

Graphical interface and navigational paths

Active IQ Unified Manager

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Graphical interface and navigational paths

Unified Manager has great flexibility and enables you to accomplish multiple tasks in various ways. There are many navigation paths you will discover as you work in Unified Manager. While not all of the possible combinations of navigations can be shown, you should be familiar with a few of the more common scenarios.

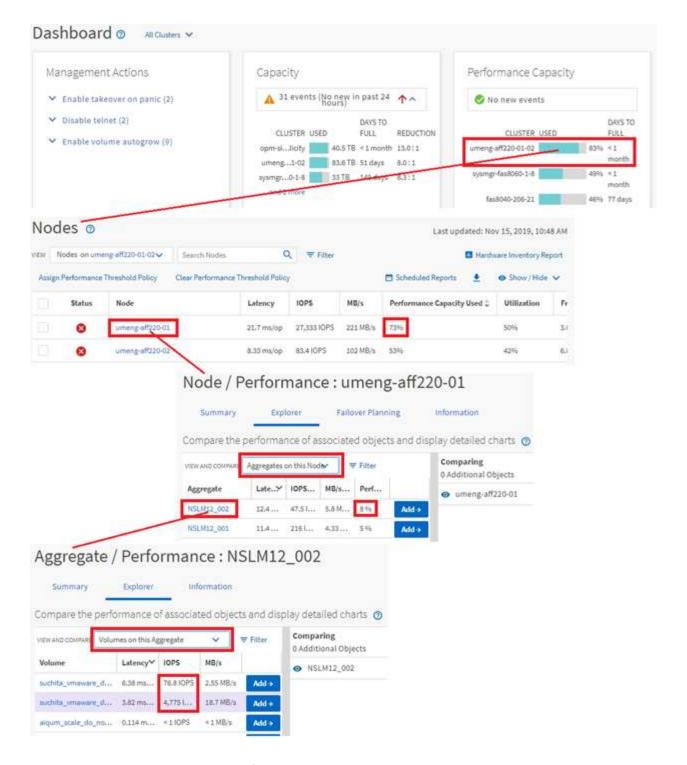
Monitor cluster object navigation

You can monitor the performance of all objects in any cluster managed by Unified Manager. Monitoring your storage objects provides you with an overview of cluster and object performance, and includes performance event monitoring. You can view performance and events at a high level, or you can further investigate any details of object performance and performance events.

This is one example of many possible cluster object navigations:

- 1. From the Dashboard page, review the details in the Performance Capacity panel to identify the cluster that is using the most performance capacity and click the bar chart to navigate to the list of nodes for that cluster.
- 2. Identify the node with the highest performance capacity used value and click that node.
- From the Node / Performance Explorer page, click Aggregates on this Node from the View and Compare menu.
- 4. Identify the aggregate that is using the most performance capacity and click that aggregate.
- 5. From the Aggregate / Performance Explorer page, click **Volumes on this Aggregate** from the View and Compare menu.
- 6. Identify the volumes that are using the most IOPS.

You should investigate these volumes to see if you should apply a QoS policy or Performance Service Level policy, or change the policy settings, so that those volumes do not use such a large percentage of IOPS on the cluster.

