



Project usage analysis

Workload Factory for NetApp Console

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Project usage analysis

Learn about the Projects dashboard in Workload Factory for EDA

The Projects dashboard lets IT admins and project managers see how projects use storage across FSx for ONTAP file systems and volumes. It shows storage usage patterns so you can spot projects using the most resources, track costs, and adjust storage before capacity or performance problems affect EDA simulations.

How the Projects dashboard works

The Projects dashboard shows CloudWatch metrics for all FSx for ONTAP volumes linked to your AWS credentials. You can create up to five filters using AWS tags to organize and view the data by project, team, application, or other categories.

The dashboard helps you:

- Plan capacity and understand costs
- Use data to decide how to assign resources
- Spot projects that use a lot of resources
- Track costs by project or team
- Adjust storage before problems occur

For proactive latency performance monitoring, see [Learn about latency monitoring](#).

CloudWatch metrics collected

The dashboard collects and displays the following CloudWatch metrics:

- **Provisioned capacity:** Volume-level metric representing the provisioned storage capacity.
- **Used capacity:** Volume-level metric representing the storage used.
- **Average/Maximum throughput:** Calculated as the average or maximum of the sum of DataReadBytes and DataWriteBytes over the specified time period.
- **Average/Maximum IOPS:** Calculated as the average or maximum of the sum of DataReadOperations, DataWriteOperations, and MetadataOperations over the specified time period.

Custom filters

Custom filters help you organize dashboard data to match how your organization works. Set filters by project, team, or cost center so you can quickly find the data you need without sorting through unrelated information. This makes it easier to plan capacity, track costs, and monitor performance.

You can configure up to five custom filters based on your AWS tags.

- **Filter label name:** The display name that appears in the dashboard
- **AWS tag key name:** The actual AWS tag key used on your resources

- **Selection type:** Single selection or multi-selection

If you don't configure any custom filters, the default filters—file system, volume type, and time range—will still be available, so you can view and use your dashboards.

AWS tags

AWS tags are metadata for your AWS resources. They help you categorize your AWS resources in different ways, for example, by project, application, or business unit.

To use custom filters, add AWS tags to your FSx for ONTAP volumes that match your needs, such as tags for projects, teams, or business units.

For more details about tagging, see [What are tags?](#) and [AWS Resource Groups Tagging API Reference](#).

Volume details

The dashboard provides viewing modes to help you analyze your storage metrics at different levels of detail.

Total view

The Total view (default) shows combined metrics for all volumes that match your selected filters. It gives you a quick overview of overall storage performance, including total capacity, IOPS, and throughput.

Use this view to:

- Understand overall trends
- Plan for future capacity needs
- Report on total resource consumption across projects or teams

Volume view

The Volume view shows how individual volumes perform over time. It displays the top 10 volumes for each metric. This helps you see which volumes use the most resources and how they behave during the selected time period.

Use this view to:

- Find what is slowing performance
 - Identify storage volumes that might need to be resized
 - See which projects or workloads are using the most resources

Volume metrics displayed

When you view individual volumes, the dashboard displays the top 10 volumes out of your total number of volumes for each metric:

- **Volume used capacity:** Shows volumes with the highest current used capacity.
- **IOPS:** Shows volumes with the highest average IOPS during the selected time period.
- **Throughput:** Shows volumes with the highest average throughput during the selected time period.



The dashboard displays only the top 10 volumes for each metric. If you have more than 10

volumes, some volumes might not be displayed in the detailed view.

When the same volumes appear in multiple metrics, the dashboard uses the same colors in the legend so you can easily follow those volumes across different metrics.

Interactive volume data

Hover over the chart to see exact values at specific times. This helps you link performance changes to events or time periods. The detailed data can help you find performance problems, confirm that optimizations worked, and explain resource usage to others.

When you hover over any volume line in the graphs, you can view:

- **Volume used capacity:** Volume name, used capacity at that point in time, and allocated capacity
- **IOPS:** Volume name, average IOPS for the time range, and maximum IOPS for the time range
- **Throughput:** Volume name, average throughput for the time range, and maximum throughput for the time range

Related information

- [Configure the Projects dashboard](#)
- [Use the Projects dashboard](#)

Configure the Projects dashboard in Workload Factory for EDA

Set up custom filters on the Projects dashboard to organize data in a way that matches how your business works, such as by project, team, or cost center. This makes it easier to see costs clearly, spot which resources use the most capacity, and make better decisions about budgets and staffing. When the filters match your organization's structure, you can quickly find the data you need and manage capacity, costs, and performance more efficiently.

Before you begin

To use custom filters, add AWS tags to your FSx for ONTAP volumes based on your needs, such as tags for projects, teams, or business units.

