

Working with Queries

Data Infrastructure Insights

NetApp January 17, 2025

This PDF was generated from https://docs.netapp.com/us-en/data-infrastructureinsights/concept_querying_assets.html on January 17, 2025. Always check docs.netapp.com for the latest.

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Working with Queries

Assets used in queries

Queries enable you to monitor and troubleshoot your network by searching the assets and metrics on your tenant at a granular level based on user-selected criteria (for example, annotations).

Note that annotation rules, which automatically assign annotations to assets, require a query.

You can query the physical or virtual inventory assets (and their associated metrics) on your tenant, or the metrics provided with integration such as Kubernetes or ONTAP Advanced Data.

Inventory Assets

The following asset types can be used in queries, dashboard widgets, and custom asset landing pages. The fields and counters available for filters, expressions, and display will vary among asset types. Not all assets can be used in all widget types.

- Application
- Datastore
- Disk
- Fabric
- Generic Device
- Host
- Internal Volume
- iSCSI Session
- iSCSI Network Portal
- Path
- Port
- Qtree
- Quota
- Share
- Storage
- Storage Node
- Storage Pool
- Storage Virtual Machine (SVM)
- Switch
- Tape
- VMDK
- Virtual Machine
- Volume

- Zone
- Zone Member

Integration Metrics

In addition to querying for inventory assets and their associated performance metrics, you can query for **integration data** metrics as well, such as those generated by Kubernetes or Docker, or provided with ONTAP Advanced Metrics.



Creating Queries

Queries enable you to search the assets on your tenant at a granular level, allowing to filter for the data you want and sort the results to your liking.

For example, you can create a query for *volumes*, add a filter to find particular *storages* associated with the selected volumes, add another filter to find a particular *annotation* such as "Tier 1" on the selected storages, and finally add another filter to find all storages with *IOPS - Read (IO/s)* greater than 25. When the results are displayed, you can then sort the columns of information associated with the query in ascending or descending order.

Note: When a new data collector is added which acquires assets, or any annotation or application assignments are made, you can query for those new assets, annotations, or applications only after the queries are indexed. Indexing occurs at a regularly scheduled interval or during certain events such as running annotation rules.

Creating a Query is very simple:

- 1. Navigate to **Queries > *+New Query**.
- 2. From the 'Select...' list, select the object type you want to query for. You can scroll through the list or you can start typing to more quickly find what you're searching for.

Scroll list:

awesome site / All Queries /

New Query

agent.node_diskio agent.node_fs agent.node_net	
agent.node_fs	
agent.node_net	
Application	
DataStore	
Disk	
Fabric	
GenericDevice	

Type-to-Search:

You can add filters to further narrow down your query by clicking the **+** button in the **Filter By** field. Group rows by object or attribute. When working with integration data (Kubernetes, ONTAP Advanced Metrics, etc.), you can group by multiple attributes, if desired.

netapp_or	ntap.aggregate	×	
Filter By	cluster_name	ci-	× +
Group	aggr_name 🗙		× •

5 items found			Ô
Table Row Grouping	Metrics & Attributes		
aggr_name	cp_read_blocks	cluster_name 🌡	-1
oci02sat0	0.59	oci-phonehome	
oci02sat1	0.15	oci-phonehome	
oci02sat2	212.64	oci-phonehome	
oci01sat0	0.39	oci-phonehome	
oci01sat1	48.89	oci-phonehome	-

The query results list shows a number of default columns, depending on the object type searched for. To add, remove, or change the columns, click the gear icon on the right of the table. The available columns variy based on the asset/metric type.

Filter By +				
Group aggr_name × × •				
ems found		1		
able Row Grouping	Metrics & Attributes		Search	
ggr_name	cp_read_blocks	agent_version †	Show Selected Only	
ggr0_optimus_02	1.72	Apache-HttpClien	agent_version	
ggr1_optimus_02	408.84	Apache-HttpClien		
cinaneqa1_04_aggr0	6.19	Apache-HttpClien	aggr_name	
	6.48	Apache-HttpClien	lien cluster_location	
cinaneqa1_03_aggr0	0.40			

Choosing Aggregation, Units, Conditional Formatting

Aggregation and Units

For "value" columns, you can further refine your query results by choosing how the displayed values are aggregated as well as selecting the units in which those values are displayed. These options are found by selecting the "three dots" menu at the top corner of a column.

