



QoS Management

SolidFire Active IQ

NetApp

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QoS Management

QoS Management

From the **QoS Management** page, available from the side panel for a selected cluster, you can view information on QoS recommendations and throttling for the nodes in a cluster.

Learn about viewing information on QoS recommendations and throttling for a selected node:

- [Recommendations](#)
- [Node Throttling](#)

Find more information

[NetApp Product Documentation](#)

Recommendations

The **QoS Management > Recommendations** page, available from the side panel for a selected cluster, provides daily quality of service (QoS) recommendations for a cluster based on recent performance data. QoS recommendations are only supported for clusters on Element software 11.x or later.

SolidFire Active IQ makes performance recommendations based on volume statistics data for recent activity. Recommendations focus on QoS maximum and minimum guaranteed IOPS for a volume and are only visible in the UI when cluster improvements might be needed.

Find more information

- [Performance and QoS for a SolidFire storage cluster](#)
- [Create and manage volume QoS policies](#)
- [NetApp Product Documentation](#)

Node Throttling

From the **QoS Management > Node Throttling** page, available from the side panel for a selected cluster, you can view the percent throttling for the nodes in the cluster. The nodes are listed as thumbnail layouts on the left side of the display and are ordered depending on the degree of throttling for a selected time range.

Learn about viewing node throttling information:

- [View graphs and select date ranges](#)
- [Export node throttling data](#)

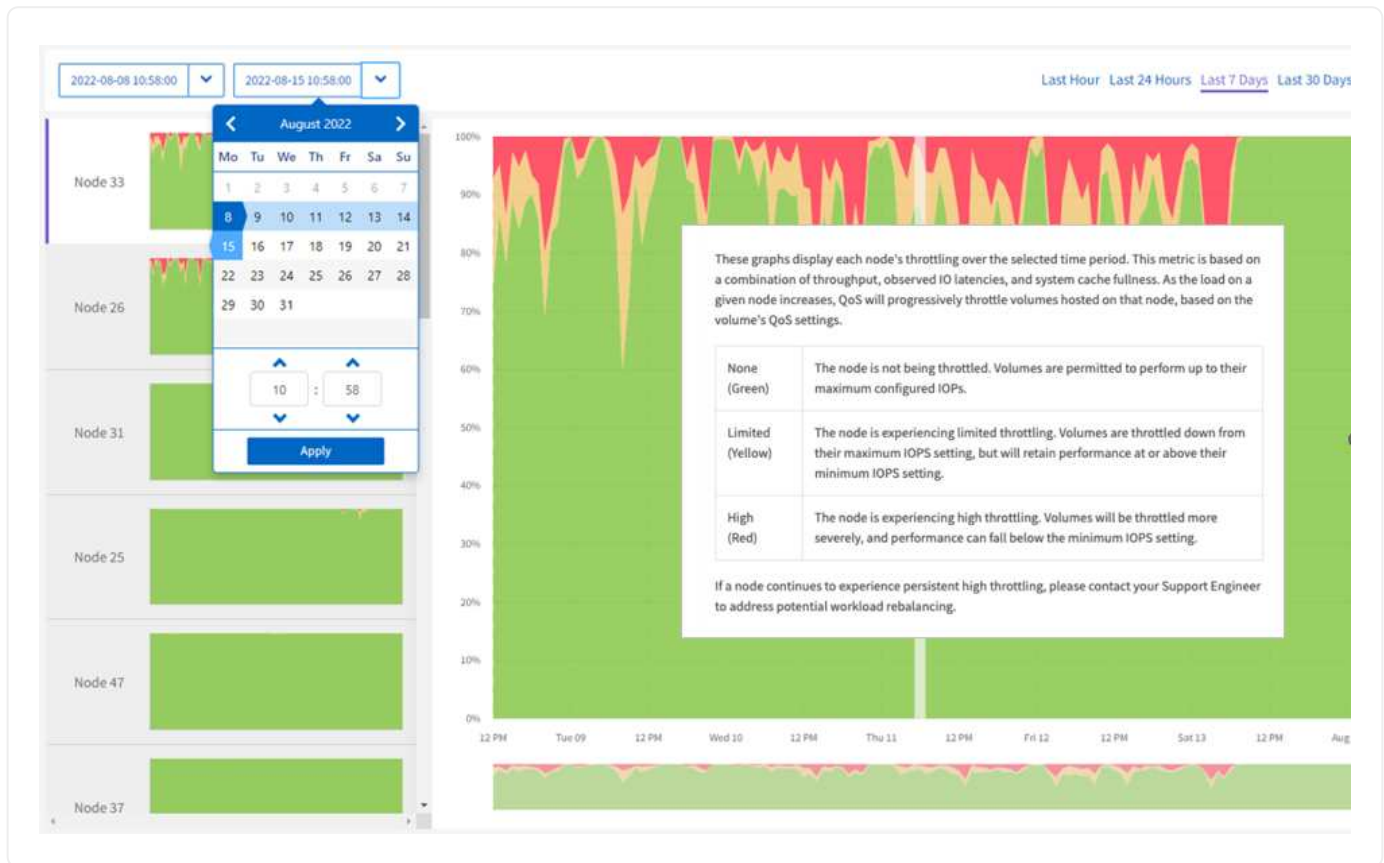
View graphs and select date ranges

The graphs and date ranges in SolidFire Active IQ are seamlessly integrated with each other. When selecting a date range, all graphs on that page adjust to the range selected. The default date range displayed for each graph is seven days.

You can select a date range from the calendar drop-down box or from a set of pre-defined ranges. Date ranges are calculated using the current browser time (at the time of selection) and the configured amount of time. Additionally, you can select a desired interval by brushing directly over the bar graph at the bottom. You can switch between graphs by selecting the thumbnail layouts on the left.

The graphs display node throttling over the selected time period based on the minimum and maximum IOPS settings for the volumes hosted on the selected node. The color represents the amount of throttling: green (none), yellow (limited), or red (high). For more information, see the following graph example:

Expand the graph example



Position the mouse pointer at any point in the graph to see point-in-time details.

[Learn about QoS recommendations for a cluster.](#)




From the Node Throttling page, you can determine if there is QoS pushback in a storage cluster, see this [KB article](#) for information.

Export node throttling data

You can export graph data to a comma-separated values (CSV) format. Only the information displayed in the graph is exported.

Steps

1. In a list view or graph, select the  icon.

Find more information

[NetApp Product Documentation](#)

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