

ThreatQuotient



ServiceNow App User Guide

Version 1.3.0

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ThreatQuotient

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 **ThreatQ Supported**

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Support

This integration is designated as **ThreatQ Supported**.

Support Email: support@threatq.com

Support Web: <https://support.threatq.com>

Support Phone: 703.574.9893

Integrations/apps/add-ons designated as **ThreatQ Supported** are fully supported by ThreatQuotient's Customer Support team.

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Integration Details

ThreatQuotient provides the following details for this integration:

Current App Version	1.3.0
Compatible with ThreatQ Versions	>=5.16.0
Validated	Tokyo, Utah, Vancouver
Support Tier	ThreatQ Supported

Introduction

The ServiceNow app is an integration that lives within the ServiceNow Marketplace and enables users to query the ThreatQ directly from the ServiceNow UI. This application has been certified by ServiceNow and is developed within their platform framework.

The current integration between ThreatQ and ServiceNow enables users to import ServiceNow Observables/Security Incidents into ThreatQ as Indicators/Security Events. This process is initiated by a ThreatQ custom connector and the data flow for this integration is one-sided and flows from ServiceNow → ThreatQ.

This integration is an inverse of the existing capabilities and is initiated by ServiceNow. The data flow for this application is in the opposite direction and flows from ThreatQ → ServiceNow.

THREATQ SERVICENOW CONNECTOR(EXISTING)

SERVICENOW APPLICATION (NEW)

**Action
Initiator**

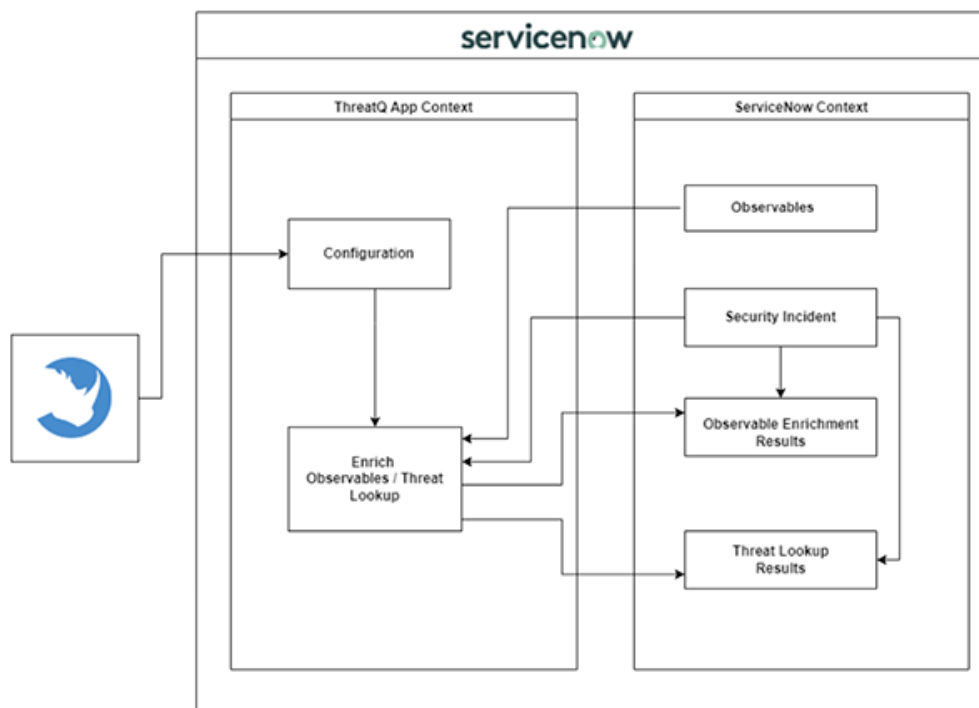
ThreatQ

ServiceNow

**Data
Flow**

ServiceNow -> ThreatQ

ThreatQ -> ServiceNow





All the calls will be made via a MID server when the On-premises deployment checkbox is checked and the MID server is selected. See the [Configuration](#) chapter for more details.

Prerequisites

Review the following requirements before attempting to install the app.

Permissions and Roles

The following ServiceNow role and the permissions that are required to install the application and to use it to view and manage the vulnerability integration on ServiceNow.

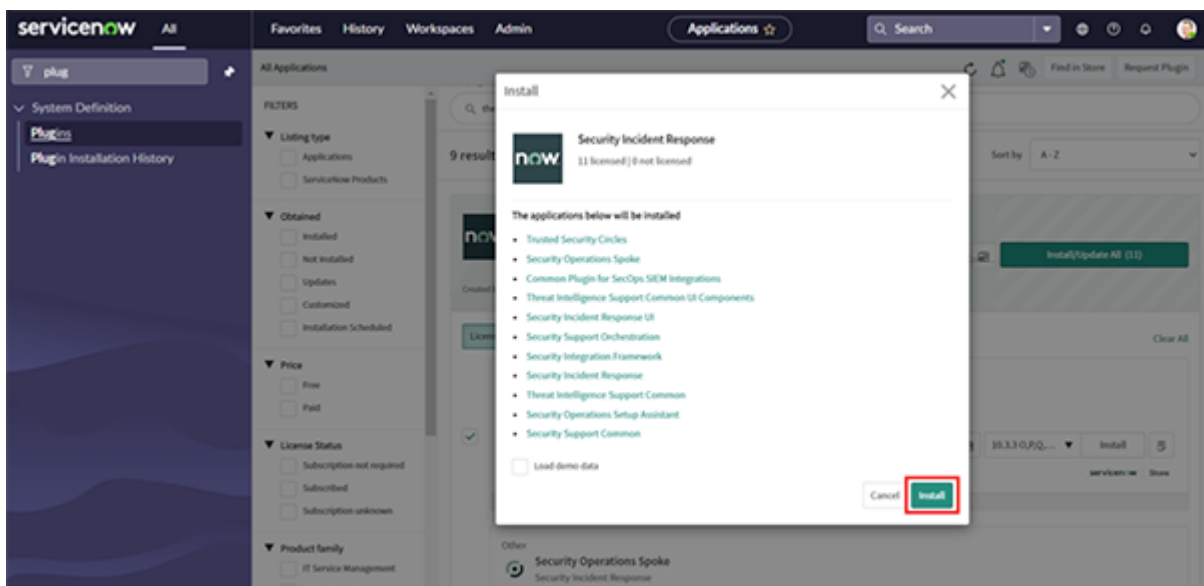
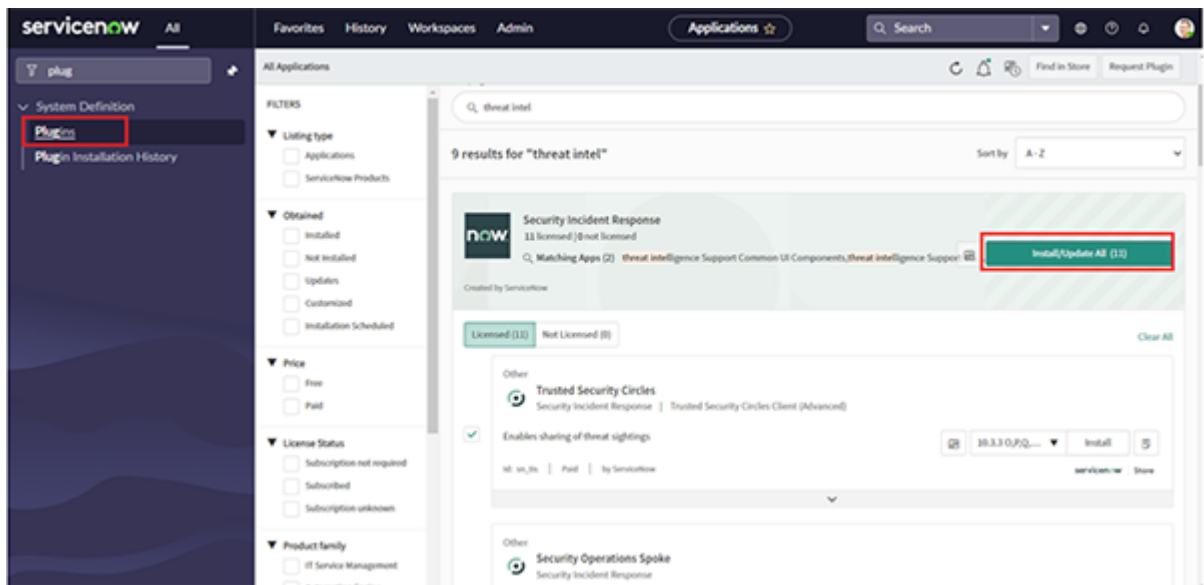
ROLE	PERMISSIONS
System Administrator (admin)	• Installation of the application • Configure integration tile • Perform Observable Enrichment and Threat Lookup • See ThreatQ details in Threat Lookup and Observable Enrichment Results • Uninstallation of the application
MID Server User (mid_server)	• Pull data from the on-premise platform

ServiceNow Required Plugins

The Threat Intelligence and Security Incident Response ServiceNow plugins are required by app and must be installed and activated.

To install this plugins:

1. Log into your instance with your user credentials.
2. Verify you have the system administrator (admin) role.
3. Navigate to **System Definition** -> **Plugins** in your instance.
4. Locate and still both plugins, **Threat Intelligence** and **Security Incident Response**, using the search.



MID Server Installation

Complete steps on setting up the MID server can be found on the ServiceNow Product Documentation site:

<https://docs.servicenow.com/bundle/vancouver-servicenow-platform/page/product/mid-server/concept/mid-server-installation.html>

OAuth Client ID and Client Secret

The ServiceNow App requires you to enter your **OAuth Client ID** and **OAuth Client Secret** when [configuring](#) the app. You can generate both using the steps below.

You can also use the steps below to view existing credentials by using an existing integration name for the `--name` flag.

1. SSH to your ThreatQ installation.
2. Navigate to the api directory:

```
cd /var/www/api
```

3. Create a OAuth Client ID and Secret using the following command:

```
php artisan threatq:oauth2-client --name <ServiceNowApp>
```

Example Output:

```
php artisan threatq:oauth2-client --name ServiceNowApp
session_timeout_minutes: 1440
name: ServiceNowApp
type: private
client_id: njnjm2qxmdjy2flmzkxmziyzgy5n2uy
client_secret: NmFkY2FiMTZhY2UwYjA5ZGFjZjUyOGQ2ZDhjOWRlMzYwOTFiNjcxNzVkNTE4NmU5
updated_at: 2022-01-06 02:03:04
created_at: 2022-01-06 02:03:04
id: 19
```

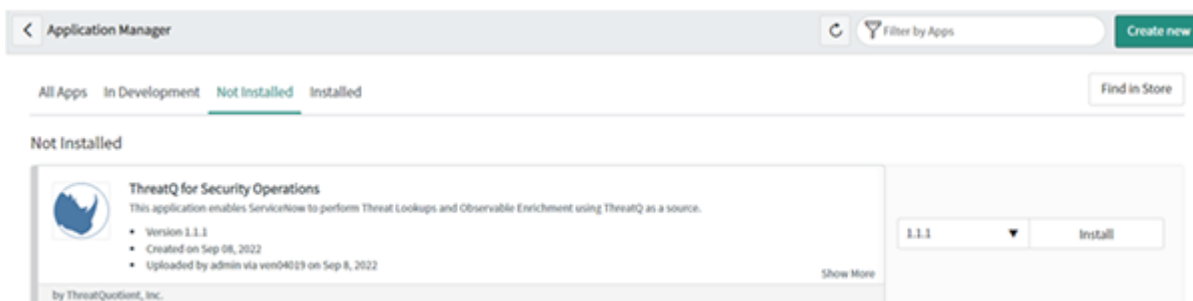
Be sure to generate **Private Type** credentials. **Public Types** will only generate Client ID and not a Client Secret. You can add a `--type private` flag to the command to ensure a **Private Type** is generated.

