Create a device group based on discovery time

Published: 2022-04-04

The ExtraHop system automatically discovers devices that send and receive traffic over the wire. In addition to the built-in groups that discover devices added in the last 24 hours and the last 7 days, you can create a custom dynamic device group that automatically adds devices that were discovered during a specific time interval.

To learn about the different time formats, see Discovery time formats.

1. Log in to the ExtraHop system through `https://<extrahop-hostname-or-IP-address>`.
2. At the top of the page, click **Assets**, and then click **Device Groups** in the left pane.
3. In the upper right corner, click **Create Device Group**.
4. In the **Group Name**field, type a name for the device group.
5. In the **Group Description**field, type any information that can serve as a reference for the discovery time range you specify.
6. In the Group Type section, click **Dynamic**.
   The Filter Criteria section appears.
7. Select a match operators from the drop-down list:

Option	Description
Match All	Filters only devices that match all of the specified filter criteria.
Match Any	Filters devices that matches any of the specified filter criteria.
Match None	Filters devices that do not match any of the specified filter criteria.

8. From the categories drop-down list, click **Discovery time**.
9. Select a search operator from the drop-down list:

Option	Description
=	Filters devices that are an exact match of the discovery time interval.
≠	Filters devices that do not exactly match the discovery time interval.

10. In the **From (In Unix time)** field, complete one of the following steps:
    - Leave this field empty to specify the first time your system received traffic.
    - Enter a fixed date in the Unix Epoch time format or type a value in the relative time format.
11. In the **Until (In Unix time)** field, complete of the following steps:
    - Leave this field empty to specify the present.

      Important: If the From field is empty, you cannot leave the Until field empty and must enter a fixed or relative time format.
    - Enter a fixed date in the Unix Epoch time format or type a value in the relative time format.

      Important: The format of the Until field must match the format of the From field.
12. Click **Save**.

Next steps

- Create a chart in your dashboard and select your new device group as the source
- Filter activity map connections by group

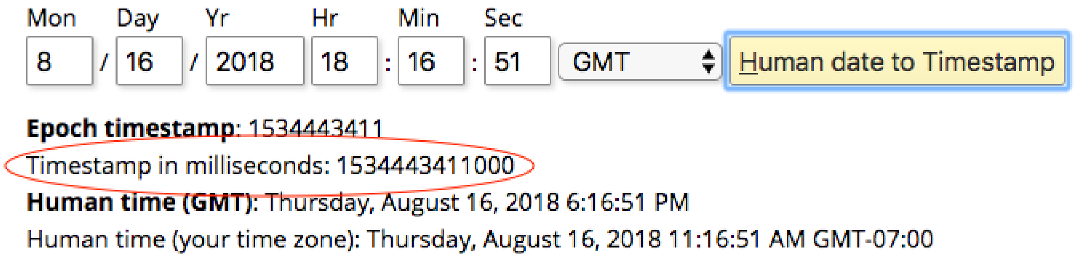
Discovery time formats

When creating a custom device group for devices discovered during a specific time interval, the discovery time criteria must be either in Unix Epoch time or a relative time range.

Unix Epoch time

Specific dates must be converted to Unix Epoch time. This conversion helps alleviate discrepancies between time zones and different server times.

You can convert your date into a timestamp with an online tool, such as https://www.epochconverter.com/. After creating the Unix Epoch timestamp, copy and paste the timestamp into the FROM and UNTIL fields for your device group criteria. The timestamp must include milliseconds. For example, to specify August 16, 2018, 6:16:51 PM, enter `1534443411000`, as shown in the following figure.



Mon 8 / Day 16 / Yr 2018 Hr 18 : Min 16 : Sec 51 GMT

Epoch timestamp: 1534443411
Timestamp in milliseconds: 1534443411000
Human time (GMT): Thursday, August 16, 2018 6:16:51 PM
Human time (your time zone): Thursday, August 16, 2018 11:16:51 AM GMT-07:00

Example of a valid Unix Epoch time entry

1534238700000

Example of an invalid Unix Epoch time entry

1534238700000ms

Relative time range

To specify a point in time relative to another time point, such as one week ago from now, you must prepend a minus sign to a value and then append one of the following time units: y, M, w, d, h, m, ms. For example, type `-1w` to specify one week ago. You cannot specify a future time range. Relative time ranges must begin with a negative value.

