

HPE 3PAR OS 3.3.1 MU2 Patch 38 Release Notes

Abstract

This release notes document is for Patch 3.3.1 MU2 P38.

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Purpose

The HPE 3PAR OS 3.3.1 MU2 Patch 38 provides quality improvements for consistency checks and VV removal.

(!)

IMPORTANT: See the <u>HPE 3PAR OS and Service Processor Software Update Guide (HPE 3PAR OS 3.3.1 HPE 3PAR Service Processor 5.x)</u> for instructions on updating your specific software.

Guidance

This is a critical patch.

Prerequisites

- Minimum Service Processor required: SP-5.0.3 + latest SP Patch.
- Base OS: OS-3.3.1.410-MU2. See the Requires field in the Patch details.

Patch details

Patch ID: P38

Synopsis: Provides quality improvements for consistency checks and VV removal

Date: July 19, 2018, 16:01:10 PDT

Description: See the Release Notes for details about this patch Affected Packages: tpd-kernelpatch, tpd-sysmgr, tpd-prerevert

Obsoletes: None

Requires: OS-3.3.1.410-MU2,OS-3.3.1.410-P30,OS-3.3.1.410-P32

Build Version: 3.3.1.454
Patches Included: None.

Patches Partially Superseded: OS-3.3.1.410-P30,OS-3.3.1.410-P32

Patches Obsolete by Combination: None.

Supports Revert: Yes

Notes:

NOTE:

Hewlett Packard Enterprise recommends installing patches in the same sequence as they are released, unless instructed otherwise.

Modifications

HPE 3PAR patch 38 addresses the following issues:

Issue ID: 236118

Issue summary: Performing consistency checks during virtual volume removal can cause unexpected controller node restarts.

Platforms affected: All StoreServ

Affected software versions: 3.3.1 GA - MU2

Issue description: Unexpected node restarts occur when VVs are being removed at the same time that consistency checks are being performed. This happens if the consistency check is run after the system has already removed a volume, and before the volume entry is removed from the VV table that is used by the consistency check. This issue can occur when volumes are being converted to compressed volumes if a consistency check is issued when the volume that was converted is being removed. The consistency check can be called by either the Service Processor, which performs a consistency check on an hourly basis, or any other process that requests a **checkhealth** consistency check.

Symptoms: Unexpected controller node restarts.

Conditions of occurrence: Running checkhealth -svc -full consistency Or checkhealth -svc -full while a VV is being removed.

Impact: High

Customer circumvention: Avoid running checkhealth -svc -full consistency or

checkhealth -svc -full.
Customer recovery steps: None.

Affected components

| Component | Version |
|------------------|-----------------|
| System Manager | 3.3.1.454 (P38) |
| TPD Kernel Patch | 3.3.1.454 (P38) |

NOTE: Applying an HPE 3PAR OS patch can cause a restart of the affected OS components. This restart is an expected behavior, which will generate events and alerts. The system continues to serve data, but existing CLI or SSMC sessions could be interrupted.

Verification

The installation of Patch 38 can be verified from an interactive CLI session. Issue the CLI command showversion -a -b to verify that Patch 38 is listed:

showversion -a -b

Release version 3.3.1.410 (MU2)

