Monitor cluster performance from the Dashboard

Active IQ Unified Manager

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Monitor cluster performance from the Dashboard

Monitor cluster performance from the Dashboard in Active IQ Unified Manager

The Unified Manager Dashboard provides a few panels that display high-level performance status of all clusters being monitored by this instance of Unified Manager. It enables you to assess the overall performance of the managed clusters, and to quickly note, locate, or assign for resolution any specific events identified.

Review performance panels on the Active IQ Unified Manager Dashboard

The Unified Manager Dashboard provides a few panels that display high-level performance status for all the clusters that are being monitored in your environment. You can choose to view status for all clusters or for an individual cluster.

In addition to showing performance information, most of the panels also display the number of active events in that category, and the number of new events added over the previous 24 hours. This information helps you decide which clusters you may need to analyze further to resolve reported events. Clicking on the events displays the top few events and provides a link to the Event Management inventory page filtered to show the events in that category.

The following panels provide performance status.

- **Performance Capacity panel**

  When viewing all clusters, this panel displays the performance capacity value for each cluster (averaged over the previous 1 hour) and the number of days until performance capacity reaches the upper limit (based on daily growth rate). Clicking the bar chart takes you to the Nodes inventory page for that cluster. Note that the Nodes inventory page displays the performance capacity averaged over the previous 72 hours, so this value may not match the Dashboard value.

  When viewing a single cluster, this panel displays the cluster performance capacity, total IOPS, and total throughput values.

- **Workload IOPS panel**

  When workload active management is enabled, and when viewing a single cluster, this panel displays the total number workloads that are currently running in a certain range of IOPS.

- **Workload Performance panel**

  When workload active management is enabled, this panel displays the total number of conforming and non-conforming workloads that are assigned to each defined Performance Service Level. Clicking a bar chart takes you to the workloads assigned to that policy in the Workloads page.

- **Usage Overview panel**

  When viewing all clusters, you can choose to view clusters sorted by highest IOPS or throughput (MB/s).

When viewing a single cluster, you can choose to view workloads on that cluster sorted by highest IOPS or throughput (MB/s).

Interpret performance banner messages in Active IQ Unified Manager

Unified Manager may display banner messages on the Notifications page (from the Notification bell) to alert you to status issues for a particular cluster.

Banner message	Description	Resolution
`No performance data is being collected from cluster cluster_name. Restart Unified Manager to correct this issue.`	The Unified Manager collection service has stopped and no performance data is being collected from any clusters.	Restart Unified Manager to correct this issue. If this does not correct the issue, contact technical support.
`More than x hour(s) of historical data is being collected from cluster cluster_name. Current data collections will start after all historical data is collected.`	A data continuity collection cycle is currently running to retrieve performance data outside of the real-time cluster performance collection cycle.	No action is required. Current performance data will be collected after the data continuity collection cycle is completed. A data continuity collection cycle runs when a new cluster is added or when Unified Manager has been unable to collect current performance data for some reason.

Change the performance statistics collection interval in Active IQ Unified Manager

The default collection interval for performance statistics is 5 minutes. You can change this interval to 10 or 15 minutes if you find that collections from large clusters are not finishing within the default time. This setting affects the collection of statistics from all clusters that this instance of Unified Manager is monitoring.

Before you begin

You must have a user ID and password authorized to log in to the maintenance console of the Unified Manager server.

The issue of performance statistics collections not finishing on time is indicated by the banner messages `Unable to consistently collect from cluster <cluster_name>` or `Data collection is taking too long on cluster <cluster_name>`.

You should change the collection interval only when required because of a statistics collections issue. Do not change this setting for any other reason.

Changing this value from the default setting of 5 minutes can affect the number and frequency of performance events that Unified Manager reports. For example, system-defined performance thresholds trigger events when the policy is exceeded for 30 minutes. When using 5-minute

collections, the policy must be exceeded for six consecutive collections. For 15-minute collections the policy must be exceeded for only two collection periods.

A message at the bottom of the Cluster Setup page indicates the current statistical data collection interval.

Steps

1. Log in using SSH as the maintenance user to the Unified Manager host.

   The Unified Manager maintenance console prompts are displayed.

2. Type the number of the menu option labeled **Performance Polling Interval Configuration**, and then press Enter.
3. If prompted, enter the maintenance user password again.
4. Type the number for the new polling interval that you want to set, and then press Enter.

If you changed the Unified Manager collection interval to 10 or 15 minutes, and you have a current connection to an external data provider (such as Graphite), you must change the data provider transmit interval so that it is equal to, or greater, than the Unified Manager collection interval.

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