GROUP-IB

TC Group-IB TI application (v1.2) for ThreatConnect TIP

Content

TC Group-IB TI v1.2 application for ThreatConnect TIP

Overview

The integration allows receiving feeds from the **Group-IB Threat Intelligence** and transforming them into the **ThreatConnect Groups** and **Indicators objects**. These objects use extra **Attribute Types**, which should be uploaded via **attributes.json** file manually at **Gear** → **Org Settings** → **Attribute Types** or will be uploaded automatically if your system allows to see listed **ThreatConnect market** apps.

Current application type - **Job App**. The **ThreatConnect Platform** provides the ability for customers to schedule applications as jobs, specifically known as **Job Apps**, that can be run at configured intervals.

URLs & IP-addresses for access list

For correct API workflow, each client must add the following addresses to their internal security access list:

1. URLs

    - tap.group-ib.com/api (for API access)
    - tap.group-ib.com (for web-portal access)
    - sso.group-ib.com (required for interface access)
    - servicedesk.group-ib.com (required for interface access)
    - matrix.group-ib.com (required for interface access)
    - vulnerability.group-ib.com (required for interface access)

2. IP-addresses

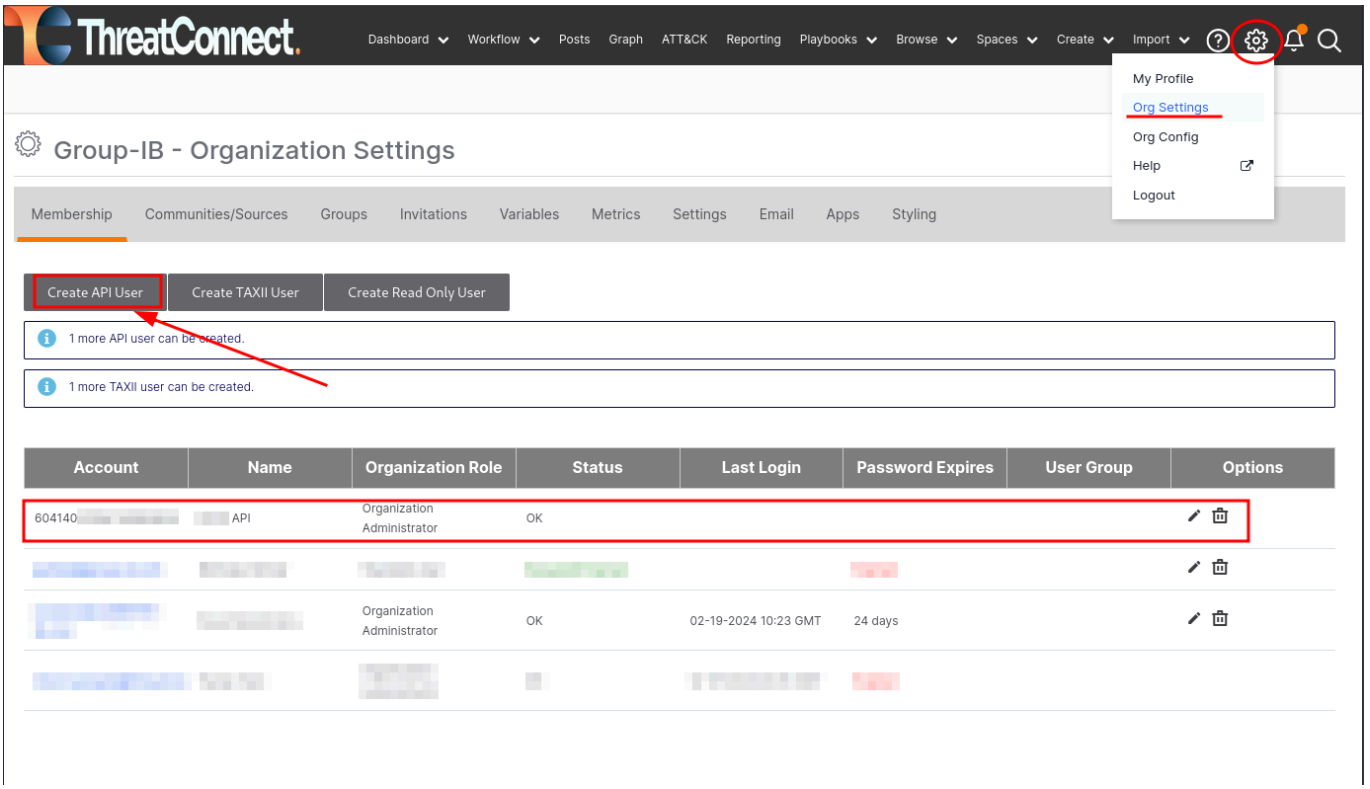
    - 162.55.218.201
    - 162.55.215.75
    - 162.55.211.31
    - 88.99.105.142
    - 94.130.70.148
    - 88.99.167.51
    - 148.251.221.108

Installation

The installation process assumes that you have access to the Group-IB TI portal integrations section where you can find the **ThreatConnect** tab with download link or at least you are able to see the public ThreatConnect GitHub repository. There you need to download the application TCX archive and install it in the ThreatConnect system. The **ThreatConnect API token** is also required for further configuration steps.

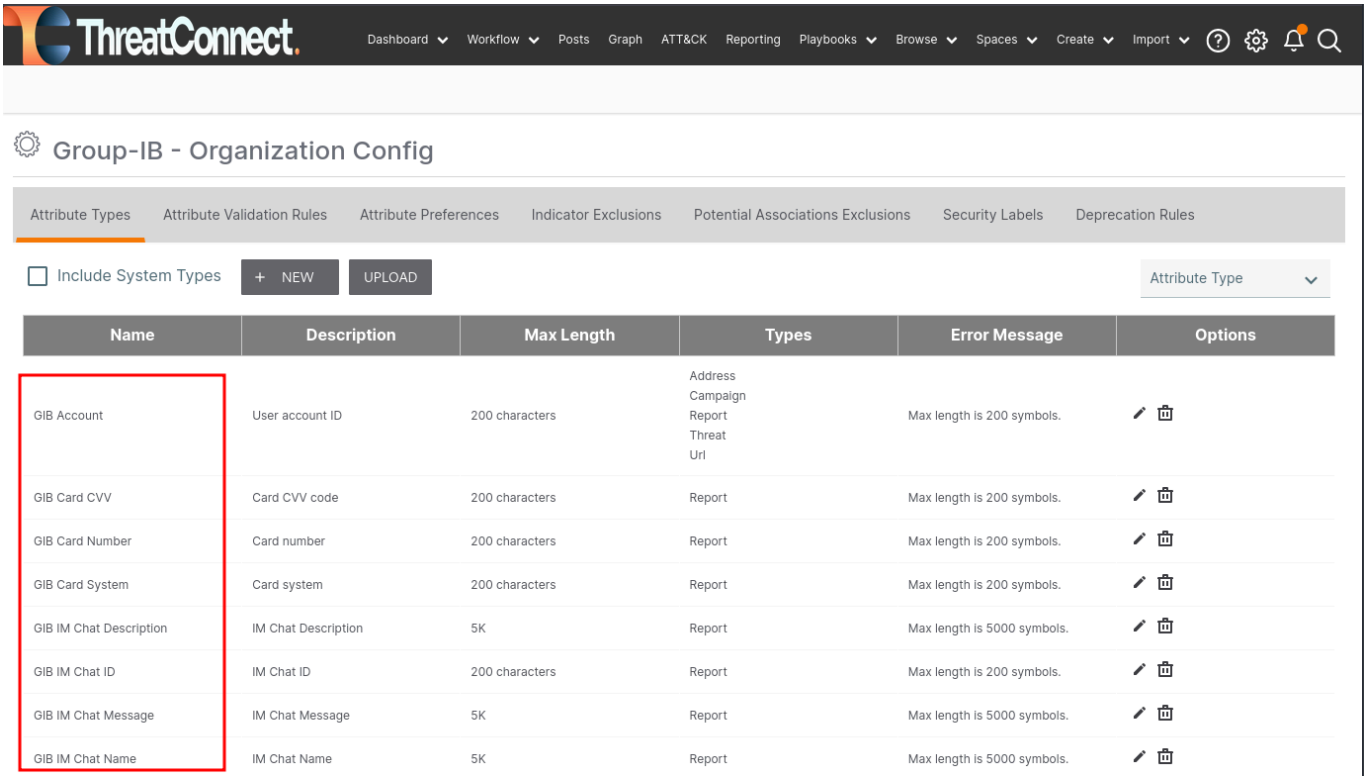
NOTE: Application upload via the **ThreatConnect API token** is also available.