4. Copy the Client ID and Secret to a safe location to use when [configuring](#) integration.

Installation

Within the ServiceNow interface:

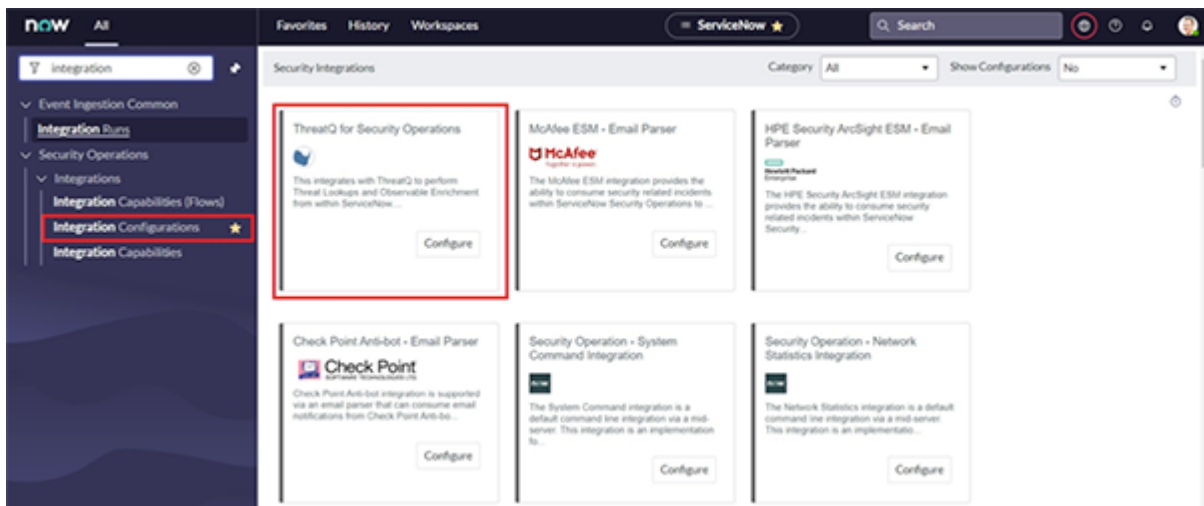
1. Use the Filter navigator and navigate to **System Applications - ServiceNow Store**.
2. Search for **ThreatQ** within the Store Application and then click the **Install** button.



Configuration

Within the ServiceNow interface:

1. Click **Security Operations >>Integration Configuration** after the application has been installed.
2. Click on the **Configure** button for the ThreatQ for Security Operations tile.



3. Complete the following configuration fields:

FIELD	DESCRIPTION
ThreatQ Hostname	Your ThreatQ instance hostname or IP.
On Premises Deployment	Enable this field for On Premise deployments.
MID Server	If using an On-Premise deployment - select a valid MID Server.
	 The Mid Server must be up and running when doing this and be accessible by the On-Premise deployment.
OAuth Client ID	This is the OAuth Client ID you generated for use with this integration. See the Prerequisites chapter for steps on how to generate or retrieve your OAuth Client ID for this integration.

FIELD	DESCRIPTION
OAuth Client Secret	This is the OAuth Client Secret associated with the OAuth Client ID above. See the Prerequisites chapter for steps on how to generate or retrieve your OAuth Client Secret for this integration.
Malicious Finding Threshold	Enter the threshold value based off of which indicators having a score equal to or higher than this number will be labeled as malicious.
Attributes	Specify comma separated ThreatQ attributes names which need to be fetched for indicator.  To get a list of the attributes in ThreatQ, navigate to Settings > Object Management > Attribute Management.
Object Properties	Specify comma separated ThreatQ properties names which need to be fetched for indicator. The property names for the enriched indicator are: Type, Status, Score, Sources, Tags. Additionally, relationships can also be ingested from ThreatQ by specifying their names: Adversaries, Asset, Attack Pattern, Campaign, Course of Action, Exploit Target, Events, Identity, Incident, Intrusion Set, Malware, Signatures, Type, TTP, Tool, Vulnerability
TQ Attribute Location	Specify the table where you want to save each indicator's attributes. Options include either Threat Lookup Results or Observable Enrichment Results .

ThreatQ for Security Operations Configuration



* ThreatQ Hostname/IP	https://abc.threatq.com/
On Premises Deployment	☐
MID Server	Any ▼
* OAuth Client ID	OAuth Client ID
* OAuth Client Secret	*****
* Malicious Finding Threshold	7
* Attributes	None
* Object Properties	Type, Status, Score, Sources, Tags
* TQ Attributes Location	Observable Enrichment Results

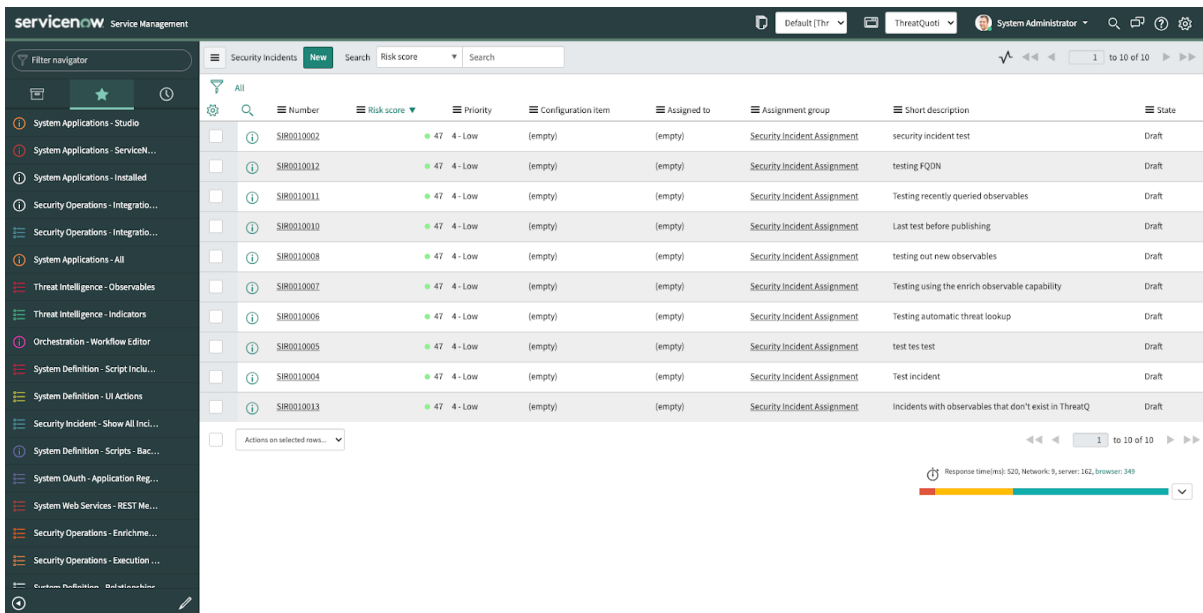
4. Click on **Submit**.

Usage

The following section will describe the steps required to create a security incident, access threat lookup results, and view observable enrichment results.

Creating a Security Incident

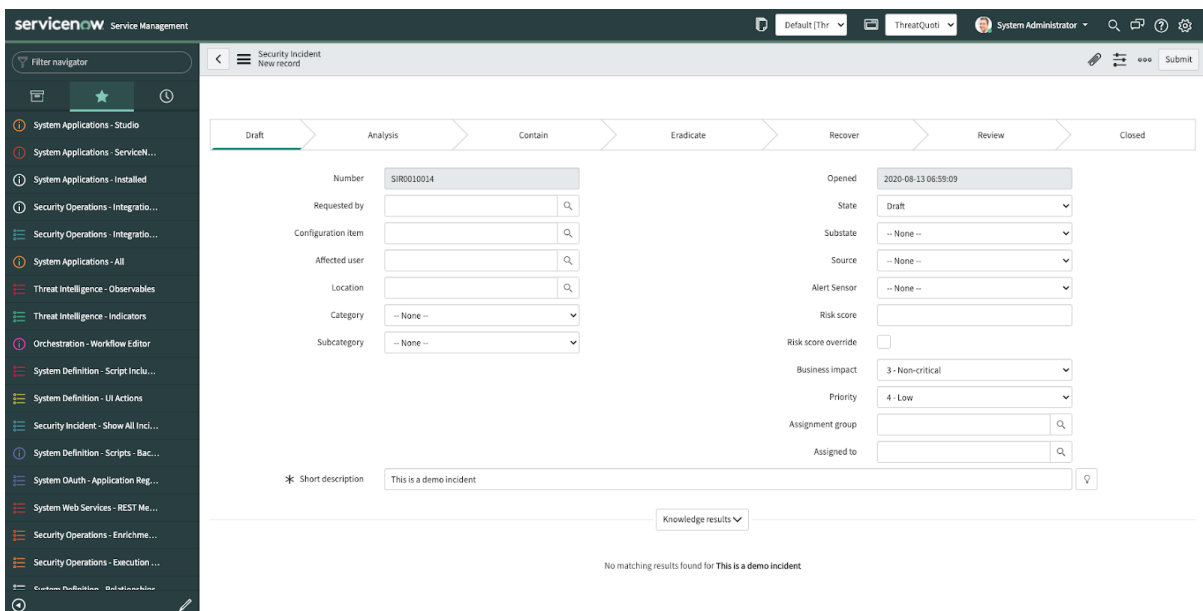
1. Create a new Security Incident.



The screenshot shows the ServiceNow Security Incidents list view. The left sidebar contains a filter navigator with various system applications and security operations categories. The main table lists security incidents with columns for Number, Risk score, Priority, Configuration item, Assigned to, Assignment group, Short description, and State. The incidents are all in 'Draft' state and have a risk score of 47 and priority of 4 - Low. The table includes a search bar and pagination controls at the top right.