Units

You can select the units in which to display the values. For example, if the selected column shows raw capacity and the values are shown in GiB, but you prefer to display them as TiB, simply select TiB from the Unit Display drop-down.

Aggregation

By the same token, if the values shown are aggregated from the underlying data as "Average", but you prefer to show the sum of all values, select "Sum" from either the *Group by* drop-down (if you want any grouped values to show the sums) or from the *Time Aggregate By* drop-down (if you want the row values to show sums of underlying data).

You can choose to aggregate grouped data points by Avg, Max, Min, or Sum.

You can aggregate individual row data by Average, Last data point acquired, Maximum, Minimum, or Sum.

Conditional Formatting

Conditional Formatting allows you to highlight Warning-level and Critical-level thresholds in the query results list, bringing instant visibility to outliers and exceptional data points.

ble Row Grouping	Metrics & Attributes				
gent.node_diskio 1	io_time (sec)				
/me0n1	20,604.96	> Aggregation			
ivme0n1	29,184.97	> Unit Display			
nvme0n1	4,642.68				
ivme0n1	31,918.99	✓ Conditional Formatting	1		
ivme0n1	29,258.26	If value is > (Greater than)	•		
ivme0n1	18,022.16	Warning 10000 sec Oritical 20000 sec	sec		
vme0n1	28,483.30				
ivme0n1	69,835.02	> Rename Column	> Rename Column		
ivme0n1	15,952,78				

Conditional formatting is set separately for each column. For example, you can choose one set of thresholds for a capacity column, and another set for a throughput column.

Rename Column

Renaming a column changes the displayed name on the Query results list. The new column name is also shown in the resulting file if you export the query list to .CSV.

Save

After you have configured your query to show you the results you want, you can click the **Save** button to save the query for future use. Give it a meaningful and unique name.

More on Filtering

Wildcards and Expressions

When you are filtering for text or list values in queries or dashboard widgets, as you begin typing you are presented with the option to create a **wildcard filter** based on the current text. Selecting this option will return all results that match the wildcard expression. You can also create **expressions** using NOT or OR, or you can select the "None" option to filter for null values in the field.

kubernetes.pod X 🔻	
Filter By pod_name	ingest • × + ?
Group pod_name X	Create wildcard containing "ingest"
	ci-service-datalake-ingestion-85b5bdfd6d-2qbwr service-foundation-ingest-767dfd5bfc-vxd5p
71 items found Table Row Grouping	None

Filters based on wildcards or expressions (e.g. NOT, OR, "None", etc.) display in dark blue in the filter field. Items that you select directly from the list are displayed in light blue.

kubernetes.pod X 🔻			
Filter By pod_name	*ingest* X	ci-service-audit-5f775dd975-brfdc X	x • × + ?
Group pod_name X		\times \bullet	

3 items found

Table Row Grouping
pod_name
ci-service-audit-5f775dd975-brfdc
ci-service-datalake-ingestion-85b5bdfd6d-2qbwr
service-foundation-ingest-767dfd5bfc-vxd5p

Note that Wildcard and Expression filtering works with text or lists but not with numerics, dates or booleans.

