



# **Descriptions of the Performance Explorer pages**

## **OnCommand Unified Manager 9.5**

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# Descriptions of the Performance Explorer pages

You use the Performance Explorer pages to view detailed performance information about each of the available storage object; such as clusters, aggregates, volumes, and so on. These pages enable you to assess the overall performance of all objects and compare object performance data in a side-by-side format.

## Performance/Cluster Explorer page

The Performance/Cluster Explorer page provides a detailed performance overview of all the clusters that are managed by Unified Manager.

The Performance/Cluster Explorer page enables you to track cluster performance and compare the objects within that cluster during a specific time period, which helps in troubleshooting and fine-tuning the performance of a cluster.

Using the View and Compare functionality you can compare the performance of the cluster with:

- the nodes on this cluster
- the storage virtual machines (SVMs) of this cluster
- the aggregates on this cluster

The Performance/Cluster Explorer page enables you to:

- View threshold-related issues and their details
- Track cluster performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Performance/Node Explorer page

The Performance/Node Explorer page provides a detailed performance overview of all nodes within a cluster.

The Performance/Node Explorer page enables you to track and compare node performance during a specific time period, which helps you to troubleshoot and fine-tune the performance of your nodes.

Using the View and Compare functionality you can compare the performance of this node with:

- other nodes on the same cluster
- the aggregates on the node
- the ports on the node

The Performance/Node Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare node performance data

- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Performance/Aggregate Explorer page

The Performance/Aggregate Explorer page provides a detailed performance overview of all the aggregates in a cluster.

The Performance/Aggregate Explorer page enables you to track and compare aggregate performance during a specific time period, which helps in troubleshooting and fine-tuning the performance of an aggregate.



Root aggregates are not displayed on this page.

Using the View and Compare functionality you can compare the performance of this aggregate with:

- other aggregates on the same node
- other aggregates on the same cluster
- the node on which the aggregate resides
- all nodes on the cluster that is using this aggregate
- the volumes that reside on this aggregate

The Performance/Aggregate Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare aggregate performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Performance/Volume or Performance/FlexGroup Explorer page

This page provides detailed performance information for a volume in a cluster. The title of this page depends on whether you are viewing a FlexVol volume or a FlexGroup volume.

The Volume or FlexGroup Explorer page enables you to track and compare volume performance during a specific time period, which helps you to troubleshoot and fine-tune your volume performance.



Root volumes are not displayed on this page.

Using the View and Compare functionality:

- For FlexVol volumes, you can compare the performance of this volume with:
  - other volumes on the same aggregate
  - the aggregate on which this volume resides
  - the SVM on which this volume resides

- the LUNs that are on this volume
- For FlexGroup volumes, you can compare the performance of this FlexGroup with:
  - the aggregates on which the FlexGroup resides
  - the SVM on which the FlexGroup resides
  - the constituent volumes of the FlexGroup

The statistics in the charts are updated after each collection period; which by default is every 5 minutes. The View statistics in selector provides an option to show statistics averaged over the previous hour. This functionality enables you to view the latency chart in support of the NetApp “Performance Guarantee” program.

The Performance/Volume Explorer or Performance/FlexGroup Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare volume performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues
- Launch System Manager to make a configuration change to the volume

The **Configure Volume** button is available if you are logged in to Unified Manager with the OnCommand Administrator or Storage Administrator role, and when using ONTAP 9.5 or greater.



For data protection (DP) volumes, only counter values for user-generated traffic are displayed. When the cluster is installed with a version of ONTAP software prior to 8.3, no counter values are displayed.

## Performance/Constituent Volume Explorer page

The Performance/Constituent Volume Explorer page provides detailed performance information for the selected FlexGroup constituent.

The Performance/Constituent Volume Explorer page enables you to track and compare constituent performance during a specific time period, which helps in troubleshooting and fine-tuning the performance of a FlexGroup volume and its constituent volumes.

Using the View and Compare functionality you can compare the performance of this constituent volume with:

- the aggregate on which this constituent volume resides
- the SVM on which this constituent volume resides
- the FlexGroup volume to which the constituent volume belongs
- other volumes that are on the same aggregate

The Performance/Constituent Volume Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare constituent performance data
- Investigate and troubleshoot threshold-related issues

- Investigate and troubleshoot performance issues



For data protection (DP) volumes, only counter values for user-generated traffic are displayed. When the cluster is installed with a version of ONTAP software prior to 8.3, no counter values are displayed.

## Performance/Port Explorer page

The Performance/Port Explorer page provides a detailed performance overview of all ports in a cluster.



Performance counter values are displayed for physical ports only. Counter values are not displayed for VLANs or interface groups.

The Performance/Port Explorer page enables you to track and compare port performance during a specific time period, which helps you to troubleshoot and fine-tune your port performance.

Using the View and Compare functionality you can compare the performance of this port with:

- other ports on the same node
- the node on which the port resides
- LIFs that are on the port



Only cluster and data LIFs are displayed when filtering using the “LIFs on this port” option. No intercluster LIFs are shown.

The Performance/Port Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare port performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Performance/SVM Explorer page

The Performance/SVM Explorer page provides a detailed performance overview of all the storage virtual machines (SVMs) in a cluster.

The Performance/SVM Explorer page enables you to track and compare SVM performance during a specific time period, which helps you to troubleshoot and fine-tune your SVM performance.

Using the View and Compare functionality you can compare the performance of this SVM with:

- other SVMs on the same cluster
- the volumes on this SVM
- the LIFs on this SVM

The Performance/SVM Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare SVM performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Performance/LUN Explorer page

The Performance/LUN Explorer page provides a detailed overview of the performance of all the LUNs within a cluster.

The Performance/LUN Explorer page enables you to track and compare LUN performance during a specific time period, which helps you to troubleshoot and fine-tune the performance of your LUNs.

Using the View and Compare functionality you can compare the performance of this LUN with:

- other LUNs that are on the same volume
- the volume on which the LUN resides

The statistics in the charts are updated after each collection period; which by default is every 5 minutes. The View statistics in selector provides an option to show statistics averaged over the previous hour. This functionality enables you to view the latency chart in support of the NetApp “Performance Guarantee” program.

The Performance/LUN Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare LUN performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues

## Namespace Explorer page

The Namespace Explorer page provides a detailed overview of the performance of all the Namespaces within a cluster.

The Namespace Explorer page enables you to track and compare Namespace performance during a specific time period, which helps you to troubleshoot and fine-tune the performance of your Namespaces.

Using the View and Compare functionality you can compare the performance of this Namespace with:

- the volume on which the Namespace resides
- other Namespaces that are on the same volume
- other Namespaces that are on the same SVM

The Namespace Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare Namespace performance data

- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues
- Launch System Manager to make a configuration change to the Namespace

The **Configure Namespace** button is available if you are logged in to Unified Manager with the OnCommand Administrator or Storage Administrator role, and when using ONTAP 9.5 or greater.

## Performance/LIF Explorer page

The Performance/LIF Explorer page provides a detailed performance overview for all of the LIFs within a cluster.

The Performance/LIF Explorer page enables you to track and compare LIF performance during a specific time period, which helps you to troubleshoot and fine-tune your LIF performance.

Using the View and Compare functionality you can compare the performance of this LIF with:

- other LIFs that are on the same port
- other LIFs that are on the same SVM
- the port on which the LIF resides
- the SVM on which the LIF resides

The Performance/LIF Explorer page enables you to:

- View threshold-related issues and their details
- Track and compare LIF performance data
- Investigate and troubleshoot threshold-related issues
- Investigate and troubleshoot performance issues



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