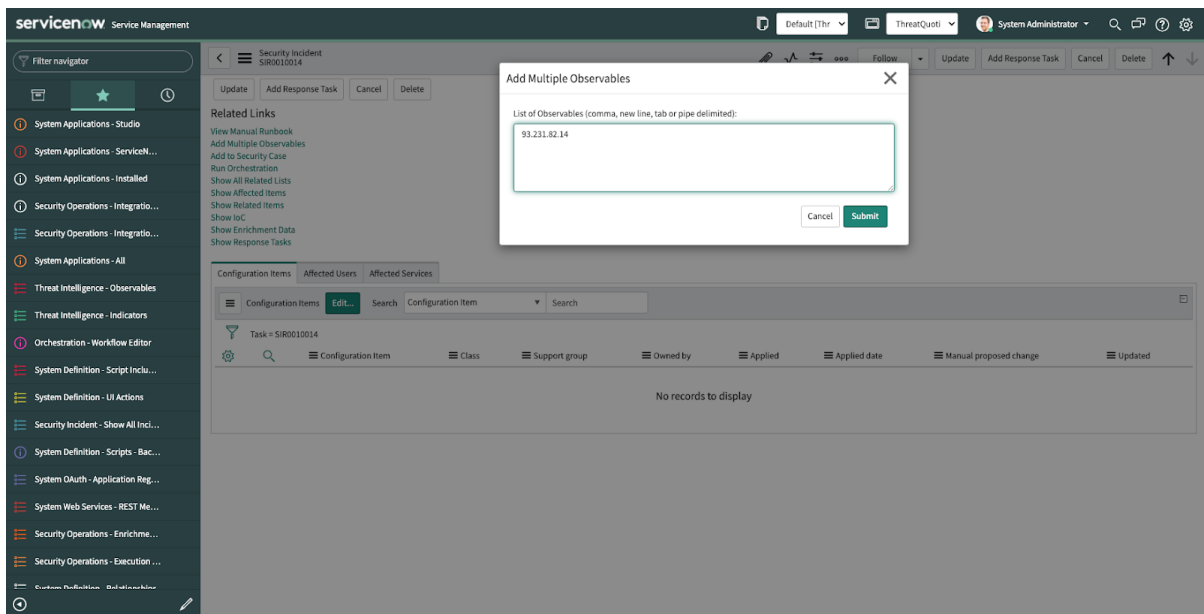
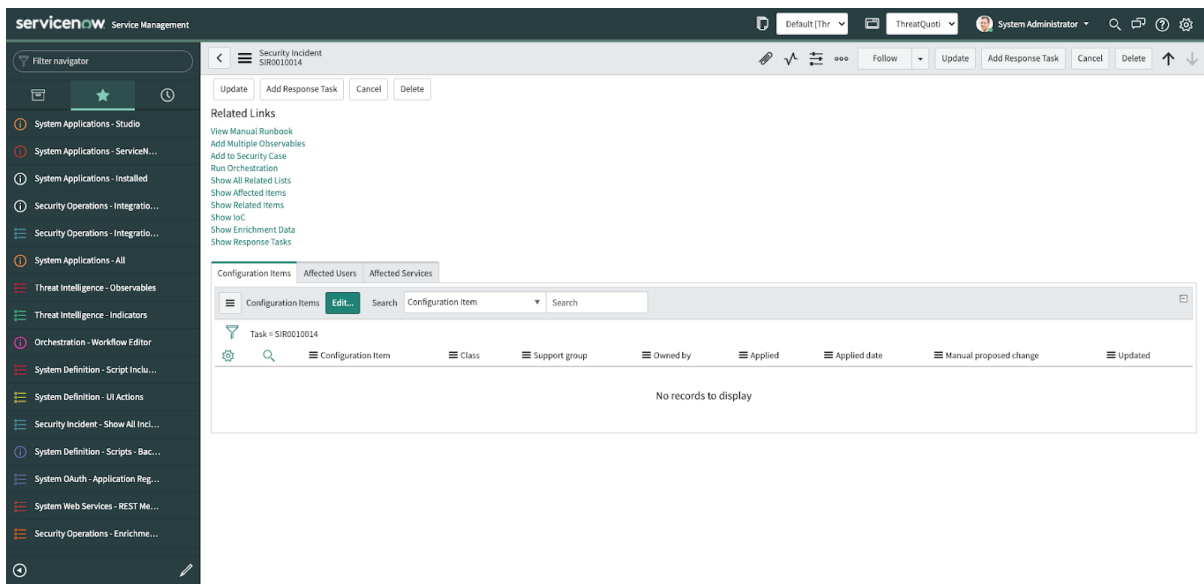
Number	Risk score	Priority	Configuration item	Assigned to	Assignment group	Short description	State
SIR0010002	47	4 - Low	(empty)	(empty)	Security Incident Assignment	security incident test	Draft
SIR0010012	47	4 - Low	(empty)	(empty)	Security Incident Assignment	testing FQDN	Draft
SIR0010011	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Testing recently queried observables	Draft
SIR0010010	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Last test before publishing	Draft
SIR0010008	47	4 - Low	(empty)	(empty)	Security Incident Assignment	testing out new observables	Draft
SIR0010007	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Testing using the enrich observable capability	Draft
SIR0010006	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Testing automatic threat lookup	Draft
SIR0010005	47	4 - Low	(empty)	(empty)	Security Incident Assignment	test tes test	Draft
SIR0010004	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Test incident	Draft
SIR0010013	47	4 - Low	(empty)	(empty)	Security Incident Assignment	Incidents with observables that don't exist in ThreatQ	Draft

2. Give the Security Incident a short description.



The screenshot shows the ServiceNow Security Incident form view. The top navigation bar includes the ServiceNow logo, filter navigator, and various system applications. The form is titled 'Security Incident New record' and shows a progress bar with stages: Draft, Analysis, Contain, Eradicate, Recover, Review, and Closed. The form fields are organized into two columns. The left column contains fields for Number, Requested by, Configuration item, Affected user, Location, Category, and Subcategory. The right column contains fields for Opened, State, Substate, Source, Alert Sensor, Risk score, Risk score override, Business impact, Priority, Assignment group, and Assigned to. The 'Short description' field is highlighted with a red asterisk, indicating it is required. The 'Short description' field contains the text 'This is a demo incident'. The 'Knowledge results' section at the bottom shows 'No matching results found for This is a demo incident'.

3. Add observables to the Security Incident.



4. Click on Submit and wait for automatic threat lookup activity to complete.

You can see the new observables when you click **Show IoC**.

Service Management

Filter navigator

- System Applications - Studio
- System Applications - ServiceM...
- System Applications - Installed
- Security Operations - Integratio...
- Security Operations - Integratio...
- System Applications - All
- Threat Intelligence - Observables
- Threat Intelligence - Indicators
- Orchestration - Workflow Editor
- System Definition - Script Inclu...
- System Definition - UI Actions
- Security Incident - Show All Incl...
- System Definition - Scripts - Bac...
- System OAuth - Application Reg...
- System Web Services - REST Me...
- Security Operations - Enrichme...
- Security Operations - Execution ...
- Custom Profiles

Security Incident

SIR0010014

Activities: 5

System

Workflow Security Operations Integration - Enrich Observable execution completed.
Finished running Enrich observable capability

Automation activity • 2020-08-13 07:07:06

System

Workflow Security Operations Integration - Enrich Observable execution started.
Data Inputs for this action: 93.231.82.14

Automation activity • 2020-08-13 07:07:04

System

Workflow Security Incident Response - Create IoC Lookup Request for IoC Changes execution started.
Data Inputs for this action:

Automation activity • 2020-08-13 07:06:50

System Administrator

Risk score changed from Empty to 47 due to change in business impact, priority, severity, risk score override

Automation activity • 2020-08-13 07:03:57

System Administrator

Impact 3 - Low

Opened by System Administrator

Priority 4 - Low

State Draft

Field changes • 2020-08-13 07:03:57

Update

Add Response Task

Cancel

Delete

Related Links

[View Manual Runbook](#)
[Add Multiple Observables](#)
[Add to Security Case](#)
[Run Orchestration](#)
[Show All Related Lists](#)
[Show Affected Items](#)

ThreatQ Lookup

The steps below are for performing manual and auto Threat Lookups.

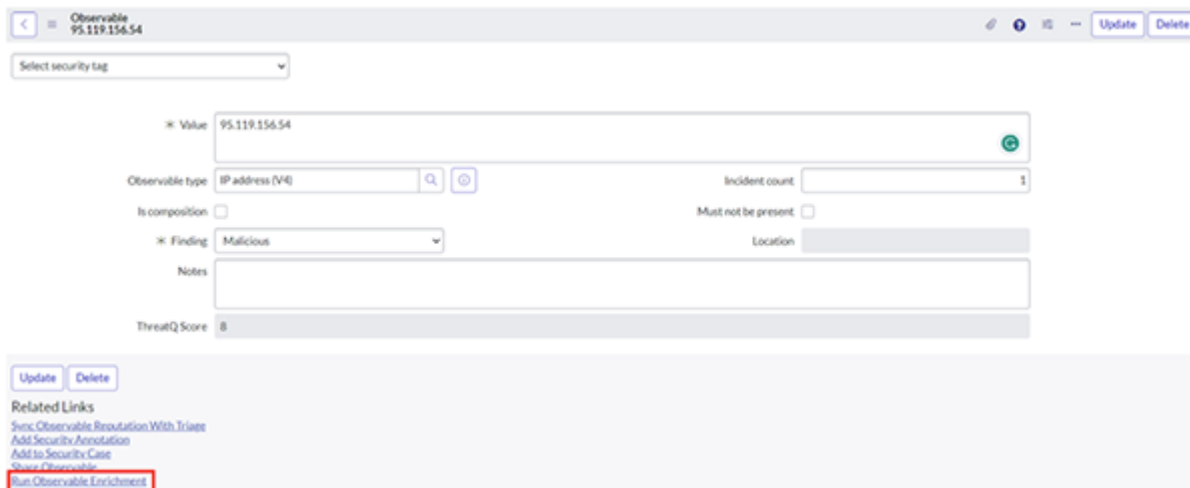
Manual Threat Lookup

The Threat lookup is performed to find if any observable is malicious or not.

SETTING	DETAILS
Role Required	admin
Prerequisites	Set Threat Lookup Results as the input in the TQ Attribute Location.

Performing a Manual Threat Lookup:

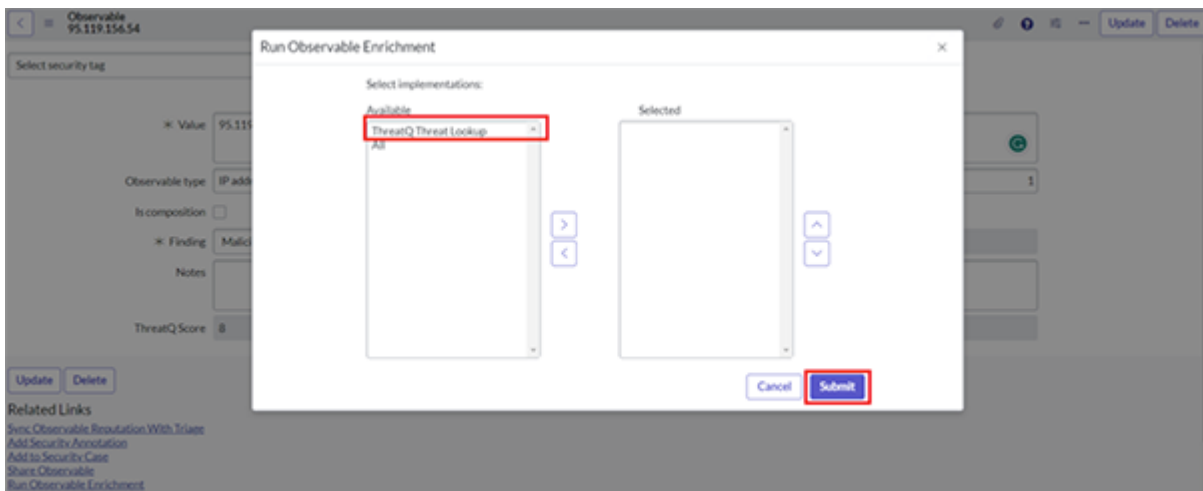
1. Navigate to **Threat Intelligence > Observables**.
2. Click on any observable of type **IP**, **URL** or **Hash** and then click on the **Run Observable Enrichment** option under the *Related Links* heading.



The screenshot shows the ThreatQ Observable interface for the observable 95.119.156.54. The interface includes a search bar, a dropdown for 'Select security tag', and a form for adding or updating an observable. The 'Value' field is set to 95.119.156.54, and the 'Observable type' is set to 'IP address (V4)'. The 'Finding' is set to 'Malicious'. The 'ThreatQ Score' is 8. At the bottom, under the 'Related Links' section, the 'Run Observable Enrichment' button is highlighted with a red box.

A pop-up window will open.

