



RSA

**RSA Identity Governance and Lifecycle
Appliance Updater Guide**

Revision 6

Contact Information

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Contents

Preface	4
About This Guide	4
Support and Service	4
Revision History	5
Appliance Updater Release Notes	6
RSA Identity Governance and Lifecycle Appliance Updates	7
Appliance Updater Supported Environments	7
Installing the Appliance Updater	8
Update Operating System and Database	10
Updater Options	10

Preface

About This Guide

This guide provides instructions for using the Appliance Updaters to update the RSA-installed operating system or local RSA-installed database on the following products:

- RSA Identity Governance and Lifecycle version 7.1.0, 7.1.1, 7.2.0, 7.2.1, 7.5.0, 7.5.2 Hardware Appliance, Virtual Application, or Software Bundle deployments.

Support and Service

You can access community and support information on RSA Link at <https://community.rsa.com/community/products/governance-and-lifecycle>. RSA Link contains a knowledgebase that answers common questions and provides solutions to known problems, product documentation, community discussions, and case management.

You can also access the RSA Identity Governance and Lifecycle community at <https://community.rsa.com/community/products/governance-and-lifecycle/client-partner-community>. This private community is only available to RSA Identity Governance and Lifecycle customers, partners, and internal RSA staff.

Revision History

Revision Number	Date	Revision
1	February 2019	Updated to indicate support for SLES 11 SP4 and SLES 12 SP3, and provide additional information about running the updater for SLES 11 SP3 and SLES 12 SP2.
2	August 2019	Updated to indicate the following: <ul style="list-style-type: none"> • The directory name and location in which the Appliance Updater is installed is no longer restricted to /opt/appliancePatches. • The Appliance Updater must be used only for RSA-supplied operating systems. • The location of the Appliance Updater logs has changed to the patches directory. • The Appliance Updater can no longer be run as a service.
3	May 2020	Added a release notes section to identify significant changes to the appliance updaters. Updated content to reflect support for SUSE Linux Enterprise Server 12 SP4.
4	February 2021	Updated the following: <ul style="list-style-type: none"> • In the section, "Update the Appliance," added step 3d to change owner/group of the folder. • In the section "Update the Appliance Operating System and Database, added a step to restart the ACM service.
5	March 2021	Updated to indicate support for SLES12 SP5.
6	December 2021	Updated to indicate support for Oracle 19

Appliance Updater Release Notes

This section describes significant updates and known issues for the RSA Identity Governance and Lifecycle Appliance Updater.

Release	Updates
May 2020	Version Support The operating system appliance updater upgrades SLES 12 to SP4.
	SF-1582218 ACM-96077 The SuSE 11 and 12 operating systems have a known vulnerability with the zsh package, with no fix provided by the operating system vendor. This package is not required by RSA Identity Governance and Lifecycle. The operating system appliance updater now provides the ability to remove this package. After applying the operating system update, users are reminded of the zsh vulnerability and given the option to uninstall it.
	SF-1546393 ACM-103620 The Oracle 12 appliance updater automatically upgrades the Java JDK from the original JDK 1.6.0_75 to 7.1.0_261. This upgrade addresses several vulnerabilities identified in JDK 1.6.0_75.

RSA Identity Governance and Lifecycle Appliance Updates

Patching the operating system and database components of RSA Identity Governance and Lifecycle is integral to the security of the RSA Identity Governance and Lifecycle environment. To help ensure that appliance and soft appliance installations maintain the most up-to-date patches for these components, RSA provides the Appliance Updater, which bundles a certified patch set for the latest supported service pack for a given operating system and the local RSA-installed Oracle database. Downloading and running the latest appliance updater closes vulnerabilities and bugs addressed by the patches.

Note: If you are running an older supported service pack of the supported operating system, the Appliance Updater prompts you to upgrade to the current service pack before proceeding.

On a regular basis, RSA bundles patches for the database or operating system components of the appliance into a compressed file (rsaimg_updater_<release_date>_<OS_or_Oracle_version>.tar.bz2) and posts it to RSA Link at <https://community.rsa.com/community/products/governance-and-lifecycle>. The appliance updater is cumulative. It includes all previous patches. The Appliance Updater does not patch RSA Identity Governance and Lifecycle itself.

Note: Download and apply the appliance updater patches after completing the configuration or installation of your appliance and regularly as RSA releases new patch updates. The appliance updater upgrades the operating system to the highest operating system service pack as well as applying any security updates to that operating system service pack version. For the specific supported operating system service packs, see [Appliance Updater Supported Environments on page 7](#).

Note: Do not run the OS updater if you are not using an RSA hardware appliance or using an RSA-distributed OS for the RSA Identity Governance and Lifecycle software bundle.

