



Release Notes

Astra Trident

amitha
October 25, 2021

Table of Contents

- Release Notes 1
- What's new 1
- Known issues 1
- Find more information 2

Release Notes

Release Notes provide information about new features, enhancements, and bug fixes in the latest version of Astra Trident.



The `tridentctl` binary for Linux that is provided in the installer zip file is the tested and supported version. Be aware that the `macos` binary provided in the `/extras` part of the zip file is not tested or supported.

What's new

NetApp is continually improving and enhancing its products and services. Here are some of the latest features and functionalities available with Astra Trident.

Astra Trident 21.07.02

- Fixed issue where clones of XFS volumes could not be mounted on the same node as the source volume.

Enhancements

- Added support for Kubernetes 1.22.
- Enabled the Trident operator and Helm chart to work with Kubernetes 1.22.

See [Astra Trident GitHub](#) for more information.

Astra Trident 21.07.01

- Fixed custom YAML installer issue with different image.
- Fixed snapshot size calculation issue.

See [Astra Trident GitHub](#) for more information.

Astra Trident 21.07

Astra Trident 21.07.0 is **not available for download**. Changes introduced to `snapshotReserve` with version 21.07.0 can result in CSI `VolumeSnapshots` being unusable for creating `PersistentVolumeClaim(s)`.

If you have already upgraded to version 21.07.0, it is recommended that you delete the newly created `VolumeSnapshots` (provisioned with version 21.07.0) and downgrade to the previous release.

See [Astra Trident GitHub](#) for more information.

Known issues

Known issues identify problems that might prevent you from using the product successfully.

- Astra Trident now enforces a blank `fsType` (`fsType=""`) for volumes that do not have the `fsType` specified in their `StorageClass`. When working with Kubernetes 1.17 or later, Trident supports providing a blank `fsType` for NFS volumes. For iSCSI volumes, you are required to set the `fsType` on your `StorageClass` when enforcing an `fsGroup` using a `Security Context`.

- When using a backend across multiple Astra Trident instances, each backend configuration file should have a different `storagePrefix` value for ONTAP backends or use a different `TenantName` for SolidFire backends. Astra Trident cannot detect volumes that other instances of Astra Trident have created. Attempting to create an existing volume on either ONTAP or SolidFire backends succeeds, because Astra Trident treats volume creation as an idempotent operation. If `storagePrefix` or `TenantName` do not differ, there might be name collisions for volumes created on the same backend.
- When installing Astra Trident (using `tridentctl` or the Trident Operator) and using `tridentctl` to manage Astra Trident, you should ensure the `KUBECONFIG` environment variable is set. This is necessary to indicate the Kubernetes cluster that `tridentctl` should work against. When working with multiple Kubernetes environments, you should ensure that the `KUBECONFIG` file is sourced accurately.
- To perform online space reclamation for iSCSI PVs, the underlying OS on the worker node might require mount options to be passed to the volume. This is true for RHEL/RedHat CoreOS instances, which require the `discard` [mount option](#); ensure that the `discard` `mountOption` is included in your `StorageClass` to support online block discard.
- If you have more than one instance of Astra Trident per Kubernetes cluster, Astra Trident cannot communicate with other instances and cannot discover other volumes that they have created, which leads to unexpected and incorrect behavior if more than one instance runs within a cluster. There should be only one instance of Astra Trident per Kubernetes cluster.
- If Astra Trident-based `StorageClass` objects are deleted from Kubernetes while Astra Trident is offline, Astra Trident does not remove the corresponding storage classes from its database when it comes back online. You should delete these storage classes using `tridentctl` or the REST API.
- If a user deletes a PV provisioned by Astra Trident before deleting the corresponding PVC, Astra Trident does not automatically delete the backing volume. You should remove the volume via `tridentctl` or the REST API.
- ONTAP cannot concurrently provision more than one FlexGroup at a time unless the set of aggregates are unique to each provisioning request.
- When using Astra Trident over IPv6, you should specify `managementLIF` and `dataLIF` in the backend definition within square brackets. For example, `[fd20:8b1e:b258:2000:f816:3eff:feec:0]`.
- If using the `solidfire-san` driver with OpenShift 4.5, ensure that the underlying worker nodes use MD5 as the CHAP authentication algorithm.

Find more information

- [Astra Trident GitHub](#)
- [Astra Trident blogs](#)

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.