

Safeguard for Sudo 7.3

Release Notes

24 May 2024, 10:29

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 7.3 is a patch release that includes [Resolved issues](#).

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

End of support notice

After careful consideration, One Identity has decided to cease the development of the Management Console for Unix (MCU). Therefore, the MCU will enter limited support for all versions on April 1, 2021. Support for all versions will reach end of life on Nov 1, 2021.

As One Identity retires the MCU, we are building its feature set into modern platforms starting with Software Distribution and Profiling. Customers that use the MCU to deploy Authentication Services and Safeguard for Sudo can now use our Ansible collections for those products, which can be found at [Ansible Galaxy](#).

New features

New features in Safeguard for Sudo 7.3:

- Safeguard for Sudo now supports MacOS version 14.
- Services can now write the syslog messages as CEF (Common Event Format), useful for messages about Accept and Reject events.
 | **NOTE:** Logging in CEF is disabled by default. To enable it, set the configuration option `logFormat` to `cef`.
- Introduced the `pmcheckperms` utility, used to check the ownership and permissions of Privilege Manager files on the system. For more information, see *pmcheckperms* in the *Safeguard for Sudo Administration Guide*.

See also:

- [Resolved issues](#)

Resolved issues

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

Table 1: Resolved issues

Resolved Issue	Issue ID
<p>Fixed an issue where sudo could crash when the Safeguard for Sudo plugin was installed and the <code>pmserviced</code> daemon was not running.</p> <p>The <code>pmserviced</code> daemon is responsible for starting the <code>pmmasterd</code> service, which supports offline policy evaluation when the policy server is not reachable. If the <code>pmmasterd</code> service is unavailable, the Safeguard for Sudo plugin will attempt to contact the policy server directly. A bug in the code that implements this fallback mechanism could have resulted in a crash if the <code>pmserviced</code> daemon was not running, and has been fixed.</p>	438545
<p>Fixed an issue where the <code>pmlogsrvd</code> service on a policy server would attempt to process a duplicate event indefinitely.</p>	439903

Resolved Issue	Issue ID
Duplicate events are now discarded instead of being retried. If two different events have the same UUID, the second event is assigned a new UUID.	
On newer Linux distributions, such as RHEL 9.2, the qpm packages required installing the libxcrypt-compat package to work. This dependency is not required anymore.	443055
Fixed an issue where pmlogxfer reported the following error message in the syslog when transferring the logs collected in offline mode: 1101 Assignment to constant	444510
On macOS ARM64, packages do not require Rosetta 2 to be installed anymore.	453156

Supported platforms

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

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

CAUTION: As of Safeguard for Sudo version 7.3, the following platforms and architectures are no longer supported:

- CentOS Linux 6
- Apple MacOS 11.3
- Oracle Enterprise Linux (OEL) 6
- Red Hat Enterprise Linux (RHEL) 6

Table 2: Linux supported platforms – server and plugin

Platform	Version	Architecture
Alma Linux	8, 9	x86_64, AARCH64, PPC64le, s390x
Amazon Linux	AMI, 2, AL2022	x86_64
CentOS Linux	7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
CentOS Stream	8, 9	x86_64, AARCH64, PPC64le, s390x
Debian	Current supported	x86_64, x86, AARCH64

Platform	Version	Architecture
	releases	
Fedora Linux	Current supported releases	x86_64, x86, AARCH64
OpenSuSE	Current supported releases	x86_64, x86, AARCH64
Oracle Enterprise Linux (OEL)	7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Red Hat Enterprise Linux (RHEL)	7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Rocky Linux	8, 9	x86_64, AARCH64, PPC64le, s390x
SuSE Linux Enterprise Server (SLES)/Workstation	12, 15	Current Linux architectures: s390x, PPC64, PPC64le, 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	12.0 and above	x86_64, ARM64
FreeBSD	12.x, 13.x, 14.x	x32, x64
HP-UX	11.31	IA-64
IBM AIX	6.1 TL9, 7.1 TL3, TL4, TL5, 7.2, 7.3	Power 4+
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64

System requirements

Before installing Safeguard for Sudo 7.3, ensure that your system meets the following minimum hardware and software requirements.

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

Table 4: Hardware and software requirements

Component	Requirements
Operating systems	To review a list of platforms that support Safeguard for Sudo clients, see Supported platforms .
Disk space	80 MB of disk space for program binaries and manuals for each architecture. Considerations: <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 for Sudo, 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 for Sudo must be a separate machine dedicated to running the pmmasterd daemon.
SSH software	You must install and configure SSH client and server software on all policy server hosts. You must also install SSH client software on all hosts that will use the Sudo Plugin. 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.
Processor	Policy Servers: 4 cores
RAM	Policy Servers: 8 GB

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)
Host System	<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 for Sudo 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 for Sudo policy servers.

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

To install a license file

1. Copy the .d1v 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 the prompt "would you like to install the new license (Y/N) [Y]?" appears, 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

NOTE: Due to a change in the communication protocol, using 7.1 or later 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 or later versions. Installations of release 6.x are not affected and can still be used with 7.1.

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 appears:

```
*** Checking connection to policy server host <policy-server> [FAIL]
- ERROR: policy server <policy-server> has no valid license (for QPM4U)
- 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 IdentityPrivileged 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.

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- Sign up for product notifications
- Download software and technical documentation
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- Engage in community discussions
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- 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

Component	License or Acknowledgement
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APR Utilities 2.0	This product includes software developed by the Apache Software Foundation (http://www.apache.org) Version 2.0, January 2004 This component is governed by the Apache License
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Less 418	Copyright 1984-2007 Mark Nudelman
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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>
tcsh 6.22.02	<p>Copyright 2007 Clarius Consulting, Manas Technology Solutions, InSTEDD</p> <p>All rights reserved.</p> <p>This component is goverend by the BSD 3-Clause license</p>
Zlib 1.2.5	<p>Copyright (c) 1995-2022 Jean-loup Gailly and Mark Adler</p> <p>This component is governed by Zlib 1.2.5</p>

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