ThreatQuotient

A Securonix Company

FS-ISAC CDF

Version 1.1.0

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

Support Email: tq-support@securonix.com
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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.0
Compatible with ThreatQ Versions	>= 5.29.0
Support Tier	ThreatQ Supported

Introduction

FS-ISAC is an intelligence sharing community for financial services organizations. FS-ISAC provides feeds to their members containing intelligence surrounding threats targeting their industry. The FS-ISAC CDF enables the automatic ingestion of FS-ISAC feeds into ThreatQ. This integration acts as a TAXII client, fetching data from FS-ISAC's TAXII server based on a user-configured collection, parsing the intelligence, and ingesting it into ThreatQ. This feed adds additional features on top of ThreatQ's basic TAXII client functionality including, but not limited to, parsing object relationships out of STIX labels.

The integration provides the following feeds:

- **FS-ISAC CDF** - ingests intelligence from the FS-ISAC TAXII server.
- **FS-ISAC Automated High**
- **FS-ISAC Automated Medium**
- **FS-ISAC Automated Low**
- **FS-ISAC Curated**
- **FS-ISAC Automated Vulnerabilities**

The integration ingests the following system objects:

- Adversaries
- Attack Pattern
- Campaign
- Course Of Action
- Event
- Exploit Target
- Identity
    - Identity Attributes
- Incident
- Indicators
- Intrusion Set
- Malware
- Report
    - Report Attributes
- Signatures
- Tools
- TTP
- Vulnerabilities
    - Vulterability Attributes

Prerequisites

The following is required to use the integration:

- FS-ISAC TAXII Server Credentials
- ThreatQ's Egress IP Address whitelisted by FS-ISAC

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 integration file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration file using one of the following methods:
   - Drag and drop the file into the dialog box
   - Select **Click to Browse** to locate the integration file on your local machine

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

6. The feed will be added to the integrations page. You will still need to configure and then enable the feed.

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 **Commercial** option from the *Category* dropdown (optional).

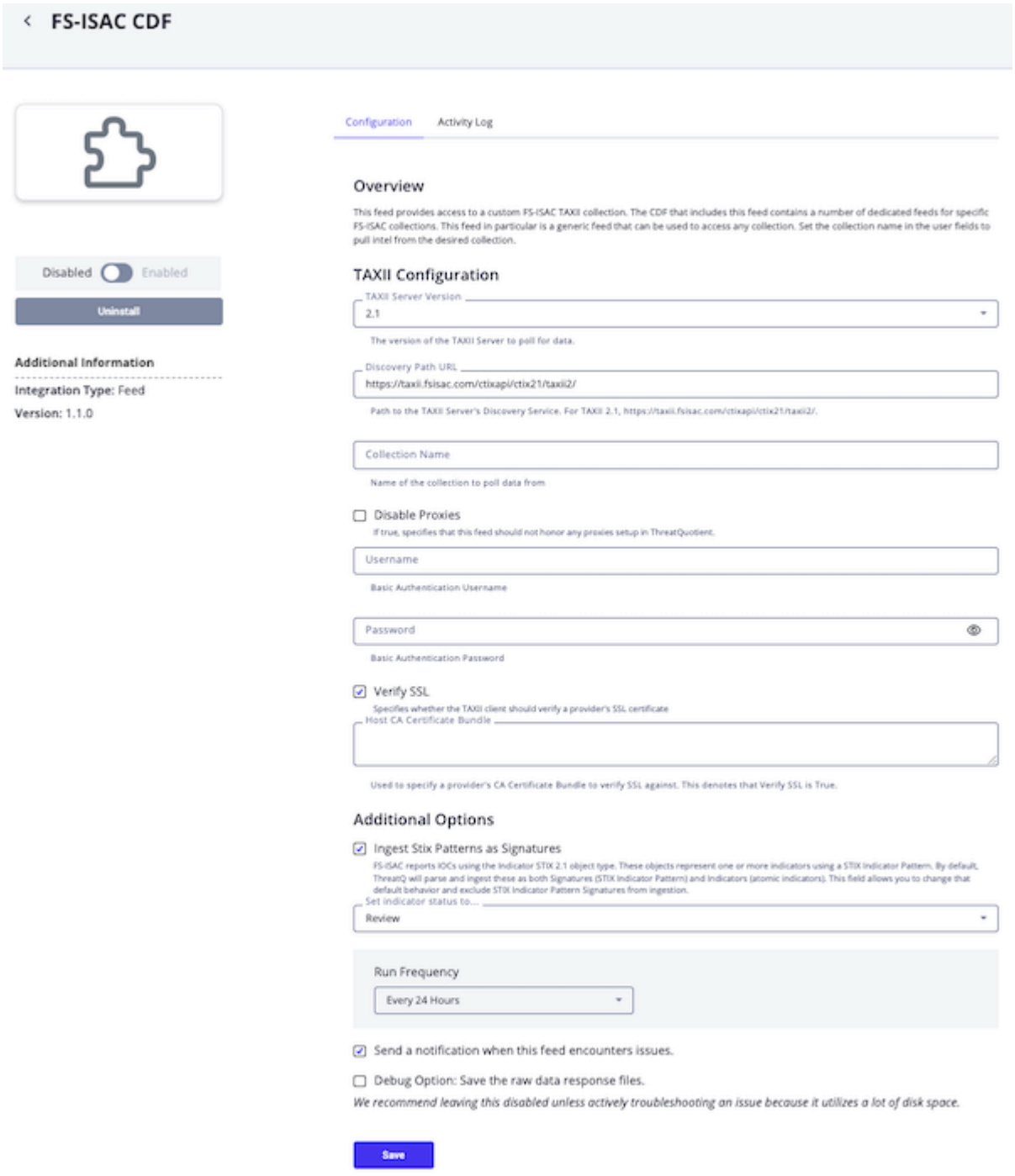
   > If you are installing the integration for the first time, it will be located under the **Disabled** tab.

