

Privilege Manager for Unix 7.1.1

Release Notes

13 April 2021, 02:30

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 7.1.1 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.

New features

New features in Privilege Manager for Unix 7.1.1:

- Privilege Manager for Unix 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: 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 Privilege Manager for Unix clients.

Table 2: Linux supported platforms – server and client

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

Platform	Version	Architecture
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 — client

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 Privilege Manager for Unix 7.1.1, ensure that your system meets the following minimum hardware and software requirements.

NOTE: Beginning with version 7.1.1, Privilege Manager for Unix supports only Linux-based systems for Privilege Manager for Unix policy servers.

Table 4: 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. 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.• 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	You must install and configure SSH client and server software on all policy server hosts. 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.
Processor	Policy Servers: 4 cores
Policy Servers: 4GB	

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 (`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 `pmshe11s` 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

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 Privilege Manager for Unix software.

See *Install PM Agent on a remote host* in the *One Identity Management Console for Unix Administration Guide* for more information about the installing an agent on a remote host.

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 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 you 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 5: List of Third-Party Contributions

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