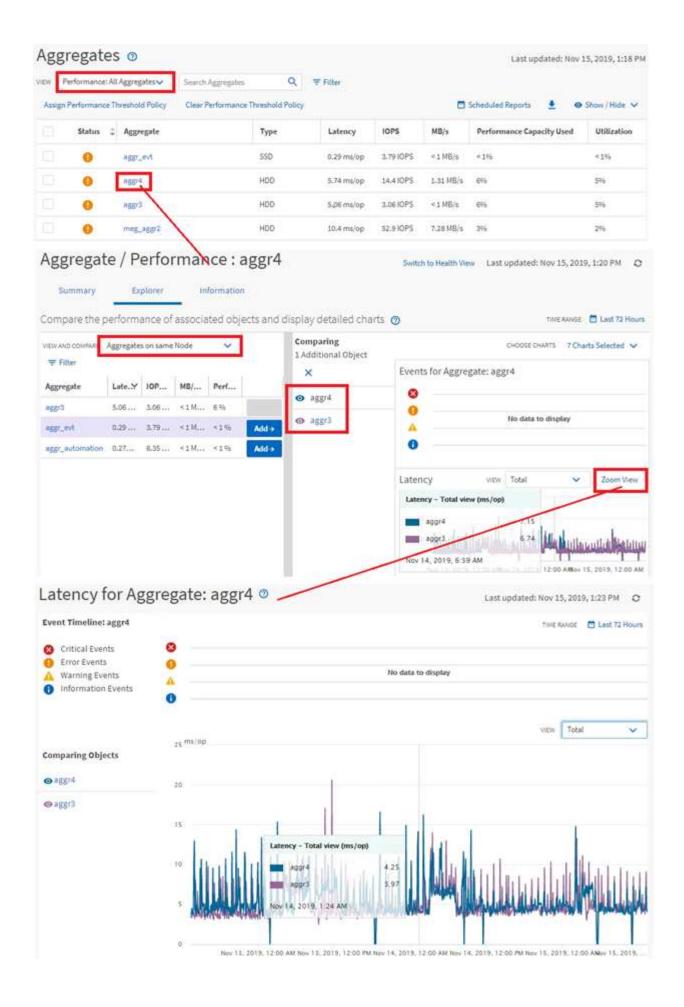


Monitor cluster performance navigation

You can monitor the performance of all clusters managed by Unified Manager. Monitoring your clusters provides you with an overview of cluster and object performance and includes performance event monitoring. You can view performance and events at a high level, or you can further investigate any details of cluster and object performance and performance events.

This is one example of many possible cluster performance navigational paths:

- 1. In the left navigation pane, click **Storage > Aggregates**.
- 2. To view information about the performance in those aggregates, select the Performance: All Aggregates view.
- 3. Identify the aggregate you want to investigate and click that aggregate name to navigate to the Aggregate / Performance Explorer page.
- 4. Optionally, select other objects to compare with this aggregate in the View and Compare menu, and then add one of the objects to the comparing pane.
 - Statistics for both objects will appear in the counter charts for comparison.
- 5. In the Comparing pane at the right on the Explorer page, click **Zoom View** in one of the counter charts to view details about the performance history for that aggregate.



Event investigation navigation

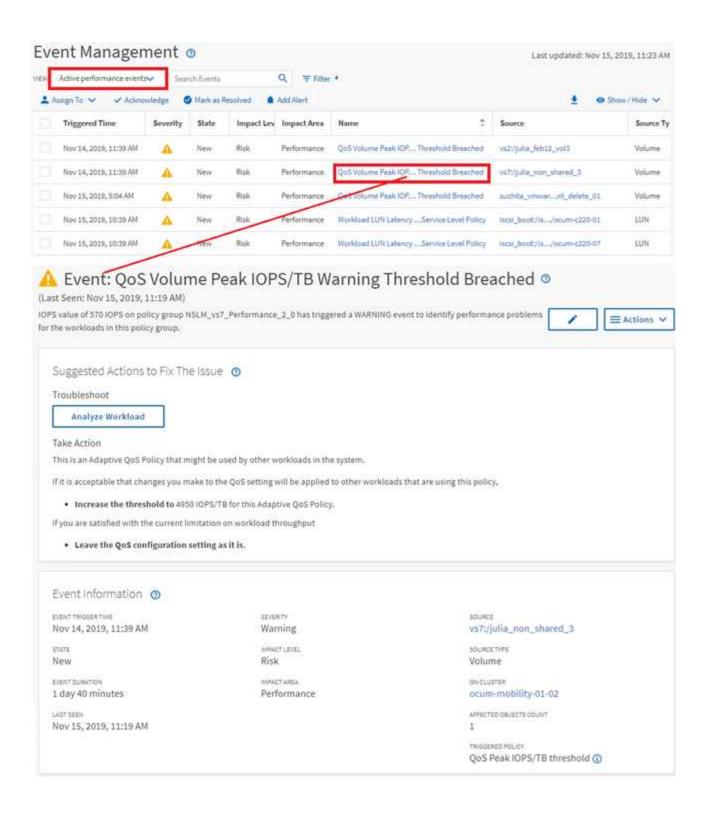
The Unified Manager event detail pages provide you with an in-depth look at any performance event. This is beneficial when investigating performance events, when troubleshooting, and when fine-tuning system performance.

Depending on the type of performance event, you might see one of two types of event detail pages:

- Event details page for user-defined and system-defined threshold policy events
- · Event details page for dynamic threshold policy events

This is one example of an event investigation navigation.

- 1. In the left navigation pane, click **Event Management**.
- 2. From the View menu, click **Active performance events**.
- Click the name of the event that you want to investigate and the Event details page is displayed.
- 4. View the Description of the event and review the Suggested Actions (where available) to view more details about the event that may help you resolve the issue. You can click the **Analyze Workload** button to display detailed performance charts to help further analyze the issue.



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