3. Click on the integration entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

FS-ISAC CDF

PARAMETER	DESCRIPTION
TAXII Server Version	Select the server version to poll data.
Discovery Path URL	Enter the path to the TAXII Server's Discovery Service. Options include: ◦ **2.1** - `https://taxii.fsisac.com/ctixapi/ctix21/taxii2/` (default) ◦ **2.0** - `https://taxii.fsisac.com/ctixapi/ctix2/taxii/`
Collection Name	Enter the collection name to poll.
Disable Proxies	If enabled, the feed will not honor proxy settings set in ThreatQ.
Username	Enter your basic authentication username for FS-ISAC.
Password	Enter the password associated with the username above.

PARAMETER	DESCRIPTION
Verify SSL	Enable this parameter if the TAXII client should verify the provider's SSL certificate.
Host CA Certificate Bundle	Paste the certificate bundle in this field if you enabled the **Verify SSL** parameter.
Ingest Stix Patterns as Signatures	FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.
Set indicator status to...	Select the status to apply to indicators.

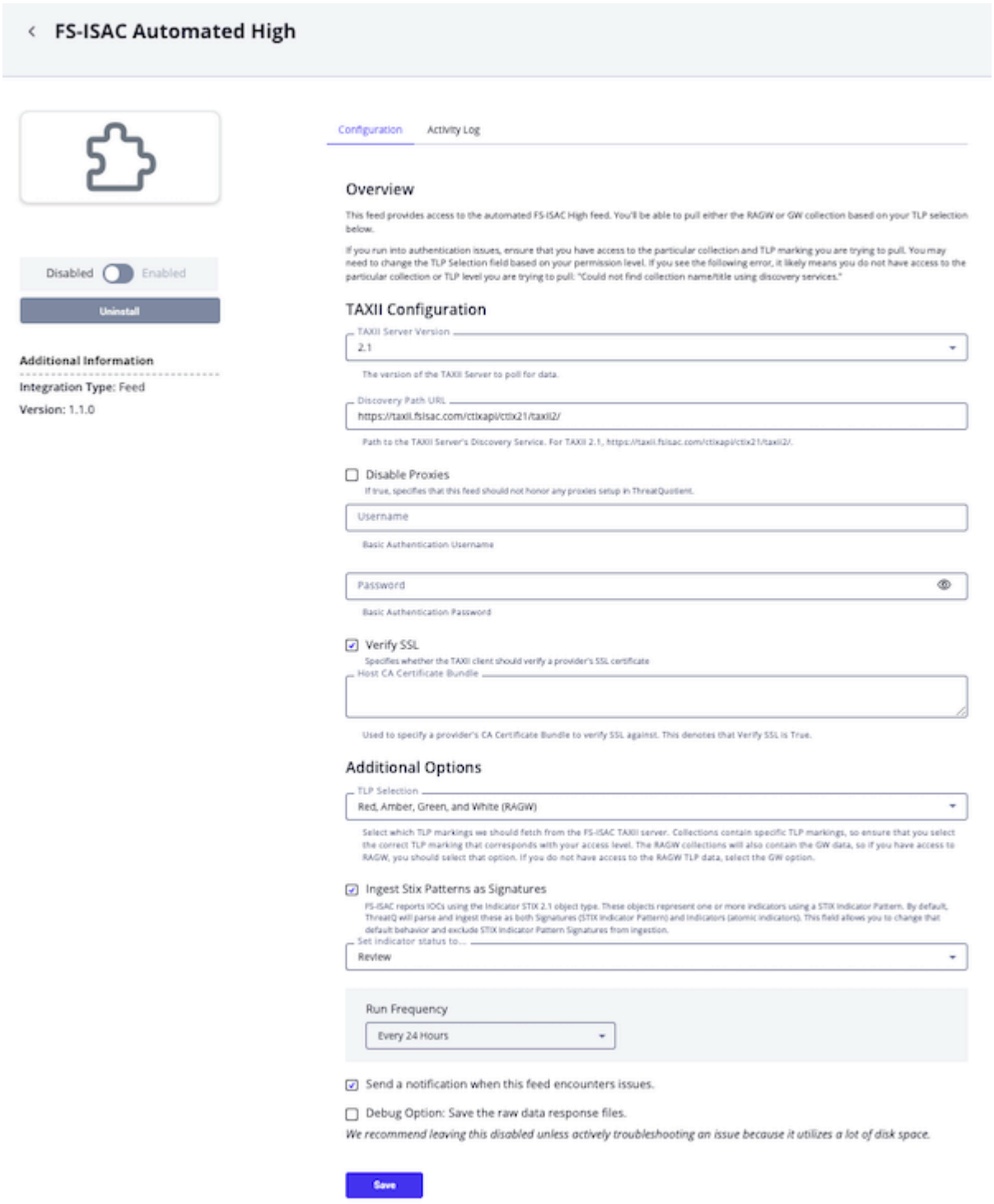


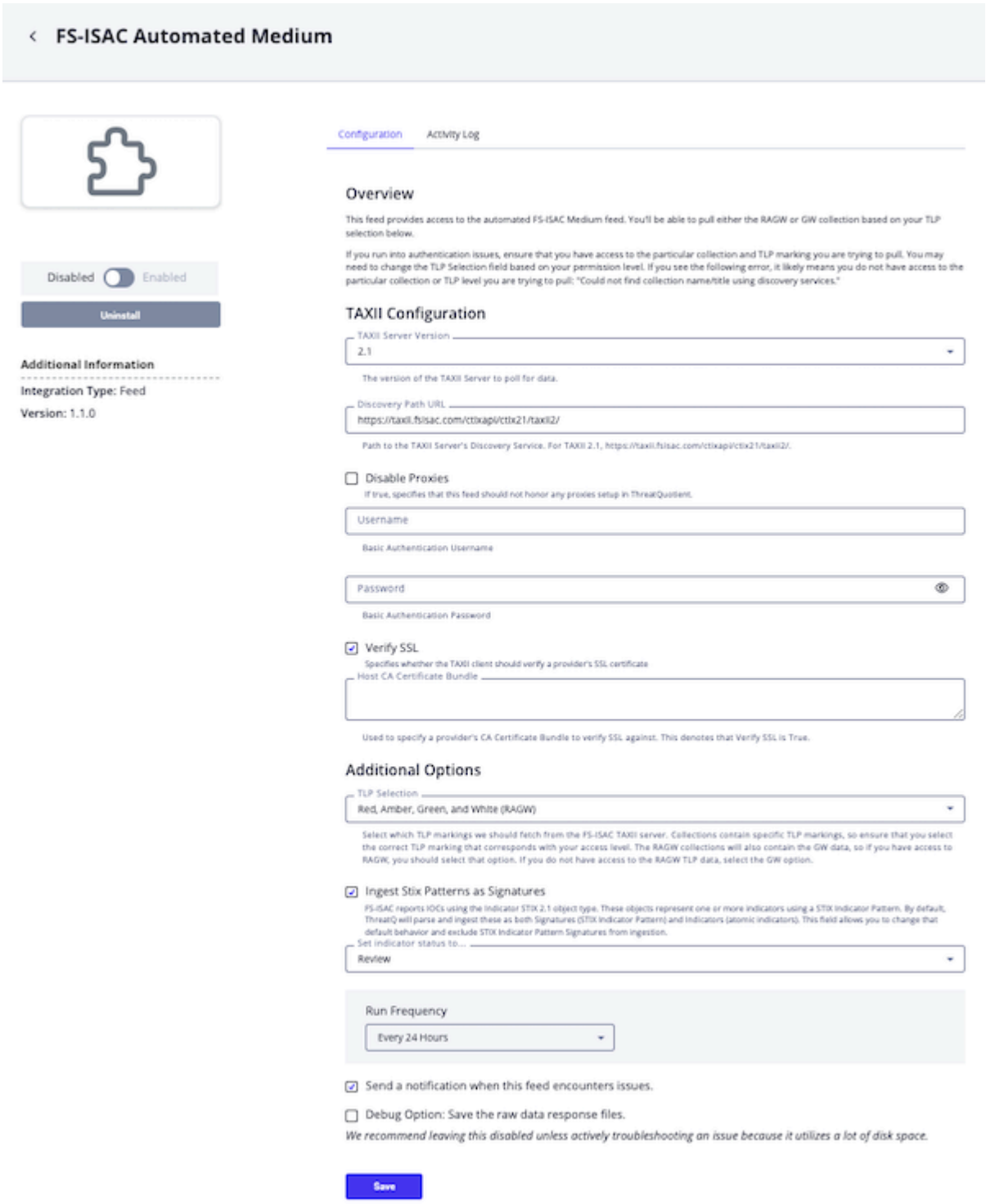
FS-ISAC Automated High, FS-ISAC Automated Medium, FS-ISAC Automated Low, and FS-ISAC Curated

