



# Monitor volume performance

## VCP

Ann-Marie Grissino, Dave Bagwell, Paula Carrigan  
August 18, 2021

# Table of Contents

- Monitor volume performance ..... 1
- Volume performance data ..... 1

# Monitor volume performance

You can view performance information for all volumes in the selected cluster from Reporting tab of the NetApp Element Management extension point.

## Steps

1. From the vCenter Plug-in, select **NetApp Element Management**.
2. Select **Reporting > Volume Performance**.
3. To change how often the data refreshes on the page, click **Refresh every list** and choose a value.

The default refresh interval is 10 seconds if the cluster has less than 1000 volumes; otherwise, the default is 60 seconds. If you choose a value of Never, automatic page refreshing is disabled.

## Volume performance data

- **Name:** Name of the volume when it was created.
- **Account:** The name of the account assigned to the volume.
- **Access Groups:** The name of the volume access group or groups to which the volume belongs.
- **Volume Utilization %:** A percentage value that describes how much the client is using the volume.

Possible values:

- 0 = Client is not using the volume
- 100 = Client is using the max
- >100 = Client is using the burst
- **Total IOPS:** The total number of IOPS (read and write) currently being executed against the volume.
- **Read IOPS:** The total number of read IOPS currently being executed against the volume.
- **Write IOPS:** The total number of write IOPS currently being executed against the volume.
- **Total Throughput:** The total amount of throughput (read and write) currently being executed against the volume.
- **Read Throughput:** The total amount of read throughput currently being executed against the volume.
- **Write Throughput:** The total amount of write throughput currently being executed against the volume.
- **Total Latency (ms):** The average time, in microseconds, to complete read and write operations to a volume.
- **Read Latency (ms):** The average time, in microseconds, to complete read operations to the volume in the last 500 milliseconds.
- **Write Latency (ms):** The average time, in microseconds, to complete write operations to a volume in the last 500 milliseconds.
- **Queue Depth:** The number of outstanding read and write operations to the volume.
- **Average IO Size:** Average size in bytes of recent I/O to the volume in the last 500 milliseconds.

## Find more information

- [NetApp HCI Documentation](#)
- [SolidFire and Element Resources page](#)

## Copyright Information

Copyright © 2021 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.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## 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.