Refining Filters

You can use the following to refine your filter:

Filter W	Vhat it does	Example	Result
----------	--------------	---------	--------

* (Asterisk)	enables you to search for everything	vol*rhel	returns all resources that start with "vol" and end with "rhel"
? (question mark)	enables you to search for a specific number of characters	BOS-PRD??-S12	returns BOS-PRD 12 -S12, BOS-PRD 23 -S12, and so on
OR	enables you to specify multiple entities	FAS2240 OR CX600 OR FAS3270	returns any of FAS2440, CX600, or FAS3270
NOT	allows you to exclude text from the search results	NOT EMC*	returns everything that does not start with "EMC"
None	searches for NULL values in all fields	None	returns results where the target field is empty
Not *	searches for NULL values in <i>text-only</i> fields	Not *	returns results where the target field is empty

If you enclose a filter string in double quotes, Insight treats everything between the first and last quote as an exact match. Any special characters or operators inside the quotes will be treated as literals. For example, filtering for "*" will return results that are a literal asterisk; the asterisk will not be treated as a wildcard in this case. The operators OR and NOT will also be treated as literal strings when enclosed in double quotes.

What do I do now that I have query results?

Querying provides a simple place to add annotations or assign applications to assets. Note that you can only assign applications or annotations to your inventory assets (Disk, Storage, etc.). Integration metrics cannot take on annotation or application assignments.

To assign an annotation or application to the assets resulting from your query, sinply select the asset(s) using the check box column on the left of the results table, then click the **Bulk Actions** button on the right. Choose the desired action to apply to the selected assets.

Volume X Filter By Name Any X	Ð				
ery Results (5) 2 Selected				Bulk Actions 🔻 🖏	
Name 1	Storage Pools	Capacity - Raw (GB)	Mapped Ports		
DmoESX_optimus:mc_Dm	optimus-02:aggr1_optimu	N/A		Remove Annotation	
DmoSAN_optimus:hoffma	optimus-02:aggr1_optimu	N/A		Add Application	
DmoSAN_optimus:mc_D	optimus-02:aggr1_optimu	N/A		Remove Application US:windows_2008	
oci-3070-01:/vol/vfiler_lun	oci-3070-01:aggr5	N/A		OS:windows	
spectravs1:sjimmyIscsi:/v	ocinaneqa1-01:spectraaggr1	N/A		OS:linux	

Annotation Rules require query

If you are configuring Annotation Rules, each rule must have an underlying query to work with. But as you've seen above, queries can be made as broad or as narrow as you need.

Viewing queries

You can view your queries to monitor your assets and change how your queries display the data related to your assets.

Steps

- 1. Log in to your Data Infrastructure Insights tenant.
- Click Queries and select Show all queries. You can change how queries display by doing any of the following:
- 3. You can enter text in the filter box to search to display specific queries.
- 4. You can change the sort order of the columns in the table of queries to either ascending (up arrow) or descending (down arrow) by clicking the arrow in the column header.
- 5. To resize a column, hover the mouse over the column header until a blue bar appears. Place the mouse over the bar and drag it right or left.
- 6. To move a column, click on the column header and drag it right or left.

When scrolling through the query results, be aware that the results may change as Data Infrastructure Insights automatically polls your data collectors. This may result in some items being missing, or some items appearing out of order depending on how they are sorted.

Exporting query results to a .CSV file

You can export the results of any query to a .CSV file, which will allow you to analyze the data or import it into another application.

Steps

- 1. Log in to Data Infrastructure Insights.
- 2. Click Queries and select Show all queries.

The Queries page is displayed.

- 3. Click a query.
- 4. Click ญ to export the query results to a .CSV file.



Export to .CSV is also available in the "three dots" menu in dashboard table widgets as well as most landing page tables.

The exported data will reflect the current filtering, columns, and column names displayed.

Note: When a comma appears in an asset name, the export encloses the name in quotes, preserving the asset name and the proper .csv format.

When opening an exported .CSV file with Excel, if you have an object name or other field that is in the format NN:NN (two digits followed by a colon followed by two more digits), Excel will sometimes interpret that name as a Time format, instead of Text format. This can result in Excel displaying incorrect values in those columns. For example, an object named "81:45" would show in Excel as "81:45:00".

To work around this, import the .CSV into Excel using the following steps:

- 1. Open a new sheet in Excel.
- 2. On the "Data" tab, choose "From Text".
- 3. Locate the desired .CSV file and click "Import".
- 4. In the Import wizard, choose "Delimited" and click Next.
- 5. Choose "Comma" for the delimiter and click Next.
- 6. Select the desired columns and choose "Text" for the column data format.
- 7. Click Finish.