Appliance Updater Supported Environments

The following tables lists the components and environments that are patched by the Appliance Updater:

Component		Updater applies patches to these environments		
		RSA Appliance	Software Bundle	Virtual Application
Operating System	SUSE Linux Enterprise Server 11 SP4	Yes	No	Yes
	SUSE Linux Enterprise Server 11 SP3	Yes	No	Yes
	Note: When running the appliance updater for SLES 11 SP3, the updater upgrades the operating system to SLES 11 SP4 and then applies the updates.			
	SUSE Linux Enterprise Server 12 SP5	Yes	No	Yes
	SUSE Linux Enterprise Server 12	Yes	No	Yes

	SP4			
	SUSE Linux Enterprise Server 12 SP3	Yes	No	Yes
	SUSE Linux Enterprise Server 12 SP2	Yes	No	Yes
	Note: When running the appliance updater for SLES 12 SP2 or SP3 or SP4, the updater upgrades the operating system to SLES 12 SP5 and then applies the updates.			
Database RSA Identity Governance and Lifecycle	Oracle 12.1.0.2 Enterprise Edition Database	Yes	Yes (local database only)	Yes
Database RSA Identity Governance and Lifecycle	Oracle 19.0.0.0 Enterprise Edition Database	Yes	Yes (local database only)	Yes

Installing the Appliance Updater

Procedure

1. Download the latest update package for your operating system from RSA Link at <https://community.rsa.com/community/products/governance-and-lifecycle>.

For this environment:	Download this updater package:
RSA Identity Governance and Lifecycle 7.0.x or 7.1.x on SuSE 11 SP3 or SP4	<p>Operating system updater: rsaimg_updater_<release_date>_SLES11_SP4.tar.bz2</p> <p>Oracle updater: rsaimg_updater_<release_date>_Oracle_12C.tar.bz2</p> <p>where <i>release_date</i> = current year and current quarter or month.</p> <p>Example: rsaimg_updater_2019_January_SLES11_SP4.tar.bz2</p>
RSA Identity Governance and Lifecycle 7.1.x or 7.2.x or 7.5.x on SuSE 12 SP2 or SP4 or SP5	<p>Operating system updater: rsaimg_updater_<release_date>_SLES12_SP4.tar.bz2</p> <p>Oracle updater: rsaimg_updater_<release_date>_Oracle_12C.tar.bz2</p> <p>where <i>release_date</i> = current year and</p>

	<p>current quarter or month.</p> <p>Example:</p> <p>Example: <code>rsaimg_updater_2021_March_SLES12_SP5.tar.bz2</code></p>
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2. Schedule downtime for the RSA Identity Governance and Lifecycle.
3. Install the latest Appliance Updater:
 - a. Log in as root.
 - b. Download the compressed Appliance Updater file for the appropriate operating system or Oracle version to the host. Make sure you download the file to a directory that has sufficient space and that you have Read/Write privileges in the directory.
 - c. If this is the first time that you have installed the Appliance Updater, complete the following tasks; otherwise go to Step d:
 - i. Create a directory for the extracted files with a name and location that best suits your environment. For example:

```
mkdir -p /opt/appliancePatches
```

- ii. Change the permissions on the directory. For example:

```
chmod 760 /opt/appliancePatches
```

- iii. Change the owner/group of the folder using the following command:

```
chown oracle:oinstall /opt/appliancePatches
```

- d. Extract the files to the directory created in step 3c, or a previously created appliance updater directory. For example:

```
tar jxf rsaimg_updater_<release_date>_<OS_or_Oracle_version>.tar.bz2 -C /opt/appliancePatches/
```

Note: Remove the previously created appliance and untar the new appliance updater files.

- e. Change permissions on the updater script using the following command.

```
chmod 700 /opt/appliancePatches/rsaimg_updater*
```

4. Make sure you have adequate disk space available:
 - 40 GB available on the /u01 file system.
 - 20 GB available for the /home/oracle directory.
5. Run the Appliance Updater to update the operating system or the database.

Note: RSA Identity Governance and Lifecycle is unavailable while the Appliance Updater is applying patches. When a patch is applied to the database, the Appliance Updater stops and restarts the RSA Identity Governance and Lifecycle service. When a patch is applied to the operating system, the Appliance Updater reboots the appliance to ensure that the latest components are being used.

Update Operating System and Database

Run the Appliance Updater after you have downloaded updated patches. If you are running an older supported service pack version of the operating system, the updater prompts you to upgrade the service pack before proceeding.

Procedure

1. Log in as root.
 1. Change the directory to the directory you created for the appliance updater, and run the Appliance Updater.

```
cd /<directory>/<for>/<appliance_updater>
./rsaimg_updater_<OS_or_database> <option>
```

Database example:

```
cd /opt/appliancePatches
./rsaimg_updater_Oracle_19c start
```

Operating system example:

```
cd /opt/appliancePatches
./rsaimg_updater_SLES12_SP5 start
```

2. Restart the ACM service using the following command:

```
acm restart
```

Refer to [Updater Options on page 10](#) for a list of possible values for *<option>*.

Note: Appliance Updater log files are located in the same directory as the appliance updater.

Updater Options

The Appliance Updater (rsaimg_updater) includes the following options that allow you to update the RSA Identity Governance and Lifecycle appliance operating system and database, check if an update is running, and stop the update.

Option	Description
start	<p>Starts the update:</p> <ul style="list-style-type: none"> • For an RSA Identity Governance and Lifecycle appliance with Oracle installed, patches are installed for the operating system and the database. • For an RSA Identity Governance and Lifecycle appliance using a remote database, patches are installed for the operating system. • For a software bundle with Oracle installed, patches are installed for the database. • For a software bundle using a remote database, no patches are installed. • For a Virtual Application, patches are installed for the operating system.

Option	Description
stop	Stops a running update.
status	Indicates if an update is running.