Hitachi Storage Plug-in for Containers v3.18.2 Release Notes

About this document

This document (RN-92ADPTR141-33 May 2026) provides late-breaking information about Hitachi Storage Plug-in for Containers v3.18.2. It includes information that was not available at the time the technical documentation for this product was published, as well as a list of known problems and solutions.

Intended audience

This document is intended for customers and Hitachi Vantara partners who license and use Hitachi Storage Plug-in for Containers.

Getting help

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Please send comments to doc.feedback@hitachivantara.com. Include the document title and number, including the revision level (for example, -07), and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Vantara LLC.

Thank you!

Accessing product documentation

Product user documentation is available on the Hitachi Vantara documentation website: https://docs.hitachivantara.com. Check this site for the most current documentation, including important updates that may have been made after the release of the product.

Accessing product downloads

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Log in and select Download Products and Updates to access the most current downloads, including important updates that may have been made after the release of the product.

About this release

This is a major release that includes performance improvements and bug fixes.

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Software and hardware support

This release supports only the hardware and software explicitly listed below.

Refer to the Product Compatibility Guide for the latest information: https://compatibility.hitachivantara.com/products/hspc/.

Operating Systems

The following table lists the operating systems supported by Hitachi Storage Plug-in for Containers:

Operating System	Version
Red Hat Enterprise Linux	8.2 - 8.4, 8.6 - 8.8, 8.10, 9.0, 9.2 - 9.4, 9.6
Red Hat Enterprise Linux Core OS	4.19 - 4.21
Ubuntu	20.04, 22.04, 24.04
Amazon	Linux 2

Note: NVMe over Fibre Channel and NVMe over TCP are supported only on Red Hat Enterprise Linux 9.x, Red Hat Enterprise Linux Core OS, and Ubuntu.

Software

The following table lists the software supported by Hitachi Storage Plug-in for Containers:

Software	Version
Kubernetes	1.32 - 1.34
Red Hat OpenShift Container Platform	4.19 - 4.21
Rancher Kubernetes Engine 2	1.32 - 1.34
Amazon Elastic Kubernetes Service	1.32 - 1.34

Storage Systems

The following table lists the storage systems supported by Hitachi Storage Plug-in for Containers:

Storage System	Firmware Version	Protocol
VSP One Block High End	A0-05-20-00/05	Fibre Channel, iSCSI, and NVMe/TCP
VSP One B24, B26, B28	A3-04-20 or later	Fibre Channel, iSCSI, NVMe over Fibre Channel, and NVMe/TCP
VSP E1090, E1090H	93-06-01 or later Note: NVMe over Fibre Channel	Fibre Channel, iSCSI, and NVMe over Fibre Channel

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Storage System	Firmware Version	Protocol
	requires 93-07-21 or later.	
VSP 5100, 5500, 5100H, 5500H	90-04-04 or later	Fibre Channel, iSCSI, and NVMe over Fibre Channel
VSP 5200, 5600,5200H, 5600H	90-08-01 or later Note: NVMe over Fibre Channel requires 90-09-21 or later.	Fibre Channel, iSCSI, and NVMe over Fibre Channel,
VSP E590, E790, E990, E590H, E790H	93-02-04 or later	Fibre Channel, iSCSI
VSP G350, G370, G700, G900, F350, F370, F700, F900,	88-06-02 or later	Fibre Channel, iSCSI
VSP One SDS Block	01.08.00.0x or later	Fibre Channel, iSCSI, and NVMe/TCP

New features and enhancements

None

Limitations

- Expanding a stretched PVC that contains a snapshot is not supported.
- When you add or remove a storage node in VSP One SDS Block storage system, pods created before the addition or removal of the node may not function correctly. To resolve this, restart the plug-in, and then restart the affected Pods that were created before addition or removal of the storage node.
- When removing a storage node from VSP One SDS Block storage system, NVMe/TCP connections to the removed node may persist. To clear these connections, restart the node hosting the Pod that maintains the NVMe/TCP connection.
- When you create a secret file specifying the primary and secondary storage systems and use it to provision a Stretched PVC, you cannot later interchange the primary and secondary values.
- When using the ReadOnlyMany feature, attaching a ReadOnlyMany PVC to a Pod may result in a "read-only file system" error. You can identify this error using the command: kubectl describe pod <*pod_name*>.

  Workaround: Recreate the Pod with the spec.volumes.persistentVolumeClaim.readOnly parameter set to true in the Pod specification.
- The ReadOnlyMany access mode is not supported for NVMe over Fibre Channel.
- When using NVMe over Fibre Channel, each NVM subsystem must be dedicated to a single Kubernetes cluster. Do not share an NVM subsystem across multiple Kubernetes clusters.
- Multi-AZ configuration is not supported by the cloud model of Hitachi Virtual Storage Platform One SDS Block storage system.
- In an OpenShift virtualization, if you expand a volume that is attached as a VM disk but the VM does not show the increased disk size, you must restart the VM for the new capacity to take effect.
- If a PVC deletion fails, you must manually delete the corresponding PV. However, if the PV contains a finalizer, its deletion will also fail. To resolve this, remove the finalizer from the PV—this will allow the deletion to succeed during a retry attempt.
- The ReadOnlyMany access mode is not supported with OpenShift virtualization.
- When using HTTPS for a storage connection with certificate verification enabled, the certificate must be installed within the container image of the plug-in.
- Stretched PVC pools can be created only on a virtual storage machine.
- Mounting a PVC that is created from a stretched PVC is not supported.
- Creating a VM from a snapshot is not supported for a stretched PVC. The operation fails with a “data source not supported” error.

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- Snapshot creation is not supported for clone PVCs derived from stretched PVC.
- Snapshot deletion may generate errors in the CSI logs, but the snapshot is removed successfully.
- You cannot delete a snapshot of a stretched PVC VM after a VM creation from snapshot fails.

  Workaround: Delete the snapshot from the storage system, for example, using Raidcom. Remove the finalizers and then delete the snapshot from OCP or Kubernetes.
- Attaching a non-stretched PVC to a stretched PVC VM fails during provisioning.

  Workaround: Use a different storage port for creating and provisioning the non-stretched volume. This allows successful attachment to the stretched PVC VM.

Fixed Issues

The following issues are fixed in the Hitachi Storage Plug-in for Containers v3.18.2 release:

Issue	Description
CPS-188	The `mpath` utility was incompatible with the cache layer when used in conjunction with VM default templates backed by stretched PVCs with storage profile strategy as copy mode. This issue is resolved.
CPS-189	LUN deletions are initiated by Kubernetes and the CSI controller but fail at the storage layer due to authorization errors (HTTP 401), leaving residual resources that disrupt later provisioning or migration. This issue is resolved.

Technology Preview

Technology Preview features provide early access to upcoming Hitachi Vantara adapter product innovations, so your site can test the functionality and provide feedback.

However, these features are not covered under any Hitachi Vantara support plans, may not be functionally complete, and are not intended for production use: Although technology preview updates are included with the software code, we recommend only using those features within a separate test environment. As such, technology preview information is noted in the provided user documentation so your site can determine whether to apply it to a test environment.

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Hitachi Vantara may create bug reports on behalf of support cases filed by subscribed customers. These bug reports will then be forwarded to Hitachi Vantara Engineering as proposed for inclusion in a future release.

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