Your objects should show in Excel in the proper format.

Modifying or Deleting a Query

You can change the criteria that are associated with a query when you want to change the search criteria for the assets that you are querying.

Modifying a Query

Steps

1. Click Explore and select All Metric Queries.

The Queries page is displayed.

- 2. Click the query name
- 3. To add a criteria to the query, click Columns icon and select a metric or attribute from the list.

When you have made all necessary changes, do one of the following:

- Click the Save button to save the query with the name that was used initially.
- Click the drop-down next to the **Save** button and select **Save As** to save the query with another name. This does not overwrite the original query.
- Click the drop-down next to the **Save** button and select **Rename** to change the query name that you had used initially. This overwrites the original query.
- Click the drop-down next to the **Save** button and select **Discard Changes** to revert the query back to the last saved changes.

Deleting a Query

To delete a query, click Queries and select Show all queries, and do one of the following:

- 1. Click on the "three dot" menu to the right of the query and click **Delete**.
- 2. Click on the query name and select **Delete** from the **Save** drop-down menu.

Copying table values

You can copy values in tables to the clipboard for use in search boxes or other applications.

About this task

There are two methods you can use to copy values from tables or query results to the clipboard.

Steps

- 1. Method 1: Highlight the desired text with the mouse, copy it, and paste it into search fields or other applications.
- 2. Method 2: For single-value fields, hover over the field and click the clipboard icon that appears. The value is copied to the clipboard for use in search fields or other applications.

Note that only values that are links to assets can be copied using this method. Only fields that include single values (i.e. non-lists) have the copy icon.

Log Explorer

The Data Infrastructure Insights Log Explorer is a powerful tool for querying system logs. In addition to helping with investigations, you can also save a log query in a Monitor to provide alerts when those particular log triggers are activated.

To begin exploring logs, click Log Queries > +New Log Query.

Select an available log from the list.

Select		•
logs.kube	rnetes	
logs.kube	rnetes.eve	nts
logs.netap	p.ems	
logs.onta	oems	
logs.syslo	g	



The types of logs available for querying may vary based on your environment. Additional log types may be added over time.

You can set filters to further refine the results of the query. For example, to find all log messages showing a failure, set a filter for *Messages* containing the word "failed".



You can begin typing the desired text in the filter field; Data Infrastructure Insights will prompt you to create a wildcard search containing the string as you type.

The results are displayed in a graph showing the number of log instances in each time period shown. Below the graph are the log entries temselves. The graph and the entries refresh automatically based on the selected time range.

2gebjfo / All Log Queries / New Query	🕐 Last 3 Hours 🔻 🕕 🖺 Save
logs.netapp.ems 🗙 💌	
Filter By message trailed × × +	Create a Log Monitor
6.,	Bucket: 5 minutes
4	
2	
0 8:10 AM 8:20 AM 8:30 AM 8:40 AM 8:50 AM 9:00 AM 9:10 AM 9:20 AM 9:30 AM 5	9-40 AM 9-50 AM 10:00 AM 10:10 AM 10:20 AM 10:30 AM 10:40 AM 10:50 AM 11:00 AM

Log Entries

Last updated 10/21/2021 11:04:56 AM 🔕

timestamp	source	message	
10/21/2021 10:55:39 AM	agent:EmsCollector;cluster:a0d 561f7-7a66-11e2-9699- 123478563412;node:889d3681- 79d0-11e2-85aa-811faf325b91;	monitor.chassisPowerSupply.degraded: Chassis power supply 1 is degraded: PSU1 Power Output has failed	
10/21/2021 10:55:39 AM	agent:EmsCollector;cluster:a0d 561f7-7a66-11e2-9699- 123478563412;node:889d3681- 79d0-11e2-85aa-811faf325b91;	monitor.chassisPowerSupply.degraded: Chassis power supply 1 is degraded: PSU1 has failed	
10/21/2021 10:54:40 AM	agent:EmsCollector;cluster:a0d 561f7-7a66-11e2-9699- 123478563412;node:9ee4fbd1- 79d0-11e2-b141- 412df83ec6497:	monitor.chassisPowerSupply.degraded: Chassis power supply 1 is degraded: PSU1 Power Output has failed	2

