ThreatQuotient

Splunk Lookup Action

Version 1.0.1

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ThreatQ Supported

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.1
Compatible with ThreatQ Versions	>= 5.6.0
Compatible with Splunk Versions	Enterprise and Cloud 9.0.x, 9.1.x, 9.2.x
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported

Introduction

The Splunk Lookup Action for ThreatQ allows an analyst to query Splunk for more information about a given IOC.

The integration provides the follow action:

- **Splunk Lookup** - performs a lookup within Splunk to locate logs related to the submitted indicator as well as optionally create events based on related sighting information.

The action is compatible with the following indicator types:

- CVE
- FQDN
- IP Address
- IPv6 Address
- MD5
- SHA-1
- SHA-256
- SHA-384
- SHA-512
- URL

The action returns enriched indicators.

> This action is intended for use with ThreatQ TDR Orchestrator (TQO). An active TQO license is required for this feature.

Prerequisites

- An active ThreatQ TDR Orchestrator (TQO) license.
- An active Splunk instance on Splunk Enterprise or Cloud versions 9.0.x, 9.1.x, 9.2.x.
  - A Splunk username.
  - The Splunk password associated with the username.
- A data collection containing at least one of the following indicator types:
  - CVE
  - FQDN
  - IP Address
  - IPv6 Address
  - MD5
  - SHA-1
  - SHA-256
  - SHA-384
  - SHA-512
  - URL

Installation

Perform the following steps to install the integration:

> The same steps can be used to upgrade the integration to a new version.

1. Log into https://marketplace.threatq.com/.
2. Locate and download the action zip file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the action zip file using one of the following methods:
   - Drag and drop the zip file into the dialog box
   - Select **Click to Browse** to locate the zip file on your local machine

   > ThreatQ will inform you if the action already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the action contains changes to the user configuration. The new user configurations will overwrite the existing ones for the action and will require user confirmation before proceeding.

You will still need to configure the action.

Configuration

> ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other integration-related credentials.

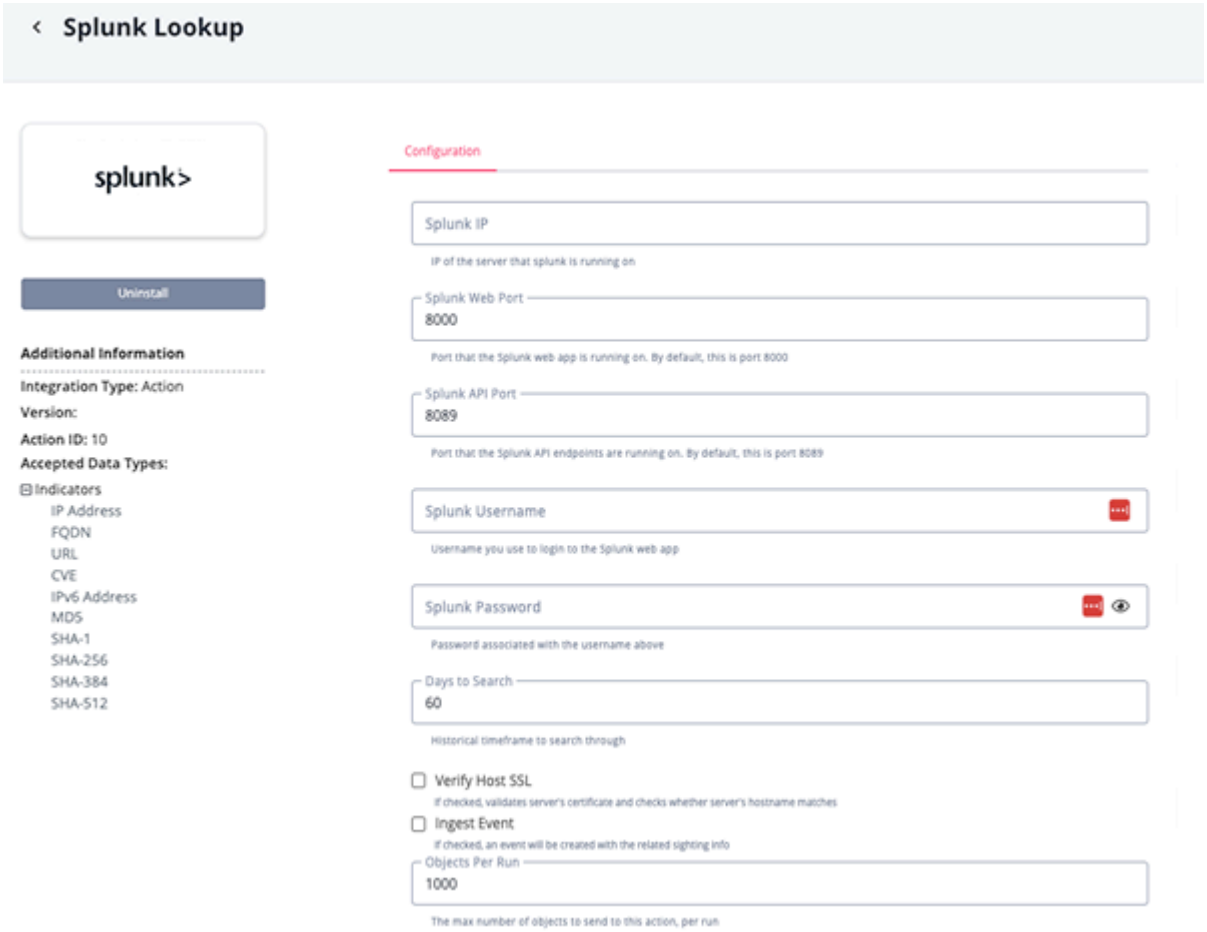
To configure the integration:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Actions** option from the *Category* dropdown (optional).
3. Click on the action entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