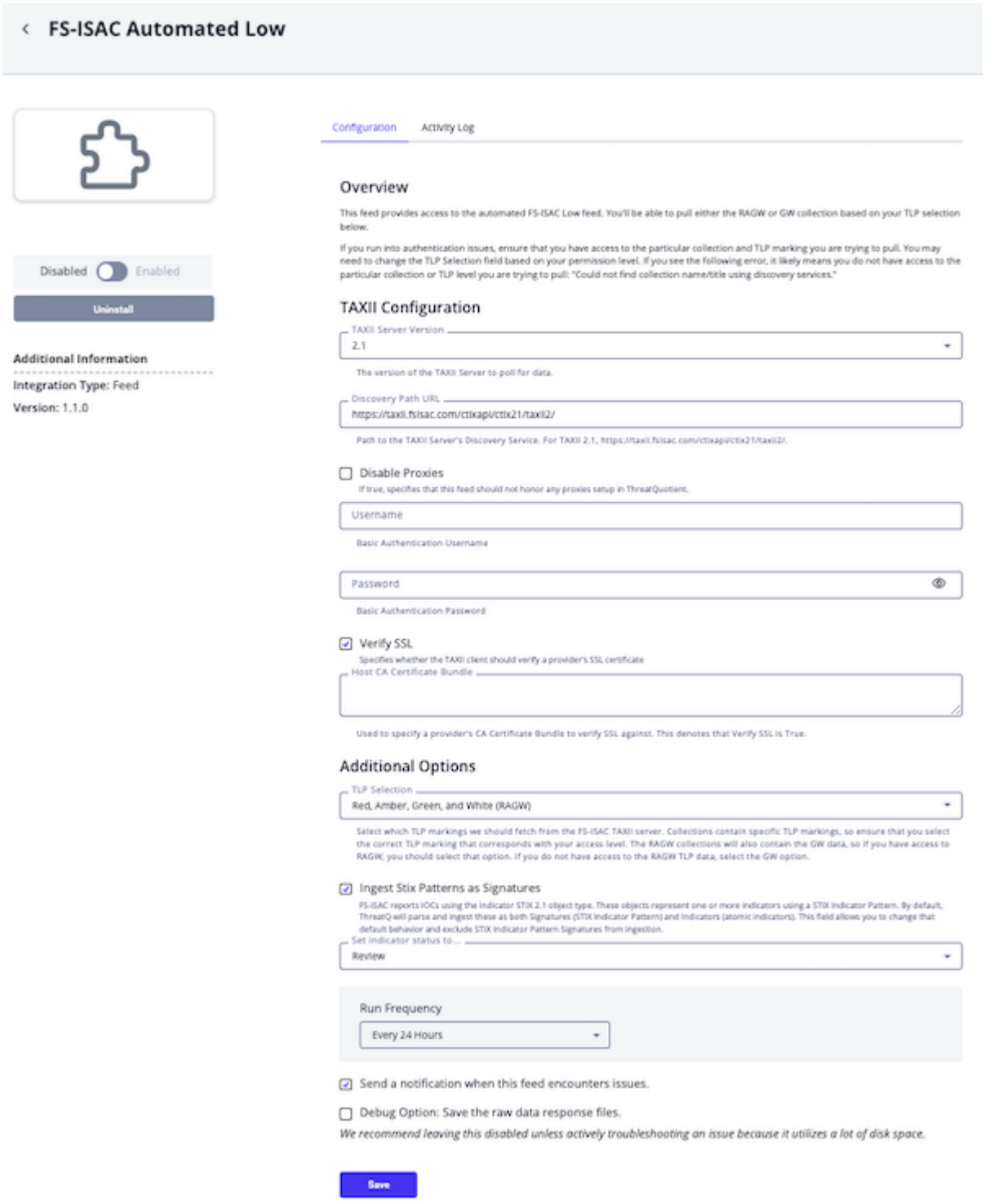
PARAMETER	DESCRIPTION

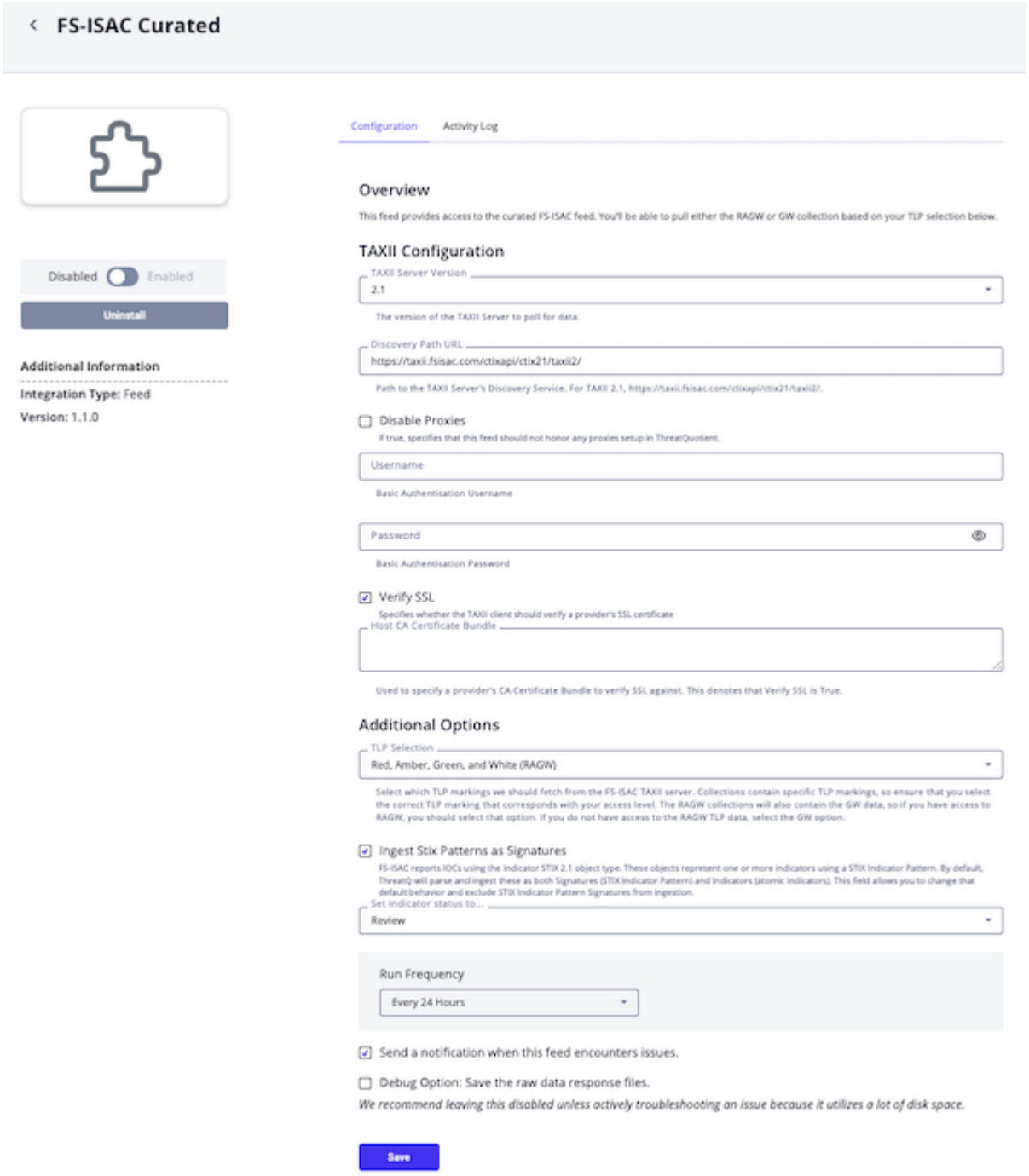
PARAMETER	DESCRIPTION
TAXII Server Version	Select the server version to poll data.
Discovery Path URL	Enter the path to the TAXII Server's Discovery Service. Options include: ◦ **2.1** - `https://taxii.fsisac.com/ctixapi/ctix21/taxii2/` (default) ◦ **2.0** - `https://taxii.fsisac.com/ctixapi/ctix2/taxii/`
Disable Proxies	If enabled, the feed will not honor proxy settings set in ThreatQ.
Username	Enter your basic authentication username for FS-ISAC.
Password	Enter the password associated with the username above.
Verify SSL	Enable this parameter if the TAXII client should verify the provider's SSL certificate.
Host CA Certificate Bundle	Paste the certificate bundle in this field if you enabled the **Verify SSL** parameter.
TLP Selection	Select which TLP markings we should fetch from the FS-ISAC TAXII server. Collections contain specific TLP markings, so ensure that you select the correct TLP marking that corresponds with your access level. The RAGW collections will also contain the GW data, so if you have access to RAGW, you should select that option. If you do not have access to the RAGW TLP data, select the GW option. • Red, Amber, Green, and White (RAGW) (default) • Green and White (GW)
Ingest Stix Patterns as Signatures	FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.

PARAMETER	DESCRIPTION
Set indicator status to...	Select the status to apply to indicators.


