File system administration

Amazon FSx for NetApp ONTAP

NetApp
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File system administration

Adjust file system capacity in Workload Factory

Manually adjust the solid-state drive (SSD) storage capacity of an FSx for ONTAP file system to meet the needs of your project-based workloads with varying active working sets.

Increase the SSD storage capacity of an FSx for ONTAP file system when the amount of used SSD storage capacity exceeds a threshold that you specify or decrease the SSD storage capacity when working sets are inactive to improve cost efficiency.

Alternatively, you can enable the automatic capacity management feature so Workload Factory manages file system capacity for you.

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

About this task

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

Adjusting 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 using one of the console experiences.
2. Select the menu and then select **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 for a file system

Enabling automatic capacity and inode management lets NetApp Workload Factory

automatically add incremental storage or inodes to an FSx for ONTAP file system as capacity needs change over time. Additionally, enabling this feature removes the need to monitor capacity and inodes manually.

About this task

A scan of the FSx for ONTAP file system occurs every 30 minutes to determine whether incremental storage needs to be added and to check for available volume inodes, the maximum number of files and folders in a volume, so that their count increases according to the configured automatic capacity management thresholds.

Only one account can manage this feature.

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.

Enable automatic capacity management

Enable automatic capacity management to automatically add incremental storage up to the maximum size limit for an FSx for ONTAP file system.

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

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

e. **Incremental increase**: Enter the percentage to increase capacity incrementally. The default is 10%.

   This is the percentage we increase capacity each time the threshold is reached. For example, if the file system is 80% full and the incremental increase is set to 10%, then Workload Factory increases the capacity by 10%.

8. Select **Apply**.

Result

A file system scan occurs every 30 minutes to determine if the file system needs additional capacity.

Enable automatic inode management

Enable automatic inode management to make sure that the file capacity per volume scales up by increasing the number of inodes (files) up to the allowable limit.

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 using one of the console experiences.
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, 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 tags in NetApp Workload Factory

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 using one of the console experiences.
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, 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**.

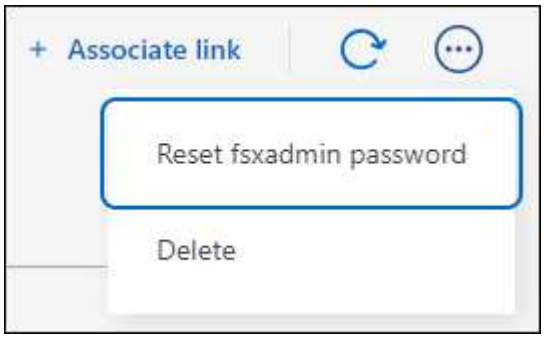
Reset the fsxadmin password in NetApp Workload Factory

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 using one of the console experiences.
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, 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**.

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 using one of the console experiences.
2. Select the menu and then select **Storage**.
3. From the Storage menu, select **FSx for ONTAP**.
4. From **FSx for ONTAP**, select the actions menu of the FSx for ONTAP file system you want to delete.
5. Select **Manage**.
6. In the **Overview** tab, select the actions menu.
7. Select **Delete**.
8. In the Delete FSx for ONTAP file system dialog, enter the name of the FSx for ONTAP file system to delete.
9. Select **Delete** to confirm.

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