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Pulse Secure Virtual Traffic Manager: Release Notes

The information in this document is current as of the date on the title page.

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Release Notes

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Overview

Pulse Secure Virtual Traffic Manager 20.1r1 is a maintenance release of the Pulse Secure Virtual Traffic Manager product family, containing a number of performance and functionality enhancements and bug fixes. Customers are recommended to upgrade to this version to take advantage of the changes.

Product Compatibility

You can install and use this product version on the following platforms:

Software

- Linux x86_64: Kernel 2.6.32 - 5.2, glibc 2.12+
  For Route Health Injection: ncurses 5 (libncurses.so.5, libtinfo.so.5)

Containers

- Docker: 1.13.0 or later recommended

Cloud Platforms

- Amazon EC2 - as a virtual appliance or native software install
- Microsoft Azure - as a virtual appliance
- Google Compute Engine - as a virtual appliance or native software install

Hardware Platforms

- Bare Metal Server - for information on qualified servers, see the Pulse Secure Virtual Traffic Manager Hardware Compatibility List at https://www.pulsesecure.net/techpubs
Virtual Appliance Editions

- VMware vSphere 6.0, 6.5, 6.7
- XenServer 7.1, 8.0, 8.1
- Microsoft Hyper-V Server 2016
- Microsoft Hyper-V under Windows Server 2016 and 2019
- QEMU/KVM (RHEL/CentOS 6.x, 7.x; Ubuntu 16.04, 18.04)

Resource Requirements

Virtual appliances should be allocated a minimum of 2GB of RAM.

Large Objects in the Webcache

A Traffic Manager running 20.1r1 will be unable to store objects greater than 2GB in the web cache, even if the web cache is enabled and all cacheability conditions are met. If you rely upon this feature, please contact Pulse Secure Technical Support through the usual support mechanism (see “Technical Support” on page 6).

Fixed Issues and Other Changes

The following table lists issues that have been fixed and are resolved by upgrading to this release.

<table>
<thead>
<tr>
<th>Report Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Administration Server</strong></td>
<td></td>
</tr>
<tr>
<td>VTM-42831</td>
<td>Fixed an issue where the Diagnose and Activity tabs in the Traffic Manager Admin UI took excessive time to open when the Traffic Manager has many (for example, more than 100) service discovery pools.</td>
</tr>
<tr>
<td>VTM-43084</td>
<td>Fixed an issue where the permission check needed for the addition of a rule to a virtual server or GLB service could be bypassed.</td>
</tr>
<tr>
<td><strong>TrafficScript</strong></td>
<td></td>
</tr>
<tr>
<td>VTM-43180</td>
<td>The Perl Compatible Regular Expression library (PCRE) has been updated to version 10.35, addressing CVE-2019-20454.</td>
</tr>
<tr>
<td><strong>Connection Processing</strong></td>
<td></td>
</tr>
<tr>
<td>VTM-43204</td>
<td>Fixed an issue where HTTP/2 requests with a single Cookie header made to a virtual server with http2!merge_cookie_headers enabled could result in the omission of another header field and the addition of its value to the Cookie header when a request was sent to the pool node.</td>
</tr>
<tr>
<td>VTM-43004, VTM-25308, SR34763</td>
<td>Fixed an issue where the Traffic Manager could fail a lookup of a DNS name if exactly one of IPv4 or IPv6 lookup succeeds. When a negative lookup for one was cached and not expired, but a cached positive result was expired, the negative result was returned.</td>
</tr>
<tr>
<td>VTM-43038, VTM-25308, SR34763</td>
<td>Improved HTTP/1.1 header parsing to ensure RFC 7230 section 3.2.6 is correctly followed.</td>
</tr>
</tbody>
</table>
### Pulse Secure Virtual Traffic Manager Appliance

The following table lists issues that have been fixed and are resolved by upgrading to this release.

<table>
<thead>
<tr>
<th>Report Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTM-38742</td>
<td>Support for vmguestlib has been added to the appliance image.</td>
</tr>
<tr>
<td>Report Number</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
## Known Issues

The following table lists the Known issues in the current release.

<table>
<thead>
<tr>
<th>Report Number</th>
<th>Report</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTM-41385</td>
<td>Software in Ubuntu 16.04 on GCE</td>
<td>A Traffic Manager software install on a GCE instance running Ubuntu 16.04 can report a serious error &quot;sysconfig_error GCE IP routes error: Didn't find nic label for &lt;MAC address&gt;&quot;. This does not occur for Ubuntu 18.04.</td>
</tr>
<tr>
<td>VTM-34654</td>
<td>KVM Network Interface Card renaming</td>
<td>In rare circumstances a KVM host may change the PCI addresses of a virtual appliance's network cards after a reboot, resulting in the network interface labels changing. This can be fixed by removing the configuration from the non-existent card on the Traffic Manager Admin UI System &gt; Networking page and re-adding it to the correct card.</td>
</tr>
<tr>
<td>VTM-38881</td>
<td>Obsolete counters are missing from old REST API versions</td>
<td>Obsolete counters removed from version 6.0 of the status API are missing in versions 5.X, despite the schemata published with the product claiming they are still present.</td>
</tr>
<tr>
<td>VTM-38948</td>
<td>The format of encrypted bootloader passwords has changed in version 18.2</td>
<td>The format of encrypted bootloader passwords changed in version 18.2. When upgrading from a version earlier than 18.2 with a bootloader password set, the bootloader will be unprotected, and a configuration error will be reported until the password is re-entered. It can be set on the System &gt; Global Settings page of the Admin UI.</td>
</tr>
<tr>
<td>VTM-38962</td>
<td>Pre-18.2 Admin UI rollback tools will not offer roll-forward to 18.2 or later</td>
<td>After rolling back from 19.2 to a vTM version earlier than 18.2 the rollback version selector on the System &gt; Traffic Managers page of the Admin UI will not offer versions after 18.2 as an option. Use $ZEUSHOME/zxtm/bin/rollback from the command line to switch back instead.</td>
</tr>
</tbody>
</table>
Upgrade Instructions

20.1r1 can be installed directly using any supported installation mechanism. Traffic Manager software installations can be upgraded directly to 20.1r1 using any supported upgrade mechanism, except those running Traffic Manager version 17.2 which must be upgraded to some other version (for example 17.2r3 or 19.2) before upgrading.

Traffic manager instances (appliance or cloud) running release 18.2 or later can be upgraded directly to 20.1r1 using any supported upgrade mechanism.

Traffic manager instances (appliance or cloud) running versions prior to 18.2 must first be upgraded to a non-r-release, such as 18.2 or 19.2.

To learn more about upgrading your Traffic Manager, see the Pulse Secure Virtual Traffic Manager: Installation and Getting Started Guide applicable to your product variant.

Documentation

Pulse Secure documentation is available at https://www.pulsesecure.net/techpubs.

For policy reasons, security issues are not normally mentioned in release notes. To find more information about our security advisories, see the security advisory page on the Pulse Secure website.

Technical Support

Pulse Secure Virtual Traffic Manager 19.2 is designated a Long Term Support (LTS) release.

Full support for version 19.2 will be available for three years from the release date of July 15, 2019. For more information, see the End of Support and End of Engineering Schedule notices at the following location: https://support.pulsesecure.net/product-service-policies/eol/software/vadc-virtual-traffic-manager/

For additional information or assistance, contact Pulse Secure Global Support Center (PSGSC):
  •  https://support.pulsesecure.net
  •  support@pulsesecure.net
  •  Call 1-844-751-7629 (toll-free USA)

For technical support resources, browse the Pulse Secure Technical Support website https://support.pulsesecure.net.