1. Download the appropriate version of the integration at Group-IB TI Help Center → **Integrations** → **Custom and native integrations** → find **ThreatConnect** in the tab and download integration.
2. Open **ThreatConnect** web interface and login as administrator.
3. Click the **Gear** icon in the upper right corner of the window → **Org Settings**. In the **Membership** window click **Create API User**.



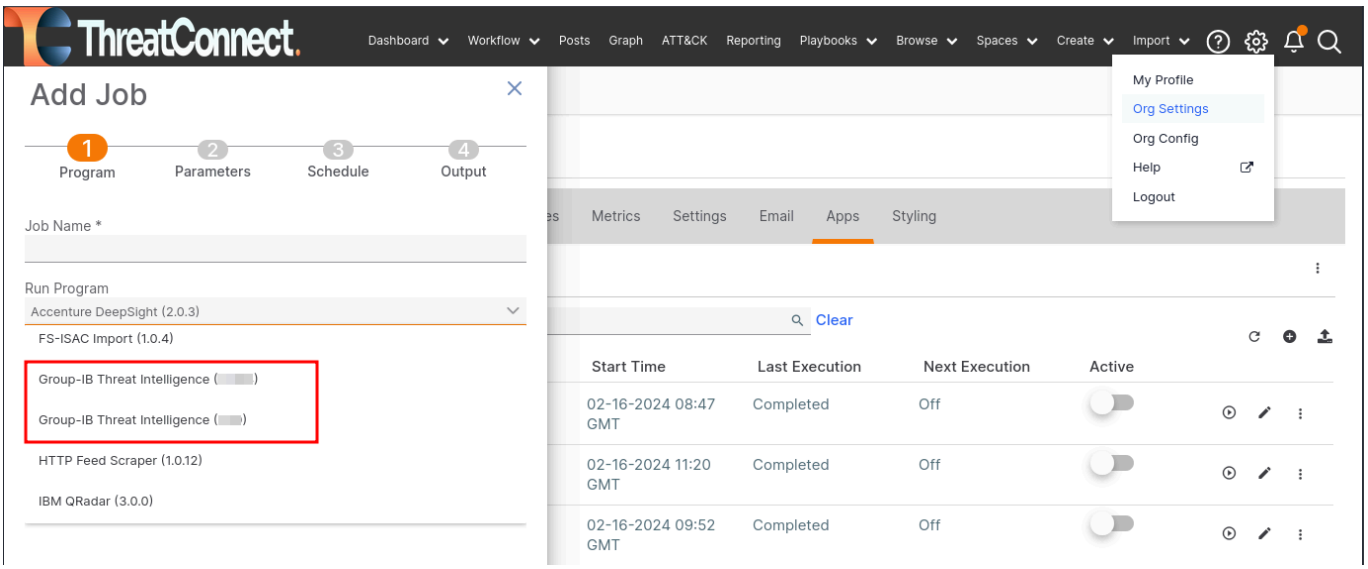
4. Go to **Gear** → **Org Settings** → **Apps** tab → **Install App**.
5. Browse application TCX file (*TC_GroupIB_TI_*.tcx*) and click **Install**.
6. Extract TCX file (*TC_GroupIB_TI_*.tcx*). The TCX extension is the same as the ZIP archive. And find **attributes.json** file in the app folder. This file is required for implementing the next step.

7. Go to **Gear** → **Org Settings** → **Attribute Types** and click **Upload**. Select **attributes.json** file and click **Save**. New attributes will be added to the list.



8. Make sure you have the correct credentials for the app to connect **Group-IB TI API** (TI Username and TI API token). Check the Group-IB Starting Guide for more info.

9. After installation successfully completes you will see the "**Group-IB Threat Intelligence (vx.x.x)**" app at **Gear** → **Org Settings** → **Apps tab** → **Add Job** menu → **Run Program** dropdown.



10. Create a new Job for the app in the **Add job** window (you'll find instructions below).

Configuration

The configuration process includes several steps. The first step is to create a **Job App** based on the integration app. The second step concerns configuring collections. Each collection is a set of data that contains different information for each type of attack. You can find a more detailed description at our Group-IB TI Portal.

