



EDA storage overview

Workload Factory for NetApp Console

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EDA storage overview

Learn about the Overview dashboard in Workload Factory for EDA

The Overview dashboard gives IT administrators one place to monitor EDA workloads across multiple FSx for ONTAP file systems. Use it to quickly check system health and usage, choose where to place new volumes or jobs, find volumes or SVMs that may need to be moved, and see when it's time to increase capacity or throughput.

Overview

The Overview dashboard collects CloudWatch metrics for all FSx for ONTAP file systems associated with your configured AWS credentials.

It includes:

- **Cluster health status:** A summary at the top highlights latency events, SSD usage, throughput mode status, capacity recommendations, and ONTAP EMS events across your file systems.
- **Clusters table:** A searchable table that shows usage and performance for each cluster. You can filter and sort the data, move between pages, and export it as a CSV file.

It helps you:

- Place new volumes and rebalance workloads
- Plan capacity or throughput scaling
- Monitor cluster health at scale
- Make informed decisions about volume placement
- Identify clusters approaching capacity limits

Dashboard components

Cluster health status

Cluster health shows a quick view of activity across the file systems you selected. This appears only if at least one FSx for ONTAP link is connected to your file systems.

The health status includes the following areas:

Latency

Shows the number of latency events found in the selected file systems. This information appears only if latency monitoring is enabled.

File system elasticity

- **SSD capacity:** Shows how many file systems use Automate, Recommend, or None to manage SSD capacity.
- **Throughput:** Shows how many file systems use Automate, Recommend, or None to manage throughput.

ONTAP events

Displays the number of EMS events detected, categorized by Capacity, Availability & protection, and Security & other.

Clusters table

The clusters table provides a detailed view of each FSx for ONTAP file system, filtered by your active region and AWS account selections. Data is collected from CloudWatch metrics.

Use the table to:

- Identify file systems approaching capacity limits (SSD usage column)
- Compare throughput demand to provisioned throughput SKU (Throughput usage P99 column)
- Track performance metrics across multiple clusters
- Check link configuration status (Associated link column) - Connection validity is verified daily
- Select multiple clusters for bulk parameter updates

Select a file system to open cluster details, including cluster information, SSD capacity values, and the SSD Capacity Over Time graph.

SSD capacity management

Management modes

Notify only (Recommend mode)

Workload Factory analyzes how you use your SSDs and suggests when to increase capacity. You review these suggestions and decide whether to apply them. This keeps you in full control of capacity changes while still benefiting from automated analysis.

Automate

Workload Factory automatically adds more SSD space when usage reaches set limits. It handles this on its own, so no manual work is needed. This works well for environments that prefer automatic management.

None

If you have not enabled SSD capacity management, the system does not make capacity recommendations or take automated actions. Use this option if you want to manage capacity yourself.

SSD management parameters

Parameters control how the capacity management system analyzes and acts on your SSD usage:

Threshold (10-90%)

The SSD usage percentage that triggers capacity recommendations or automation actions. For example, a threshold of 80% means recommendations or actions occur when SSD usage reaches 80%. This setting is available in both Recommend and Automate modes.

Lookback (1-200 hours)

The time period used to analyze historical SSD usage patterns. A longer lookback period provides more historical context for capacity decisions. Available in Automate mode only.

Lookahead (1-200 hours)

The time period used to project future capacity needs. A longer ahead period plans further into the future for capacity growth. Available in Automate mode only.

You can set these parameters for each file system individually, or use bulk editing to apply the same settings to multiple file systems.

Throughput management

You can configure elastic throughput increase behavior for one or multiple file systems.

Management modes

Notify only (Recommend mode)

Workload Factory evaluates throughput pressure and provides recommendations for you to apply.

Automate

Workload Factory increases throughput automatically when configured conditions are met.

None

If you have not enabled Throughput management, the system does not make recommendations or take automated actions. Use this option if you want to manage capacity yourself.

