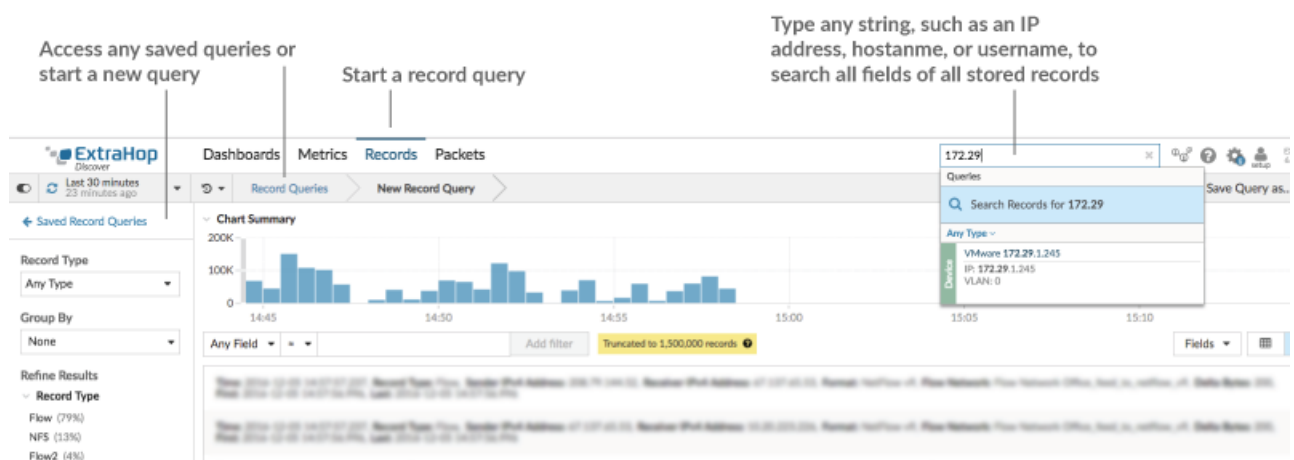


Query for stored records on an Explore appliance from a Discover or Command appliance