Before you begin

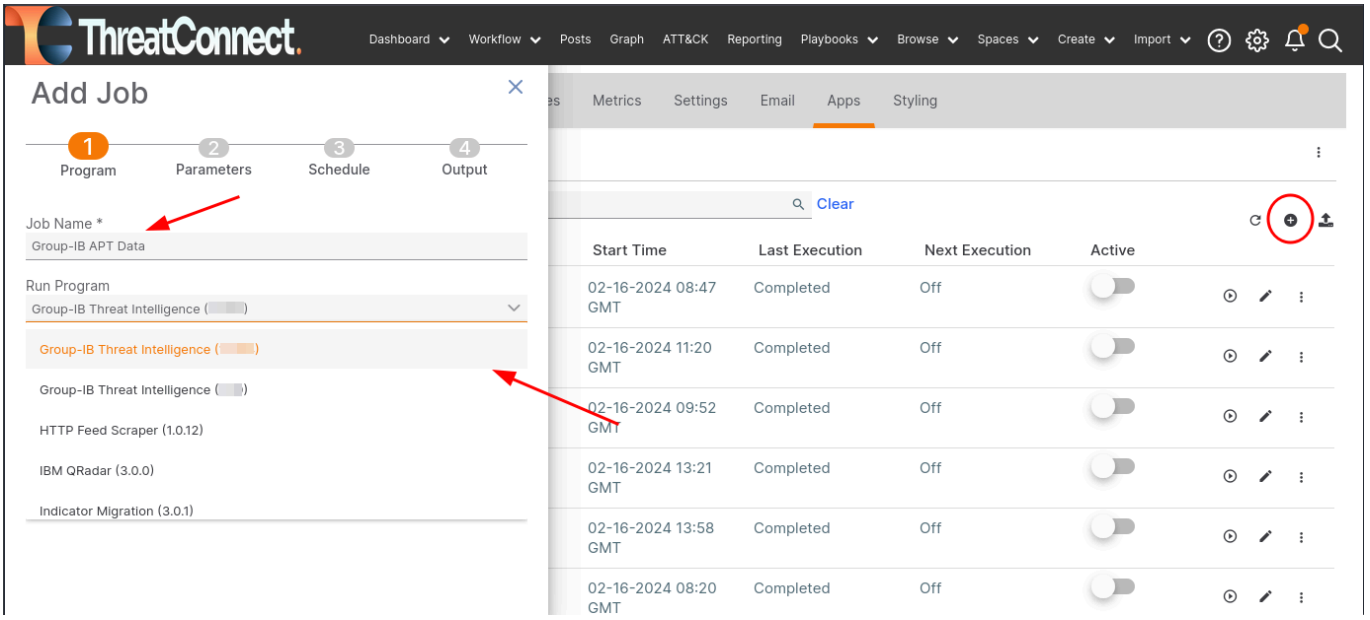
To ensure that **TC Group-IB TI** application is installed without errors, check that you use only the supported versions of **ThreatConnect Platform** software.

General information

The **TC GroupIB TI** application is based on requests to the **Group-IB TI Portal API**, gathering data and uploading it to the **ThreatConnect Platform**. Requests gather information from different collections, which are listed in **Job App** configuration steps. Each collection has **Initial date** and **Sequence update number** parameters.

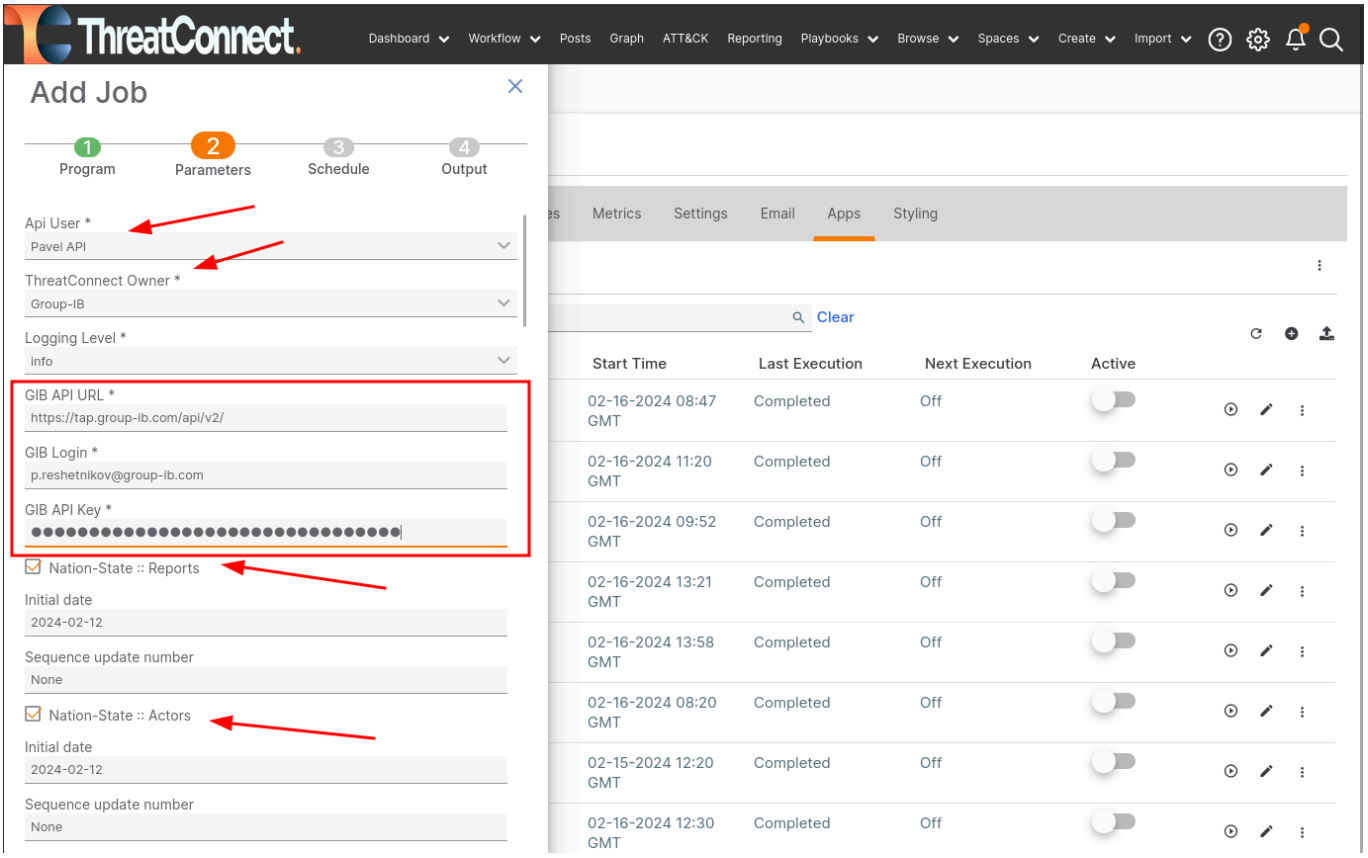
Step 1. Add new Job

1. Go to **Gear** → **Org Settings** → **Apps tab** → **Add Job menu** → **Run Program** dropdown. Enter the Job name and select the app **Group-IB Threat Intelligence (vx.x.x)**. Click **Next**.



2. Fill in **ThreatConnect API User**, **ThreatConnect Owner** and **Group-IB** credentials (**Group-IB Login**, **Group-IB API Key**) in the Parameters tab.