3. Select **ThreatQ Threat Lookup** and click on **Submit**.

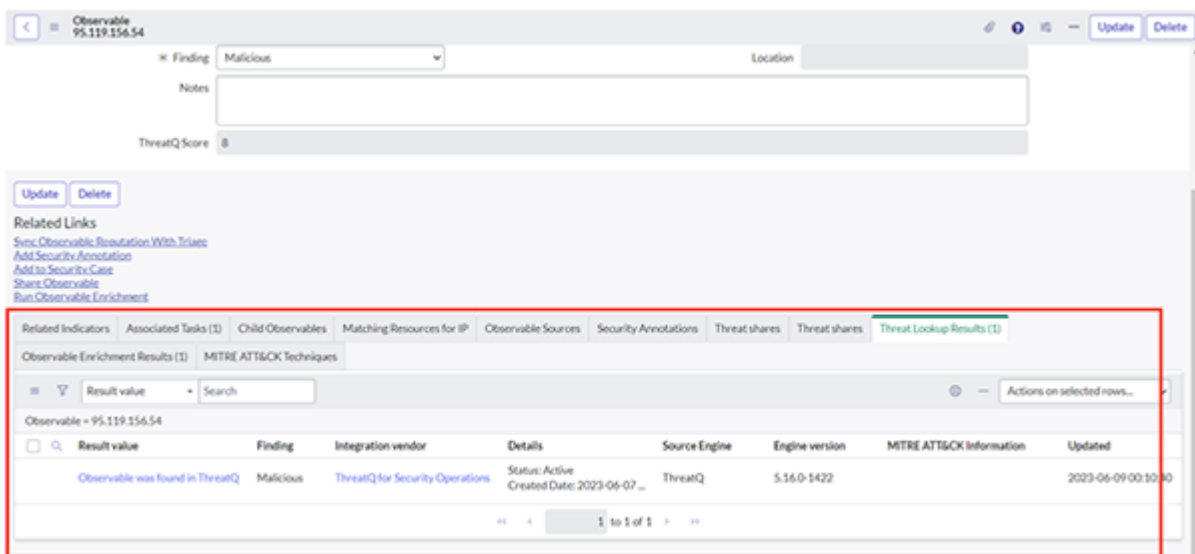


4. The lookup will start and you will see lookup results, once the process is complete, under the *Threat Lookup Results* section.



Threat lookup on the same observable from ThreatQ will be performed once in 24 hours only.

5. To view the **Threat Lookup Results**, open the Observable and scroll down to see the **Threat Lookup Results** record created for the observable.



6. Open the **Threat Lookup Results** record to view the details of lookup.
7. From the top left, click on the  icon > **View** > **ThreatQ** to view the details of the observable.

Threat Lookup Result 95.119.154.54 View ThreatQ			
Observable	95.119.154.54	Source Engine	ThreatQ
Integration vendor	ThreatQ for Security Operations	Engine version	5.16.0-1422
Finding	Malicious	Reference table	Integration Capability Execution [ip,src_ipm,Integration_capability_execution]
First found	2023-06-07 09:01:19	Reference record	Integration Capability Execution Created 2023-0
ThreatQ Score	8	ThreatQ Last Modified Date	2023-06-06 06:42:44
ThreatQ Status	Active	ThreatQ Type	IP Address
External link	https://servicereport.threatq.com/indicators/277636/details		
Result value	Observable was found in ThreatQ		
Details	Status: Active Created Date: 2023-06-07 16:05:19 Last Updated Date: 2023-06-06 06:42:44 Sources: www.datame.uk Tor Node List, Crcrit Score: 8 uptime: 3569 version: Tor 0.4.7.13 Malware: Macheta, MacSign, Mafalda Adversaries: admin@338, Ajax Security Team, AjaxTM		
Raw data	<pre>https://otak.mitre.org/groups/sorus: security researchers assess the (otak@otak.mitre.org/sorus) name may be inspired by an argentinian cartoon character that has been popular as a means of political commentary since the 1960s. ICATION: SentinelLabs/Metadroid Sept 2022 56:11:03"object_mitri"object_code":"malware"object_name":"Malware"object_name_pjurat":"Malware"pivot":{"w":34225,"created_at":"2023-06-08 06:48:25","updated_at":"2023-06-08 06:48:25"},"adversaries":{"w":174,"name":"admin@338","created_at":"2021-09-22 01:58:26","updated_at":"2021-09-22 01:58:26","touched_at":"2023-06-13 16:11:13"},"pivot":{"w":34198,"created_at":"2023-06-06 06:45:56","updated_at":"2023-06-06 06:45:56"},"w":185,"name":"Ajax Security Team","created_at":"2021-09-22 01:58:32","updated_at":"2021-09-22 01:58:32"},"touched_at":"2023-06-13 16:11:10"},"pivot":{"w":34199,"created_at":"2023-06-08 06:45:56","updated_at":"2023-06-08 06:45:56"},"w":198,"name":"AjaxTM","created_at":"2021-09-22 01:58:32","updated_at":"2021-09-22 01:58:32"},"touched_at":"2023-06-13 16:11:15"},"pivot":{"w":34200,"created_at":"2023-06-08 06:45:56","updated_at":"2023-06-08 06:45:56"},"tag":{"w":13,"name":"","test_tag":{"pivot": {"object_mitri":277636,"tag_mitri":13,"created_at":"2023-06-06 06:42:13","updated_at":"2023-06-06 06:42:13"},"w":154,"name":"","test_tag":{"pivot": {"object_mitri":277636,"tag_mitri":14,"created_at":"2023-06-06 06:42:19","updated_at":"2023-06-06 06:42:19"},"w":156,"name":"","test_tag":{"pivot": {"object_mitri":277636,"tag_mitri":15,"created_at":"2023-06-06 06:42:07","updated_at":"2023-06-06 06:42:07"},"comments":{"w":49,"indicator_id":277636,"value":"","test comment":{"creator_source":{"w":32,"created_at":"2023-06-06 06:42:57","updated_at":"2023-06-06 06:42:57"},"w":50,"indicator_id":277636,"value":"","test</pre>		

Threat Lookup Result 95.119.156.54 View ThreatQ	
	<pre>texting_ip":"created_at":"2023-06-08 05:42:58";updated_at":"2023-06-08 05:42:58";touchet_at":"2023-06-13 09:25:23";object_id":"13";object_code":"asset";object_name":"Assets";object_name_plural":"Assets";privet":["ip":"342031";created_at":"2023-06-08 06:45:56";updated_at":"2023-06-08 06:45:56"];course_of_action":{"id":"248";value":{"action_1":{"status_id":"null";type_id":"null";created_at":"2023-06-02 10:26:59";updated_at":"2023-06-02</pre>
ThreatQ Attributes	uptime: 3569 version: Tor 0.4.7.13
ThreatQ Sources	www.eurume.uk Tor Node List, Crest
ThreatQ Tags	Test tag1, Test tag2, demo1
ThreatQ Adversaries	admin@336, Ajax Security Team, AjaxTM
ThreatQ Asset	asset_1, asset_2, Asset0-1
ThreatQ Attack Pattern	Attack pattern 2, Attack Pattern-1
ThreatQ Campaign	C0011, C0018
ThreatQ Course Of Action	action_1, action_2, action_3
ThreatQ Events	SECC0001011 - ANZ Test, SECC0001012 - Adversary Cricket1 has gained access to the grain silos, SECC0001014 - dev app
ThreatQ Exploit Target	Exploit Target1, Exploit Target-1

Threat Lookup Result 95.117.156.54 View: ThreatQ	
ThreatQ Identities	Identity-1
ThreatQ Incident	Incident1, Incident-1
ThreatQ Intrusion Set	Intrusion Set1, Intrusion set-1
ThreatQ Malware	Machete, MacSpy, Mafalda
ThreatQ Signatures	Test SignatureTest Signature
ThreatQ Tools	Tasklist, Tool-1, Tor
ThreatQ TTP	http1, TTP-1
ThreatQ Vulnerability	Vulnerability1, Vulnerability-1



ThreatQ Comments will not be populated in worknotes if enrichment is executed from an observable table.

To avoid duplicity, the value of `created_at` is ingested in the First Found field of the Threat Lookup Result table.

Auto Threat Lookup

Auto Threat Lookup can be performed on an observable by attaching to a security incident.

SETTING

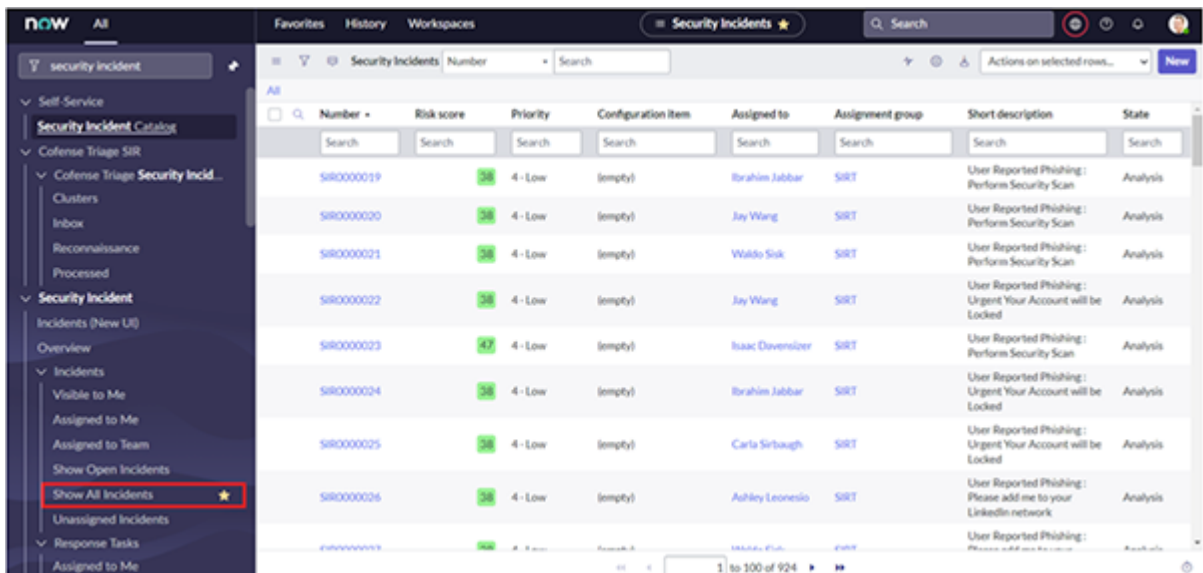
Role Required admin

DETAILS

Prerequisites Set **Threat Lookup Results** as the input in the **TQ Attribute Location**.

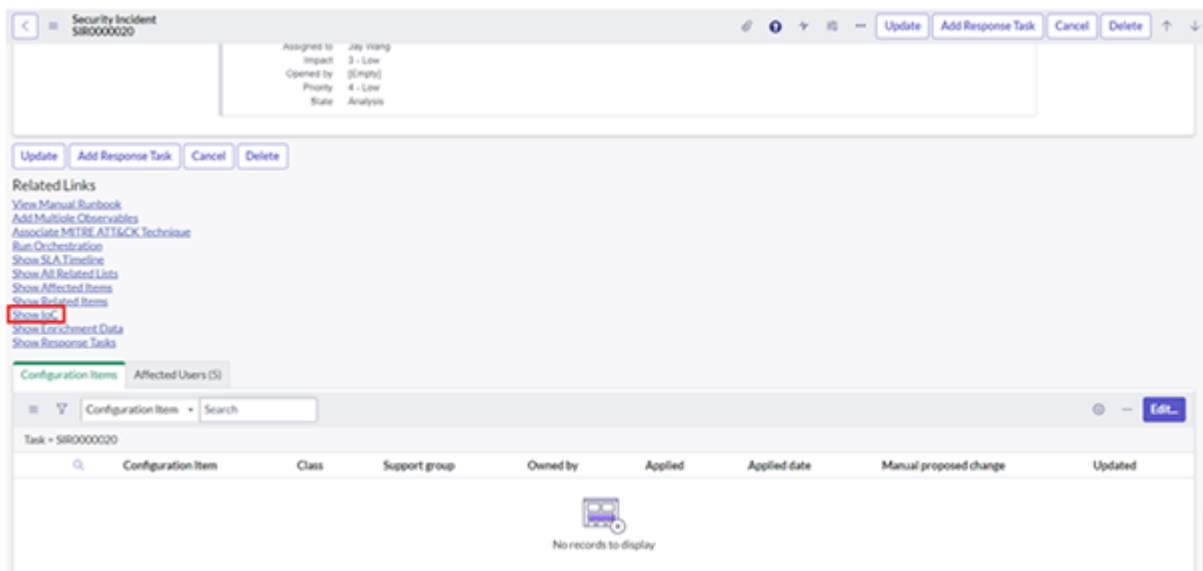
Performing Auto Threat Lookup:

1. Navigate to **Security Incident > Incidents > Show All Incidents**.

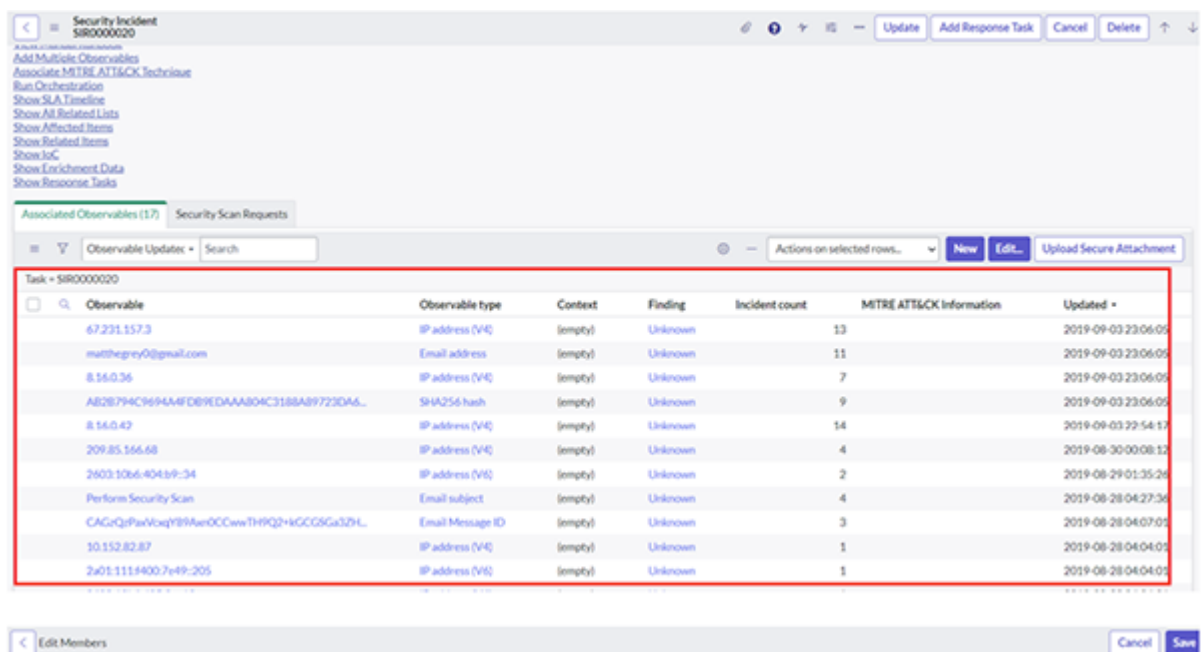


Number	Risk score	Priority	Configuration item	Assigned to	Assignment group	Short description	State
SIR0000019	38	4 - Low	(empty)	Ibrahim Jabbar	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000020	38	4 - Low	(empty)	Jay Wang	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000021	38	4 - Low	(empty)	Wabdo Sisk	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000022	38	4 - Low	(empty)	Jay Wang	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000023	47	4 - Low	(empty)	Isaac Doversizer	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000024	38	4 - Low	(empty)	Ibrahim Jabbar	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000025	38	4 - Low	(empty)	Carla Sirbaugh	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000026	38	4 - Low	(empty)	Ashley Leonasio	SIRT	User Reported Phishing: Please add me to your LinkedIn network	Analysis

2. Click on the security incident that the observable is linked to and then click on **Show IOC** under the *Related Links* section.



- Click **New**, located under the *Associated Observables* section, to create a new observable. Link the observable to the security incident or click **Edit** to add links an existing observable.



Observable	Observable type	Context	Finding	Incident count	MITRE ATT&CK Information	Updated
67.231.157.3	IP address (V4)	(empty)	Unknown	13		2019-09-03 23:06:05
matthegrey0@gmail.com	Email address	(empty)	Unknown	11		2019-09-03 23:06:05
8.16.0.36	IP address (V4)	(empty)	Unknown	7		2019-09-03 23:06:05
A828794C9694AFDB9EDAA804C3188A89723DA6...	SHA256 hash	(empty)	Unknown	9		2019-09-03 23:06:05
8.16.0.42	IP address (V4)	(empty)	Unknown	14		2019-09-03 22:54:17
209.85.166.68	IP address (V4)	(empty)	Unknown	4		2019-08-30 00:08:12
2603:1066:404:b9:34	IP address (V6)	(empty)	Unknown	2		2019-08-29 01:35:26
Perform Security Scan	Email subject	(empty)	Unknown	4		2019-08-28 04:27:36
CAGzQzPawVoaqY89AuoCCwvTh9Q2+uGCGSGa3ZyL...	Email Message ID	(empty)	Unknown	3		2019-08-28 04:07:01
10.152.82.87	IP address (V4)	(empty)	Unknown	1		2019-08-28 04:04:01
2a01:111:f400:7e49:205	IP address (V6)	(empty)	Unknown	1		2019-08-28 04:04:01

The screenshot shows the 'Edit Members' interface. At the top, there's a search bar and buttons for 'Add Filter', 'Run filter', 'Cancel', and 'Save'. Below the search bar, there are two main sections: 'Collection' and 'Associated Observables List'. The 'Collection' section contains a list of IP addresses and domain names. The 'Associated Observables List' section contains a list of IP addresses and domain names. A red box highlights the 'Associated Observables List' section.

Once the observable is linked to the incident, auto threat lookup is started.

The screenshot shows the 'Security Incident' details page. It has a header with 'Security Incident' and 'SIR0000020'. Below the header, there's a 'Work notes' section with a text area and a 'Post' button. Below the work notes, there's a red box highlighting the 'Activities' section. The 'Activities' section lists system activities and automation tasks, including 'Workflow Security Operations Integration - Enrich Observable' and 'Workflow Security Incident Response - Create IoT Lookup Request for IoT Changes'.



Worknotes will be generated in the **Incident Details** tab.

Threat Lookup Results can also be accessed via the **ThreatQ Enrichment** tab.

Security Incident

SIR0000020

Update

Add Response Task

Cancel

Delete

Knowledge results

Incident Details

Related Records

MITRE ATT&CK Card

Test

ThreatQ Enrichment

Threat Lookup Results

Observable	Integration vendor	Finding	Result value	Details	Source Engine	Engine version
95.119.116.54	ThreatQ for Security Operations	Malicious	Observable was found in ThreatQ	Status: Active Created Date: 2023-06-07 ...	ThreatQ	5.16.0.142
8.16.0.42	VirusTotal - VT	Unknown		The IP 8.16.0.42 has not been detected b...	VirusTotal API	v2
127.0.0.1	ThreatCrowd	Malicious	Most users have voted this malicious	This observable has a user vote weight o...	ThreatCrowd API	v2
127.0.0.1	VirusTotal - VT	Malicious	100 engine(s) reported the observable as...	http://cidbazeddiagreaglad.to/-/3 of 71...	VirusTotal API	v2
8.16.0.42	VirusTotal - VT	Unknown		The IP 8.16.0.42 has not been detected b...	VirusTotal API	v2
127.0.0.1	ThreatCrowd	Malicious	Most users have voted this malicious	This observable has a user vote weight o...	ThreatCrowd API	v2
A82B794C9694A4FDB9EDAA504C318BA97230A6...	VirusTotal - VT	Unknown		Hash value not found in VirusTotal	VirusTotal API	v2
127.0.0.1	VirusTotal - VT	Malicious	100 engine(s) reported the observable as...	http://cidbazeddiagreaglad.to/-/3 of 71...	VirusTotal API	v2
67.231.117.3	VirusTotal - VT	Unknown		The IP 67.231.117.3 has not been detecte...	VirusTotal API	v2
127.0.0.1	VirusTotal - VT	Malicious	100 engine(s) reported the observable as...	http://cidbazeddiagreaglad.to/-/3 of 71...	VirusTotal API	v2
8.16.0.36	VirusTotal - VT	Unknown		The IP 8.16.0.36 has not been detected b...	VirusTotal API	v2
127.0.0.1	ThreatCrowd	Malicious	Most users have voted this malicious	This observable has a user vote weight o...	ThreatCrowd API	v2
209.85.166.68	ThreatCrowd	Unknown	An equal number of users have voted this...	This observable has a user vote weight of 0	ThreatCrowd API	v2
8.16.0.42	VirusTotal - VT	Unknown		The IP 8.16.0.42 has not been detected b...	VirusTotal API	v2

- Open the threat lookup result and click on the  icon, located to the top left, and select **View > ThreatQ** to view the details of the observable.

Threat Lookup Result 95.119.156.54 View ThreatQ	
Observable	95.119.156.54
Integration vendor	ThreatQ for Security Operations
Finding	Malicious
First found	2023-06-07 09:01:19
ThreatQ score	8
ThreatQ status	Active
External link	https://services.threatq.com/indicators/277636/details
Result value	Observable was found in ThreatQ
Details	Status: Active Created Date: 2023-06-07 16:05:19 Last Updated Date: 2023-06-08 06:42:44 Sources: www.danume.uk Tor Node List, Crest Score: 8 Optimal: 3569 version: Tor 0.4.7.13 Malware: Machete, MacSpys, Mafabits Adversaries: adm3n@338, Ajax Security Team, AjaxTM
Raw data	<pre> https://attack.mitre.org/groups/u-u-u-s-is-security-researchers-assess-the-prostateadmitto-attack-mitres-org-software-s-user-name-will-be-inspired-by-an-argentinian-cartoon-character-that-has-been-popular-as-a-means-of-political-commentary-since-the-1900s-ICitation: Sentinel Labs ThreatQ Sept 2022-06-13 {"id": "11602","object_id":"malware","object_name":"Malware","object_name_plural":"Malware","pivot":{"ip":"34225","created_at":"2023-06-08 06:48:25","updated_at":"2023-06-08 06:48:25"},"adversaries":{"ip":"174","name":"adm3n@338","created_at":"2021-09-22 05:58:26","updated_at":"2021-09-22 05:58:26","touched_at":"2023-06-13 16:11:13"},"pivot":{"ip":"34198","created_at":"2023-06-08 06:45:56","updated_at":"2023-06-08 06:45:56"},"ip":"185","name":"Ajax Security Team","created_at":"2021-09-22 05:58:32","updated_at":"2021-09-22 05:58:32"},"touched_at":"2023-06-13 16:11:13"},"pivot":{"ip":"34199","created_at":"2023-06-08 06:45:56","updated_at":"2023-06-08 06:45:56"},"ip":"196","name":"AjaxTM","created_at":"2021-09-22 05:58:32","updated_at":"2021-09-22 05:58:32"},"touched_at":"2023-06-13 16:11:13"},"pivot":{"ip":"34200","created_at":"2023-06-08 06:45:56","updated_at":"2023-06-08 06:45:56"},"tags":["ip":"13","name":"","test_tag":"pivot"}, {"object_id":"277636","tag_ip":"13","created_at":"2023-06-08 06:42:13","updated_at":"2023-06-08 06:42:13"},"ip":"14","name":"","test_tag":"pivot"}, {"object_id":"277636","tag_ip":"14","created_at":"2023-06-08 06:42:13","updated_at":"2023-06-08 06:42:13"},"ip":"15","name":"","test_tag":"pivot"}, {"object_id":"277636","tag_ip":"15","created_at":"2023-06-08 06:42:07","updated_at":"2023-06-08 06:42:07"},"comments":["ip":"49","indicator_ip":"277636","value":"","test_comment":"creator_source_ip":"32","created_at":"2023-06-08 06:42:57","updated_at":"2023-06-08 06:42:57"},"ip":"50","indicator_ip":"277636","value":"","test </pre>

ThreatQ Attributes	uptime: 3549 version: Tor 0.4.7.13
ThreatQ Sources	www.usdeme.uk Tor Node List, Crest
ThreatQ Tags	Test tag1, Test tag2, demo1
ThreatQ Adversaries	admin@335, Ajax Security Team, AjaxTM
ThreatQ Asset	asset 1, asset 2, Asset - 1
ThreatQ Attack Pattern	Attack pattern 2, Attack Pattern-1
ThreatQ Campaign	C0011, C0018
ThreatQ Course Of Action	action 1, action 2, action 3
ThreatQ Events	SECC0001011 - ANZ Test, SECC0001012 - Adversary Cricket1 has gained access to the grain silos, SECC0001014 - dev app
ThreatQ Exploit Target	Exploit Target1, Exploit Target - 1

ThreatQ Identities	Identity-1
ThreatQ Incident	Incident1, Incident - 1
ThreatQ Intrusion Set	Intrusion Set1, Intrusion set- 1
ThreatQ Malware	Machete, MacSpy, Mafalda
ThreatQ Signatures	Test SignatureTest Signature
ThreatQ Tools	TaskBot, Tool - 1, Tor
ThreatQ TTP	Http, TTP-1
ThreatQ Vulnerability	Vulnerability1, Vulnerability - 1

ThreatQ Description [Added Description For Testing](#)



If there are any ThreatQ comments for the observable then worknotes will be updated with ThreatQ comments.

