



Release Notes

NetApp HCI

NetApp
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Table of Contents

Release Notes	1
What's new in NetApp HCI	1
NetApp HCI 1.10	1
Element software 12.5	2
Automated upgrades using Ansible	2
Additional release information	3
NetApp HCI	3
NetApp Element software	3
Management services	4
NetApp Element Plug-in for vCenter Server	4
Compute firmware	4
Storage firmware	4

Release Notes

What's new in NetApp HCI

NetApp periodically updates NetApp HCI to bring you new features, enhancements, and bug fixes. NetApp HCI 1.10 includes Element software 12.5 for storage clusters.



Element software 12.9 is the latest release and includes security and system component updates, operational improvements, and resolved issues. [Learn more about what's new in Element 12.9.](#)

- The [NetApp HCI 1.10](#) section describes new features and updates in NetApp HCI version 1.10.
- The [Element software 12.5](#) section describes new features and updates in Element 12.5.

NetApp HCI 1.10

NetApp HCI 1.10 includes security and stability improvements, and increases post deployment scaling flexibility.

Post deployment scaling flexibility

NetApp HCI 1.10 increases your flexibility to expand NetApp HCI compute resources by removing the requirement to meet the default deployment vmk and vmnic configuration settings on the compute nodes. Beginning with NetApp HCI 1.10, only general vmk configurations on the compute nodes are expected by NetApp HCI when you expand compute resources. [Learn more.](#)

Storage node firmware updates

NetApp HCI 1.10 includes firmware updates for storage nodes. [Learn more.](#)

Compute node firmware updates

NetApp HCI 1.10 includes firmware updates for compute nodes. [Learn more.](#)

NetApp Element Plug-in for vCenter Server 4.9 availability

The NetApp Element Plug-in for vCenter Server 4.9 is available outside of the management node 12.5 and NetApp HCI 1.10 releases. To upgrade the plug-in, follow the instructions in the [NetApp HCI Upgrades](#) documentation.

Supported versions of VMware vSphere updates

With NetApp HCI 1.10, VMware vSphere 7.0 is supported for deployment and expansion.

NetApp Hybrid Cloud Control enhancements

NetApp Hybrid Cloud Control is enhanced for version 1.10. [Learn more.](#)

Resolved issues and known issues

The NetApp Bugs Online tool contains resolved and known issues for NetApp HCI, Element software, and

other products. You can browse these issues using keywords or versions at [NetApp Bugs Online](#).

Element software 12.5

Element 12.5 introduces improved storage node access, enhanced custom Protection Domains manageability, new and improved cluster faults and events, enhanced Cluster UI functionality, enhanced security, and automated upgrades using Ansible.

Improved storage node access

Element 12.5 brings improved remote access to individual nodes using signed SSH certificates. To provide secure remote access to storage nodes, a new, limited-privilege local user account called `sfreadonly` is now created during RTFI of a storage node. The `sfreadonly` account enables access to the storage node backend for basic maintenance or troubleshooting purposes. You can now configure the `supportAdmin` access type for a cluster administrator user to allow NetApp support access to the cluster on an as-needed basis.

Enhanced custom Protection Domains manageability

Element 12.5 features a new user interface that enables you to quickly and easily view existing custom Protection Domains and configure new custom Protection Domains.

New and improved cluster faults, events, and alerts

Element 12.5 enhances your system troubleshooting with the introduction of the new cluster fault codes `BmcSelfTestFailed` and `CpuThermalEventThreshold`. Element 12.5 also contains robustness improvements for existing cluster events and alerts, such as `nodeOffline`, `volumeOffline`, `driveHealthFault`, `networkEvent`, and `cSumEvent`.

Enable Software Encryption at Rest from the Create Cluster UI

With the addition of a new checkbox in the Create Cluster UI, Element 12.5 gives you the option to enable cluster-wide Software Encryption at Rest for SolidFire all-flash storage clusters during cluster creation.

Storage node firmware updates

Element 12.5 includes firmware updates for storage nodes. [Learn more](#).

Enhanced security

Element 12.5 contains the mitigation that closes the Element software exposure to the Apache Log4j vulnerability. NetApp SolidFire storage clusters with the Virtual Volumes (VVols) feature enabled are exposed to the Apache Log4j vulnerability. For information on the workaround for the Apache Log4j vulnerability in NetApp Element software, see the [KB article](#).

If you're running Element 11.x, 12.0, or 12.2 or your storage cluster is already at Element 12.3 or 12.3.1 with the VVols feature enabled, you should upgrade to 12.5.

Element 12.5 also includes more than 120 CVE security vulnerability remediations.

Automated upgrades using Ansible

With Element 12.5, you can automate the Element software upgrade workflow by using Ansible to perform a rolling upgrade of the entire storage cluster. To get started, navigate to the [NetApp Ansible repository](#) on

GitHub and download the `nar_solidfire_sds_upgrade` role and documentation.

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](#)
- [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 1.10 Release Notes](#)
- [NetApp HCI 1.9P1 Release Notes](#)
- [NetApp HCI 1.9 Release Notes](#)
- [NetApp HCI 1.8P1 Release Notes](#)
- [NetApp HCI 1.8 Release Notes](#)
- [NetApp HCI 1.7P1 Release Notes](#)

NetApp Element software

- [NetApp Element Software 12.9 Release Notes *NEW*](#)
- [NetApp Element Software 12.8 Release Notes](#)
- [NetApp Element Software 12.7 Release Notes](#)
- [NetApp Element Software 12.5 Release Notes](#)
- [NetApp Element Software 12.3.2 Release Notes](#)
- [NetApp Element Software 12.3.1 Release Notes](#)
- [NetApp Element Software 12.3 Release Notes](#)
- [NetApp Element Software 12.2.1 Release Notes](#)
- [NetApp Element Software 12.2 Release Notes](#)
- [NetApp Element Software 12.0.1 Release Notes](#)
- [NetApp Element Software 12.0 Release Notes](#)
- [NetApp Element Software 11.8.2 Release Notes](#)
- [NetApp Element Software 11.8.1 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 5.5 Release Notes](#)
- [vCenter Plug-in 5.4 Release Notes](#)
- [vCenter Plug-in 5.3 Release Notes](#)
- [vCenter Plug-in 5.2 Release Notes](#)
- [vCenter Plug-in 5.1 Release Notes](#)
- [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 2.179.0 Release Notes](#)
- [Compute Firmware Bundle 2.174.0 Release Notes](#)
- [Compute Firmware Bundle 2.154.4 Release Notes](#)
- [Compute Firmware Bundle 2.146 Release Notes](#)
- [Compute Firmware Bundle 2.76 Release Notes](#)
- [Compute Firmware Bundle 2.27 Release Notes](#)
- [Compute Firmware Bundle 12.2.109 Release Notes](#)
- [Supported firmware and ESXi driver versions](#)

Storage firmware

- [Storage Firmware Bundle 2.182.0 Release Notes](#)
- [Storage Firmware Bundle 2.175.0 Release Notes](#)
- [Storage Firmware Bundle 2.164.0 Release Notes](#)

- Storage Firmware Bundle 2.150 Release Notes
- 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

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