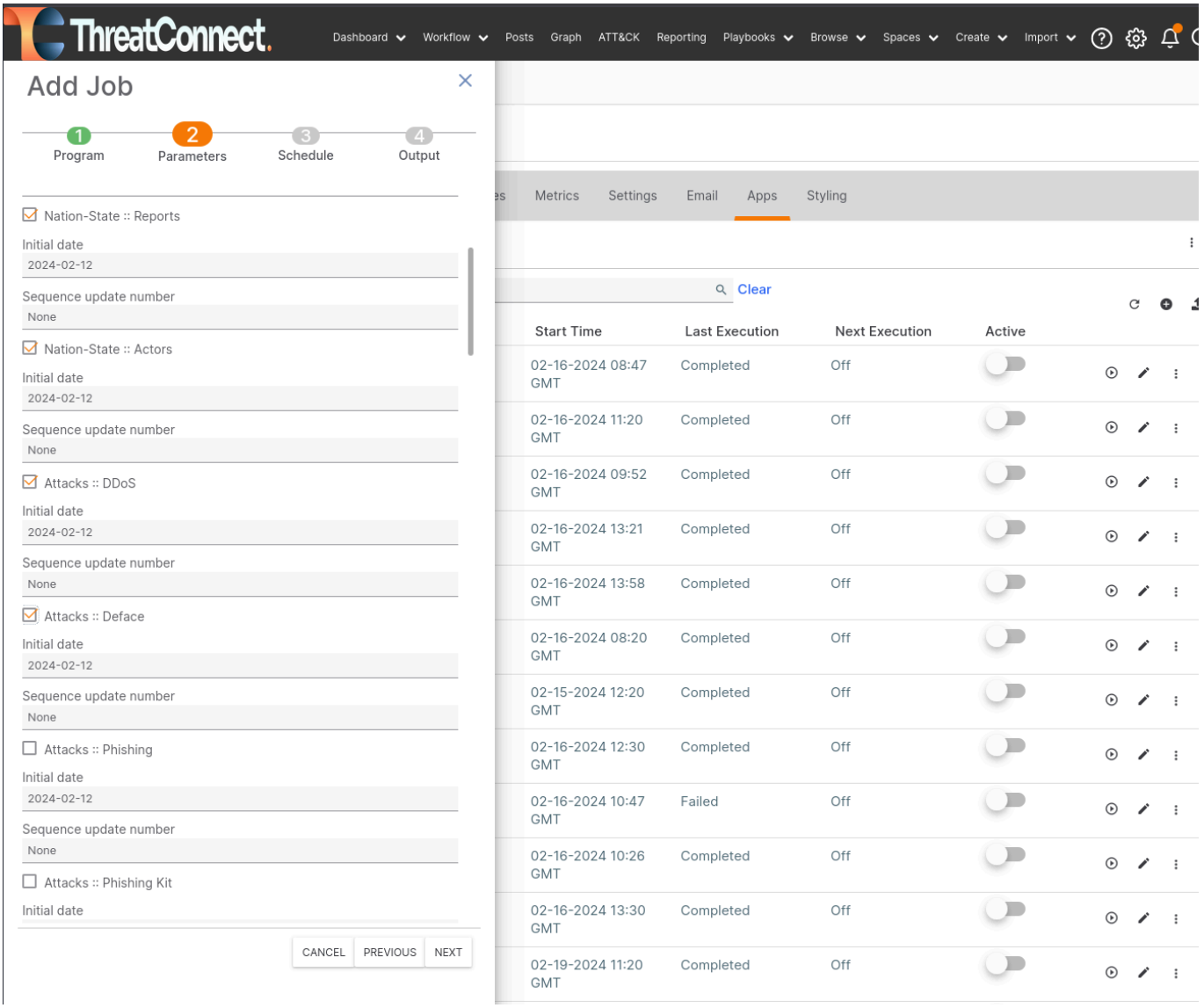
3. Enable required collections and set the **Initial date** of data collection. Click **Next**.



4. Configure the Schedule tab with the daily option and click **Next**.
5. Configure the Output tab and click **Save**.
6. **Activate** created Job to set scheduled run in the background or run it once to check.

Step 2. Collections configuration

All listed collections can be enabled and run as one separate Job or can be configured as one Job for each collection. This option is available as API requests 1-second limit applies only to one collection, but can run in separate thread.



Here in the example on the screenshot how you can mark collections you need, to get data from **Threat Intelligence**. Gathered data will be transferred to the **ThreatConnect Groups** and **Indicators objects** and uploaded to the system. Mark the required collection using the checkbox. After finishing the configuration process, click “Next” and finish a Job creation.

- **Initial date** – the “starting point” of the collection data download process. When the download process starts this date will be ignored and iteration over collection data will be based on “Sequence update number”. So if you need to change this date and get a fresh download process you need to set “Sequence update number” to “None”.
- **Sequence update number** – Each row in our database has its own unique sequence update number. So, we can get all the events one by one, using the iteration. This number helps to fix the “end point” of data for the last day. And continue iteration on the next day with new data.

NOTE: Please, be careful with the choice of data storage in TIP, as some collections can grow up quickly (especially Attacks :: DDOS, Compromised :: Bank Cards / Masked Cards and Suspicious IP group collections).

NOTE: The “Sequence update number” accepts values “None”, “0” or microseconds (“17083410361167”). One of these values is required. An empty “Sequence update number” field will raise an error.

Initial date value is primarily informative for you, because after a while you can see which date you set earlier. After completing the configuration process and clicking “Save”, the data pull process starts.

It gets the last “Sequence update number” on the date you selected and starts downloading data in limited portions.

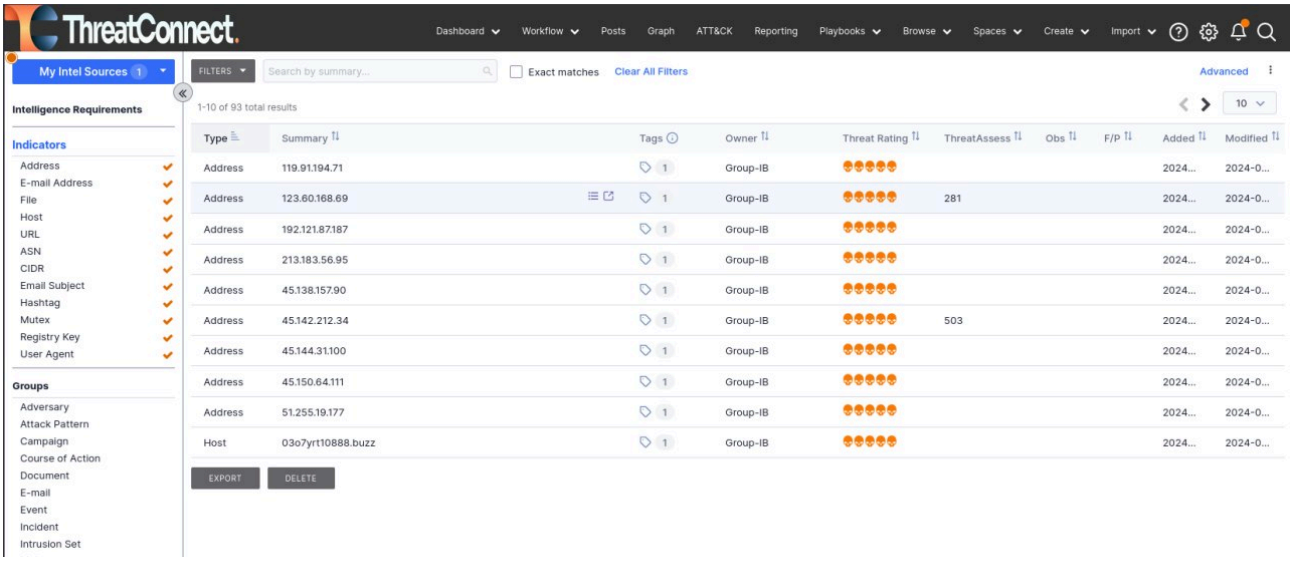
Each time portion is gathered by the application - a new “Sequence update number” is stored and used for the next portion. When the download process stops the last “Sequence update number” will be used the next day, not **Initial date** value. In other words, if you need to change **Initial date** value, follow these steps:

- Set a new Initial date.
- Set Sequence update number to “None”
- Save changes.
- Run the Job.

