

Privilege Manager for Unix 7.2

Release Notes

20 December 2021, 11:45

These release notes provide information about the Privilege Manager for Unix release.

About this release

Privilege Manager for Unix protects the full power of root from potential misuse or abuse. With Privilege Manager for Unix there is no need to worry about anyone deleting critical files, modifying file permissions or databases, reformatting disks, or doing more subtle damage. Privilege Manager for Unix enables you to define a security policy that stipulates who has access to which root functions, as well as when and where they can perform those functions. It controls access to existing programs as well as purpose-built utilities that run common system administration tasks. At the administrator's request, Privilege Manager for Unix can protect sensitive data from network monitoring by encrypting the root commands or sessions it controls, including control messages and input keyed by users while running commands through Privilege Manager for Unix.

Privilege Manager for Unix 7.2 is a patch release that includes [Resolved issues](#).

NOTE: Beginning with version 7.0, Privilege Manager for Unix supports only Linux-based systems for Privilege Manager for Unix 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 Privilege Manager for Unix 7.2 :

- One Identity provides newer format rpm packages, which can be installed on RHEL 8 that is switched to FIPS compliant mode as well.
- You can manage policies using the Git workflow. The `pmgit` utility is a tool that can mediate version control operations between Subversion (SVN) and Git version control systems. For more information, see *Managing policies in Git* in the Administration Guide.
- You can stream event logs and keystroke (IO) logs from a client to a sudo log audit server (or compatible server) that implements the sudo logsrv protocol. This feature is disabled by default. Enable the recording service through configuring the policy server with `pmsrvconfig` or by editing `pm.settings`. For more information, see *Audit server logging* in the Administration Guide.
- All packages shipped by One Identity are now signed. You can verify that the packages you download has been created by One Identity and not by a malicious intermediate. For more information, see *Verifying package signature* in the 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
The <code>pmlogsearch</code> command started on a primary policy server was not able to return results about iologs which has been stored on secondary policy servers. Fixed <code>pmlogsearch</code> to search inside iologs stored on secondary policy servers. For the fix to work, both the primary and the secondary policy server needs to be upgraded. The problem only affects the search functionality, there is no data loss, previously stored data will be searchable after applying upgrade.	277299
A corrupt temporary event log file could cause <code>pmlogsrvd</code> log storing to stuck, continuously reporting syslog error messages. Now if a temporary event log file gets corrupted anyhow, it will be moved to the <code>evcache "refused"</code> subdirectory and only one error message per file appears in the syslog.	278176

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

Table 2: General known issues

Known Issue	Issue ID
No audit trail when offline log is sent to policy server.	291148
When the <code>pmbash</code> tool tries to run a command, the command cannot run on the Apple MacOS M1 ARM64 architecture, because the bash and the product cannot link the libraries together. The reason is that the Apple package is compiled with the ARM64 ABI set, but Apple uses the ARM64e ABI set. The dynamic library linker cannot link the ARM64e set with the ARM64 set. This issue is going to be fixed in the next release.	292522

Supported platforms

The following table provides a list of supported platforms for Privilege Manager for Unix clients.

Table 3: Linux supported platforms — server and client

Platform	Version	Architecture
Amazon Linux	AMI, 2	x86_64
CentOS Linux	6, 7, 8	Current Linux architectures: s390x, PPC64, PPC64le, 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	6, 7, 8	Current Linux architectures: s390x,

Platform	Version	Architecture
(OEL)		PPC64, PPC64le, x86, x86_64, AARCH64
Red Hat Enterprise Linux (RHEL)	6, 7, 8	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	11 SP4, 12, 15	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Ubuntu	Current supported releases	x86_64, x86, AARCH64

Table 4: Unix and Mac supported platforms — client

Platform	Version	Architecture
Apple MacOS	10.15 or later	x86_64, ARM64
FreeBSD	12.x, 13.x	x32, x64
HP-UX	11.31	PA, IA-64
IBM AIX	6.1 TL9, 7.1 TL3, 7.2	Power 4+
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64

System requirements

Before installing Privilege Manager for Unix 7.2, ensure that your system meets the following minimum hardware and software requirements.

NOTE: Beginning with version 7.2, Privilege Manager for Unix supports only Linux-based systems for Privilege Manager for Unix policy servers.

Table 5: Hardware and software requirements

Component	Requirements
Operating systems	See Supported platforms to review a list of platforms that support Privilege Manager for Unix clients.
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.

Component	Requirements
	<p>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 Privilege Manager for Unix, ensure that the partitions that will contain <code>/opt/quest</code> have sufficient space available.</p> <ul style="list-style-type: none"> • 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 Privilege Manager for Unix 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 enable access to SSH as the <code>root</code> 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
RAM	Policy Servers: 8GB

Upgrade and compatibility

Privilege Manager for Unix supports a direct upgrade installation from version 6.0 and higher. The Privilege Manager for Unix software in this release is provided using platform-specific installation packages. For more information on upgrading, see the *One Identity Privilege Manager for Unix Administration Guide*.

One Identity recommends that:

- You upgrade your policy server (Master) systems before agents, and that a policy server is run at the same or higher level than agents.
- All policy server systems and agents 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.

Use of the Privilege Manager for Unix clients (`pmrun` and `pmshe11s`) with a policy server in Sudo policy mode is not supported.

Product licensing

Although licenses are allocated on a per-agent basis, you install licenses on Privilege Manager for Unix policy servers.

No special commands are required to register or license the clients with policy servers. Hosts using the Privilege Manager for Unix agents are automatically granted a license once a request is received on the Privilege Manager for Unix policy server by means of the `pmrun` command.

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 *Privilege Manager for Unix 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 Privilege Manager for Unix, see *Upgrade Privilege Manager for Unix* in *Privilege Manager for Unix Administration Guide*.

Upgrading your license

Depending on whether you are upgrading Privilege Manager for Unix 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 Privilege Manager for Unix 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 Privilege Manager for Unix version 7.0. If you are upgrading Privilege Manager for Unix 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 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 Privilege Manager for Unix 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/privilege-manager-for-unix/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 is Unicode-enabled and supports any character set. 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.

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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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expat 2.0.1	Copyright (c) 1998, 1999, 2000, Thai Open Source Center Ltd and Clark Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers This component is governed by MIT expat 2.0.1
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>
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