> The configurations set on this page will be used as the default settings when inserting this action into a new workflow. Updating the configurations on this page will not update any instances of this action that have already been deployed to a workflow. In that scenario, you must update the action's configurations within the workflow itself.

PARAMETER	DESCRIPTION
Splunk IP	The IP Address of the Splunk server.
Splunk Web Port	The port that the Splunk web app is running on. The default port is 8000.
Splunk API Port	The port that the Splunk API endpoints are running on. The default port is 8089.
Splunk Username	Your Splunk username you use to log into the Splunk web app.
Splunk Password	The password associated with the username above.
Days to Search	The historical timeframe to search. The default setting is 60 days from present.
Verify Host SSL	If enabled, the action will validate the server's certificate and confirm that the server's hostname match.

PARAMETER	DESCRIPTION
Ingest Event	Enable this option to create an event that contains the related sighting information.
Objects Per Run	The max number of objects to submit per run.



5. Review any additional settings, make any changes if needed, and click on **Save**.

Actions

The following action is available:

ACTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
Splunk Lookup	Performs a lookup within Splunk to locate logs related to the submitted indicators.	Indicator	IP Address, FQDN, URL, CVE, IPv6 Address, MD5, SHA-1, SHA-256, SHA-384, SHA-512

Splunk Lookup

The Splunk Lookup action performs a lookup within Splunk to locate logs related to the submitted indicator.

```
GET https://{{splunk_ip}}:{{splunk_api_port}}/services/search/jobs/export?
search= search {{object.value}} sourcetype!="threatq:indicators" earliest=-
{{days_to_search}}d&latest=now | table host, source, sourcetype, _raw, _time
```