FS-ISAC Automated High
Disabled
Enabled
Uninstall
Additional Information
Integration Type: Feed
Version: 1.1.0
Configuration
Activity Log
Overview
This feed provides access to the automated FS-ISAC High feed. You'll be able to pull either the RAGW or GW collection based on your TLP selection below.
If you run into authentication issues, ensure that you have access to the particular collection and TLP marking you are trying to pull. You may need to change the TLP Selection field based on your permission level. If you see the following error, it likely means you do not have access to the particular collection or TLP level you are trying to pull: "Could not find collection name/title using discovery services."
TAXII Configuration
TAXII Server Version
2.1
The version of the TAXII Server to poll for data.
Discovery Path URL
https://taxii.fsisac.com/ctixapi/ctix21/taxii2/
Path to the TAXII Server's Discovery Service. For TAXII 2.1, https://taxii.fsisac.com/ctixapi/ctix21/taxii2/.
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient.
Username
Basic Authentication Username
Password
Basic Authentication Password
Verify SSL
Specifies whether the TAXII client should verify a provider's SSL certificate
Host CA Certificate Bundle
Used to specify a provider's CA Certificate Bundle to verify SSL against. This denotes that Verify SSL is True.
Additional Options
TLP Selection
Red, Amber, Green, and White (RAGW)
Select which TLP markings we should fetch from the FS-ISAC TAXII server. Collections contain specific TLP markings, so ensure that you select the correct TLP marking that corresponds with your access level. The RAGW collections will also contain the GW data, so if you have access to RAGW, you should select that option. If you do not have access to the RAGW TLP data, select the GW option.
Ingest Stix Patterns as Signatures
FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.
Set Indicator status to...
Review
Run Frequency
Every 24 Hours
Send a notification when this feed encounters issues.
Debug Option: Save the raw data response files.
We recommend leaving this disabled unless actively troubleshooting an issue because it utilizes a lot of disk space.
Save


FS-ISAC Automated Medium
Disabled
Enabled
Uninstall
Additional Information
Integration Type: Feed
Version: 1.1.0
Configuration
Activity Log
Overview
This feed provides access to the automated FS-ISAC Medium feed. You'll be able to pull either the RAGW or GW collection based on your TLP selection below.
If you run into authentication issues, ensure that you have access to the particular collection and TLP marking you are trying to pull. You may need to change the TLP Selection field based on your permission level. If you see the following error, it likely means you do not have access to the particular collection or TLP level you are trying to pull: "Could not find collection name/title using discovery services."
TAXII Configuration
TAXII Server Version
2.1
The version of the TAXII Server to poll for data.
Discovery Path URL
https://taxii.fsisac.com/ctixapi/ctix21/taxii2/
Path to the TAXII Server's Discovery Service. For TAXII 2.1, https://taxii.fsisac.com/ctixapi/ctix21/taxii2/.
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient.
Username
Basic Authentication Username
Password
Basic Authentication Password
Verify SSL
Specifies whether the TAXII client should verify a provider's SSL certificate
Host CA Certificate Bundle
Used to specify a provider's CA Certificate Bundle to verify SSL against. This denotes that Verify SSL is True.
Additional Options
TLP Selection
Red, Amber, Green, and White (RAGW)
Select which TLP markings we should fetch from the FS-ISAC TAXII server. Collections contain specific TLP markings, so ensure that you select the correct TLP marking that corresponds with your access level. The RAGW collections will also contain the GW data, so if you have access to RAGW, you should select that option. If you do not have access to the RAGW TLP data, select the GW option.
Ingest Stix Patterns as Signatures
FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.
Set Indicator status to...
Review
Run Frequency
Every 24 Hours
Send a notification when this feed encounters issues.
Debug Option: Save the raw data response files.
We recommend leaving this disabled unless actively troubleshooting an issue because it utilizes a lot of disk space.
Save


FS-ISAC Automated Low
Disabled
Enabled
Uninstall
Additional Information
Integration Type: Feed
Version: 1.1.0
Configuration
Activity Log
Overview
This feed provides access to the automated FS-ISAC Low feed. You'll be able to pull either the RAGW or GW collection based on your TLP selection below.
If you run into authentication issues, ensure that you have access to the particular collection and TLP marking you are trying to pull. You may need to change the TLP Selection field based on your permission level. If you see the following error, it likely means you do not have access to the particular collection or TLP level you are trying to pull: "Could not find collection name/title using discovery services."
TAXII Configuration
TAXII Server Version
2.1
The version of the TAXII Server to poll for data.
Discovery Path URL
https://taxii.fsisac.com/cttixapi/cttix21/taxii2/
Path to the TAXII Server's Discovery Service. For TAXII 2.1, https://taxii.fsisac.com/cttixapi/cttix21/taxii2/.
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient.
Username
Basic Authentication Username
Password
Basic Authentication Password
Verify SSL
Specifies whether the TAXII client should verify a provider's SSL certificate
Host CA Certificate Bundle
Used to specify a provider's CA Certificate Bundle to verify SSL against. This denotes that Verify SSL is True.
Additional Options
TLP Selection
Red, Amber, Green, and White (RAGW)
Select which TLP markings we should fetch from the FS-ISAC TAXII server. Collections contain specific TLP markings, so ensure that you select the correct TLP marking that corresponds with your access level. The RAGW collections will also contain the GW data, so if you have access to RAGW, you should select that option. If you do not have access to the RAGW TLP data, select the GW option.
Ingest Stix Patterns as Signatures
FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.
Set indicator status to...
Review
Run Frequency
Every 24 Hours
Send a notification when this feed encounters issues.
Debug Option: Save the raw data response files.
We recommend leaving this disabled unless actively troubleshooting an issue because it utilizes a lot of disk space.
Save

