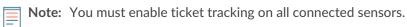
# **Enable detection tracking**

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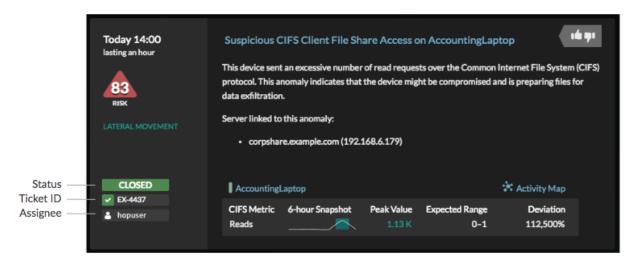
Detection tracking enables you to assign a detection to a user, set the status, and add notes. You can track detections directly in the ExtraHop system, with a third-party external ticketing system, or with both methods.



# Before you begin

- You must have access to an ExtraHop system with a user account that has Administration privileges Z.
- After you enable external ticket tracking, you must configure third-party ticket tracking by writing a trigger to create and update tickets on your ticketing system, then enable ticket updates on your ExtraHop system through the REST API.
- If you disable external ticket tracking, previously stored status and assignee ticket information is converted to ExtraHop detection tracking. If detection tracking from within the ExtraHop system is enabled, you will be able to view tickets that already existed when you disabled external ticket tracking, but changes to that external ticket will not appear in the ExtraHop system.
- 1. Log in to the Administration settings on the ExtraHop system through https://<extrahophostname-or-IP-address>/admin.
- 2. In the System Configuration section, click **Detection Tracking**.
- 3. From the Overview page, click System Settings 🏶 and then click All Administration.
- 4. From the Console Settings section, click Detection Tracking.
- 5. Select one or both of the following methods for tracking detections:
  - Select Enable ExtraHop users to track detections from within the ExtraHop system.
  - Select Enable external integrations, such as SOAR or ticket tracking systems, to track detections through the ExtraHop Rest API.
- 6. Optional: After you select the option to enable external integrations, specify the URL template for your ticketing system and add the *\$ticket\_id* variable at the appropriate location. For example, type a complete URL such as https://jira.example.com/browse/\$ticket\_id.The *\$ticket\_id* variable is replaced with the ticket ID associated with the detection.

After the URL template is configured, you can click the ticket ID in a detection to open the ticket in a new browser tab.



Next steps

If you enabled external ticket tracking integrations, you must continue on to the following task:

• Configure third-party ticket tracking for detections

# Configure third-party ticket tracking for detections

Ticket tracking enables you to connect tickets, alarms, or cases in your work-tracking system to ExtraHop detections. Any third-party ticketing system that can accept Open Data Stream (ODS) requests, such as Jira or Salesforce, can be linked to ExtraHop detections.

#### Before you begin

- You must have selected the third-party detection tracking option in Administration settings.
- You must have access to an ExtraHop system with a user account that has System and Access Administration privileges .
- You must be familiar with writing ExtraHop Triggers. See Triggers ☑ and the procedures in Build a trigger ☑.
- You must create an ODS target for your ticket tracking server. See the following topics about configuring ODS targets: HTTP 🖉, Kafka 🖉, MongoDB 🖄, syslog 🖄, or raw data 🖉.
- You must be familiar with writing REST API scripts and have a valid API key to complete the procedures below. See Generate an API key 2.

# Write a trigger to create and update tickets about detections on your ticketing system

This example shows you how to create a trigger that performs the following actions:

- Create a new ticket in the ticketing system every time a new detection appears on the ExtraHop system.
- Assign new tickets to a user named escalations\_team in the ticketing system.
- Run every time a detection is updated on the ExtraHop system.
- Send detection updates over an HTTP Open Data Stream (ODS) to the ticketing system.

The complete example script is available at the end of this topic.

- 1. Log in to the ExtraHop system through https://<extrahop-hostname-or-IP-address>.
- 2. Click the System Settings icon 🏶 and then click **Triggers**.
- 3. Click New.
- 4. Specify a name and optional description for the trigger.
- 5. From the Events list, select **DETECTION\_UPDATE**.

The DETECTION\_UPDATE event runs every time that a detection is created or updated in the ExtraHop system.

6. In the right pane, specify Detection class 🛛 parameters in a JavaScript object. These parameters determine the information that is sent to your ticketing system.

The following example code adds the detection ID, description, title, categories, MITRE techniques and tactics, and risk score to a JavaScript object called payload:



 Next, define the HTTP request parameters in a JavaScript object below the previous JavaScript object. The following example code defines an HTTP request for the payload described in the previous example: defines a request with a JSON payload:

```
const req = {
    'path': '/rest/api/issue',
    'headers': {
        'Content-Type': 'application/json'
    },
    'payload': JSON.stringify(payload)
};
```

For more information about ODS request objects, see Open data stream classes .

8. Finally, specify the HTTP POST request that sends the information to the ODS target. The following example code sends the HTTP request described in the previous example to an ODS target named ticket-server:

Remote.HTTP('ticket-server').post(req);

The complete trigger code should look similar to the following example:

# Send ticket information to detections through the REST API

After you have configured a trigger to create tickets for detections in your ticket tracking system, you can update ticket information on your ExtraHop system through the REST API.

Ticket information appears in detections on the Detections page in the ExtraHop system. For more information, see the Detections 🛛 topic.

The following example Python script takes ticket information from a Python array and updates the associated detections on the ExtraHop system.

```
#!/usr/bin/python3
import json
import requests
API_KEY = '123456789abcdefghijklmnop'
# Method that updates detections on an ExtraHop system
def updateDetection(detection):
                 'Accept': 'application/json',
                'Authorization': 'ExtraHop apikey=%s' % API KEY}
    r = requests.patch(url, data=data, headers=headers)
    print(r.status code)
                       "ticket id": "TK-16982",
                       "detection id": "2"
                       "assignee": "jim",
"resolution": None,
                       "ticket id": "TK-3452",
                       "status": None,
                       "assignee": "alex",
"resolution": None,
```

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**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 Z. 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)

After ticket tracking is configured, ticket details are displayed in the left pane of the detection details, similar to the following figure:

Today 14:00 lasting an hour	Suspicious CIFS Client File Share A	access on AccountingLaptop	
83 RISK	This device sent an excessive number of read requests over the Common Internet File System (CIFS) protocol. This anomaly indicates that the device might be compromised and is preparing files for data exfiltration.		
LATERAL MOVEMENT	Server linked to this anomaly:		
	corpshare.example.com (192.168.6.179)		
Status CLOSED	AccountingLaptop	🍀 Activity Map	
Ticket ID		k Value Expected Range Deviation 1.13 K 0–1 112,500%	

### Status

The status of the ticket associated with the detection. Ticket tracking supports the following statuses:

- New
- In Progress
- Closed
- Closed with Action Taken
- Closed with No Action Taken

#### Ticket ID

The ID of the ticket in your work-tracking system that is associated with the detection. If you have configured a template URL, you can click the ticket ID to open the ticket in your work-tracking system.

#### Assignee

The username assigned to the ticket associated with the detection. Usernames in gray indicate a non-ExtraHop account.