Activities: 250	System Workflow Security Operations Integration - Enrich Observable execution completed. Finished running enrich observable capability	Automation activity • 2023-06-14 00:22:08 4m ago
	System [ThreatQ] Comments for observable "95.119.156.54": Test comment1, Test comment2	Work notes • 2023-06-14 00:22:07 4m ago
	System Workflow Security Operations Integration - Enrich Observable execution started. Data inputs for this action: 95.119.156.54	Automation activity • 2023-06-14 00:22:00 4m ago

To avoid duplicity, the value of created_at is ingested in the First Found field of the Threat Lookup Result table.

Observable Enrichment

The following steps will be performing manual and auto observable enrichment.

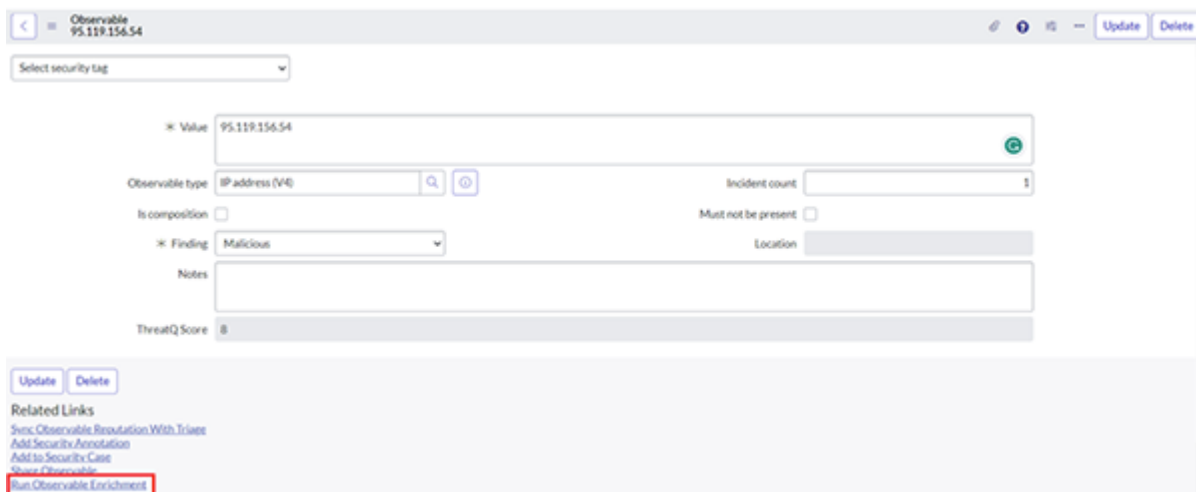
Manual Observable Enrichment

The Observable Enrichment is performed to fetch additional information related to the observable.

SETTING	DETAILS
Role Required	admin
Prerequisites	Set Observable Enrichment Results as the input in the TQ Attribute Location .

Performing Manual Observable Enrichment:

1. Navigate to **Threat Intelligence > Observables**.
2. Click on any observable of type **IP**, **URL** or **Hash** and then click on the **Run Observable Enrichment** option under the *Related Links* heading.



Observable: 95.119.156.54

Select security tag

* Value: 95.119.156.54

Observable type: IP address (V4)

Incident count: 1

Is composition: ☐

* Finding: Malicious

Must not be present: ☐

Notes:

ThreatQ Score: B

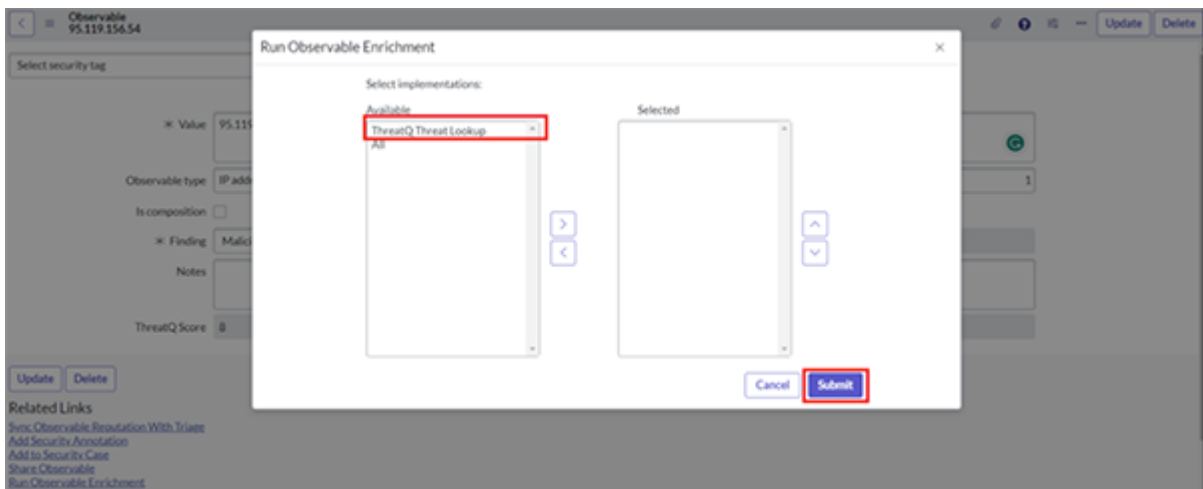
Update Delete

Related Links

- [Sync Observable Resolution With Triage](#)
- [Add Security Annotation](#)
- [Add to Security Case](#)
- [View Observable](#)
- [Run Observable Enrichment](#)**

A pop-up window will open.

3. Select **ThreatQ Threat Lookup** and click on **Submit**.

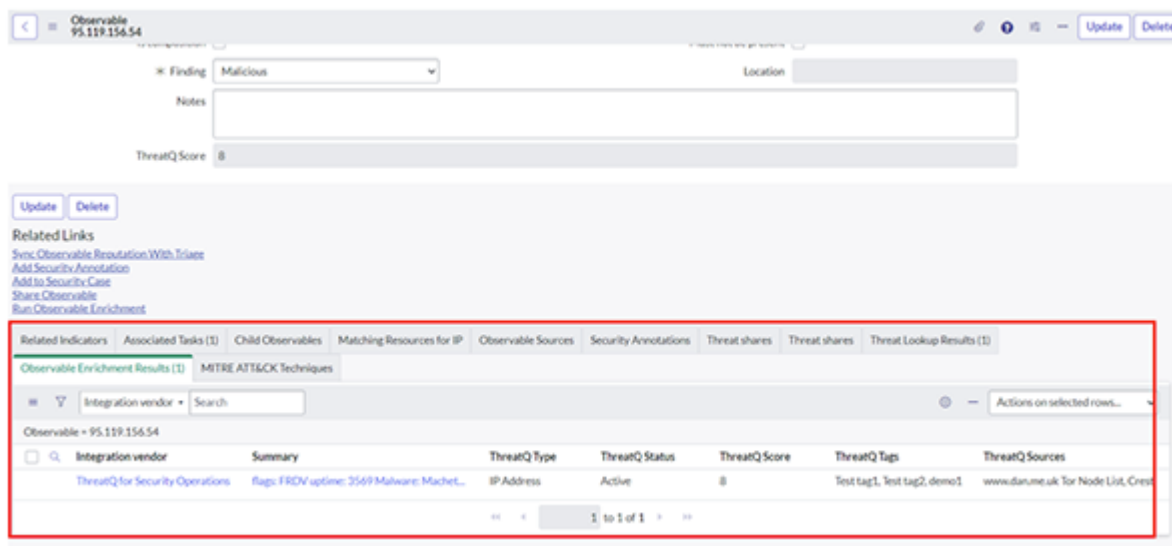


4. The enrichment will start and you will see lookup results, once the process is complete, under the *Observable Enrichment Results* section.



Observable enrichment on the same observable from Threat will be performed once in 24 hours only. Threat Lookup would also get performed for the observable even if **Observable Enrichment Results** is the provided input in **TQ Attribute Locations**.

5. To view the **Observable Enrichment Results**, open the **Observable** and scroll down to locate the **Observable Enrichment Results** record created for the observable.



6. Open the **Observable Enrichment Results** record to view the details of the lookup.
7. From the top left, click on the **hamburger icon** > **View** > **ThreatQ** to view the details of the observable.

Observable Enrichment Result	
95.119.134.54 View ThreatQ	
ThreatQ Attributes	<pre>{ "created_at": "2023-06-07 11:19:59", "hostname": "red" }</pre>
ThreatQ Sources	www.eurone.uk Tor Node List, Crest
ThreatQ Tags	Test tag1, Test tag2, demo1
ThreatQ Adversaries	adming338, Ajax Security Team, AjaxTM
ThreatQ Asset	asset 1, asset 2, Asset0-1
ThreatQ Attack Pattern	Attack pattern 2, Attack Pattern-1
ThreatQ Campaign	CO011, CO018
ThreatQ Course Of Action	action 1, action 2, action 3
ThreatQ Events	SECC00001011 - ANZ Test, SECC00001012 - Adversary Cricket1 has gained access to the grain silos, SECC00001014 - dev app
ThreatQ Exploit Target	Exploit Target1, Exploit Target-1

Observable Enrichment Result
95.119.154.54 View ThreatQ

ThreatQ Identities

Identity-1

ThreatQ Incident

Incident-1, Incident-1

ThreatQ Intrusion Set

Intrusion Set-1, Intrusion set-1

ThreatQ Malware

Machete, MacSpy, Mafalda

ThreatQ Signatures

Test Signature: Test Signature

ThreatQ Tools

Tasklist, Tool-1, Tor

ThreatQ TTP

ttp1, TTP-1

ThreatQ Vulnerability

Vulnerability-1, Vulnerability-1

ThreatQ Description

Added Description For Testing

Delete



ThreatQ Comments will not be populated in worknotes if enrichment is executed from an observable table.

Auto Observable Enrichment

Auto Observable Enrichment can be performed on an observable by attaching it to a security incident.