NOTE: Collection IOC :: Common – is specially created to get only IoC and has no extra attribution. Contains information from the following collections: [APT :: Threat, APT :: Threat Actor, HI :: Threat, HI :: Threat Actor, Malware :: C2]. It is possible to find correlations between collections but this is not the case. The main idea of IOC :: Common collection is to use it for firewall rules.

Usage

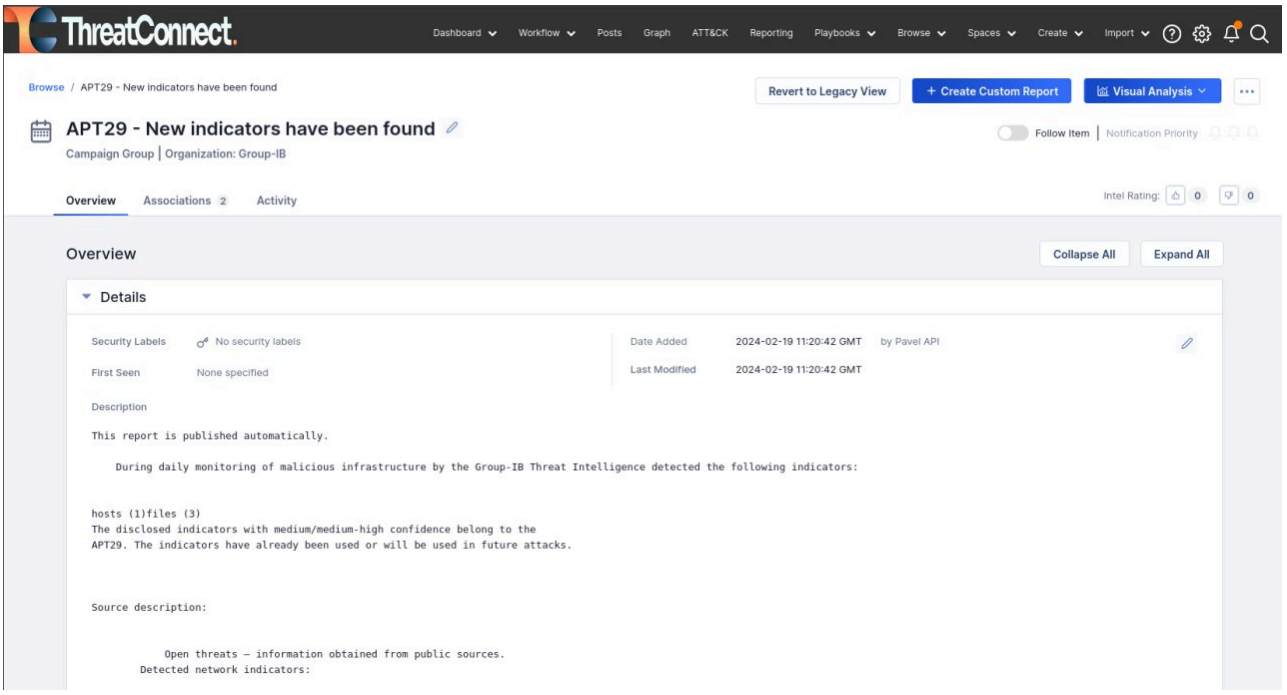
All downloaded feeds from **Group-IB Threat Intelligence** are stored **Groups** and **Indicators**. To get access to this information you should click the **Browse** tab on the top panel → select **Indicators** or **Groups**. Data table with additional information will be opened.



Select any row in the data table to expand the overview tab.

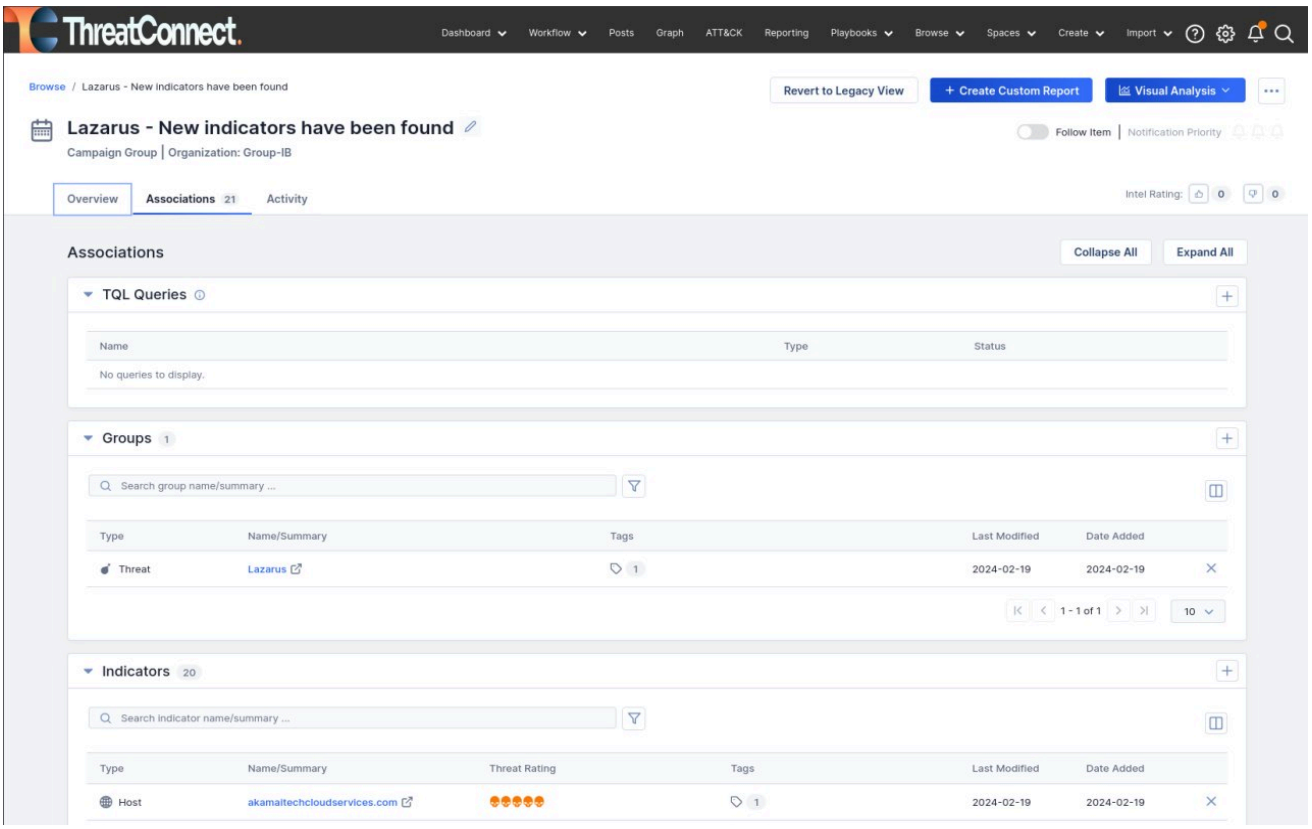
In the **Overview** tab you will see the following data:

- Security label
- First seen
- Date added
- Last modified
- Description
- Attributes
- etc.



