

One Identity Safeguard for Sudo 7.1.1

Release Notes

13 April 2021, 02:26

These release notes provide information about the One Identity Safeguard for Sudo release.

About this release

Safeguard for Sudo helps Unix/Linux organizations take privileged account management through Sudo to the next level: with a central policy server, centralized management of Sudo and sudoers, centralized reporting on sudoers and elevated rights activities, and event and keystone logging of activities performed through Sudo. With Safeguard for Sudo, One Identity provides a plug-in to Sudo 1.8.1 (and later) to make administering Sudo across a few, dozens, hundreds, or thousands of Unix/Linux servers easy, intuitive, and consistent. It eliminates the box-to-box management of Sudo that is the source of so much inefficiency and inconsistency. In addition, the centralized approach delivers the ability to report on the change history of the sudoers policy file.

Safeguard for Sudo 7.1.1 is a patch release that includes [Resolved issues](#).

NOTE: Beginning with version 7.0, Safeguard for Sudo supports only Linux-based systems for Safeguard policy servers.

New features

New features in Safeguard for Sudo 7.1.1:

- Safeguard for Sudo is shipped with OpenSSL shared objects since version 7.0. Due to recent high severity fixes in the OpenSSL library, the shipped shared objects have been upgraded to version 1.1.1k, which include the corresponding fixes.

See also:

- [Resolved issues](#)

Resolved issues

The following is a list of issues addressed in this release.

Table 1: General resolved issues

Resolved Issue	Issue ID
Fixed packages for the HP-UX PA-RISC platform. The dynamic linking of OpenSSL libraries has been fixed on the HP-UX PA-RISC platform. All binaries are now functioning properly.	264411
Fixed the crash of the "pmpasswd" binary on the Linux/AArch64 platform.	265065
Fixed issue when Safeguard for sudo plugin is not able to join to policy group after upgrade on Solaris 10 SPARC.	267710
Fixed issue when Linux-ppc64 machines were unable to join to policy group. Running pmpoljoin_plugin or pmresolvehosts binaries crashed with segmentation fault on linux-ppc64 platform. This caused ppc64 machines not be able to join to a policy group.	268862

Supported platforms

The following table provides a list of supported platforms for Safeguard clients.

NOTE: Beginning with version 7.1.1, Safeguard for Sudo supports only Linux-based systems for Safeguard policy servers.

Table 2: Linux supported platforms – server and plugin

Platform	Version	Architecture
Amazon Linux AMI		x86_64
CentOS Linux	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
Debian	Current supported releases	x86_64, x86, AARCH64
Fedora Linux	Current supported releases	x86_64, x86, AARCH64
OpenSUSE	Current supported releases	x86_64, x86, AARCH64
Oracle Enterprise Linux (OEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
Red Hat Enterprise Linux (RHEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	11, 12, 15	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
Ubuntu	Current supported releases	x86_64, x86, AARCH64

Table 3: Unix and Mac supported platforms – plugin

Platform	Version	Architecture
Apple macOS	10.12, 10.13, 10.14, 10.15	x86_64
FreeBSD	11.x, 12.x	x86_64
HP-UX	11.31	PA, IA-64
IBM AIX	7.1 Technology Level 3 and higher, 7.2	Power 4+
Solaris	10.x, 11.x	SPARC, x64

System requirements

Before installing Safeguard 7.1.1, ensure that your system meets the following minimum hardware and software requirements.

NOTE: Beginning with version 7.1.1, Safeguard for Sudo supports only Linux-based systems for Safeguard policy servers.

Table 4: Hardware and software requirements

Component	Requirements
Operating systems	See Supported platforms to review a list of platforms that support Safeguard clients.
Disk space	<p>80 MB of disk space for program binaries and manuals for each architecture.</p> <p>Considerations:</p> <ul style="list-style-type: none">• At a minimum, you must have 80 MB of free disk space. The directories in which the binaries are installed must have sufficient disk space available on a local disk drive rather than a network drive. Before you install Safeguard, ensure that the partitions that will contain /opt/quest have sufficient space available.• Sufficient space for the keystroke logs, application logs, and event logs. The size of this space depends on the number of servers, the number of commands, and the number of policies configured.• The space can be on a network disk drive rather than a local drive.• The server hosting Safeguard must be a separate machine dedicated to running the <code>pmmasterd</code> daemon.
SSH software	<p>You must install and configure SSH client and server software on all policy server hosts.</p> <p>You must also install SSH client software on all hosts that will use the Sudo Plugin.</p> <p>You must enable access to SSH as the root user on the policy server hosts during configuration of the policy servers. Both OpenSSH 4.3 (and later) and Tectia SSH 6.4 (and later) are supported.</p>
Processor	Policy Servers: 4 cores
Policy Servers:	4GB

Table 5: Primary policy server and host system installation requirements

Systems Required	Minimum Requirements
Primary Policy Server	<ul style="list-style-type: none">• Supported Unix or Linux operating system• SSH (ssh-keyscan binary)
<ul style="list-style-type: none">• Supported Unix, Linux, or macOS platform• SSH (ssh-keyscan binary)• Sudo 1.8.1 (or later)	

Upgrade and compatibility

Safeguard for Sudo supports a direct upgrade installation from versions 2.0 and higher. The Safeguard software in this release is provided using platform-specific installation packages. For more information on upgrading, see the *One Identity Safeguard for Sudo Administration Guide*.

