

Packets

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A network packet is a small amount of data sent over Transmission Control Protocol/Internet Protocol (TCP/IP) networks. The ExtraHop system enables you to continuously collect, search, and download these packets with a Trace appliance, which can be useful to detect network intrusions and other suspicious activity.

You can search for and download packets from the Packets page in the ExtraHop system and through the [Packet Search](#) resource in the ExtraHop REST API. Downloaded packets can then be analyzed through a third-party tool, such as Wireshark.

Note: If you do not have a Trace appliance, you can still collect packets through [triggers](#). See [Initiate precision packet captures to analyze zero window conditions](#) for an example.

Query for packets

Launch a quick packet query by clicking **Packets** from the top menu. The ExtraHop system queries for all packets and displays the Packet Query page. If you change the time interval, the query starts again. Either end of the gray bar displays a timestamp, which is determined by the current time interval. The time on the right displays the starting point of the query and the time on the left displays the endpoint of the query. The blue bar indicates the time range during which the system found packets. You can drag to zoom on a period of time in the blue bar to run a query again for that selected time interval.

The following figure provides an overview of the Packet Query page and features:

The screenshot shows the ExtraHop interface for the 'Packets' section. Annotations point to various features:

- Set time interval:** Points to the 'Last 5 minutes' dropdown menu.
- Filter the results:** Points to the 'BPF' dropdown and the 'Add Filter' button.
- Start a packet query:** Points to the 'Packet Query' section, which includes a time range bar (From Feb 23, 1:51:02 pm to Until Feb 23, 1:56:02 pm) and a 'Download PCAP' button.
- Type an IP address in the global search field and then select Search Packets:** Points to the search bar at the top right.

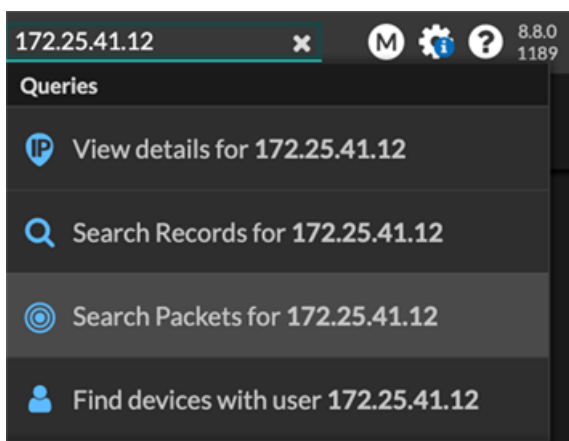
The interface also displays a table of packet details:

Time	Src IP	Dst IP	IP Proto	Src Port	Dst Port	Flags	Bytes	Src MAC	Dst MAC	EtherType	VLAN ID
2022-02-23 13:56:02.961	186.167.50.1...	121.111.2.174	TCP	443	48688	ACK	70	DC:6F:D0:59:EF:0E	A2:64:89:11:F3:88	IPv4	783
2022-02-23 13:56:02.961	3.35.130.204	21.211.155.79	TCP	48688	443	ACK	1,433	3B:0E:09:09:45:17	71:EE:94:8D:5C:83	IPv4	-
2022-02-23 13:56:02.961	78.35.222.158	31.153.158.181	TCP	48688	443	ACK	1,433	71:9A:F2:91:87:26	DC:F4:D1:BA:46:56	IPv4	-
2022-02-23 13:56:02.961	142.183.184...	118.82.23.240	TCP	48688	443	ACK	1,433	24:6E:A0:46:9A:DC	A1:4F:11:A9:37:F2	IPv4	-
2022-02-23 13:56:02.961	192.168.226...	192.168.185.1...	TCP	8081	52352	PSH ACK	90	8F:0A:71:51:56:E8	C9:84:C4:2F:2F:9A	IPv4	-
2022-02-23 13:56:02.961	97.111.51.66	191.13.40.66	TCP	48688	443	ACK	1,433	9E:66:75:AA:31:55	B3:2E:66:AD:80:8E	IPv4	-
2022-02-23 13:56:02.961	92.13.1.59	21.198.123.176	TCP	443	48688	ACK	70	26:64:47:AF:35:8E	C1:35:C2:BB:0D:A4	IPv4	783
2022-02-23 13:56:02.961	220.171.24.1...	35.158.243.117	TCP	48688	443	ACK	1,433	A9:6E:7A:61:E9:C2	4B:89:89:31:7A:97	IPv4	-
2022-02-23 13:56:02.961	192.168.62.34	7.174.159.166	UDP	48388	7351	-	181	3F:B1:05:6F:2C:FE	E7:A1:A3:EB:2E:00	IPv4	1020
2022-02-23 13:56:02.961	222.224.218...	148.147.36.243	TCP	443	48688	ACK	70	7C:03:D2:5F:19:79	E2:F3:03:D4:21:E9	IPv4	783