Throughput parameters

The throughput configuration dialog includes:

- **Utilization threshold** (50-100%, default 80%): Throughput utilization percentage that triggers recommendations or automation.

Advanced throughput parameters are available in an expandable **Advanced configuration** section.

- **Evaluation window (hours)** (12-72 hours, default 24)
- **Breached metrics (%)** (default 66%): Percentage threshold for determining breach
- **Consecutive breach window (hours)** (1-5 hours, default 2)
- **Consecutive breach metrics (%)** (default 95%)
- **Minimum latency (ms)** (default 10 ms)
- **Maximum throughput SKU** (default None)

File system elasticity recommendations

When Workload Factory is in Automate or Recommend mode, it automatically checks each FSx for ONTAP file system and runs a capacity recommendation algorithm. The system scans periodically to see if SSD capacity or throughput should be adjusted.

When a recommendation is identified:

- You receive an immediate notification based on your Workload Factory notification settings.
- Identify file systems with recommendations by filtering the Clusters table.
- The interface shows the total number of file systems that currently have active recommendations.

The recommendation explains the suggested change and the reasoning behind it, such as: *We recommend increasing the SSD size based on your file system SSD usage pattern.*

Notifications are sent for storage capacity events, including recommendations, successful capacity increases, warning alerts, and errors during capacity checks or increase operations. Error notifications explain the cause, such as missing permissions, a file system update already in progress, an AWS waiting period after a recent storage change, reaching the maximum capacity, or unavailable CloudWatch data.

Understanding capacity decision points

The SSD usage graph marks when the system made capacity recommendations or took automated actions. These markers show how the capacity management algorithm behaved over time.

Recommendation decision points

Appear when the system detects that more SSD capacity is needed. If capacity has not been increased, these points might appear as often as every 30 minutes. The graph shows each decision point when possible. If the selected time range is too dense, the points are grouped together.

Automation decision points

Appear when the automation system tries to increase SSD capacity. They show whether the action succeeded or failed.

Use the SSD usage history graph to:

- See how often you need to change storage size
- Decide whether automation or recommendation mode fits your usage patterns better
- Spot repeated storage shortages
- Plan future storage needs based on growth over time
- Investigate why automation attempts failed

Related information

- [Activate the Overview dashboard](#)
- [Use the Overview dashboard](#)

Activate the Overview dashboard in Workload Factory for EDA

Activate the Overview dashboard to start collecting CloudWatch metrics for your FSx for ONTAP file systems. The dashboard lets you see cluster health, capacity, and throughput in one place.

Before you begin

Ensure you meet the following requirements before activating the dashboard.

AWS credentials with view permissions

You must configure AWS credentials in Workload Factory with at least read (view) permissions for General Storage. *View, planning, and analysis* credentials are not supported because they don't include the necessary

read permissions for CloudWatch metrics.

If you haven't configured credentials with view permissions, you are redirected to the AWS credentials setup page when you open the Overview tab.

If you haven't configured AWS credentials, see [Add AWS credentials](#).

Activate the dashboard

After Workload Factory verifies credentials with view permissions, activate the dashboard to start collecting CloudWatch metrics for your FSx for ONTAP file systems.



After you give consent, collecting metrics can take a little time. The dashboard will notify you while the first collection is in progress.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > EDA**.
3. Select the **Overview** tab.
4. If no credentials with view permissions are detected, select **Add credentials** and follow the prompts to configure AWS credentials with view permissions. Then return to the **Overview** tab.
5. Review the consent prompt describing the CloudWatch metrics that will be collected for your FSx for ONTAP file systems.
6. Select **Activate** to activate the dashboard and begin metrics collection.

Result

Workload Factory starts collecting CloudWatch metrics for all FSx for ONTAP file systems linked to your AWS credentials. The dashboard populates as the metrics become available. A notification appears while data collection is still in progress.