Sample Response:

```
<?xml version='1.0' encoding='UTF-8'?>
<results preview='0'>
    <meta>
        <fieldOrder>
            <field>_bkt</field>
            <field>_cd</field>
            <field>_indextime</field>
            <field>_raw</field>
            <field>_serial</field>
            <field>_si</field>
            <field>_sourcetype</field>
            <field>_time</field>
            <field>host</field>
            <field>index</field>
            <field>linecount</field>
            <field>source</field>
            <field>sourcetype</field>
            <field>splunk_server</field>
        </fieldOrder>
    </meta>
    <messages>
        <msg type="INFO">Your timerange was substituted based on your search
string</msg>
    </messages>
    <result offset='0'>
        <field k='_bkt'>
            <value>
                <text>main~1~71D38691-066C-4C7C-B5BB-C082AAB8C4D9</text>
            </value>
        </field>
        <field k='_cd'>
            <value>
                <text>1:12577</text>
            </value>
        </field>
        <field k='_indextime'>
            <value>
                <text>1715845581</text>
            </value>
```

```
        </field>
        <field k='_raw'>
            <v xml:space='preserve' trunc='0'>117.21.246.164 - - [16/May/
2024:09:45:05] &quot;GET /category.screen?
categoryId=ACCESSORIES&amp;JSESSIONID=SD9SL6FF8ADFF5015 HTTP 1.1&quot; 200 689
&quot;http://www.buttercupgames.com/oldlink?itemId=EST-7&quot; &quot;Googlebot/
2.1 (http://www.googlebot.com/bot.html)&quot; 673
</v>
        </field>
        <field k='_serial'>
            <value>
                <text>0</text>
            </value>
        </field>
        <field k='_si'>
            <value>
                <text>localhost.localdomain</text>
            </value>
            <value>
                <text>main</text>
            </value>
        </field>
        <field k='_sourcetype'>
            <value>
                <text>TQDemo</text>
            </value>
        </field>
        <field k='_time'>
            <value>
                <text>2024-05-16 09:45:05.000 CEST</text>
            </value>
        </field>
        <field k='host'>
            <value>
                <text>127.0.0.1</text>
            </value>
        </field>
        <field k='index'>
            <value>
                <text>main</text>
            </value>
        </field>
        <field k='linecount'>
            <value>
                <text>2</text>
            </value>
        </field>
        <field k='source'>
            <value>
                <text>TQDemo_data</text>
```

```
            </value>
        </field>
        <field k='sourcetype'>
            <value>
                <text>TQDemo</text>
            </value>
        </field>
        <field k='splunk_server'>
            <value>
                <text>localhost.localdomain</text>
            </value>
        </field>
    </result>
    <result offset='1'>
        <field k='_bkt'>
            <value>
                <text>main~1~71D38691-066C-4C7C-B5BB-C082AAB8C4D9</text>
            </value>
        </field>
        <field k='_cd'>
            <value>
                <text>1:12566</text>
            </value>
        </field>
        <field k='_indextime'>
            <value>
                <text>1715845581</text>
            </value>
        </field>
        <field k='_raw'>
            <v xml:space='preserve' trunc='0'>209.160.24.63 - - [16/May/
2024:09:43:27] &quot;GET /oldlink?itemId=EST-6&amp;JSESSIONID=SD0SL6FF7ADFF4953
HTTP 1.1&quot; 200 1748 &quot;http://www.buttercupgames.com/oldlink?
itemId=EST-6&quot; &quot;Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/536.5
(KHTML, like Gecko) Chrome/19.0.1084.46 Safari/536.5&quot; 731
</v>
        </field>
        <field k='_serial'>
            <value>
                <text>1</text>
            </value>
        </field>
        <field k='_si'>
            <value>
                <text>localhost.localdomain</text>
            </value>
            <value>
                <text>main</text>
            </value>
        </field>
```

```
        <field k='_sourcetype'>
            <value>
                <text>TQDemo</text>
            </value>
        </field>
        <field k='_time'>
            <value>
                <text>2024-05-16 09:43:27.000 CEST</text>
            </value>
        </field>
        <field k='host'>
            <value>
                <text>127.0.0.1</text>
            </value>
        </field>
        <field k='index'>
            <value>
                <text>main</text>
            </value>
        </field>
        <field k='linecount'>
            <value>
                <text>2</text>
            </value>
        </field>
        <field k='source'>
            <value>
                <text>TQDemo_data</text>
            </value>
        </field>
        <field k='sourcetype'>
            <value>
                <text>TQDemo</text>
            </value>
        </field>
        <field k='splunk_server'>
            <value>
                <text>localhost.localdomain</text>
            </value>
        </field>
    </result>
</results>
```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
results.result[].field[].value.text	Related Attribute.Value	Host	results.result[].field[].value.text	`127.0.0.1`	N/A
results.result[].field[].value.text	Related Attribute.Value	Source	results.result[].field[].value.text	`TQDemo_data`	N/A
results.result[].field[].value.text	Related Attribute.Value	Source Type	results.result[].field[].value.text	`TQDemo`	N/A

Get Sighting Information Supplemental Call

```
GET https://{{splunk_ip}}:{{splunk_api_port}}/services/search/jobs/export?search= search {{object.value}} sourcetype!="threatq:indicators" earliest=-{{days_to_search}}d&latest=now | table host, source, sourcetype, _time | stats count as Total , earliest(_time) as start, latest(_time) as stop | table start, stop, Total&output_mode=json
```

Sample Response:

```
{
    "preview": false,
    "offset": 0,
    "lastrow": true,
    "result": {
        "start": "1720337199",
        "stop": "1720421433",
        "Total": "36"
    }
}
```

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
results.start	Event.Attribute	First Sighting	N/A	`2024-07-07 07:26:39+00:00`	We use a timestamp filter to convert the epoch time to date
results.stop	Event.Attribute	Last Sighting	N/A	`2024-07-08 06:50:33+00:00`	We use a timestamp filter to convert the epoch time to date
results.Total	Event.Attribute	Count of total sightings	N/A	`36`	N/A
N/A	Event.Attribute	Splunk Query Link	N/A	`https://{{splunk_ip}}:{{splunk_web_port}}/en-GB/app/search/search?q=search {{object.value}} sourcetype!=threatq:indicators earliest=-{{days_to_search}}d latest=now | table host, source, sourcetype, _time | stats count as Total , earliest(_time) as start, latest(_time) as stop | table start, stop, Total&output_mode=json`	N/A

Enriched Data

Object counts and action runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and action runtime may vary based on system resources and load.

METRIC	RESULT
Run Time	1 minute
Indicators	6
Indicator Attributes	18

Use Case Example

- A Threat Analyst identifies a collection of supported objects they would like to enrich.
- The Threat Analyst adds the Splunk Lookup to a Workflow
- The Threat Analyst configures the action with the desired parameters, and enables the Workflow
- The Workflow executes all Actions in the graph, including Splunk Lookup
- The Workflow enriches the objects with Splunk data

Change Log

- **Version 1.0.1**
  - Added a new configuration option, Ingest Event, which allows users to create events from related sighting information.
- **Version 1.0.0**
  - Initial release