One Identity recommends that:

- You upgrade your policy server (Master) systems before Sudo plugins, and that a policy server is run at the same or higher level than Sudo plugins.
- All policy server systems and Sudo plugins are upgraded to the latest version to take advantage of all new features.

The upgrade process will create symbolic links to ensure that your existing paths function correctly.

Product licensing

Although licenses are allocated on a per-agent basis, you install licenses on Safeguard policy servers.

No special commands are required to register or license the clients with policy servers. Hosts using the Safeguard agents are automatically granted a license once a request is received on the Safeguard policy server by means of the sudo client program.

To install a license file

1. Copy the .dlv license file to the policy server.
2. To install the license, run:

```
# /opt/quest/sbin/pmlicense -l <license_file>
```

This command displays your currently installed license and the details of the new license to be installed.

3. When it asks, "Would you like to install the new license (Y/N) [Y]?", press **Enter**, or type: **Y**
4. If there are other policy servers configured in your policy server group, it forwards the license configuration to the other servers.

See the *One Identity Safeguard for Sudo Administration Guide* for more information about the syntax and usage of the `pmlicense` command.

Upgrade and installation instructions

One Identity recommends that you follow these steps:

NOTE: Due to a change in the communication protocol, using 7.1 clients and servers with 7.0 clients and servers is not supported. One Identity recommends you upgrade all of your 7.0 installations to 7.1. Installations of release 6.x are not affected and can still be used with 7.1.

1. Install Authentication Services on one machine, so you can set up your Active Directory forest.
2. Install One Identity Management Console for Unix, so you can perform all the other installation steps from the management console.
3. Add and profile hosts using the management console.
4. Configure the console to use Active Directory.
5. Deploy client software to remote hosts.
6. Deploy the Safeguard for Sudo software.

Refer to the **Getting Started** tab in the management console for a better understanding of the steps to take to be up and running quickly.

Upgrade instructions

For information on upgrading Safeguard for Sudo, see *Upgrade Safeguard for Sudo* in *Safeguard for Sudo Administration Guide*.

Upgrading your license

Depending on whether you are upgrading Safeguard for Sudo from a version earlier than 7.0 or from version 7.x, handling your license is different.

- **Upgrading from a version 7.x:** If you have purchased Safeguard for Sudo version 7.x without owning an earlier version, you will receive a new license. In this case, you do not have to perform any extra steps and can proceed with the upgrade process.
- **Upgrading from a version earlier than 7.0:** The product licensing changed with Safeguard for Sudo version 7.0. If you are upgrading Safeguard for Sudo from a version earlier than 7.0 to version 7.x, you must upgrade your license first.

In this case, make sure that you have received your upgraded license before starting the upgrade process.

When client machines attempt to join to the policy server using the `pmjoin` or `pmjoin_plugin` command, if you do not have the proper license, the following error message is displayed:

```
*** Checking connection to policy server host <policy-server> [FAIL]
    - ERROR: policy server <policy-server> has no valid license (for QPM)
    - ERROR: Unable to connect to any policy servers
```

To display a summary of the combined licenses configured on this host, enter the following command without any options

```
pmlicense
```

To install a license, enter the following command. For more information on license installation, see *Installing licenses* in *Safeguard for Sudo Administration Guide*.

```
pmlicense -l <path-to-dlv-file>
```

- If the license file is valid, the installer displays the following:

```
The selected license file (<path-to-dlv-file>) contains a valid license
```

- If the license file is not valid, the installer displays the following error:

```
Error: This license file is not valid. Please contact Quest Licensing for a new license file.
```

You will receive the following message after the license is installed, depending the success of the installation:

- If the license is successfully installed:

```
** Successfully installed new license
```

- If the license install is failed:

```
** Error: Cannot configure new license from file <path-to-dlv-file>
```

More resources

Additional information is available from the following:

- Online product documentation: <https://support.oneidentity.com/safeguard-for-sudo/technical-documents>
- One Identity Privileged Account Management forum: <https://www.quest.com/community/one-identity/unix-access-management/>

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release supports any single-byte character set. Double-byte or multi-byte character sets are not supported. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America.

About us

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

Contacting us

For sales and other inquiries, such as licensing, support, and renewals, visit <https://www.oneidentity.com/company/contact-us.aspx>.

Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at

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- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at www.YouTube.com/OneIdentity
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

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 **WARNING:** A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

Third-party contributions

This product contains some third-party components (listed below). Copies of their licenses may be found at referencing <https://www.oneidentity.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <http://opensource.quest.com>.

Table 6: List of Third-Party Contributions

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Subversion 1.6.15	<p>This product includes software developed by the Apache Software Foundation (http://www.apache.org) Version 2.0, January 2004</p> <p>This component is governed by the Apache License</p>
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Version 2.0, January 2004

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