



Release Notes

HCI

NetApp
September 18, 2024

This PDF was generated from https://docs.netapp.com/us-en/hci18/docs/rn_whatsnew.html on September 18, 2024. Always check docs.netapp.com for the latest.

Table of Contents

- Release Notes 1
 - What's new in NetApp HCI 1
 - Additional release information 3

Release Notes

What's new in NetApp HCI

NetApp periodically updates NetApp HCI to bring you new features, enhancements, and bug fixes. NetApp HCI 1.8P1 includes Element 12.2 for storage clusters.

- The [NetApp HCI 1.8P1](#) section describes new features and updates in NetApp HCI version 1.8P1.
- The [Element 12.2](#) section describes new features and updates in NetApp Element 12.2.

NetApp HCI 1.8P1

NetApp HCI 1.8P1 includes security and stability improvements.

NetApp HCI documentation enhancements

You can now access NetApp HCI upgrading, expansion, monitoring, and concepts information in an easy-to-navigate format [here](#).

NetApp Element Plug-in for vCenter Server 4.5 availability

The NetApp Element Plug-in for vCenter Server 4.5 is available outside of the management node 12.2 and NetApp HCI 1.8P1 releases. To upgrade the plug-in, follow the instructions in the [NetApp HCI Upgrades](#) documentation.

NetApp Hybrid Cloud Control enhancements

NetApp Hybrid Cloud Control is enhanced for version 1.8P1. [Learn more](#).

Element 12.2

NetApp HCI 1.8P1 includes Element 12.2 for storage clusters. Element 12.2 introduces SolidFire Enterprise SDS, software encryption at rest, maintenance mode, enhanced volume access security, Fully Qualified Domain Name (FQDN) access to UIs, storage node firmware updates, and security updates.

SolidFire Enterprise SDS

Element 12.2 introduces SolidFire Enterprise SDS (eSDS). SolidFire eSDS provides the benefits of SolidFire scale out technology and NetApp Element software data services on the hardware of your choice that meets the reference configuration for SolidFire eSDS. [Learn more](#).

The following are new Element API methods related to SolidFire eSDS ([Element 12.2 API information for SolidFire eSDS](#) has more information):

- `GetLicenseKey`
- `SetLicenseKey`

Software encryption at rest

Element 12.2 introduces software encryption at rest, which you can enable when you create a storage cluster (and is enabled by default when you create a SolidFire Enterprise SDS storage cluster). This feature encrypts

all data stored on the SSDs in the storage nodes and causes only a very small (~2%) performance impact on client IO.

The following are Element API methods related to software encryption at rest (the [Element API Reference Guide](#) has more information):

- `CreateCluster`

Maintenance mode

Element 12.2 introduces maintenance mode, which enables you to take a storage node offline for maintenance such as software upgrades or host repairs, while preventing a full sync of all data. If one or more nodes need maintenance, you can minimize the I/O impact to the rest of the storage cluster by enabling maintenance mode for those nodes before you begin. You can use maintenance mode with both appliance nodes as well as SolidFire eSDS nodes.

Enhanced volume access security

You can now restrict volume access to certain initiators based on VLAN (virtual network) association. You can associate new or existing initiators with one or more virtual networks, restricting that initiator to iSCSI targets accessible via those virtual networks.

The following are updated Element API methods related to these security improvements (the [Element API Reference Guide](#) has more information):

- `CreateInitiators`
- `ModifyInitiators`
- `AddAccount`
- `ModifyAccount`

Fully Qualified Domain Name (FQDN) access to UIs

Element 12.2 supports cluster web interface access using FQDNs. On Element 12.2 storage clusters, if you use the FQDN to access web user interfaces such as the Element web UI, per-node UI, or management node UI, you must first add a storage cluster setting to identify the FQDN used by the cluster. This setting enables the cluster to properly redirect a login session and facilitates better integration with external services like key managers and identity providers for multi-factor authentication. This feature requires management services version 2.15 or later. [Learn more](#).

Storage node firmware updates

Element 12.2 includes firmware updates for storage nodes. [Learn more](#).

Security enhancements

Element 12.2 resolves security vulnerabilities for storage nodes and the management node. [Learn more](#) about these security enhancements.

New SMART warning for failing drives

Element 12.2 now performs periodic health checks on SolidFire appliance drives using SMART health data from the drives. A drive that fails the SMART health check might be close to failure. If a drive fails the SMART

health check, a new critical severity cluster fault appears: Drive with serial: <serial number> in slot: <node slot><drive slot> has failed the SMART overall health check. To resolve this fault, replace the drive

Find more information

- [NetApp Hybrid Cloud Control and Management Services Release Notes](#)
- [NetApp Element Plug-in for vCenter Server](#)
- [NetApp HCI Resources page](#)
- [SolidFire and Element Software Documentation Center](#)
- [Supported firmware and ESXi driver versions for NetApp HCI and firmware versions for NetApp HCI storage nodes](#)

Additional release information

You can find links to the latest and earlier release notes for various components of the NetApp HCI and Element storage environment.



You will be prompted to log in using your NetApp Support Site credentials.

NetApp HCI

- [NetApp HCI 1.8P1 Release Notes](#)
- [NetApp HCI 1.8 Release Notes](#)
- [NetApp HCI 1.7P1 Release Notes](#)

NetApp Element software

- [NetApp Element Software 12.2 Release Notes](#)
- [NetApp Element Software 12.0 Release Notes](#)
- [NetApp Element Software 11.8 Release Notes](#)
- [NetApp Element Software 11.7 Release Notes](#)
- [NetApp Element Software 11.5.1 Release Notes](#)
- [NetApp Element Software 11.3P1 Release Notes](#)

Management services

- [Management Services Release Notes](#)

NetApp Element Plug-in for vCenter Server

- [vCenter Plug-in 5.1 Release Notes](#) *NEW*
- [vCenter Plug-in 5.0 Release Notes](#)
- [vCenter Plug-in 4.10 Release Notes](#)
- [vCenter Plug-in 4.9 Release Notes](#)

- [vCenter Plug-in 4.8 Release Notes](#)
- [vCenter Plug-in 4.7 Release Notes](#)
- [vCenter Plug-in 4.6 Release Notes](#)
- [vCenter Plug-in 4.5 Release Notes](#)
- [vCenter Plug-in 4.4 Release Notes](#)
- [vCenter Plug-in 4.3 Release Notes](#)

Compute firmware

- [Compute Firmware Bundle 2.146 Release Notes](#)
- [Compute Firmware Bundle 2.27 Release Notes](#)
- [Compute Firmware Bundle 12.2.109 Release Notes](#)
- [Supported firmware and ESXi driver versions](#) *NEW*

Storage firmware

- [Storage Firmware Bundle 2.146 Release Notes](#)
- [Storage Firmware Bundle 2.99.2 Release Notes](#)
- [Storage firmware Bundle 2.76 Release Notes](#)
- [Storage firmware Bundle 2.27 Release Notes](#)
- [H610S BMC 3.84.07 Release Notes](#)
- [Supported firmware and ESXi driver versions](#) *NEW*

Copyright information

Copyright © 2024 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.