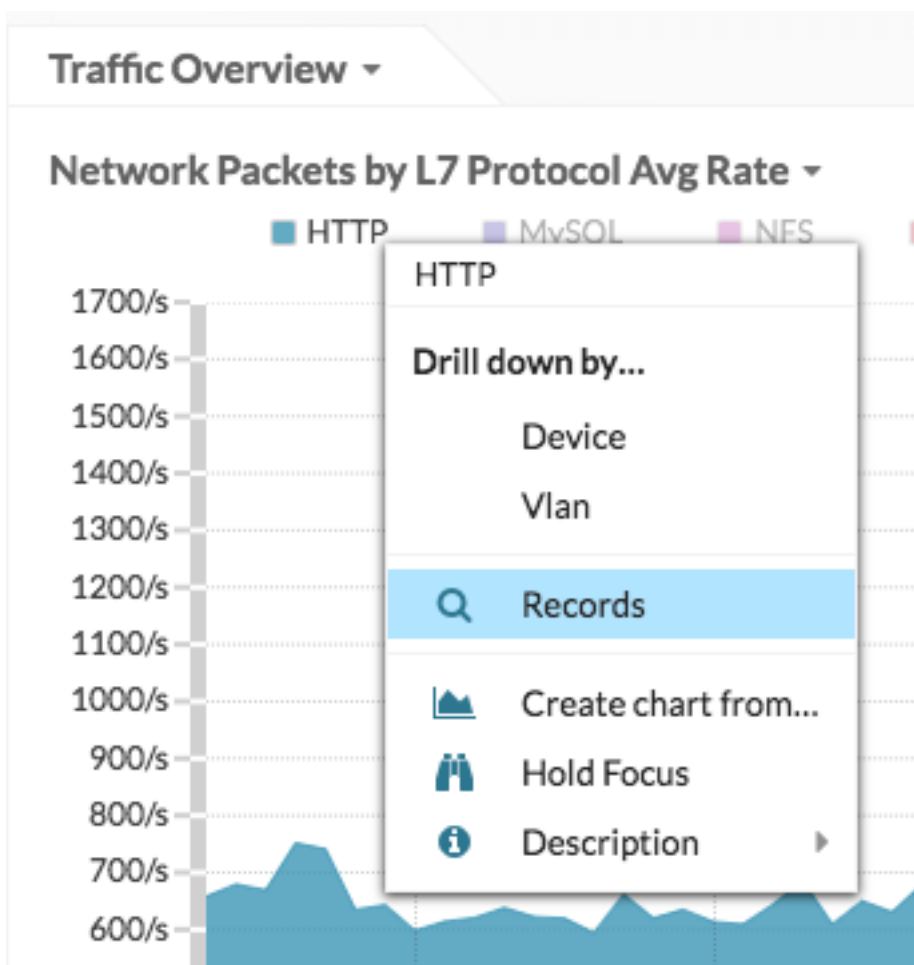
Published: 2019-10-18


After you [connect your Explore appliance to your Discover and Command appliances](#), and records are sent to the Explore appliance, you can query for those stored records from either the Discover or Command appliance. In addition, you can save record queries to run at a later time.






You can query records that are stored in the Explore appliance from multiple areas in the ExtraHop Web UI. The following figure shows the main records page, that you access by clicking **Records** from the top menu.



- Click **Records** from the top menu to start a new record query for all records stored on the Explore appliance.
- From the records page, click **Record Queries** in the navigation bar or **Saved Record Queries** in the left pane to access any saved queries or start a new query.
- Type a search term in the global search field at the top of the screen and click **Search Records** to start a query across all stored records.
- From a device Overview page, click **View Records** to start a query filtered by that device.
- Click the Records icon from a chart widget, as shown in the following figure.



- Click the Records icon  next to a detail metric after drilling down on a top-level metric. For example, after drilling down on HTTP Responses by Server, click the Records icon to create a query for records that contain a specific server IP address, as shown in the following figure.

Records	Server IP	Host	Responses	Server Processing Time Mean (ms)
	172.22.1.81	web2	22,338	2.264
	172.22.1.80	web1	21,767	2.263
	172.24.1.80	web1	11,186	2.328
	172.24.1.81	web2	10,203	2.307
	172.23.1.81	web2	9,248	2.405

Note: To create a record query for a custom metric, you must first define the record relationship by [linking the custom metric to a record type](#).

No matter where you start your query from, you might have a large set of records results. You can narrow down your results by applying filters to find the specific record you need.

Next steps

- [Filter your record query](#)
- To learn how to query for a specific record, see our walkthrough for [Discovering missing web resources](#).

Filter your records with a simple query

There are a number of ways you can filter your record query results to find the exact transaction you are looking for. The sections below describe each method and show examples you can start with to familiarize yourself.

If you are trying to filter records by simple criteria (say, if you want all HTTP transactions from a single server that generated 404s), you can create a simple query. For simple queries, start by clicking **Records** from the top menu to get to the main Records page, and then add a filter in one of the following ways:

- Add a filter or refine results from the left pane
- Add a filter from the trifield
- Add a filter directly from record results

Filter record results from the left pane

When you click **Records** from the top menu, all of the available records for your selected time interval appear. You can then filter from the left pane to refine your results.

The screenshot shows the ExtraHop Discover interface. At the top, there are navigation tabs: Dashboards, Metrics, Records, and Packets. Below the navigation, there's a search bar with 'Last 30 minutes a minute ago' and a 'Record Queries' section with a 'New Record Query' button. The left pane is highlighted with a bracket and labeled 'Left pane'. It contains the following sections:

- Saved Record Queries**: A link to go back to saved queries.
- Record Type**: A dropdown menu set to 'Any Type'.
- Group By**: A dropdown menu set to 'None'.
- Refine Results**: A list of record types with their counts in parentheses:
 - Record Type (179,446)
 - Flow (84,980)
 - HTTP (79,443)
 - DNS Response (18,129)
 - TRBLSeriesDNS (17,812)
 - NFS (3,512)

The main area of the interface shows a 'Chart Summary' with a bar chart and a table of records. The table has columns for 'Packets', 'Time', and 'Record Type'. The records listed are:

Packets	Time	Record Type
⊙	2017-03-21 15:02:29.793	HTTP
⊙	2017-03-21 15:02:29.793	Flow
⊙	2017-03-21 15:02:29.793	Flow
⊙	2017-03-21 15:02:29.784	HTTP
⊙	2017-03-21 15:02:29.772	HTTP

The **Record Type** drop-down menu displays a list of all of the record types that your Discover or Command appliance is configured to collect and store.

