



# Monitor volumes on your storage cluster

## HCI

Ann-Marie Grissino  
October 02, 2020

This PDF was generated from [https://docs.netapp.com/us-en/hci/docs/task\\_hcc\\_volumes.html](https://docs.netapp.com/us-en/hci/docs/task_hcc_volumes.html) on November 02, 2020. Always check docs.netapp.com for the latest.

# Table of Contents

Monitor volumes on your storage cluster..... 1

# Monitor volumes on your storage cluster

The SolidFire system provisions storage using volumes. Volumes are block devices accessed over the network by iSCSI or Fibre Channel clients. You can monitor details about access groups, accounts, initiators, used capacity, Snapshot data protection status, number of iSCSI sessions, and the Quality of Service (QoS) policy associated with the volume.

You can also see details on active and deleted volumes.

With this view, you might first want to monitor the Used capacity column.

You can access this information only if you have NetApp Hybrid Cloud Control (HCC) administrative privileges.

## Steps

1. Open a web browser and browse to the IP address of the management node. For example:

```
https://[management node IP address]
```

2. Log in to NetApp Hybrid Cloud Control by providing the NetApp HCI storage cluster administrator credentials.
3. In the left navigation blue box, select the NetApp HCI installation.

The Hybrid Cloud Control Dashboard appears.

4. In the left navigation, select the cluster and select **Storage > Volumes**.

The Volumes page Overview tab appears.

OVERVIEW ACCESS GROUPS ACCOUNTS INITIATORS QOS POLICIES

VOLUMES

Overview

Active Deleted

5. On the Volumes page, use the following options:



- Filter the results by clicking the **Filter** icon.
  - Hide or show columns by clicking the **Hide/Show** icon.
  - Refresh data by clicking the **Refresh** icon.
  - Download a CSV file by clicking on the **Download** icon.
6. Monitor the Used capacity column. If Warning, Error, or Critical thresholds are reached, the color represents the used capacity status:
- Warning - Yellow
  - Error - Orange
  - Critical - Red
7. From the Volumes view, click the tabs to see additional details about the volumes:
- Access Groups:** You can see the volume access groups that are mapped from initiators to a collection of volumes for secured access.

See information about [access groups](#) in the *NetApp Element User Guide*.

- Accounts:** You can see the user accounts, which enable clients to connect to volumes on a node.

When you create a volume, it is assigned to a specific user account.

See information about [user accounts](#) in the *NetApp Element User Guide*.

- c. **Initiators:** You can see the iSCSI initiator IQN or Fibre Channel WWPNs for the volume. Each IQN added to an access group can access each volume in the group without requiring CHAP authentication. Each WWPN added to an access group enables Fibre Channel network access to the volumes in the access group.

See information about [access groups, initiators, and CHAP authentication methods](#) in the *NetApp Element User Guide*.

- d. **QoS Policies:** You can see the QoS policy applied to the volume. A QoS policy applies standardized settings for minimum IOPS, maximum IOPS, and burst IOPS to multiple volumes.

See information about [Quality of Service policies](#) in the *NetApp Element User Guide*.

## Find more information

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

## Copyright Information

Copyright © 2020 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.