

Filtering Metrics

Metric Filters limit the amount of metric data reported to the Cloudera Manager server to avoid overloading the server with too much data.

About this task

Metrics Filters allow you to limit the amount of metric data sent to the Cloudera Manager Server. In some clusters, some services, such as Kudu, send a high volume of non-essential metrics data to the Cloudera Manager Server, which can overload it, causing gaps in the data reported from these metrics in charts/dashboards and potentially limiting the ability for Cloudera Manager to effectively monitor cluster health. To avoid this, you can configure Metric Filters that limit the amount of data sent to the Service Monitor and the Cloudera Manager Server. You can configure Metric Filters for any service deployed in a cluster.

You can configure the filter in several ways:

- Limit the collected metrics to only include those required for Health Tests.
- Limit the collected metrics to only include metrics used in the charts on the main page ('Dashboard') of the service.
- Include specific metrics - only the specified metrics will be collected for this service
- Exclude specific metrics - the specified metrics will not be collected for this service

Procedure

To configure a Metric Filter:

- Log in to the Cloudera Manager Admin Console.
- Navigate to the cluster where you want to add the filter.
- Click ConfigurationMetric Filters.
 - The Configuration page displays the Metric Filter parameter for all roles in the cluster.
 - You can now choose whether to edit all the Metric Filters using the same values, or edit the filter for a specific role.
- Do one of the following:
 - To configure the filter for a specific role, click the Edit Individual Values link and locate the parameter for the service. Follow the steps below.
 - To configure the same filter for all roles, edit the Default Group.
- Select one of the following:
 - Include Only Health Test Metric Set
 - Include Only Default Dashboard Metric Set
- To filter specific metrics:
 - Select either Include or Exclude from the 'Include/Exclude Custom Metrics' drop-down list. If you selected either of the Metric sets, and select Include, the custom metrics will be added to the selected Metrics sets. If you select Exclude, they will be excluded from the selected sets.
 - Click the "Plus" icon to add a metric.
 - Enter the metric name.

- Click the “Plus” icon to add additional metrics. Note: You can find the names of specific metrics you would like to include or exclude either from the Cloudera Manager Metrics Reference (see link below) or from a chart that is displaying the required metrics in the Cloudera Manager Admin Console, as follows:
 - * Go to the Status page for a cluster or service.
 - * In a chart, click the gear icon and select Open in Chart Builder. The query displays at the top of the page. Metric names are part of the query. For example, the following query:

```
select dfs_capacity, dfs_capacity_used, dfs_capacity_used_non_hdfs
where entityName=$SERVICENAME
```

contains the following metric names:

- dfs_capacity
- Dfs_capacity_used
- dfs_capacity_used_non_hdfs

- Click Save Changes.
- Refresh the cluster:
- Go the cluster’s Status page.
- Click ActionsRefresh Cluster. This action does not restart the cluster. The cluster configuration is refreshed. Note: You can configure Cloudera Manager to automatically refresh the cluster after you update Metric configurations by enabling the Enable auto refresh for metric configurations parameter. This parameter is set at the role level, and, when set to true, Cloudera Manager refreshes only the role affected by a change to the metric filter or collection enable settings, not the entire cluster.

Results

Note: If you do not select any options, all metrics for the service will be sent to the Service Monitor.