Filtering

Include / Exclude

When filtering the logs, you can choose to **include** (i.e. "Filter to") or **exclude** the strings you type. Excluded strings are displayed in the completed filter as "NOT <string>".

logs.netapp.ems 🗙 🔻		
Filter By ems.ems_message_type	All	' × +
Type advance query expression here	○ Filter to ● Exclude	DR
	app.log.info	
Chart: Group By All	app.log.notice	
4k	arw.vserver.state	

Filters based on wildcards or expressions (e.g. NOT, OR, "None", etc.) display in dark blue in the filter field. Items that you select directly from the list are displayed in light blue.



At any point, you can click on *Create a Log Monitor* to create a new Monitor based on the current filter.

Advanced Filtering

When you are filtering for text or list values in queries or dashboard widgets, as you begin typing you are presented with the option to create a **wildcard filter** based on the current text. Selecting this option will return all results that match the wildcard expression. You can also create expressions using NOT, AND, or OR, or you

can select the "None" option to filter for null values.



Be sure to Save your query early and often as you build your filtering. Advanced Querying is "free-form" string entry, and parsing mistakes may occur as you build.

Take a look at this screen image showing filtered results for an advanced query of the *logs.kubernetes.event* log. There is a lot going on in this page, which is explained below the image:

		/ Advanced	Query LA	mpte			Aug 26, 2023		Save
logs.kubernetes.event	•						Ŭ	Create a L	og Monito
Filter By 🕂 🕜								Ne	ed Help?
(reason:*failed* AND NO metadata.namespace:"e	T reason:FailedMount) AND (met eg-monitoring"))	tadata.namesj	pace:*monito	oring* ANI	NOT ((metadata.namespace:"c	m-monitoring" C	DR	××
Chart: Group By - sou	rce X >	Show	Тор 💌	10	•	Show Others			
	0						Reset Zoom	Bucket: 30) minutes
			Legen	d					AM
			Legen	d					
g Entries 2	source	messag		d	me	etadata.namespace ↑	Last updated 08/ reason	'30/2023 9:54	
imestamp	source kubernetes_cluster:eg- stream;namespace:33994- monitoring;pod_name:even exporter-5db67db995-bxmk	Error: c exceede	ge ontext deadli	0	1.01			/30/2023 9:54	
\sim	kubernetes_cluster:eg- stream;namespace:33994- monitoring;pod_name:even	Error: c exceede t- f; Error: c exceede	ge ontext deadli ed ontext deadli	ne	k3	etadata.namespace ↑	reason	'30/2023 9:54	

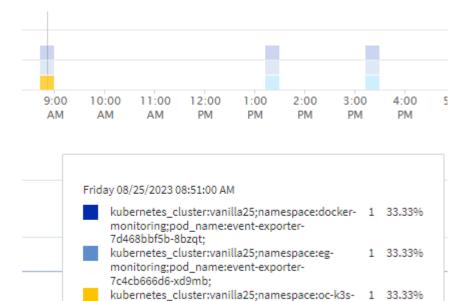
- 1. This advanced query string filters for the following:
 - Filter for log entries with a *reason* that includes the word "failed", but not anything with the specific reason of "FailedMount".
 - Include any of those entries that also include a *metadata.namespace* including the word "monitoring", but exclude the specific namespaces of "cm-monitoring" or "eg-monitoring".

Note that in the case above, since both "cm-monitoring" and "eg-monitoring" contain a dash ("-"), the strings must be included in double-quotes or a parsing error will be displayed. Strings that do not include dashes, spaces, etc. do not need to be enclosed in quotes. If in doubt, try putting the string in quotes.