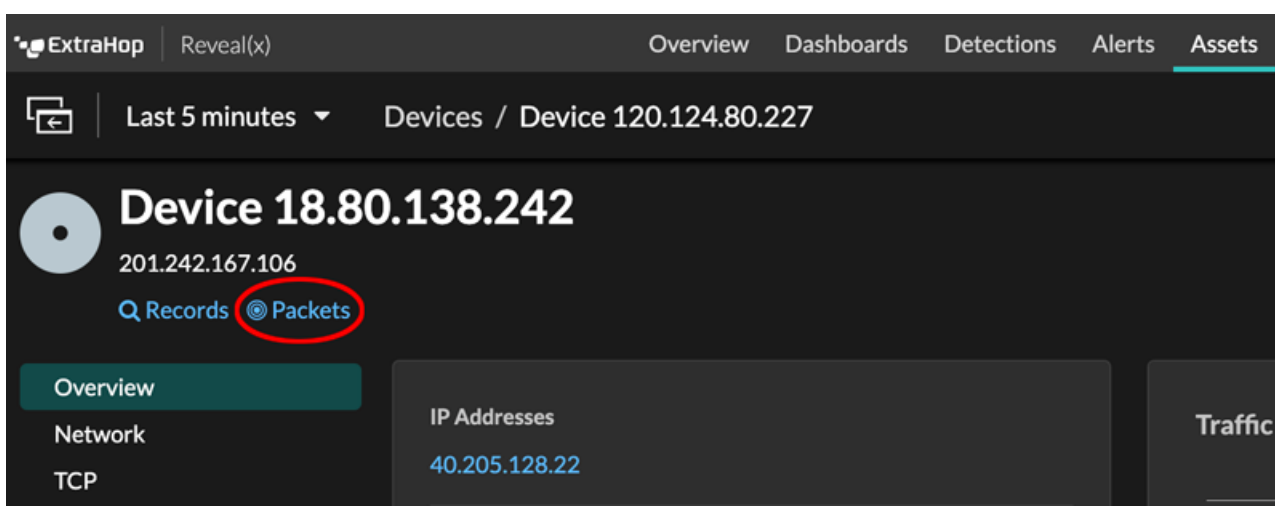
Tip: [Filter packets with Berkeley Packet Filter syntax](#).

There are multiple locations in the ExtraHop system from which you can initiate a packet query:

- Type an IP address in the global search field and then select the Search Packets icon .



- Click **Packets** on a device page.



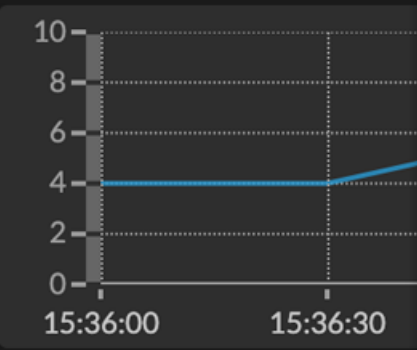
- Click the Packets icon next to any record on a record query results page.

	Time ↓	Record Type
	2022-02-23 15:04:08.999	DNS Response
	2022-02-23 15:04:08.999	DNS Request
	2022-02-23 15:04:08.998	Flow
	2022-02-23 15:04:08.998	Flow
	2022-02-23 15:04:08.998	SSL Close

- Click on an IP address or hostname in any chart with metrics for network bytes or packets by IP address to see a context menu. Then, click the Packets icon to query for the device and time interval.

Overview Dashboards Detections Alerts Assets

Threat Hunting / HTTP



10
8
6
4
2
0

15:36:00 15:36:30

Any Field ▼ ≈ ▼

	Client IP
<input type="text" value="100.152.8.59"/>	100.152.8.59
<input type="text" value="192.168.23.82"/>	192.168.23.82

100.152.8.59
External Endpoint
Las Vegas, Nevada, United States

myip.opendns.com

Go To

- [ARIN Whois Lookup](#)
- [Records](#)
- [Packets](#)

[Go to IP Address Details](#)