Next steps

After activating the dashboard, you can:

- [Use the Overview dashboard](#) to monitor cluster health and capacity
- [Enable and configure SSD capacity management modes](#) (Recommend, Automate, or None)
- [Enable and configure throughput management modes](#) (Recommend, Automate, or None)
- Set up filters to focus on specific regions or AWS accounts

Use the Overview dashboard in Workload Factory for EDA

Use the Overview dashboard to check the health and capacity of your FSx for ONTAP file systems. You can filter the data, see capacity recommendations, adjust SSD and throughput settings, and review performance trends to help decide where to place volumes and when to scale capacity.

Before you begin

You must have [activated the Overview dashboard](#) before you can use it to monitor your file systems.

Filter the dashboard

Use the filters at the top of the dashboard to view specific file systems. The filters apply to the latency, utilization, ONTAP events sections, and the clusters table.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > EDA**.
3. Select the **Overview** tab.
4. Use the available filters to narrow your view:
 - **AWS accounts**: Filter by one or more AWS accounts associated with your configured credentials
 - **Credentials**: Filter by specific AWS credentials if you have multiple configured
 - **Regions**: Filter by one or more AWS regions
5. When you update the filter selections, all information is refreshed to show only the matching file systems.

View cluster health status

At the top of the dashboard, you see a summary of health and activity for the file systems you selected. This appears only when at least one FSx for ONTAP link is connected to your file systems.

About this task

The cluster health status includes the following key areas:

- **Latency**: Number of latency events detected
- **File system elasticity**:
 - **SSD capacity**: Shows how many file systems use Automate, Recommend, or None to manage SSD capacity.
 - **Throughput**: Shows how many file systems use Automate, Recommend, or None to manage throughput.
- **ONTAP events**: Number of EMS events by category (Capacity, Availability & protection, Security & other)

Steps

1. Review the cluster health status at the top of the dashboard.
2. To view latency events:
 - Select **Review** to navigate to the **Latency** tab
 - If latency monitoring is not configured, select **Configure** to set up latency thresholds

For details on latency monitoring, see [Configure latency monitoring](#).

3. To view ONTAP events for your FSx for ONTAP file systems, select **Review**.

The ONTAP events view card displays the number of EMS events by category (Capacity, Availability &

protection, and Security & other). For a full list of EMS events monitored, see [ONTAP CLI documentation](#).

View and apply capacity or throughput recommendations

Workload Factory automatically runs recommendations for each FSx for ONTAP file system. You can find file systems with recommendations by filtering the Clusters table.

Steps

1. In the **Clusters** table, filter by the relevant time or details columns.

File systems with capacity or throughput recommendations appear at the top of the table.

2. Select a file system name in the table to open cluster details.
3. Review the recommendation and graph.

The recommendation explains the suggested change and the reasoning behind it. For example: *We recommend increasing the SSD size based on your file system SSD usage pattern.*

The graph presents current usage alongside historical trends.

4. On the top right of the graph, select the time range to change the period displayed.

The graph also displays recommendation decision points and automation decision points (if automation mode is enabled). Hover over any decision point to see details about the capacity recommendation or automation action at that moment.

5. To apply the recommendation, follow the guidance provided in the recommendation message.

Change SSD management mode

For each file system, choose how SSD capacity is managed: receive manual recommendations or allow automatic scaling.

Steps

1. In the Clusters table find the file system name. Next to it, open  and select **Change SSD capacity management**.
2. Select **Enable SSD capacity management** and then select **Apply**.
3. Choose your preferred mode:
 - **Notify only (Recommend mode)**
 - **Automate**
4. Configure the SSD capacity management parameters:
 - **Threshold (%)**: SSD usage percentage that triggers a recommendation
 - **Lookback (%)**: Historical usage data period for analysis
 - **Lookahead (%)**: Projected usage for future capacity planning
5. Select **Apply**.

Result

The file system switches to the new mode right away. If you choose Recommend or Automate, the system uses the set settings to analyze storage capacity and make decisions.

Change throughput management mode

For each file system, choose how throughput increase is managed.