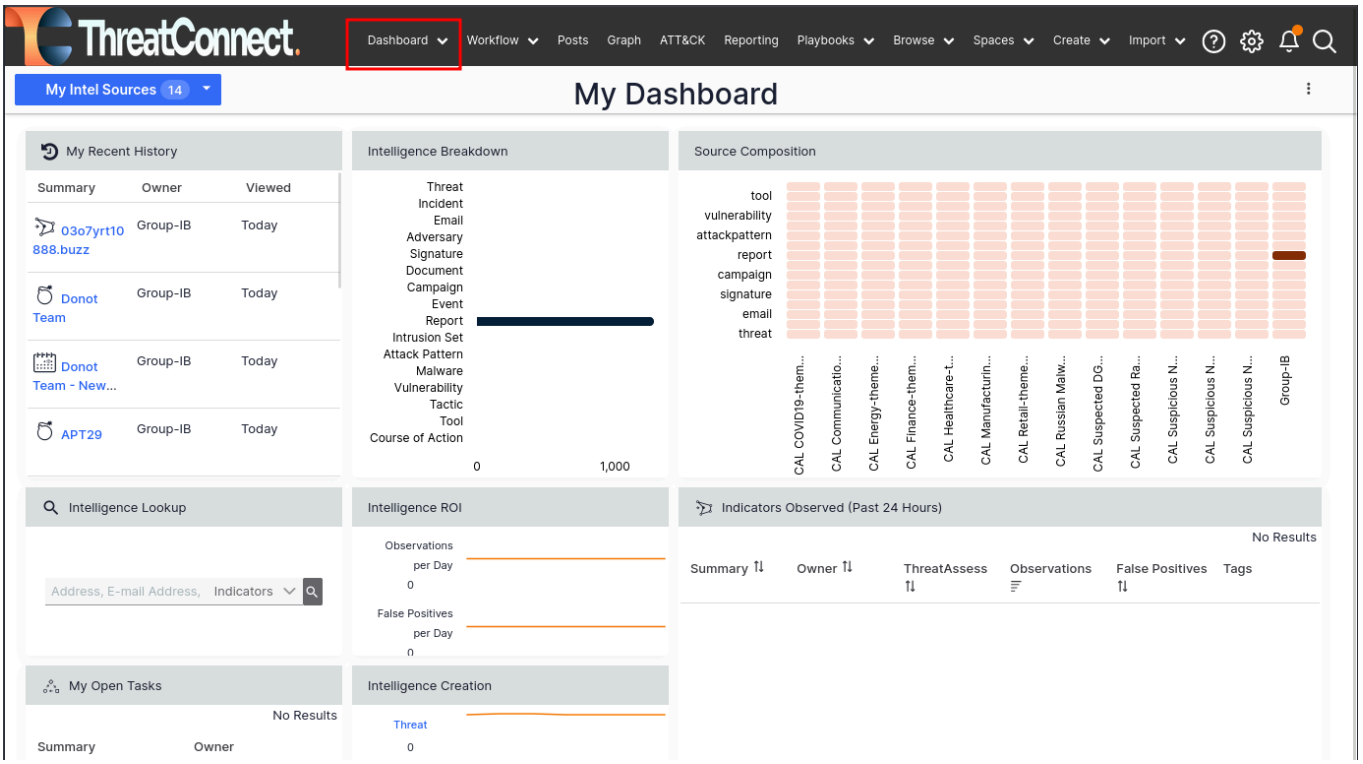
In the **Associations** tab you'll find all the data, related to the chosen indicator. It includes the following blocks:

- TQL Queries
- Groups
- Indicators
- etc.



Total data information can be found at the **Dashboard** tab on the top panel. Here you can see widgets with plots and diagrams about each event. The following widgets are available:

- My Recent History
- Intelligence Breakdown
- Source Composition
- Intelligence Lookup
- Intelligence ROI
- Indicators Observed (Past 24 Hours)
- My Open Tasks
- Intelligence Creation



You can customize your dashboard and different widgets for your needs.

Data filtering

All data received from a particular collection is marked with special tags. The table below displays the mapping of **Group-IB collections** into **Groups** and **Indicators** presented in **ThreatConnect Platform**.

Collection	TC data type	Tag
Nation-State :: Reports	Campaign	APT/Threat
	Threat	APT/Threat Actor
	File	APT/Threat
	URL	APT/Threat
	Address	APT/Threat
	Host	APT/Threat
Nation-State :: Actors	Threat	APT/Threat Actor
Attacks :: DDoS	Incident	Attacks/DDOS
	Address	Attacks/DDOS, CNC, DDOS
Attacks :: Deface	Report	Attacks/Deface
Attacks :: Phishing	Incident	Attacks/Phishing
	URL	Attacks/Phishing
Attacks :: Phishing Kit	Incident	Attacks/Phishing Kit
	URL	Attacks/Phishing Kit
	E-mail	Attacks/Phishing Kit
Compromised Data :: Shops	Report	Compromised Data/Shop
	URL	Compromised Data/Shop
	Address	Compromised Data/Shop
Compromised Data :: Accounts	Report	Compromised Data/Account
	URL	Compromised Data/Account, CNC
	Address	Compromised Data/Account, CNC
Compromised Data :: Bank Cards	Report	Compromised Data/Bank Card
Compromised Data :: Masked Cards	Report	Compromised Data/Masked Card
IM :: Discord	Report	Compromised Data/Discord
IM :: Telegram	Report	Compromised Data/Telegram
Compromised Data :: IMEI	Report	Compromised Data/IMEI

Collection	TC data type	Tag
	URL	Compromised Data/IMEI, CNC
	Address	Compromised Data/IMEI, CNC
Compromised Data :: Mules	Report	Compromised Data/Mules
	URL	Compromised Data/Mules, CNC
	Address	Compromised Data/Mules, CNC
Open Threats	Campaign	HI/Open Threats
	File	HI/Open Threats
	URL	HI/Open Threats
	Address	HI/Open Threats
	Host	HI/Open Threats
	E-mail	HI/Open Threats
Cybercriminals :: Reports	Campaign	HI/Threat
	Threat	HI/Threat Actor
	File	HI/Threat
	URL	HI/Threat
	Address	HI/Threat
	Host	HI/Threat
Cybercriminals :: Actors	Threat	HI/Threat Actor
IOC :: Common	Report	IoC/Common
	File	IoC/Common
	URL	IoC/Common
	Address	IoC/Common
Malware :: C2		
	URL	Malware/CNC, CNC
	Address	Malware/CNC, CNC
	Host	Malware/CNC, CNC
Malware :: Configs	Incident	Malware Config
	File	Malware, Malware Config
Malware :: Report	Report	Malware Report
Malware :: Signature	Signature	Suricata, Signature
Malware :: Yara rule	Signature	YARA, Signature

Collection	TC data type	Tag
Compromised Data :: Git Leaks	Incident	OSI/Git Leak
Compromised Data :: Public Leak	Incident	OSI/Public Leak
OSI :: Vulnerability	Incident	OSI/Vulnerability
Suspicious IP :: Open Proxy	Address	Open Proxy
Suspicious IP :: Scanners	Address	Scanner
Suspicious IP :: Socks Proxy	Address	Socks Proxy
Suspicious IP :: Tor Node	Address	Tor Node
Suspicious IP :: VPN	Address	VPN

Troubleshooting

First of all, as you begin the troubleshooting process, we kindly ask you to familiarize yourself with the common errors that occur when using our application. If errors occur outside of common cases, we will need more details for this purpose. To get to know what happened with the application on your side we need to gather information about your system, time when the error occurred and application logs. If you encounter any problems, please, follow the instructions below.

