

# Privilege Manager for Unix 7.3

## Release Notes

**24 May 2024, 10:28**

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 7.3 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 7.3:

- Privilege Manager for Unix 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 *Privilege Manager for Unix Administration Guide*.

See also:

- [Resolved issues](#)

# Enhancements

The following is a list of enhancements implemented in Privilege Manager for Unix 7.3.

**Table 1: General enhancements**

Enhancement	Issue ID
<b>Summary</b>	443105
During a <code>pmrun</code> session, the login user is now consistently set based on the <code>runutmpuser</code> user variable (or from the <code>runuser</code> variable as a fallback measure), regardless of the platform.	
<b>Details</b>	
In previous versions, during a <code>pmrun</code> session, the login user (returned by the <code>logname</code> command or the <code>getlogin</code> function) was:	
<ul style="list-style-type: none"><li>• Set as the <code>runuser</code> user variable on macOS and freeBSD.</li><li>• Set as the <code>runutmpuser</code> on Solaris.</li><li>• Remaining empty on AIX and Linux.</li></ul>	
Starting from this version, <code>pmrun</code> works consistently, so the login user is always set based on the <code>runutmpuser</code> variable, defaulting to the <code>runuser</code> variable if <code>runutmpuser</code> is empty.	
<b>TIP:</b> Because of this new behavior, if you want your site to have a more sudo-like behavior where the login user and the <code>utmp</code> entry contain the	

request, add an extra line like the following example to your policy:

```
runutmpuser = requestuser;
```

## Deprecated features

The following features are no longer supported beginning with this release:

- As of Privilege Manager for Unix version 7.3, the following platforms and architectures are no longer supported:
  - CentOS Linux 6
  - Apple MacOS 11.x and earlier
  - Oracle Enterprise Linux (OEL) 6
  - Red Hat Enterprise Linux (RHEL) 6
  - SuSE Linux Enterprise Server (SLES) / Workstation 11SP4

## Resolved issues

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

**Table 2: Resolved Issues**

Resolved Issue	Issue ID
Fixed an issue where the pmlogsrvd service on a policy server would attempt to process a duplicate event indefinitely. 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.	439903
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
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 Privilege Manager for Unix clients.

**⚠ CAUTION:** As of Privilege Manager for Unix 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 3: Linux supported platforms – server and client**

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 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)	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 4: Unix and Mac supported platforms – client**

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 Privilege Manager for Unix 7.3, ensure that your system meets the following minimum hardware and software requirements.

**NOTE:** Beginning with version 7.3, 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	To review a list of platforms that support Privilege Manager for Unix clients, see <a href="#">Supported platforms</a> .
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"> <li>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 Privilege Manager for Unix, ensure that the partitions that will contain <code>/opt/quest</code> have sufficient space available.</li> <li>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.</li> <li>The space can be on a network disk drive rather than a local drive.</li> <li>The server hosting Privilege Manager for Unix must be a separate machine dedicated to running the <code>pmmasterd</code> daemon.</li> </ul>

Component	Requirements
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 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
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 `.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 *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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- Engage in community discussions

- Chat with support engineers online
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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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