- The results of the current filter, including any "Filter By" values AND the Advanced Query filter, are displayed in the results list. The list can be sorted by any displayed columns. To display additional columns, select the "gear" icon.
- 3. The graph has been zoomed in to show only log results that occurred within a specific time frame. The time

range shown here reflects the current zoom level. Select the *Reset Zoom* button to set the zoom level back to the current Data Infrastructure Insights time range.

4. The chart results have been Grouped By the *source* field. The chart shows results in each column grouped into colors. Hovering over a column in the chart will display some details about the specific entries.



monitoring;pod_name:event-exporter-

Refining Filters

You can use the following to refine your filter:

99d5fcfd8-lbg99;

Total

Filter	What it does
* (Asterisk)	enables you to search for everything
? (question mark)	enables you to search for a specific number of characters
OR	enables you to specify multiple entities
NOT	allows you to exclude text from the search results
None	searches for NULL values in all fields
Not *	searches for NULL values in <i>text-only</i> fields

3

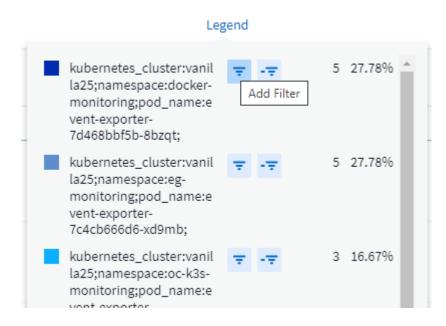
If you enclose a filter string in double quotes, Insight treats everything between the first and last quote as an exact match. Any special characters or operators inside the quotes will be treated as literals. For example, filtering for "*" will return results that are a literal asterisk; the asterisk will not be treated as a wildcard in this case. The operators OR and NOT will also be treated as literal strings when enclosed in double quotes.

You can combine a simple filter with an advanced query filter; the resulting filter is an "AND" of the two.

The Chart Legend

The Legend below the chart has a few surprises as well. For each result (based on the current filter) shown in

the Legend, you have an option to display only results for that line (Add Filter), or to display any results NOT for that line (Add Exclude Filter). The chart and the Log Entries list update to show results based on your selection. To remove this filtering, open the Legend again and select the [X] to clear the Legend-based filter.



Log Details

Clicking anywhere in a log entry in the list will open a detail pane for that entry. Here you can explore more information about the event.

Click on "Add Filter" to add the selected field to the current filter. The log entry list will update based on the new filter.

Note that some fields cannot be added as filters; in those cases, the Add Filter icon is not available.

timestamp

09/20/2021 9:03:36 PM

message

2021-09-20T15:33:36Z E! [processors.execd] stderr: "Total time to process mountstats file: /hostfs/proc/1/mountstats, was: 0s"

id:	22	7814532095936770
node_name:		auto-dsacq-insights-1.cloudinsights- v.netapp.com
source:	tel	egraf-ds-dfcc5
type:	log	gs.kubernetes
kubernetes		
kubernetes.a tations.open .io_		telegraf-hostaccess
kubernetes.c ainer_h		ci- registry.nane.openenglab.netapp.com: 8022/telegraf@sha256:00b45a7cc0761c

Troubleshooting

Here you will find suggestions for troubleshooting problems with Log Queries.

Problem:	Try this:
I don't see "debug" messages in my log query	Debug log messaging is not collected. To capture messages you want, change the relevant message severity to <i>informational, error, alert, emergency,</i> or <i>notice</i> level.

×

Identifying inactive devices

Identifying the assets you have and who's using them is critical to "right-sizing" and freeing up unused infrastructure. You can easily reallocate or decommission underused resources and avoid unnecessary purchases.

Use the following steps to identify inactive assets.

Steps

• Navigate to Observability > Explore \rightarrow +New Metric Query.

- Select *Storage* from the drop down.
- Click the gear and add *isActive* as a column.

Rows showing a Check are active. "X" indicates inactive devices.

To remove inactive devices, simply select the devices to remove and in the **Bulk Actions** drop-down, select *Delete Inactive Devices*.

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