



vnvram events

ONTAP EMS reference

NetApp

November 19, 2025

Table of Contents

- vnvram events 1
 - vnvram.dma events 1
 - vnvram.dma.long.wait 1
 - vnvram.flush events 1
 - vnvram.flush.ems 1
 - vnvram.flushed events 1
 - vnvram.flushed 1

vnvram events

vnvram.dma events

vnvram.dma.long.wait

Severity

ALERT

Description

This message occurs when a vNVRAM flush operation on an ONTAP-v system is taking too much time. This can indicate back-end storage issues or an internal error. The system might also reboot.

Corrective Action

If the problem persists, check for back-end storage issues with the system disk.

Syslog Message

vNVRAM flush taking over %d seconds.

Parameters

vnvr_wait_sec (INT): Time in seconds for the vNVRAM flush operation.

vnvram.flush events

vnvram.flush.ems

Severity

NOTICE

Description

This message occurs when the write to the backing storage device for the EMS region of VNV RAM (virtual NVRAM) takes longer than 500 msec.

Corrective Action

(None).

Syslog Message

EMS region write to VNV RAM persistent storage took %d seconds.

Parameters

vnvr_write_time (LONGINT): Time in seconds taken for the EMS region write to persistent storage.

vnvram.flushed events

vnvram.flushed

Severity

NOTICE

Description

This message occurs when the VNVRAM contents of any ONTAP-based virtual appliance that is not using full-mode VNVRAM, are written to the backing storage device. The writes would have occurred during either a clean or dirty shutdown.

Corrective Action

(None).

Syslog Message

Write to VNVRAM persistent storage is complete (%s) elapsed %d ms.

Parameters

vnvr_reg (STRING): Section of NVRAM that was written to the backing device.

flush_time_ms (INT): Time taken to write the NVRAM section.

Copyright information

Copyright © 2025 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.