

## Monitor cluster performance with System Manager

ONTAP 9

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# Monitor cluster performance with System Manager

### Monitor cluster performance using System Manager

The topics in this section show you how to manage cluster health and performance with System Manager in ONTAP 9.7 and later releases.

You can monitor cluster performance by viewing information about your system on the System Manager Dashboard. The Dashboard displays information about important alerts and notifications, the efficiency and capacity of storage tiers and volumes, the nodes that are available in a cluster, the status of the nodes in an HA pair, the most active applications and objects, and the performance metrics of a cluster or a node.

The Dashboard lets you determine the following information:

- Health: How healthy is the cluster?
- Capacity: What capacity is available on the cluster?
- Performance: How well is the cluster performing, based on latency, IOPS, and throughput?
- Network: How is the network configured with hosts and storage objects, such as ports, interfaces, and storage VMs?

In the Health and Capacity overviews, you can click  $\rightarrow$  to view additional information and perform tasks.

In the Performance overview, you can view metrics based on the hour, the day, the week, the month, or the year.

In the Network overview, the number of each object in the network is displayed (for example, "8 NVMe/FC ports"). You can click on the numbers to view details about each network object.

## View performance on cluster dashboard

Use the dashboard to make informed decisions about workloads you might want to add or move. You can also look at peak usage times to plan for potential changes.

The performance values refresh every 3 seconds and the performance graph refreshes every 15 seconds.

#### Steps

- 1. Click Dashboard.
- 2. Under **Performance**, select the interval.

## Identify hot volumes and other objects

Accelerate your cluster performance by identifying the frequently accessed volumes (hot volumes) and data (hot objects).



Beginning in ONTAP 9.10.1, you can use the Activity Tracking feature in File System Analytics to monitor hot objects in a volume. Beginning in ONTAP 9.13.1, Activity Tracking is expanded to the SVM scope. For more information, see Enable Activity Tracking.

### Steps

- 1. Click Storage > Volumes.
- 2. Filter the IOPS, latency, and throughput columns to view the frequently accessed volumes and data.

## **Modify QoS**

Beginning with ONTAP 9.8, when you provision storage, QoS is enabled by default. You can disable QoS or choose a custom QoS policy during the provisioning process. You can also modify QoS after your storage has been provisioned.

#### **Steps**

- 1. In System Manager, click Storage and select Volumes.
- 2. Next to the volume for which you want to modify QoS, click and select **Edit**.

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