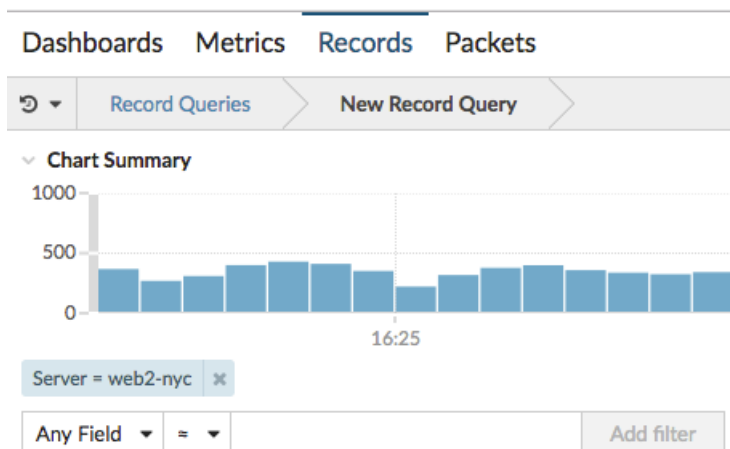
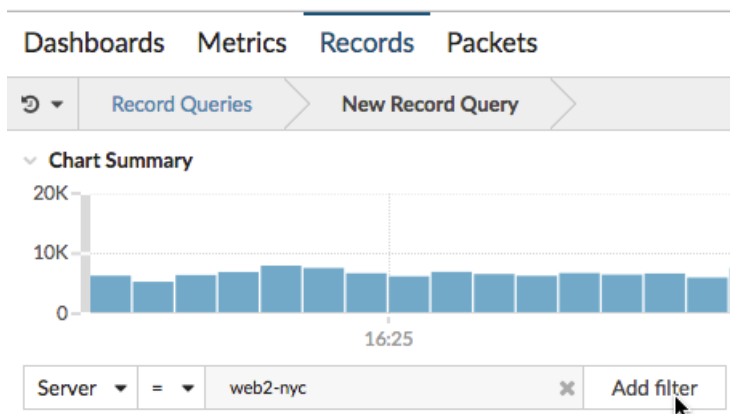
The **Group By** drop-down gives you a list of fields to further filter the record type by.

The **Refine Results** section shows you a list of record types that are currently on the Explore appliance with the current number of records in parenthesis.

Filter record results through the trifield

When you click **Records** from the top-level navigation, all of the available records for your selected time interval appear. A set of three filters (or the trifield) is available below the chart.

Select a field from the **Any Field** drop-down (such as Server), select an operator (such as the equal sign (=)), and then type a hostname. Click **Add filter**, and the filter is added above the filter bar.



Your results only show records that match the filter; in our example this means we only see results for transactions that are for the server named **web2-nyc**.

The following operators can be selected, based on the selected field name:

Operator	Description
=	Equals
≠	Does not equal
≈	Includes
≈/	Excludes
<	Less than
≤	Less than or equal to
>	Greater than

Operator	Description
≥	Greater than or equal to
starts with	Starts with
exists	Exists
does not exist	Does not exist

Filter directly from record results

You can select any field entry displayed in either table view or verbose view in your record results and then click the pop-up operator to add the filter. Filters are displayed below the chart summary (except for the record type field, which is changed in the left pane).

Dashboards Metrics **Records** Packets

Record Queries > New Record Query

Chart Summary

Any Field = Add filter 390,723 records



Packets	Time	Record Type	Client	Server	Answers (answerC
🎯	2017-03-21 16:22:53.897	HTTP	VMware 4B139C	web1-nyc	—
🎯	2017-03-21 16:22:53.896	DB	web1-nyc	mysql1-nyc	—
🎯	2017-03-21 16:22:53.895	DB	web1-nyc	mysql1-nyc	—
🎯	2017-03-21 16:22:53.890	HTTP	VMware 4B139C	web1-nyc	—
🎯	2017-03-21 16:22:53.889	DB	web1-nyc	mysql1-nyc	—
🎯	2017-03-21 16:22:53.888	DB	web1-nyc	mysql1-nyc	—
🎯	2017-03-21 16:22:53.871	HTTP	VMware 4B139C	web2-nyc	—
🎯	2017-03-21 16:22:53.870	DB	web2-nyc		
🎯	2017-03-21 16:22:53.870	DB	web2-nyc		
🎯	2017-03-21 16:22:53.867	Flow	—		

