artifact (**rhpam-7.0.0-maven-repository.zip**), such as in air-gap environments, download **Red Hat Process Automation Manager [VERSION] Incremental Maven Repository** and extract the downloaded **rhpam-$VERSION-incremental-maven-repository.zip** file to your existing ~/**maven-repository** directory to update the relevant contents.
   Example:

```
$ unzip -o rhpam-7.0.1-incremental-maven-repository.zip -d $REPO_PATH/rhpam-7.0.0-
maven-repository/maven-repository/
```

7. After you finish applying all relevant updates, start Red Hat Process Automation Manager and Process Server and log in to Business Central.

8. Verify that all project data is present and accurate in Business Central, and in the top-right corner of the Business Central window, click your profile name and click **About** to verify the updated product version number.
   If you encounter any patching errors or notice any missing data in Business Central, you can restore the contents in the **backup** folder within the **rhpam-$VERSION-patch** folder to revert the patch update tool changes. You can also re-install the relevant release artifacts from your previous version of Red Hat Process Automation Manager in the Red Hat Customer Portal. After restoring your previous distribution, you can try again to run the patch update.

CHAPTER 4. ADDITIONAL RESOURCES

- *Migrating from Red Hat JBoss BPM Suite 6.4 to Red Hat Process Automation Manager 7.0*

- *Release notes for Red Hat Process Automation Manager 7.0*

APPENDIX A. VERSIONING INFORMATION

Documentation last updated on: Monday, October 1, 2018.