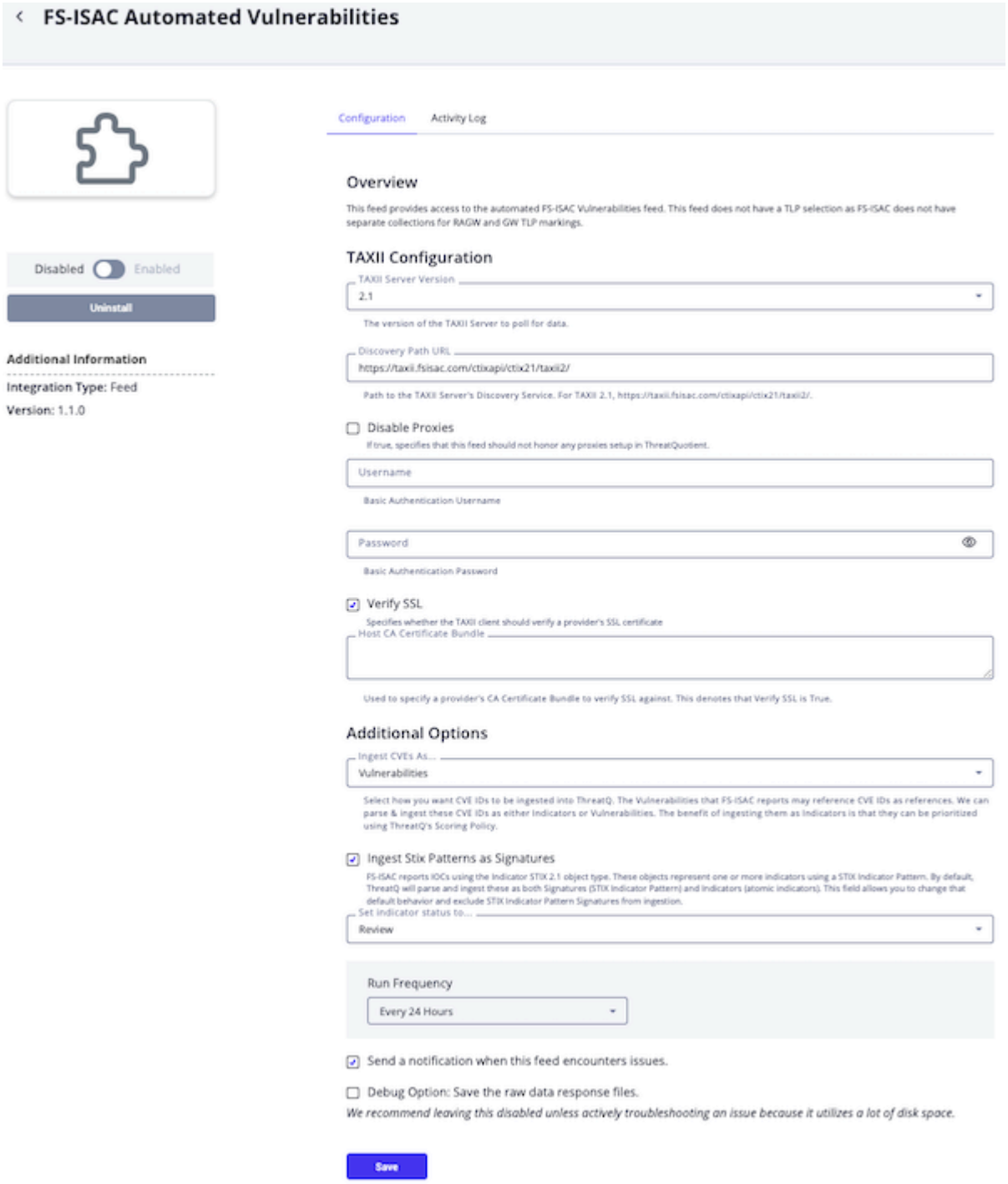


FS-ISAC Automated Vulnerabilities

PARAMETER	DESCRIPTION
TAXII Server Version	Select the server version to poll data.