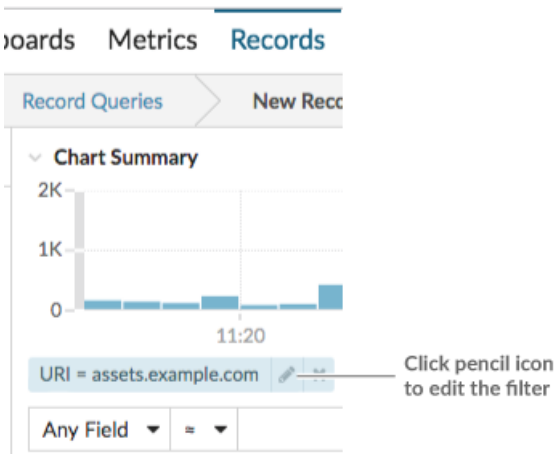
Add filter = ≠
Go to web2-nyc

Next steps

- [Filter your records with advanced query rules](#)
- [Learn how to monitor activity on suspicious ports in our records walkthrough](#)
- Click the Packets icon 🎯 to create a packet query for your record.

Filter your records with advanced query rules

For advanced queries, you can create and modify complex filters by clicking the Add Advance Filter button  or by clicking the pencil icon  next to any filter that you have added.




The screenshot shows the 'Records' tab in the ExtraHop interface. At the top, there are tabs for 'Boards', 'Metrics', and 'Records'. Below these, there are buttons for 'Record Queries' and 'New Record'. A 'Chart Summary' section is visible, showing a bar chart with a y-axis ranging from 0 to 2K and a time label '11:20'. Below the chart, a filter rule is displayed: 'URI = assets.example.com'. A pencil icon next to the filter is highlighted with a callout that says 'Click pencil icon to edit the filter'. Below the filter, there are dropdown menus for 'Any Field', '=', and another dropdown.

Here are some important things to know about advanced queries:

- You can specify multiple criteria with OR (Match Any), AND (Match All), and NONE operators
- You can group filters and nest them to four levels within each group
- You can edit a filter group after you create it
- You can create a descriptive name to identify the general purpose of the query

Create a complex filter with AND and OR operators

The following example shows how you can create an advanced query to filter your records with complex criteria. We will create a filter to return results for all HTTP records that include two URIs plus a status code greater than or equal to 400 or a processing time greater than 750 milliseconds.

 **Important:** To try this example on your own Discover appliance, you must have HTTP traffic on your network.

Advanced Filter
↗ ✕

Filter Definition

Match All ▾

Status Code ▾	≥ ▾	400	✕
Processing Time ▾	> ▾	750	✔ ✕

Match Any ▾

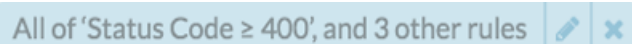
URI ▾	= ▾	assets.example.com	✕
URI ▾	= ▾	media.example.com	✕

Custom Display Name

1. Click **Records** from the top menu.
2. In the left pane, select **HTTP** from the Refine Results section. Only available records are displayed in the Refine Results section. This step ensures that you have available records for this query.

Note: Record types do not appear as filters; they are displayed in the left pane.
3. Click the Add Advanced Filter button . The button is on the right side of the page, above the records search results.
4. Under Filter Definition, we will keep **Match All**. Match All is an AND operator and will let us search for criteria that matches the status code and the processing time criteria.
5. Select **Status Code**, the greater than or equal to sign (\geq), and then type **400** in the number field.
6. Click **Add Filter** to add a filter for processing time.
7. Select **Processing Time**, the greater than sign ($>$), and then type **750** in the number field. In the next steps, we will add a group of criteria that applies specifically to the fields we added.
8. Click **Add Group**. We are keeping **Match Any** for this group. Match Any is an OR operator and will let us search for criteria that matches either of our URIs.
9. Click the **Any Field** drop-down and select **URI**.
10. Select the includes (\approx) symbol.
11. Type a URI for one of your web servers in the text field. We will add `assets.example.com`.
12. Click **Add Filter** inside the white box to add a second URI filter to the group.
13. Click the **Any Field** drop-down and select **URI**.
14. Select the includes (\approx) symbol.
15. Type a URI for one of your web servers in the text field. We will add `media.example.com`.

16. In the Custom Display Name field, type a descriptive name to make the filter easy to identify on the results page, otherwise the display name shows the first filter and the number of other applied rules:

A screenshot of a filter display name in a light blue box. The text reads "All of 'Status Code ≥ 400', and 3 other rules". To the right of the text are two small icons: a pencil (edit) and an 'x' (delete).

We will type "Slow and Broken Web Assets" in the field.

17. Click **Save**.

After you click **Save**, the query automatically runs, and returns records that match either URI and that have either a status code equal to or greater than 400 or a processing time that is greater than 750 milliseconds.

Next steps

You can click **Save Query as...** from the top right of the page to save your criteria for another time.