



Data protection administration

Amazon FSx for NetApp ONTAP

NetApp
September 02, 2024

Table of Contents

- Data protection administration 1
 - Update FSx for ONTAP backup schedule 1
 - Enable and edit snapshots for long-term retention 1
 - Reverse a replication relationship 2
 - Change the replication schedule of a source volume 2
 - Limit the max transfer rate of a replication relationship 3
 - Update snapshot data in a replication relationship 4
 - Stop a replication relationship 4
 - Delete a replication relationship 4

Data protection administration

Update FSx for ONTAP backup schedule

Update the FSx for ONTAP backup schedule when needed.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, click **Go to Storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update the backup schedule for and then select **Manage**.
4. Under Information, click the pencil icon next to **FSx for ONTAP backup**. The pencil icon appears next to the dropdown arrow when the mouse hovers over the **FSx for ONTAP backup** row.
5. In the **FSx for ONTAP backup** dialog, provide the following:
 - a. **Daily automatic backups**: Enable or disable the feature. If you disable the feature, click **Apply**. If you enable the feature, complete the following steps.
 - b. **Automatic backup retention period**: Enter the number of days to retain automatic backups.
 - c. **Daily automatic backup window**: Select either **No preference** (a daily backup start time is selected for you) or **Select start time for daily backups** and specify a start time.
 - d. **Weekly maintenance window**: Select either **No preference** (a weekly maintenance window start time is selected for you) or **Select start time for 30-minute weekly maintenance window** and specify a start time.
6. Click **Apply**.

Enable and edit snapshots for long-term retention

Enable snapshots for long-term retention lets you replicate specific snapshots for long-term disaster recovery.

Long-term retention enables business services to continue operating even through a complete site failure, supporting applications to fail over transparently using a secondary copy.

The same steps apply for enabling and editing snapshots for long-term retention.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship schedule to change.
6. Select **Edit long-term retention**.
7. In the Edit long-term retention dialog, enable or disable snapshots for long-term retention.
8. If you select to disable snapshots for long-term retention, click **Apply** to complete this operation.

9. If you select to enable snapshots for long-term retention, choose between selecting an existing policy or creating a new policy.
 - a. For an existing policy, select an existing policy from the dropdown menu.
 - b. To create a new policy, provide the following:
 - i. **Policy name:** Enter a policy name.
 - ii. **Snapshot policies:** Select one or more snapshot policies.
 - iii. **Copies to retain:** Enter the number of snapshot copies to retain on the target file system.
10. Click **Apply**.

Reverse a replication relationship

Reverse a replication relationship so that the target volume becomes the source volume.

After you stop replication and make changes to the target volume, you can replicate those changes back to the source volume. This process is common in a disaster recovery scenario in which you operate on the target volume for a while and want to switch roles of the volumes.

About this task

When you reverse and resume a replication, it switches the source and target roles of your volumes; the target volume becomes the new source volume, and the source volume becomes the new target volume. The reverse operation also overwrites the contents of the new target volume with the contents of the new source volume. If you reverse a replication twice, the original replication direction re-establishes.



Any data written to the original source volume between the last data replication and the time that the source volume is disabled is not preserved.

Before you begin

Make sure that you know the current and future roles of your source and target volumes because changes on the new target volume are overwritten with the new source volume. If used incorrectly, you can experience unintended data loss.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship to reverse.
6. Select **Reverse relationship**.
7. In the Reverse relationship dialog, click **Reverse**.

Change the replication schedule of a source volume

Change the replication schedule of the source volume in a replication relationship.

Choose how frequently snapshots from the source volume are transferred to the replicated volume to match your required point objectives (RPOs).

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship schedule to change.
6. Select **Edit replication interval**.
7. In the Edit replication interval dialog, select the frequency of snapshot transfer from the source volume. You may select between the following frequencies:
 - Every 5 minutes
 - Hourly
 - Every 8 hours
 - Daily
 - Weekly
8. Click **Apply**.

Limit the max transfer rate of a replication relationship

Limit the max transfer rate of a replication relationship. An unlimited transfer rate might negatively impact the performance of other applications and your network.

About this task

Limiting the max transfer rate is optional but recommended. Without a limit, network and application performance may decline.

Alternatively, we recommend an unlimited transfer rate for FSx for ONTAP file systems for critical workloads, for example, those that are used primarily for disaster recovery.

Before you begin

Consider how much bandwidth to allocate for replication.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship to limit the max transfer rate for.
6. Select **Edit max transfer rate**.
7. In the Edit max transfer rate dialog, select **Limited** and enter the max transfer limit in MB/s.

Alternatively, select **Unlimited**.

8. Click **Apply**.

Update snapshot data in a replication relationship

A replication relationship has a set replication schedule, but you can manually update snapshot data transferred between source and target volumes when needed.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship to update.
6. Select **Update now**.
7. In the Update dialog, click **Update now**.

Stop a replication relationship

When you stop a replication, scheduled replication updates from the source volume to the target volume pause. The target volume transitions from read-only to read-write.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.
3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship to stop.
6. Select **Break**.
7. In the Break replication dialog, select **Break**.

The replication status of the volume changes to **Broken**. The target volume becomes writable.

Delete a replication relationship

When you delete a replication relationship, it removes the replication relationship between the source and target volume. After the replication relationship deletes, both volumes continue to exist independently with the current data they contain.

When you delete a replication relationship, FSx for ONTAP also deletes the common replication snapshots of the source and target volume.

Steps

1. Log in to the [Workload Factory console](#)
2. In Storage, select **Go to storage inventory**.

3. In the **FSx for ONTAP** tab, click the three dots menu of the file system to update and then select **Manage**.
4. From the file system overview, select the **Replication relationships** tab.
5. In the Replication relationships tab, click the three dots menu of the replication relationship to delete.
6. Select **Delete**.
7. In the Delete relationship dialog, click **Delete**.

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.