

Specify high value devices through the REST API

Published: 2022-07-19

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 sensors and ECA VMs, you must have a valid API key to make changes through the REST API and complete the procedures below. (See [Generate an API key](#).)
- For Reveal(x) 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](#).)

Specify a high value device through the REST API Explorer

 **Important:** The REST API Explorer is not available on Reveal(x) 360.

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. Click **Enter API Key** and then paste or type your API key into the **API Key** field.
3. Click **Authorize** and then click **Close**.
4. Click **GET /devices**.
5. Click **Try it out**.
6. Click the **search_type** drop-down and select a search filter. Then, enter a criterion that identifies the device in the value field.
For example, to search for a device by IP address, select **ip address** and then type the IP address in the value field.
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 ECA VMs, specify the following configuration variables:
 - **HOST:** The IP address or hostname of the sensor or ECA VM.
 - **API_KEY:** The API key.
 - For Reveal(x) 360, specify the following configuration variables:
 - **HOST:** The hostname of the Reveal(x) 360 API. This hostname is displayed in the Reveal(x) 360 API Access page under API Endpoint. The hostname does not include the `/oauth/token`.
 - **ID:** The ID of the Reveal(x) 360 REST API credentials.
 - **SECRET:** The secret of the Reveal(x) 360 REST API credentials.
4. Run the following command:

```
python3 specify_high_value.py
```

 **Note:** If the script returns an error message that the SSL 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 not recommended. The following code sends an HTTP GET request without certificate verification:

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