Configure custom filters



Only the first admin who opens the Projects dashboard can create, change, or delete custom filters. All other users, including other admins, can only view the filters.

About this task

You can configure up to five custom filters using your AWS tags. Each filter needs the following: a filter label, an AWS tag key, and a selection type (single or multiple).

If you don't configure any custom filters, the default filters, file system, volume type, and time range, will still be available, so you can continue to view and use your dashboards.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > EDA**.
3. Select **Projects**.

If you have not already configured your dashboard, you are automatically prompted to do so.

4. Select **Add filters**.
5. For each custom filter you want to create, add the details:
 - Filter label name (the display name in the dashboard)
 - AWS tag key name (the actual tag key used on your resources)
 - Selection type (single or multi-selection)



Filters appear on the dashboard in the order you set them. Put the filters you use most at the top so they're easier to access.

6. Select **Apply**.

You can delete a custom filter by selecting the trash icon next to that filter before applying your changes.

7. To view your changes after applying any tags or filters, select the refresh icon on the dashboard.
8. To edit the dashboard configuration later, select **Configure**.

Result

When you apply these tags, Workload Factory starts collecting and showing the related CloudWatch metrics. Your dashboard then helps you organize resources, track costs, and filter items based on your needs.

Related information

- [Learn about the Projects dashboard](#)
- [Use the Projects dashboard](#)

Use the Projects dashboard in Workload Factory for EDA

Use the Projects dashboard to track storage use across your FSx for ONTAP file systems and volumes. Filter the data by project, team, or application. View both overall and per-volume performance to help plan capacity and use resources more efficiently.

Before you begin

You should have [configured custom filters](#) for the Projects dashboard. If you haven't configured custom filters, you can still use the default filters (file system, volume type, and time range).

Filter the dashboard

Filtering lets you focus on specific groups of storage resources. This makes it easier to spot trends, find problems, and create reports for stakeholders. By using multiple filters together, you can answer targeted

questions such as: “How much storage is the ASIC project team using?” or “Which volumes in the US-West region have the highest IOPS?”

About this task

You can filter the information displayed on the dashboard using a combination of default filters and any custom filters you configured.

Steps

1. Log in to the [NetApp Console](#).
2. Select the menu , **Workloads > EDA**.
3. Select **Projects**.
4. Select the filters you want to apply from the available options:
 - Default filters (file system, volume type, time range)
 - Any custom filters you configured
5. Select the refresh icon to update the dashboard information based on your filter selections.
6. For an explanation of the information shown on a card, select the information icon for that card.

View volume details

Looking at both total volume performance and individual volumes helps you plan capacity and improve performance. The Total view shows overall trends. The Volume view helps you find specific volumes that may need attention, tuning, or more resources.

View aggregated volume metrics

The Total view shows combined metrics for all volumes that match your filters.

Steps

1. Open the **Projects** tab and make sure the **Total** tab is selected. This is the default view.
2. Review the metrics displayed:
 - Combined capacity across all volumes
 - Aggregated IOPS
 - Aggregated throughput
3. Use this view to see trends and plan how much capacity you'll need in the future.

View individual volume performance

The Volume view shows how each volume performs over time. It highlights the top 10 volumes for each metric.

Steps

1. In the **Projects** tab, select the **Volume** tab.
2. Review the volume metrics:
 - **Volume used capacity**: Shows volumes with the highest current used capacity
 - **IOPS**: Shows volumes with the highest average IOPS during the selected time period
 - **Throughput**: Shows volumes with the highest average throughput during the selected time period



If you have more than 10 volumes, the rest will not appear in the detailed view.

3. Hover over any volume line in the graphs to view detailed information:

- **Volume used capacity:** Volume name, used capacity at that point in time, and allocated capacity
- **IOPS:** Volume name, average IOPS for the time range, and maximum IOPS for the time range
- **Throughput:** Volume name, average throughput for the time range, and maximum throughput for the time range

4. Use the legend to identify each volume. The same volumes use the same colors across all metrics so you can track them easily.

Result

Use this data to:

- Analyze usage patterns
- Spot possible bottlenecks
- Find volumes that might need to be resized
- See which projects or workloads use the most resources

Best practices

Consider these recommendations when using the Projects dashboard:

- Check the dashboard regularly to spot patterns before they turn into problems.
- Use several filters at the same time to answer specific questions about how resources are being used.
- Look at both views: use Total to plan capacity and Volume to find and fix issues.
- Change the time range to see whether changes are normal or part of a growing trend.
- Record normal performance levels so it's easier to spot unusual behavior later.
- Use what you learn from the data to adjust resources, resize volumes, or improve performance before workloads are affected.

Related information

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

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