Steps

1. In the **Overview** tab, select one or more file systems in the Clusters table.
2. Select **Change throughput management**.
3. Select **Enable throughput management** and then select **Apply**.
4. Choose your preferred mode:
 - **Notify only (Recommend mode)**
 - **Automate**
5. In the dialog, configure the throughput management parameters:
 - **Evaluation window (hours)**: Time period for analyzing throughput patterns
 - **Breached metrics (%)**: Percentage threshold for determining breach
 - **Consecutive breached window (hours)**: Duration of consecutive breaches before action
 - **Minimum latency (ms)**: Latency threshold used to determine throughput increase
 - **Maximum throughput (SKUs)**: Maximum throughput SKU allowed
6. Select **Apply**.

Result

The selected file systems switch to the new throughput mode immediately.

Bulk edit management parameters

Change settings for several file systems at once so the same settings apply across your clusters.

Steps

1. From the **Overview** tab, select the file systems you want to edit in the table.



You can select individual file systems or use the header checkbox to select all visible file systems.

2. Select **Change SSD capacity management** or **Change throughput management** above the table.
3. Choose your preferred mode.
4. In the edit dialog, adjust the parameters as needed.

Each parameter field includes a tooltip describing its purpose and valid range. The dialog indicates the current values or defaults based on your selection.

5. Select **Apply** to apply the changes to all selected file systems.

Result

The parameters are updated for all selected file systems. File systems in Recommend or Automate mode use the new parameters immediately for analysis and decision-making.

Analyze capacity trends and decision points

Use the SSD usage graph to see how storage use changes over time and spot patterns.

About this task

Decision points on the graph indicate when:

- **Recommendation decision points:** The capacity recommendation algorithm identified that additional SSD capacity is needed.
- **Automation decision points:** The automation system tried to increase SSD capacity. These points show whether the action succeeded or failed.

Steps

1. From the **Overview** tab, select a file system name in the table.
2. Review the SSD usage graph showing historical capacity trends.
3. Select different time ranges to view capacity behavior over various periods.
4. Hover over decision points on the graph to view details about recommendations or automation actions at specific moments.
5. Use the insights from the graph to:
 - Understand how frequently capacity adjustments are needed
 - Evaluate whether automation or recommendation mode better fits your workload patterns
 - Identify recurring capacity constraints
 - Plan for future capacity needs based on growth trends
 - Troubleshoot failed automation attempts

Common failure reasons include: insufficient AWS permissions, file system update already in progress, storage modified within the last 6 hours, maximum SSD capacity reached, or CloudWatch metrics unavailable.

Use the clusters table

The clusters table gives a detailed view of each FSx for ONTAP file system with performance and usage metrics.

Steps

1. From the **Overview** tab, review the clusters table.
2. Use the search box to find specific file systems by name.
3. Select column headers to sort the data.
4. Use **SSD usage** to identify file systems approaching capacity limits.
5. Use **Throughput usage (P99)** to compare throughput demand to the provisioned throughput SKU.

Hover over throughput column headers for calculation details.

6. To customize columns, select the column settings icon and choose which columns to display.
7. To export data, select the export icon to download a CSV file.

Best practices

Consider these recommendations when using the Overview dashboard:

- **Regular monitoring:** Check the dashboard often to spot trends before they become problems.
- **Set clear thresholds:** Choose SSD usage thresholds and throughput parameters that fit your workload and capacity plans.
- **Use filters:** Apply region and account filters to focus on the parts of your infrastructure you want to review.
- **Review recommendations quickly:** Filter the Clusters table to find file systems with capacity or throughput recommendations. Check and act on them to avoid running out of space.
- **Pick the right mode:** Use **Recommend** mode if you want to approve capacity or throughput changes yourself. Use **Automate** mode if you want the system to manage capacity or throughput automatically.
- **Watch decision points:** Check decision points on capacity graphs to see how the system is making decisions and confirm the settings work for your needs.
- **Edit in bulk:** When managing many file systems, use bulk editing to keep settings consistent.

Related information

- [Learn about the Overview dashboard](#)
- [Activate the Overview dashboard](#)
- [Configure latency monitoring](#)

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