SETTING

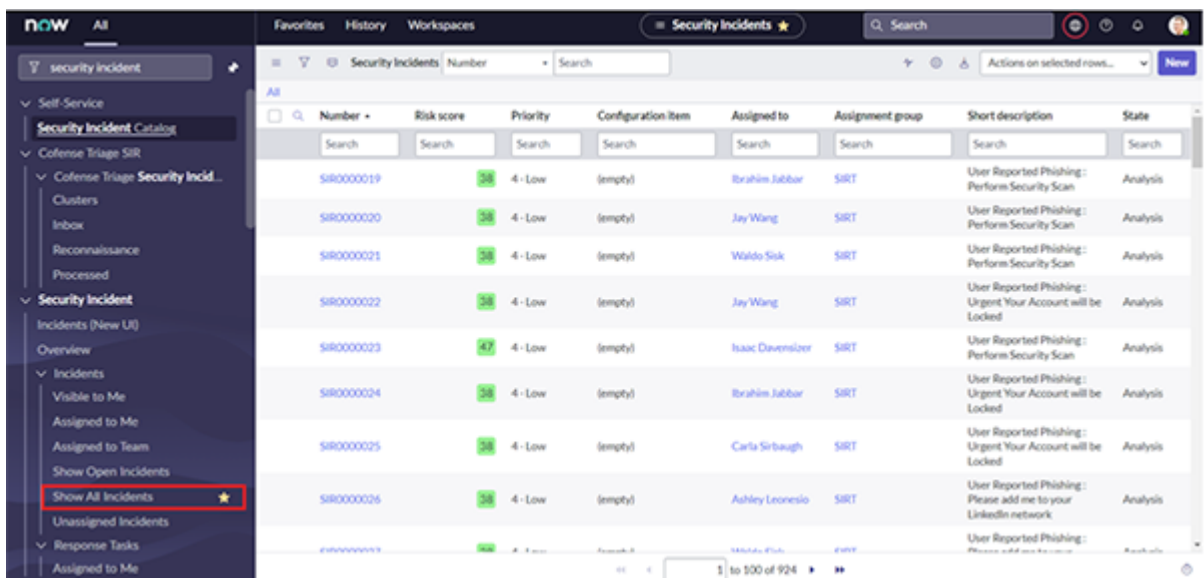
Role admin
Required

DETAILS

Prerequisites Set **Observable Enrichment Results** as the input in the TQ Attribute Location.

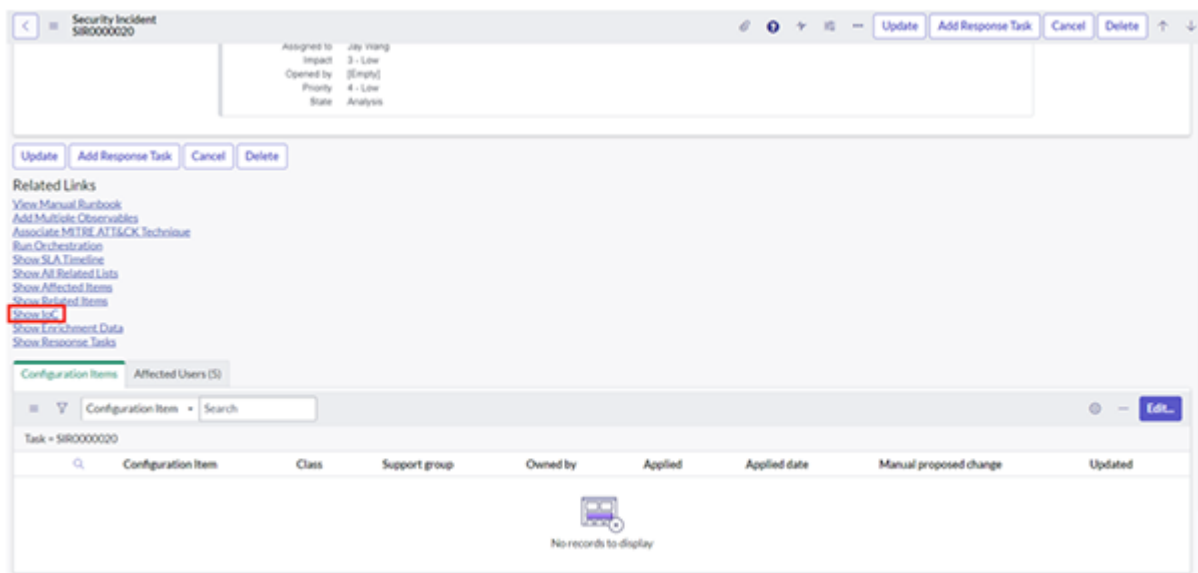
Performing Auto Observable Enrichment:

1. Navigate to **Security Incident > Incidents > Show All Incidents**.



Number	Risk score	Priority	Configuration item	Assigned to	Assignment group	Short description	State
SIR0000019	38	4 - Low	(empty)	Ibrahim Jabbar	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000020	38	4 - Low	(empty)	Jay Wang	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000021	38	4 - Low	(empty)	Waldo Sisk	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000022	38	4 - Low	(empty)	Jay Wang	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000023	47	4 - Low	(empty)	Isaac Davenport	SIRT	User Reported Phishing: Perform Security Scan	Analysis
SIR0000024	38	4 - Low	(empty)	Ibrahim Jabbar	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000025	38	4 - Low	(empty)	Carla Sirbaugh	SIRT	User Reported Phishing: Urgent Your Account will be Locked	Analysis
SIR0000026	38	4 - Low	(empty)	Ashley Leoncio	SIRT	User Reported Phishing: Please add me to your LinkedIn network	Analysis

2. Click on the security incident that the observable is linked to and then click on **Show IOC** under the *Related Links* section.



3. Click **New**, located under the *Associated Observables* section, to create a new observable. Link the observable to the security incident or click **Edit** to add links an existing observable.

The screenshot shows the 'Security Incident' page for incident ID S180000020. A red box highlights the 'Associated Observables (17)' table. The table has columns: Observable, Observable type, Context, Finding, Incident count, MITRE ATT&CK Information, and Updated. Below the table, there is a filter section with 'Add Filter' and 'Run filter' buttons, and a list of associated observables.

Observable	Observable type	Context	Finding	Incident count	MITRE ATT&CK Information	Updated
67.231.157.3	IP address (V4)	(empty)	Unknown	13		2019-09-03 23:06:09
matthegrey0@gmail.com	Email address	(empty)	Unknown	11		2019-09-03 23:06:09
8.16.0.36	IP address (V4)	(empty)	Unknown	7		2019-09-03 23:06:09
A82B794C9694AFD69EDAA804C3188A89723DA6...	SHA256 hash	(empty)	Unknown	9		2019-09-03 23:06:09
8.16.0.42	IP address (V4)	(empty)	Unknown	14		2019-09-03 22:54:17
209.85.166.68	IP address (V4)	(empty)	Unknown	4		2019-08-30 00:08:12
2603.1066.404b9c34	IP address (V6)	(empty)	Unknown	2		2019-08-29 01:35:24
Perform Security Scan	Email subject	(empty)	Unknown	4		2019-08-28 04:27:34
CAGcQpPawVoxYB9AwOCcwTH9Q2+KGCOSGa3ZH...	Email Message ID	(empty)	Unknown	3		2019-08-28 04:07:01
10.152.82.87	IP address (V4)	(empty)	Unknown	1		2019-08-28 04:04:01
2a01:111:4000:7e49:205	IP address (V6)	(empty)	Unknown	1		2019-08-28 04:04:01

Once the observable is linked to the incident, auto threat lookup is started.

The screenshot shows the 'Security Incident' page for incident ID S180000020. It displays a message from the 'HR Team' and a list of activities. A red box highlights the 'Activities: 32' section, which shows a list of automation activities.

HR Team,

Dear user, Our anti-malware scanner has detected 5 trojan viruses on your device today. This may cause your device to shut down or loss of critical data. To protect your device and data, visit this link to perform a security scan. Thank you, The Corporate IT Security Team.

To perform security scan on in your system provide your acceptance. For more details refer attached Reference manuals.

Work notes

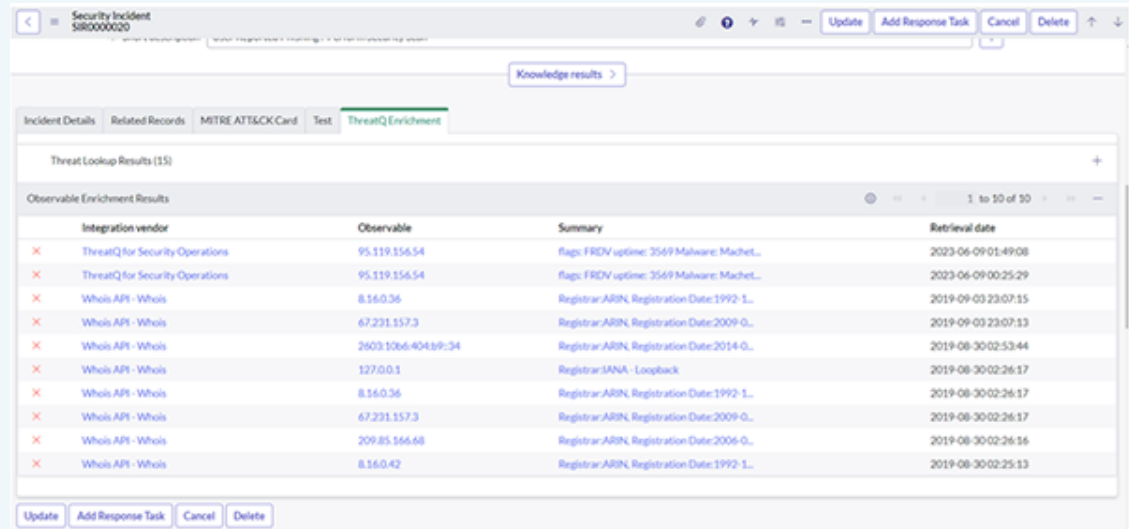
Activities: 32

- System Automation activity • 2023-06-09 01:49:08
Workflow [Security Operations Integration - Enrich Observable](#) execution completed.
Finished running Enrich observable capability
- System Automation activity • 2023-06-09 01:49:02
Workflow [Security Operations Integration - Enrich Observable](#) execution started.
Data inputs for this action: 95.102.156.54
- System Automation activity • 2023-06-09 01:48:51
Workflow [Security Incident Response - Create IoC Lookup Request for IoC Changes](#) execution started.
Data inputs for this action:



Worknotes will be generated in the **Incident Details** tab.

Threat Lookup Results can also be accessed via the **ThreatQ Enrichment** tab.



