



Manage file systems

Workload Factory for NetApp Console

NetApp
October 07, 2026

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Manage file systems

Adjust file system capacity in NetApp Workload Factory

Adjust the solid-state drive (SSD) storage capacity of an FSx for ONTAP file system to match the needs of workloads with varying active working sets in NetApp Workload Factory. Manually increase capacity when usage exceeds your threshold, or reduce it when you're not using the working sets to save money. Alternatively, enable automatic capacity management so Workload Factory adds incremental storage as needs change over time, removing the burden of manual monitoring.



Decreasing SSD storage capacity is only supported for second-generation file systems.

Adjust file system capacity manually

With elastic file system capacity, you can dynamically adjust the capacity of your file systems to match the needs of your workloads.

About this task

Changing file system capacity impacts IOPS for your FSx for ONTAP file system.

When you automatically [provision IOPS](#) for a file system, IOPS increases or decreases by 3 IOPS with every 1 GiB increase or decrease in SSD capacity.

When you [provision IOPS](#) manually, you might need to increase your IOPS allocation to support the increased file system capacity.

For SSD storage capacity limits, refer to [Quotas](#) in AWS FSx for NetApp ONTAP documentation.

Before you begin

To adjust capacity for a file system, you must first [disable automatic capacity management](#).

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads** > **Storage**.
3. From the Dashboard, select **Adjust SSD capacity**.
4. Select the file system you want to adjust capacity for and then select **Continue**.
5. In the Adjust SSD capacity dialog, enter a number for **Provisioned capacity**.
6. Select the unit for the provisioned capacity.
7. Select **Apply**.

Enable automatic capacity and inode management

Enable capacity and inode management to let NetApp Workload Factory automatically add incremental storage an FSx for ONTAP file system and inodes (files) to a volume as capacity needs change over time. These features remove the need to monitor capacity and inodes manually.

Only one account can manage these features.

Enable automatic capacity management and capacity notifications

Enable automatic capacity management to automatically add incremental storage up to the maximum size limit for an FSx for ONTAP file system. Set up notifications to get alerts when the file system reaches a certain capacity threshold.

About this task

Workload Factory scans the FSx for ONTAP file system every 30 minutes to check if incremental storage needs to be added.

The maximum amount of SSD storage capacity for all FSx for ONTAP file systems is 524,288 GiB. To request a quota increase, refer to [Quotas](#) in AWS FSx for NetApp ONTAP documentation.

Before you begin

Consider the following before you begin:

- You must [grant credentials with the view, planning, and analysis permission policy](#) in Workload Factory to complete this task.
- To make sure volume inodes increase along with storage capacity, you must associate a link. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.
- You shouldn't enable this feature during data migration because AWS imposes a minimum six-hour cool down period between SSD capacity increases. This restriction might delay adjustments, so plan accordingly.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage**.
3. From the Storage menu, select **Inventory**.
4. From **Inventory**, select the file system to enable automatic capacity for.

Locate the **Elasticity** graph that displays both the throughput and SSD capacity for the selected file system.

5. Select **SSD** and then select **Manage**.
6. Select the capacity management method. The options are incremental and adaptive modes.
 - **Incremental**: increases capacity by a fixed amount at thresholds.
 - **Threshold**: Set the threshold lower than the incremental increase to trigger a notification from the Workload Factory notification service. The default is 70%.

The threshold setting is available only if you [enabled the Workload Factory notification service](#).

- **Incremental increase**: Enter the maximum percentage increase for the FSx for ONTAP file system. The default is 80%.

This is the threshold at which Workload Factory triggers a job to increase the capacity. For example, if the file system reaches 80% of capacity, then Workload Factory increases capacity.

- **Adaptive:** predicts and changes capacity based on historical data.
 - **Look-back:** Set the analysis period in hours to determine how much historical data to consider for capacity predictions. The default is 120 hours.
 - **Plan ahead:** Set the buffer time in hours to ensure capacity is increased before it's actually needed. The default is 48 hours.

7. Select **Enable automatic capacity management** and the credentials *view, planning, and analysis* permissions.

Alternatively, disable the feature. If you need to increase file system capacity, you must first disable automatic capacity management.

8. Select **Enable capacity notifications** to turn on notifications when capacity reaches the threshold you set and whenever Workload Factory performs an automatic capacity increase. The default is 70%.

The capacity notification setting is available only if you [enabled the Workload Factory notification service](#) and when automatic capacity management is enabled.

9. Select **Apply**.

Result

A file system scan occurs every 30 minutes to determine whether it needs additional capacity.

Enable automatic inode management for a file system

Enable automatic inode management to increase the number of inodes (files) per volume up to the allowable limit.

About this task

Workload Factory scans the FSx for ONTAP file system every 30 minutes to verify available volume inodes and to check if incremental inodes need to be added. The count increases based on automatic inode management thresholds.



Terraform users: Terraform has a limitation that requires that all operations are completed within Terraform. Inode management isn't supported in Terraform, but you can enable automatic inode management in the Workload Factory console.

Before you begin

Consider the following before you begin:

- To manage volume inodes automatically, you must associate a link. [Learn how to associate an existing link or to create and associate a new link](#). After the link associates, return to this operation.
- Automatic inode management can be set up with a *warning threshold* that triggers a notification from the Workload Factory notification service. To use this feature, you must [enable the Workload Factory notification service](#) first.
- You must [grant credentials with the view, planning, and analysis permission policy](#) in Workload Factory to complete this task.