PARAMETER	DESCRIPTION
Discovery Path URL	Enter the path to the TAXII Server's Discovery Service. Options include: ◦ **2.1** - `https://taxii.fsisac.com/ctixapi/ctix21/taxii2/` (default) ◦ **2.0** - `https://taxii.fsisac.com/ctixapi/ctix2/taxii/`
Collection Name	Enter the collection name to poll.
Disable Proxies	If enabled, the feed will not honor proxy settings set in ThreatQ.
Username	Enter your basic authentication username for FS-ISAC.
Password	Enter the password associated with the username above.
Verify SSL	Enable this parameter if the TAXII client should verify the provider's SSL certificate.
Host CA Certificate Bundle	Paste the certificate bundle in this field if you enabled the **Verify SSL** parameter.
Ingest CVEs As...	Select how you want CVE IDs to be ingested into ThreatQ. The Vulnerabilities that FS-ISAC reports may reference CVE IDs as references. We can parse and ingest these CVE IDs as either Indicators or Vulnerabilities. The benefit of ingesting them as Indicators is that they can be prioritized. • Indicators (Type: CVE) • Vulnerabilities (default)
Ingest Stix Patterns as Signatures	FS-ISAC reports IOCs using the Indicator STIX 2.1 object type. These objects represent one or more indicators using a STIX Indicator Pattern. By default, ThreatQ will parse and ingest these as both Signatures (STIX Indicator Pattern) and Indicators (atomic indicators). This field allows you to change that default behavior and exclude STIX Indicator Pattern Signatures from ingestion.

PARAMETER	DESCRIPTION
Set indicator status to...	Select the status to apply to indicators.



5. Review any additional settings, make any changes if needed, and click on **Save**.
6. Click on the toggle switch, located above the *Additional Information* section, to enable it.

ThreatQ Mapping

This integration ingests intelligence from the FS-ISAC TAXII server.

> The majority of the parsing & mapping of the data is handled by the ThreatQ's generic STIX parser. See the STIX 2.0 Data Mapping topic for further details.

In addition, `labels` containing links to other entities will be converted into their corresponding object relationships. For instance:

- `malware:Lokibot` -> A *Malware* object with the value, `Lokibot`
- `threat-actor:APT28` -> An *Adversary* object with the value, `APT28`
- `attack-pattern:T1059` -> An *Attack Pattern* object with the value, `T1001 - Data Obfuscation`

Average Feed Run

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

METRIC	RESULT
Run Time	1 minute
Indicators	17
Indicator Attributes	31
Adversaries	4
Malware	10

Known Issues / Limitations

- Regarding TLP, the FS-ISAC API may return objects outside of the selected TLP range (gw or ragw)
- You will need to create multiple feeds in order to ingest from multiple collections. This requires that you install multiple instances of this integration. To do this, you will need to modify both the feed `name` and `namespace` in the yaml file for each instance of the feed to avoid conflicts. These values must be unique.

  To generate a Unique ID for Namespace:

  1. Open up a terminal window.
  2. Enter the following command:

     ```
     uuidgen | tr "[A-Z]" "[a-z]"
     ```

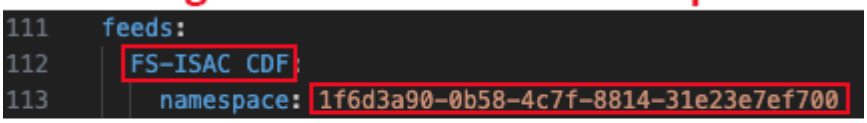
     Example Output:

     ```
     uuidgen | tr "[A-Z]" "[a-z]"
     b522dfcb-fe6c-4540-a8ed-76751d9bc8b0
     ```

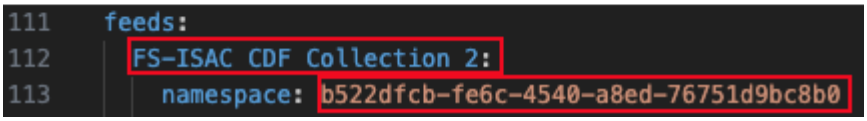
  3. Copy and paste that unique ID to use as the new **namespace**.
  4. Enter the new feed name.

     Example: FS-ISAC CDF > FS-ISAC CDF Collection 2

     Original Name and Namespace

     Updated Name and Namespace

  5. Save the yaml file and proceed with the standard CDF install steps described in this guide.

Change Log

- **Version 1.1.0**
  - Adds the ability to exclude STIX Indicator Pattern Signatures from ingestion
  - Adds standardized FS-ISAC feeds based on known available collections.
- **Version 1.0.2**
  - Resolved a `TypeError` that would occur with MITRE ATT&CK Patterns.
- **Version 1.0.1**
  - The integration will now appear under the Commercial category in ThreatQ Platform.
  - The internal name for the TAXII Server Version configuration field has been updated.
- **Version 1.0.0**
  - Initial release