The following table displays supported time units.

Time Unit	Unit Suffix
Year	y
Month	M
Week	w
Day	d
Hour	h
Minute	m
Second	s
Millisecond	ms

Example of a valid relative time entry

-12h

Examples of invalid relative time entry

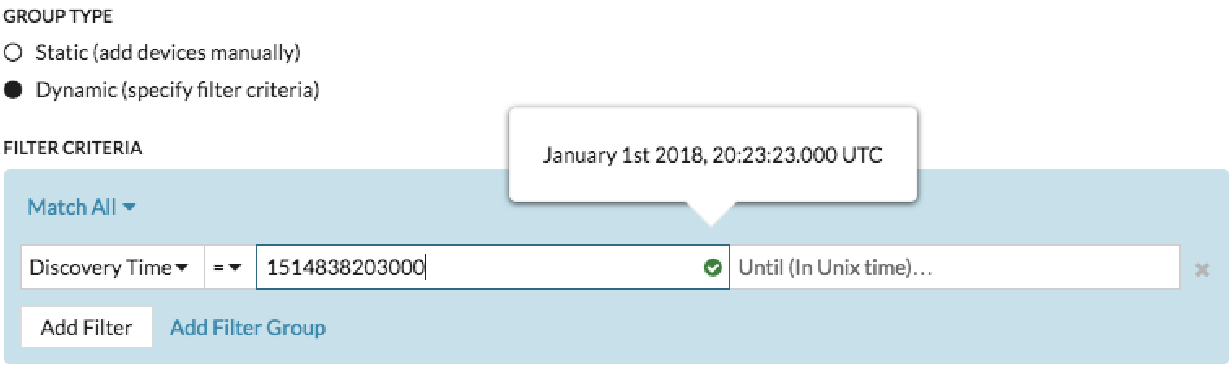
12h

-12H

Discovery time criteria examples

Here are examples of criteria for different discovery time ranges.

From Jan 1, 2018 12:23:23:00 UTC until now



GROUP TYPE

○ Static (add devices manually)

● Dynamic (specify filter criteria)

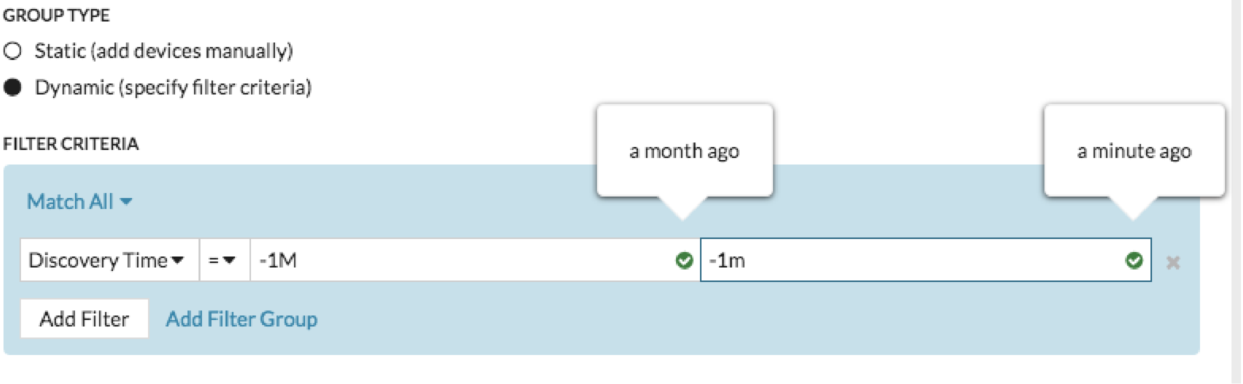
FILTER CRITERIA

January 1st 2018, 20:23:23.000 UTC

Match All

Discovery Time | = | 1514838203000 | Until (In Unix time)...

From one month ago until one minute ago



GROUP TYPE

○ Static (add devices manually)

● Dynamic (specify filter criteria)

FILTER CRITERIA

a month ago

a minute ago

Match All

Discovery Time | = | -1M | -1m