



NetApp Base Pack PowerPack Release Notes

Version 104

Table of Contents

Overview	3
Before You Install or Upgrade	3
Installing or Upgrading to NetApp Base Pack PowerPack version 104	4
Included Features	4
Enhancements and Issues Addressed	5
Known Issues	6

Overview

Version 104 of the *NetApp Base Pack PowerPack* adds support for TLS versions 1.1 and 1.2 and for aggregated statistics on Storage Virtual Machines (SVMs).

- **Minimum Required Platform Version:** 8.7.0
- **Support Status:** GA
- **Minimum Required NetApp Version:** 8.2.2

This document describes:

- [Pre-install or pre-upgrade information](#)
- [The installation and upgrade process for the PowerPack](#)
- [The features included in version 104](#)
- [The enhancements and issues addressed in version 104](#)
- [The known issues that affect version 104](#)

Before You Install or Upgrade

Ensure that you are running version 8.7.0 or later of the ScienceLogic platform before installing the *NetApp Base Pack PowerPack* version 104.

NOTE: For details on upgrading the ScienceLogic platform, see the appropriate [ScienceLogic Release Notes](#).

Installing or Upgrading to NetApp Base Pack PowerPack version 104

To install the *NetApp Base Pack PowerPack* for the first time or to upgrade from a previous version, perform the following steps:

TIP: By default, installing a new version of a PowerPack will overwrite all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent the new version of the PowerPack from overwriting local changes for some commonly customized fields.

NOTE: If you are currently using the Dynamic Applications in the *NetApp Base Pack PowerPack* to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 8.7.0 or later release.
3. Download version 104 of the *NetApp Base Pack PowerPack* from the Customer Portal to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 104 of the *NetApp Base Pack PowerPack*.
5. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.
6. To align the new Dynamic Applications, rediscover the existing NetApp nodes and clusters. For details on discovering NetApp devices, see the manual [Monitoring NetApp Appliances](#).

Included Features

NetApp Base Pack PowerPack version 104 includes the following features:

- Dynamic Applications that can monitor performance metrics and collect configuration data for all NetApp devices
- Device classes for each of the NetApp component devices monitored
- Event policies and corresponding alerts that are triggered when NetApp component devices meet certain status criteria
- Sample credentials for discovering NetApp component devices
- A device dashboard that displays information about NetApp clusters

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 104 of the *NetApp Base Pack PowerPack*:

- Support has been added for TLS v1.1 and v1.2.
- Support has been added for aggregated statistics on Storage Virtual Machines (SVMs).
- The following Dynamic Applications have been added to the PowerPack:
 - NetApp: iSCSI Stats C-Mode
 - NetApp: Network LIF Stats C-Mode

NOTE: The "NetApp: Network LIF Stats C-Mode" Dynamic Application will align on systems with ONTAP API versions 8.2.2 or higher.

- NetApp: Network Stats C-Mode
- NetApp: NFSv4.1 Stats C-Mode
- NetApp: SVM Capacity Stats C-Mode
- NetApp: SVM CIFS Stats C-Mode
- NetApp: SVM Config C-Mode
- NetApp: SVM FCP Stats C-Mode
- NetApp: SVM iSCSI Stats C-Mode
- QoS caching was added to the "NetApp: Volume LUN Config Cache C-Mode" Dynamic Application.
- The "LUN QoS policy group" collection object was added to the following Dynamic Applications:
 - NetApp: LUN Config C-Mode
 - NetApp: Volume Config C-Mode
 - NetApp: SVM Config C-Mode
- The following presentation objects were added to the "NetApp: Volume Size C-Mode" Dynamic Application:
 - **Percentage Snapshot Reserved Space.** Percent of disk space reserved for storing snapshots.
 - **Snapshot Reserved Space.** Disk space reserved for storing snapshots.
 - **Available.** Available NetApp C-Mode Volume size.
 - **Size.** Total NetApp C-Mode Volume size.
- "Read Latency" and "Write Latency" collection objects were added to the "NetApp: NFSv4 Stats C-Mode" Dynamic Application.

