

Specify high value devices through the REST API

Published: 2025-03-25

The ExtraHop REST API enables you to specify that a device is high value. You can specify the device through the REST API Explorer or automate the procedure by reading device criteria from a CSV or similar file through a REST API script.

Before you begin

- For RevealX 360, you must have valid REST API credentials to make changes through the REST API and complete the procedures below. (See [Create REST API credentials](#).)
- For sensors and the ExtraHop console, you must have a valid API key to make changes through the REST API and complete the procedures below. (See [Generate an API key](#).)

Specify a high value device through the REST API Explorer

Retrieve the ID of the device

Before you can specify a high value device, you must retrieve the REST API ID of the device.

1. In a browser, navigate to the REST API Explorer.
The URL is the hostname or IP address of your sensor or console, followed by `/api/v1/explore/`. For example, if your hostname is `seattle-eda`, the URL is `https://seattle-eda/api/v1/explore/`.
2. Enter your REST API credentials.
 - For sensors and the ExtraHop console, click **Enter API Key** and then paste or type your API key into the **API Key** field.
 - For RevealX 360, click **Enter API Credentials** and then paste or type the ID and secret of your API credentials into the **ID** and **Secret** fields.
3. Click **Authorize** and then click **Close**.
4. Click **POST /devices/search**.
5. Click **Try it out**.
The JSON schema is automatically added to the body parameter text box.
6. In the body text box, type search criteria that selects the device.
The following search criteria returns a device with an IP address of 10.10.10.200:

```
{
  "filter": {
    "field": "ipaddr",
    "operand": "10.10.10.200",
    "operator": "="
  }
}
```

For more information about device search filters, see [Operand values for device search](#).

7. Click **Send Request**.
In the Response body section, note the `id` field of the device.

Specify a high value device

1. Click **PATCH /devices/{id}**.

2. Click **Try it out**.
3. In the **body** field, type the following JSON object:

```
{
  "custom_criticality": "critical"
}
```

4. In the **id** field, type the ID of the device that **you retrieved in the previous procedure**.
 5. Click **Send Request**.
- If the request is successful, a 204 response code appears in the Server response section.

Retrieve and run the example Python script

The ExtraHop GitHub repository contains an example Python script that reads a list of IP addresses from a CSV file and specifies all devices with those addresses as high value.

1. Go to the [ExtraHop code-examples GitHub repository](#) and download the contents of the `specify_high_value` directory to your local machine.
2. In a text editor, open the `ip_list.csv` file and replace the IP addresses with the IP addresses of the devices you want to specify as high value.
3. In a text editor, open the `specify_high_value.py` file and replace the configuration variables with information from your environment.
 - For sensors and ExtraHop consoles, specify the following configuration variables:
 - **HOST:** The IP address or hostname of the sensor or ExtraHop console.
 - **API_KEY:** The API key.
 - For RevealX 360, specify the following configuration variables:
 - **HOST:** The hostname of the RevealX 360 API. This hostname is displayed in the RevealX 360 API Access page under API Endpoint. The hostname does not include the `/oauth2/token`.
 - **ID:** The ID of the RevealX 360 REST API credentials.
 - **SECRET:** The secret of the RevealX 360 REST API credentials.
4. Run the following command:

```
python3 specify_high_value.py
```



Note: If the script returns an error message that the TLS certificate verification failed, make sure that **a trusted certificate has been added to your sensor or console**. Alternatively, you can add the `verify=False` option to bypass certificate verification. However, this method is not secure and is not recommended. The following code sends an HTTP GET request without certificate verification:

```
requests.get(url, headers=headers, verify=False)
```