Knowledge results >

Incident Details Related Records MITRE ATT&CK Card Test **ThreatQ Enrichment**

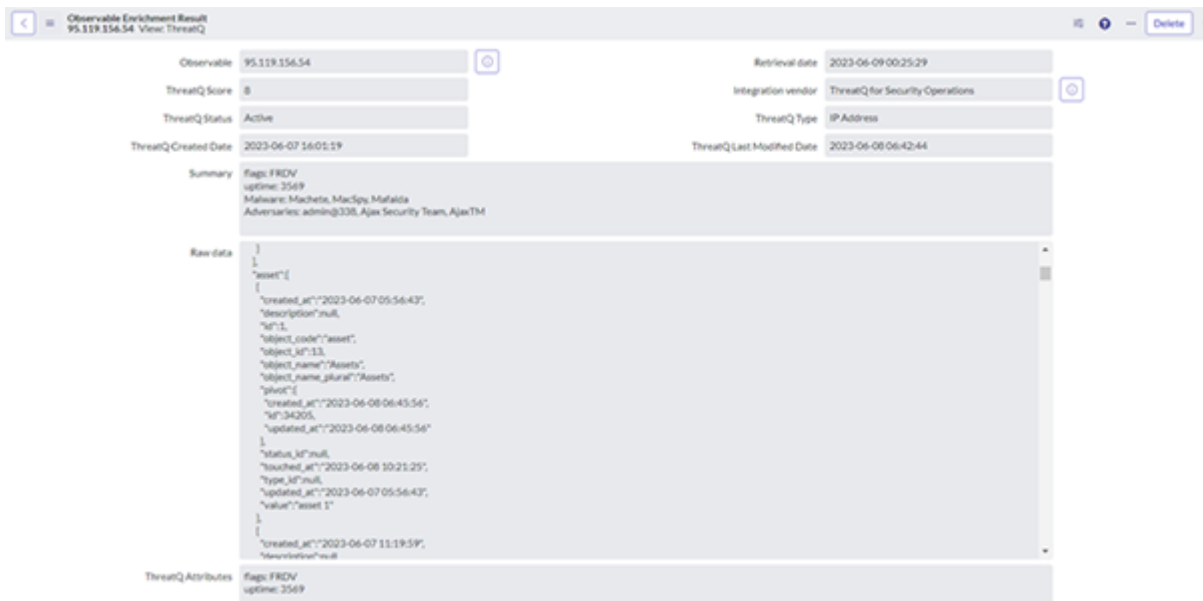
Threat Lookup Results (15)

Observable Enrichment Results 1 to 10 of 10

Integration vendor	Observable	Summary	Retrieval date
ThreatQ for Security Operations	95.119.156.54	Flags: FRD/ upline: 3569 Malware: Machet...	2023-06-09 01:49:08
ThreatQ for Security Operations	95.119.156.54	Flags: FRD/ upline: 3569 Malware: Machet...	2023-06-09 00:25:29
Whois API - Whois	8.16.0.36	Registrar: ARIN, Registration Date: 1992-1...	2019-09-03 23:07:15
Whois API - Whois	67.231.157.3	Registrar: ARIN, Registration Date: 2009-0...	2019-09-03 23:07:13
Whois API - Whois	2603.1066.404.b9-34	Registrar: ARIN, Registration Date: 2014-0...	2019-08-30 02:53:44
Whois API - Whois	127.0.0.1	Registrar: IANA - Loopback	2019-08-30 02:26:17
Whois API - Whois	8.16.0.36	Registrar: ARIN, Registration Date: 1992-1...	2019-08-30 02:26:17
Whois API - Whois	67.231.157.3	Registrar: ARIN, Registration Date: 2009-0...	2019-08-30 02:26:17
Whois API - Whois	209.85.166.68	Registrar: ARIN, Registration Date: 2006-0...	2019-08-30 02:26:16
Whois API - Whois	8.16.0.42	Registrar: ARIN, Registration Date: 1992-1...	2019-08-30 02:25:13

Update Add Response Task Cancel Delete

- Open the observable enrichment results and click on the **hamburger icon**, located to the top left, and select **View > ThreatQ** to view the details of the observable.



Observable Enrichment Result 95.119.156.54 View: ThreatQ

Observable: 95.119.156.54 Retrieval date: 2023-06-09 00:25:29

ThreatQ Score: 8 Integration vendor: ThreatQ for Security Operations

ThreatQ Status: Active ThreatQ Type: IP Address

ThreatQ Created Date: 2023-06-07 16:01:19 ThreatQ Last Modified Date: 2023-06-08 06:42:44

Summary: Flags: FRD/ upline: 3569 Malware: Machete, MacSpy, Malafida Adversaries: admin@338, Ajax Security Team, AjaxTM

Raw data:

```
{
  "asset": {
    "created_at": "2023-06-07 05:56:43",
    "description": null,
    "id": 1,
    "object_code": "asset",
    "object_id": 11,
    "object_name": "Assets",
    "object_name_plural": "Assets",
    "pivot": {
      "created_at": "2023-06-08 06:45:56",
      "id": 34205,
      "updated_at": "2023-06-08 06:45:56"
    },
    "status": null,
    "touch_at": "2023-06-08 10:21:25",
    "type": null,
    "updated_at": "2023-06-07 05:56:43",
    "value": "asset 1"
  },
  "created_at": "2023-06-07 11:19:59",
  "name": null
}
```

ThreatQ Attributes: Flags: FRD/ upline: 3569

Observable Enrichment Result
95.119.156.54 View ThreatQ

{"created_at":"2023-06-07 11:19:59",
"description":"null"}

ThreatQ Attributes

ThreatQ Sources

ThreatQ Tags

ThreatQ Adversaries

ThreatQ Asset

ThreatQ Attack Pattern

ThreatQ Campaign

ThreatQ Course Of Action

ThreatQ Events

ThreatQ Exploit Target

{"created_at":"2023-06-07 11:19:59",
"description":"null"}

ThreatQ Attributes

ThreatQ Sources

ThreatQ Tags

ThreatQ Adversaries

ThreatQ Asset

ThreatQ Attack Pattern

ThreatQ Campaign

ThreatQ Course Of Action

ThreatQ Events

ThreatQ Exploit Target

Observable Enrichment Result
95.119.156.54 View ThreatQ

Identity 1

ThreatQ Incident

ThreatQ Intrusion Set

ThreatQ Malware

ThreatQ Signatures

ThreatQ Tools

ThreatQ TTP

ThreatQ Vulnerability

Identity 1

ThreatQ Incident

ThreatQ Intrusion Set

ThreatQ Malware

ThreatQ Signatures

ThreatQ Tools

ThreatQ TTP

ThreatQ Vulnerability

ThreatQ Description Add Description For Testing

Delete



If there are any ThreatQ comments for the observable then worknotes will be updated with ThreatQ comments.

Activities: 250

System
Automation activity • 2023-06-14 00:22:08 4m ago

Workflow [Security Operations Integration - Enrich Observable](#) execution completed.
Finished running Enrich observable capability

System
Work notes • 2023-06-14 00:22:07 4m ago

[ThreatQ] Comments for observable "95.119.156.54".
Test comment1, Test comment2

System
Automation activity • 2023-06-14 00:22:00 4m ago

Workflow [Security Operations Integration - Enrich Observable](#) execution started.
Data inputs for this action: [95.119.156.54](#)

Troubleshooting

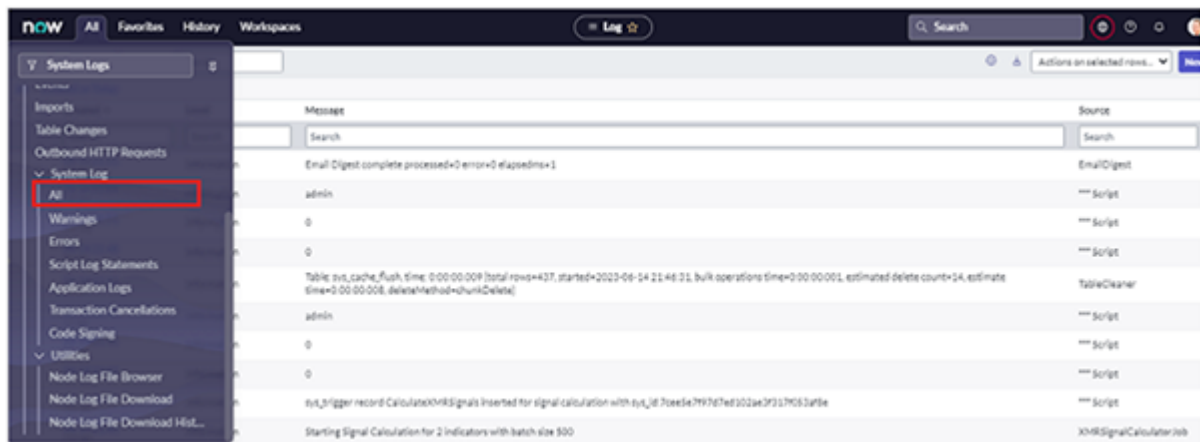
Increase Field of Input Field

The default max for characters used in object properties and attribute fields is 200. The steps below detail how to increase that limit.

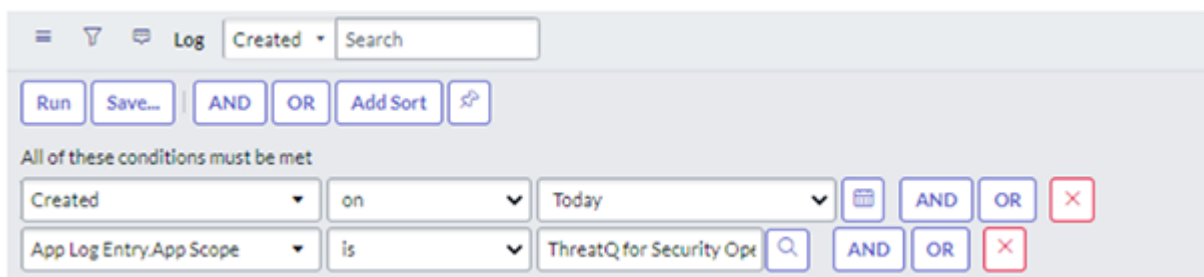
1. Open the `sn_sec_core_integration_item_config` table using the `sn_sec_core_integration_item_config.list` command in the navigation panel.
2. Click on the  icon on the left side and open **Configure > Table**.
3. Click on the **Here** link if you receive the following message: "This record is in the Global application, but ThreatQ for Security Operations is the current application. To edit this record click here."
4. Search for the value named column in the columns list provided in the columns tab.
5. Update the **Max Length** to 500 or the required length based on your data for the value field.
6. Click on the **Update**.

Application Logs

1. Navigate to **System Logs -> All**.



2. To display application-specific logs apply the following filter displayed in the image below.



Upgrading Application

Perform the following steps when upgrading the application from a previous version.



The user needs to reconfigure credentials in the Integration Tile after the application has been upgraded.

Data that has already been enriched wouldn't have values in the newly created fields. These can be seen data in the Default View.

1. Log in to the instance.
2. Navigate to **System Applications > All Available Applications > All**.
3. Find the application with the filter criteria and search bar.
4. Next to the application listing, select the version to install.
5. Click **Update**.



Existing workflow activity will not be affected by the Upgrade process.

Known Issues / Limitations

- The Hash Observable Type record in the observable enrichment under the ThreatQ Enrichment tab will not get populated in the Security Incident.
- You might see error logs regarding column type conversion for the ThreatQ Score field. Please ignore these, they will not impact the integration. We have shipped an alternative column with the same name and type as an integer and deprecated the previously used column.

Change Log

- **Version 1.3.0**
 - Added support for On-Premise deployment using the ServiceNow MID server.
 - Added compatibility for the **Vancouver** version.
 - Resolved an issue with the conversion score (string to integer).
 - Added a new **Known Issue / Limitation** entry regarding possible error logs regarding column type conversion for the ThreatQ Score field.
- **Version 1.2.0**
 - Added to the app configuration page the ability to enter a comma-separated list of observables relationships to be ingested from ThreatQ: Adversaries, Asset, Attack Pattern, Campaign, Course of Action, Exploit Target, Events, Identity, Incident, Intrusion Set, Malware, Signatures, Type, TTP, Tool, Vulnerability.
 - Added to the app configuration page the ability to enter a comma-separated list of ThreatQ attribute names to be ingested during the enrichment.
 - Added to the app configuration page the ability to enter a comma-separated list of observable properties' names to be ingested from ThreatQ during enrichment: Type, Status, Score, Sources, Tags.
 - Added separate columns in ServiceNow to store each object artifact (Tags, Comments, Description, Status, Attributes, Score, Sources and relationships) that has been ingested from ThreatQ.
 - Updated the format of the ThreatQ score from string to integer.
 - Updated the format of the Created Date and Modified Date from string to a date format.
 - Validated the app for the Utah release.
 - Updated minimum ThreatQ version to 5.16.0.
- **Version 1.1.0**
 - Added new Oauth configuration option, **TQ Attributes Location**, that lets you specify the table where indicator attributes are saved.
 - Validated app for San Diego and Tokyo.
- **Version 1.0.9**
 - Initial release