- "Read Latency" and "Write Latency" collection objects were added to the "NetApp: NFSv3 Stats C-Mode" Dynamic Application.
- The "Read Latency" and "Write Latency" collection objects were fixed in the "NetApp: FCP Stats C-Mode" and "NetApp: CIFS Stats C-Mode" Dynamic Applications.
- In the **[Performance]** tab of the **Device Summary** page, the name of the actual interface instead of the instance name is now displayed on the LIF stats graphs.
- The "NetApp: Volume Snapshot C-Mode" Dynamic Application was updated to send an alert that there are no volume snapshots only when snapshots are enabled.
- The PowerPack's Dynamic Applications were updated to reduce the number of `net-interface-get-iter` calls to the ONTAP API, to reduce load on the NetApp device and reduce collection time for the data.
- Event log messages have been updated to specify which Dynamic Application and Snippet triggered the event.
- An issue was addressed in which the "NetApp: Disk Count C-Mode" Dynamic Application needed two discoveries to auto-align.
- An issue was addressed in which the "NetApp: iSCSI Stats C-Mode" Dynamic Application collection was encountering the error Object "iscsi" was *not found*.

NOTE: This update will cause different stats to display depending on your ONTAP API version. Specifically, "Operations" or "Other Operations" may or may not display.

- An issue was addressed in the "NetApp: WAFL Stats 7-Mode" Dynamic Application in which an erroneous memory error was occurring.
- The "NetApp: vServer Data Discovery C-Mode" and "NetApp: vServer Node Discovery C-Mode" Dynamic Applications were updated to address an issue in which an error was occurring during collection due to an ASCII character.
- An issue was addressed in which the SL1 NetApp vServer Node device logs triggered the major event "Partner takes over for device" even though the device does not have a partner node (Single Node Cluster) or HA is disabled.
- The credential was updated to use "%D" in the **URL** field, as the previous value "%N" returned an error.
- The "NetApp: Network Stats C-Mode" Dynamic Application was updated to address an issue in which it was producing the error "the error Object "ifnet" was not found."

NOTE: The "NetApp: Network Stats C-Mode" Dynamic Application will align on systems with ONTAP API versions 8.2.1 or earlier.

Known Issues

The following known issue affects version 104 of the *NetApp Base Pack* PowerPack:

- A Content Libraries import error is present in the ScienceLogic platform version 8.8.0. If you encounter this error, upgrade the ScienceLogic platform to version 8.8.1.1 Build 6 or later.
- Users upgrading to version 104 might encounter log messages about snippets and collection objects in the "NetApp: Cache C-Mode" Dynamic Application that are no longer supported as of version 104. This will not cause a serious issue. If any of the following deprecated snippets or collection objects cause problems, you can remove them:
 - The following snippets affected are:
 - netapp-c-cacheeject-perf-cache
 - netapp-c-cachequeue-perf-cache
 - netapp-c-cifs-perf-cache
 - netapp-c-disk-cfg-cache
 - netapp-c-disk-perf-cache
 - netapp-c-fcp-perf-cache
 - netapp-c-ifnet-perf-cache
 - netapp-c-iscsi-perf-cache
 - netapp-c-nfsv3-perf-cache
 - netapp-c-nfsv4-perf-cache
 - netapp-c-nvram-perf-cache
 - netapp-c-processor-perf-cache
 - netapp-c-raid-perf-cache
 - netapp-c-readahead-perf-cache
 - netapp-c-volume-snapshot-cache
 - netapp-c-wafl-perf-cache
 - The following collection objects affected are:
 - Cache Eject Perf Collect Status
 - Cache Queue Perf Collect Status
 - CIFS Perf Collect Status
 - Disk Cfg Collect Status
 - Disk Perf Collect Status
 - FCP Perf Collect Status
 - IF Net Perf Collect Status
 - NFSv3 Perf Collect Status
 - NFSv4 Perf Collect Status
 - NVRAM Perf Collect Status
 - Processor Perf Collect Status

- RAID Perf Collect Status
- Readahead Perf Collect Status
- Volume Snapshot Collect Status
- WAFL Perf Collect Status

© 2003 - 2019, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic™
- EM7™ and em7™
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management™

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010