Patches: P30, P32, P38

| Common on the Monte | 77 |
|----------------------------------|-------------------------|
| Component Name | Version |
| CLI Server | 3.3.1.410 (MU2) |
| CLI Client | 3.3.1.410 |
| System Manager | 3.3.1.454 (P38) |
| Kernel | 3.3.1.410 (MU2) |
| TPD Kernel Code | 3.3.1.410 (MU2) |
| TPD Kernel Patch | 3.3.1.454 (P38) |
| CIM Server | 3.3.1.410 (MU2) |
| WSAPI Server | 3.3.1.410 (MU2) |
| Console Menu | 3.3.1.410 (MU2) |
| Event Manager | 3.3.1.410 (MU2) |
| Internal Test Tools | 3.3.1.410 (MU2) |
| LD Check Tools | 3.3.1.410 (MU2) |
| Network Controller | 3.3.1.410 (MU2) |
| Node Disk Scrubber | 3.3.1.410 (MU2) |
| PD Scrubber | 3.3.1.410 (MU2) |
| Per-Node Server | 3.3.1.410 (MU2) |
| | 3.3.1.410 (MU2) |
| Powerfail Tools | 3.3.1.410 (MU2) |
| Preserved Data Tools | 3.3.1.410 (MU2) |
| Process Monitor | 3.3.1.410 (MU2) |
| Software Updater | 3.3.1.410 (MU2) |
| TOC Server | 3.3.1.410 (MU2) |
| VV Check Tools | 3.3.1.410 (MU2) |
| Upgrade Check Scripts | 180507.U013 |
| File Persona | 1.4.2.40-20171006 (MU2) |
| SNMP Agent | 1.10.0 |
| SSH | 6.0p1-4+deb7u5 |
| VASA Provider | 3.0.17 (MU2) |
| Firmware Database | 3.3.1.410 (MU2) |
| Drive Firmware | 3.3.1.410 (MU2) |
| UEFI BIOS | 05.02.54 (MU2) |
| MCU Firmware (OKI) | 4.8.60 (MU2) |
| MCU Firmware (STM) | 5.3.17 (MU2) |
| Cage Firmware (DC1) | 4.44 (MU2) |
| Cage Firmware (DC2) | 2.64 (MU2) |
| Cage Firmware (DC3) | 08 (MU2) |
| Cage Firmware (DC4) | 2.64 (MU2) |
| Cage Firmware (DCN1) | 4082 (MU2) |
| Cage Firmware (DCN2) | 4082 (MU2) |
| Cage Firmware (DCS1) | 4082 (MU2) |
| Cage Firmware (DCS2) | 4082 (MU2) |
| Cage Firmware (DCS5) | 2.79 (MU2) |
| Cage Firmware (DCS6) | 2.79 (MU2) |
| Cage Firmware (DCS7) | 4082 (MU2) |
| Cage Firmware (DCS8) | 4082 (MU2) |
| QLogic QLA4052C HBA Firmware | 03.00.01.77 (MU2) |
| QLogic QLE8242 CNA Firmware | 04.15.27 |
| QLogic 260x HBA FC Firmware | 174.03.70 |
| QLogic 27xx/268x HBA FC Firmware | 174.03.70 |
| | |

| QLogic 83xx HBA FCoE Firmware | 08.01.05 |
|--------------------------------|-------------|
| QLogic 8300 HBA iSCSI Firmware | 05.07.35 |
| Emulex LP11002 HBA Firmware | 02.82.x10 |
| Emulex LPe12002 HBA Firmware | 02.10.x03 |
| Emulex LPe12004 HBA Firmware | 02.10.x03 |
| Emulex LPe16002 HBA Firmware | 11.1.220.10 |
| Emulex LPe16004 HBA Firmware | 11.1.220.10 |
| 3PAR FC044X HBA Firmware | 200A8 |
| LSI 9201-16e HBA Firmware | 17.11.03 |
| LSI 9205-8e HBA Firmware | 17.11.03 |
| LSI 9300-8e HBA Firmware | 10.10.01 |

NOTE: When displaying the showversion command output from the SP, the CLI Client version is static in the SP code and may differ from the output from any other system.

Websites

General websites

Hewlett Packard Enterprise Information Library

www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

www.hpe.com/storage/spock

Storage white papers and analyst reports

www.hpe.com/storage/whitepapers

For additional websites, see **Support and other resources**.

Support and other resources

Accessing Hewlett Packard Enterprise Support

For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

http://www.hpe.com/assistance

 To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

http://www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- · Error messages
- · Product-specific reports and logs
- · Add-on products or components
- · Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:

Hewlett Packard Enterprise Support Center

www.hpe.com/support/hpesc

Hewlett Packard Enterprise Support Center: Software downloads

www.hpe.com/support/downloads

Software Depot

www.hpe.com/support/softwaredepot

To subscribe to eNewsletters and alerts:

www.hpe.com/support/e-updates

 To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center More Information on Access to Support Materials page: (!) IMPORTANT: Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

http://www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

HPE Get Connected

www.hpe.com/services/getconnected

HPE Proactive Care services

www.hpe.com/services/proactivecare

HPE Proactive Care service: Supported products list

www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list

www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central

www.hpe.com/services/proactivecarecentral

Proactive Care service activation

www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options

www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise and Cloudline Servers

www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products
www.hpe.com/support/Storage-Warranties
HPE Networking Products
www.hpe.com/support/Networking-Warranties

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

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