Steps

1. Log in to the [NetApp Console](#).

2. Select the menu , **Workloads > Storage > FSx for ONTAP**.

3. From the FSx for ONTAP page, select **Inventory**.
4. In the **Inventory**, select the actions menu of the file system to enable automatic inodes management for.
5. Select **Manage**.
6. Under Information, select the pencil icon next to **Automatic inodes management**. The pencil icon appears next to the drop down arrow when the mouse hovers over the **Automatic inodes management** row.
7. In the **Automatic inodes management** dialog, provide the following:
 - a. **Credentials**: Select credentials with *Automate* permissions from the dropdown menu.
 - b. Select the enable button to **Enable automatic inodes management**.

Alternatively, disable the feature. If you need to increase the number of inodes, you must first disable automatic inodes management.

- c. **Warning threshold**: Set the warning threshold lower than the threshold increase to trigger a notification from the Workload Factory notification service. The default is 70%.

The warning threshold setting is available only if you [enabled the Workload Factory notification service](#).

- d. **Threshold increase**: Enter the maximum percentage increase for the number of inodes (files) per volume. The default is 80%.
- e. **Incremental increase**: Enter the percentage to increase the number of inodes (files) incrementally. The default is 10%.

8. Select **Apply**.

Result

A file system scan occurs every 30 minutes to determine if the volumes need additional inodes (files) per volume.

Manage FSx for ONTAP file system settings in NetApp Workload Factory

Manage the settings of an FSx for ONTAP file system in NetApp Workload Factory. You can manage tags for the file system, reset the fsxadmin password when necessary, and update throughput capacity as needed.

Manage FSx for ONTAP file system tags

Tags can help you categorize your resources. You can add, edit, and remove tags for a file system at any time in NetApp Workload Factory.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage**.
3. From the Storage menu, select **Inventory**.
4. In the **Inventory**, select the actions menu of the file system to update and then select **Manage file system tags**.

5. In the **Manage file system tags** dialog, add, edit, or remove tags as needed.

The maximum number of tags you can apply to a file system is 50.

6. Select **Apply**.

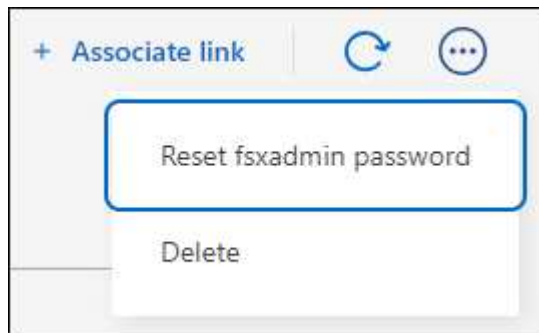
Reset the fsxadmin password of an FSx for ONTAP file system

Reset the fsxadmin password in NetApp Workload Factory when necessary.

If you provided an alternate user during file system creation, you can only reset the fsxadmin password in the AWS console.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage**.
3. From the Storage menu, select **Inventory**.
4. In the **Inventory**, select the actions menu of the file system to reset the fsxadmin password for and then select **Manage**.
5. From the file system overview, select the actions menu.



6. Select **Reset fsxadmin password**.
7. In the Reset fsxadmin password dialog, enter a new fsxadmin password and re-enter it to confirm.
8. Select **Apply**.

Update throughput capacity for an FSx for ONTAP file system

Update throughput capacity for an FSx for ONTAP file system in NetApp Workload Factory as needed.

For throughput capacity limits, refer to [Quotas](#) in AWS FSx for NetApp ONTAP documentation.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage**.
3. From the Storage menu, select **Inventory**.
4. In the **Inventory**, select the actions menu of the file system to update throughput capacity for and then select **Manage**.

5. Under Information, select the pencil icon next to **Throughput capacity**. The pencil icon appears next to the drop down arrow when the mouse hovers over the **Throughput capacity** row.
6. In the Throughput capacity dialog, select the throughput capacity you need.
7. Select **Apply** to save the changes

Provision SSD IOPS for an FSx for ONTAP file system

Automatically provision or manually provision SSD IOPS for an FSx for ONTAP file system in NetApp Workload Factory.

About this task

You can enable automatic SSD IOPS provisioning for an FSx file system or manually provision IOPS.

Automatically provisioned IOPS are calculated as three IOPS per GiB.

If you manually provision IOPS, you might need to increase IOPS before [increasing file system capacity](#).

For information about IOPS limits, refer to [Quotas](#) in AWS FSx for NetApp ONTAP documentation.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage > FSx for ONTAP**.
3. From **FSx for ONTAP**, select the actions menu of the file system to provision IOPS for and then select **Manage**.
4. Under Information, select the pencil icon that appears next to the dropdown arrow when the mouse hovers over the **IOPS allocation** row.
5. In the Provisioned IOPS dialog, select **Automatic** or **User provisioned**.
6. If you select **User provisioned**, enter the desired **IOPS value**.
7. Select **Apply**.

Delete a file system in NetApp Workload Factory

To delete a file system in NetApp Workload Factory, you must first delete any volumes, storage VMs, or replication relationships associated with the file system.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > Storage > FSx for ONTAP**.
3. From **FSx for ONTAP**, select the actions menu of the FSx for ONTAP file system you want to delete.
4. Select **Manage**.
5. In the **Overview** tab, select the actions menu.
6. Select **Delete**.
7. In the Delete FSx for ONTAP file system dialog, enter the name of the FSx for ONTAP file system to delete.

8. Select **Delete** to confirm.

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