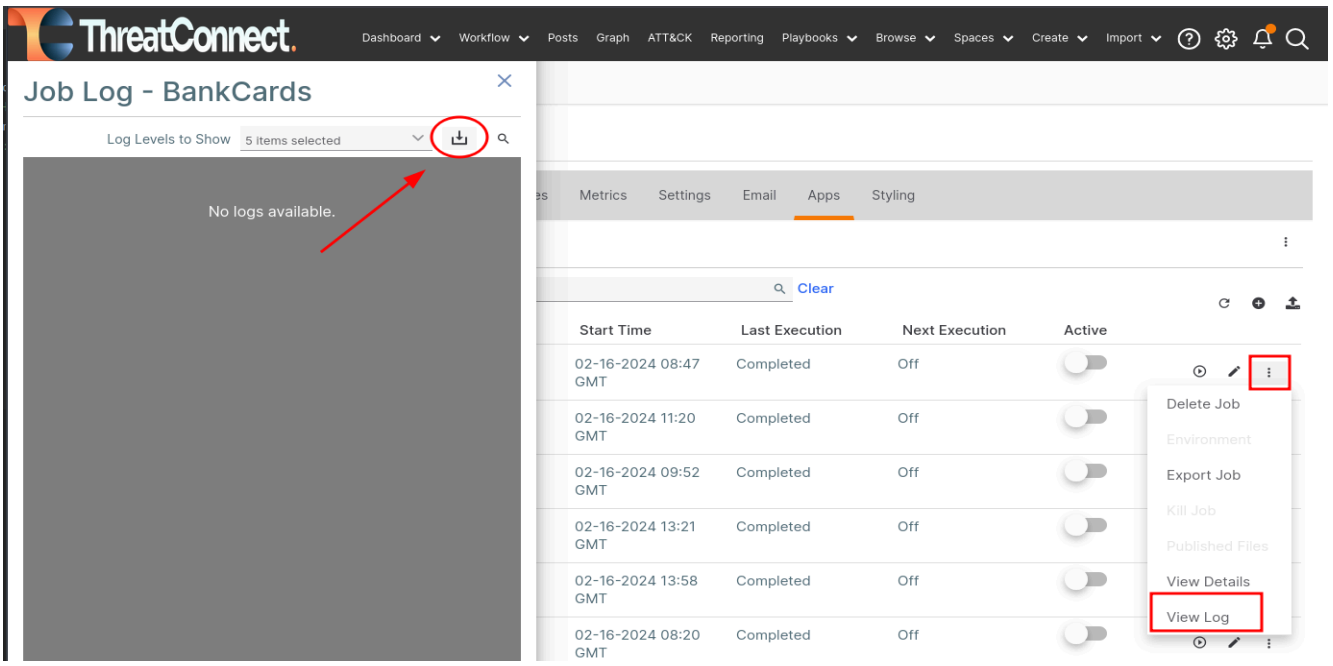
Common errors

To find detailed information about each of the common errors, please check the section **Common errors solution**.

1. **ThreatConnect** server can't reach **Group-IB Threat Intelligence** portal.
2. **ThreatConnect** token expired or wasn't created.
3. **Group-IB** token expired or wasn't created.
4. **Group-IB** account settings are not properly configured (IP addresses are not added to access list).
5. **Group-IB** account collections access do not match to collections, chosen in the application.
6. Client blocks incoming data from **Group-IB** portal (Client didn't add necessary Threat Intelligence IP addresses to his access list).

Download logs

Downloading logs is the most important thing in troubleshooting. To get logs of the app you should **expand settings of the failed Job** → select **View Log** → **press download button**.



Common errors solution

All necessary instructions can be found at the Integration manual page.

ThreatConnect server can't reach Group-IB Threat Intelligence portal.

Execute the command below in the terminal, using your **Group-IB** username and **Group-IB** token credentials instead of LOGIN and API_KEY words.

*curl 'https://tap.group-ib.com/api/v2/sequence_list' -u 'LOGIN:API_KEY' -H 'Accept: */*' -v*

If your **Group-IB** and proxy credentials are correct, please attach output to Email or Service Desk ticket, we will check your **Group-IB** profile.

NOTE: If you have a proxy with authentication, add flag *--proxy* with relevant proxy configurations

--proxy '<*protocol*>://<*user*>:<*password*>@<*IP address*>:<*port*>'.

If you have a proxy without authentication, add flag *--proxy* with relevant proxy configurations

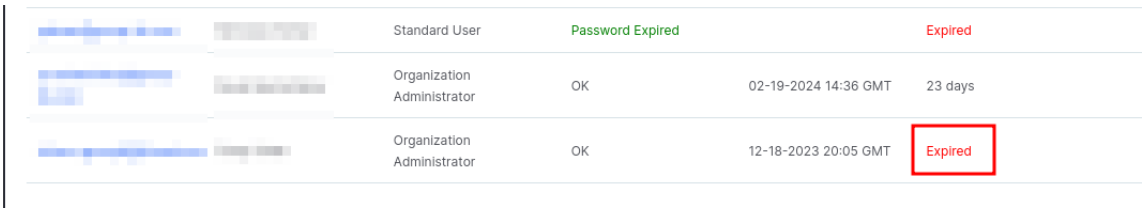
--proxy '<*protocol*>://<*IP address*>:<*port*>'

For example, command can look as:

curl --proxy https://127.0.0.1:3128 'https://tap.group-ib.com/api/v2/sequence_list' -u 'mr.demo@group-ib.com:wYM2gZ4Tc' -H 'Accept: */*' -v

ThreatConnect token expired or wasn't created.

Please make sure that your ThreatConnect token is active and ready to use. For that purpose check it at **Gear** → **Org Settings** → **Membership tab**. Make sure that the API token exists and has not expired.

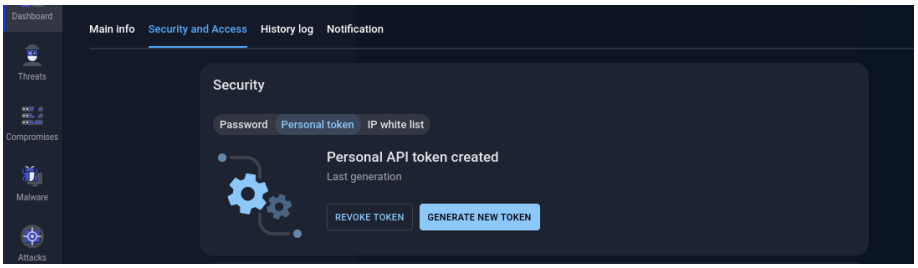


Group-IB token expired or wasn't created.

Please make sure that your **Group-IB** token is active and ready to use. For that purpose check your account settings at Group-IB portal.

- Click the username in the upper-right corner and then go to the **Profile** tab.
- Go to the **Security and Access** tab → **Personal token**.
- Click **Generate token** if you don't have one or **Generate new token** if it is required.
- Click **Save** to submit changes.

Open your application **API** profile and insert a new **Group-IB** token in the form. Also make sure you have a **ThreatConnect API** token. **API** profile update form requires both of them.

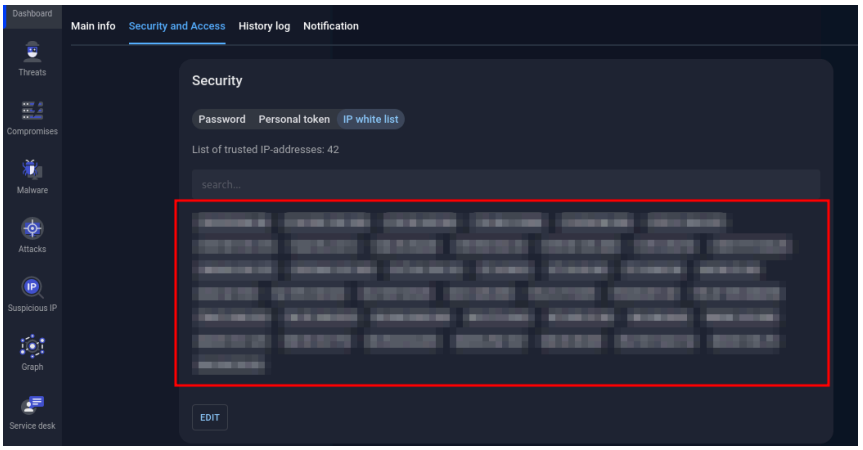


Group-IB account settings are not properly configured.

Please make sure that your **Group-IB** account settings are properly configured. For that purpose check your account settings at Group-IB portal.

- Click the username in the upper-right corner and then go to the **Profile** tab.
- Go to the **Security and Access** tab → **IP white list**.

Please make sure that all your public IPs are listed in the box below. If something is missing - please, inform us via Email or Service Desk ticket. We will try to solve this issue promptly.

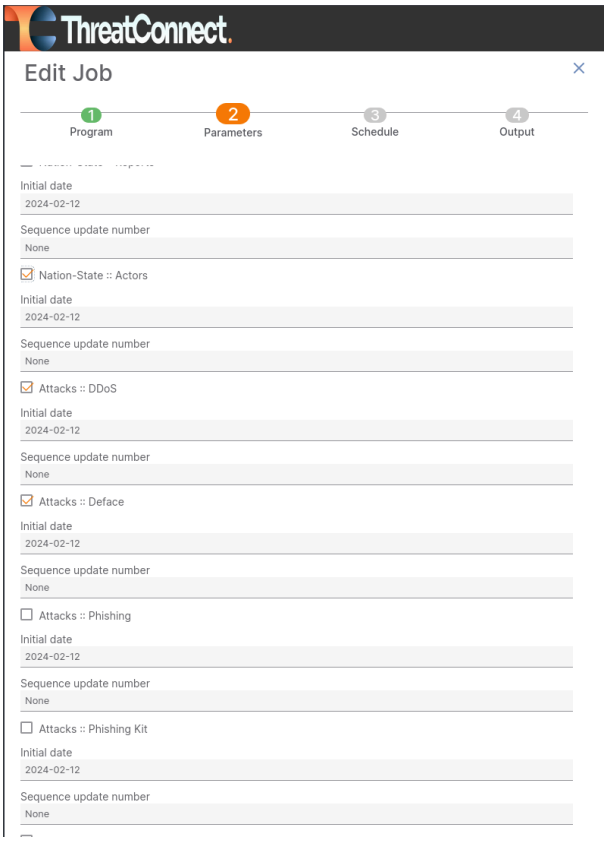


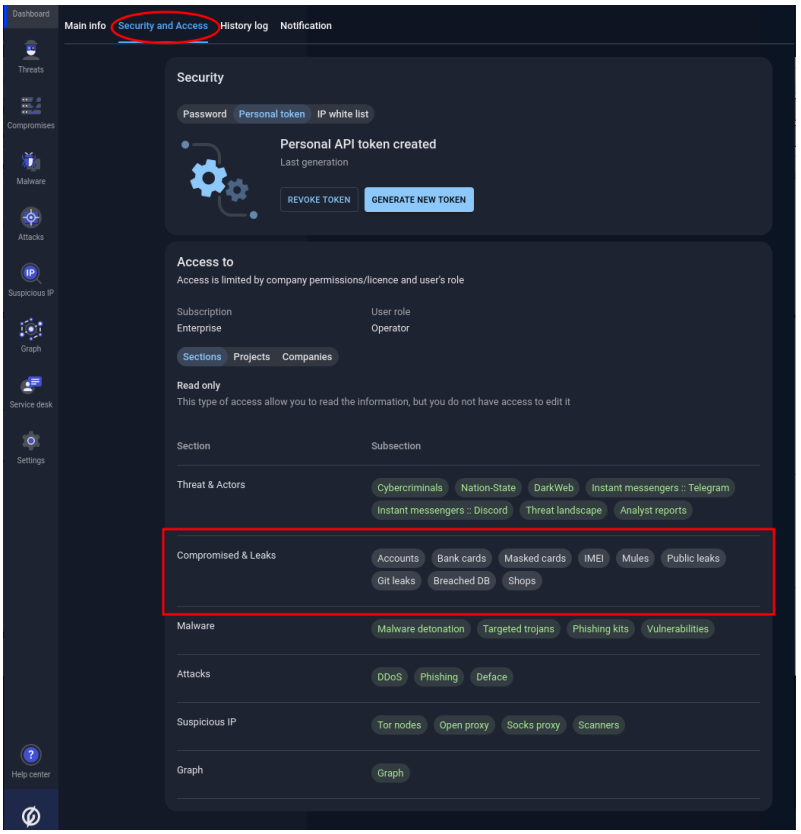
Group-IB account collections access do not match to collections, chosen in the application.

Please make sure that your **Group-IB** collection settings match and you didn't overselect them. For that purpose please compare the application collections settings and collections listed at your account settings at Group-IB portal.

- Click the username in the upper-right corner and then go to the **Profile** tab.
- Go to the **Security and Access** tab.

Compare collections.





Client blocks incoming data from Group-IB portal

Please make sure that **URLs** and **IPs** listed in section **Overview** are added to the access list on your side.

GROUP-IB

Preventing and investigating cybercrime since 2003

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