MISP FEEDS - A SIMPLE AND SECURE APPROACH TO GENERATE, SELECT AND COLLECT INTELLIGENCE Providing ready-to-use threat intelligence in

CIRCL / TEAM MISP PROJECT TLP:WHITE

HTTP://WWW.MISP-PROJECT.ORG/ TWITTER: @MISPPROJECT

**NSPA** 

#### MISP Feeds provide a way to

- **Exchange information via any transports** (e.g. HTTP, TLS, USB keys)
- Preview events along with their attributes, objects
- Select and import events
- Correlate attributes using caching
- MISP Feeds have the following advantages
  - Feeds work without the need of MISP synchronisation (reducing attack surface and complexity to a static directory with the events)
  - Feeds can be produced without a MISP instance (e.g. security devices, honeypot sensors)

## **FEED - OVERVIEW**

By default, MISP is bundled with ~50 default feeds (MISP feeds, CSV or freetext feeds) which are not enabled by default and described in a simple JSON file<sup>1</sup>.

The feeds include CIRCL OSINT feed but also feeds like abuse.ch, Tor exit nodes or many more <sup>2</sup>.
Feeds

Crache all Reeds : Cache Needs CtCSV Reeds : Cache MSP Reeds: - providuis : next -															
Defau	ult feeds Enabled	Custom Feeds All Feed	Feed Format	Provider	łr	iput	Uri	Headers	Target Publis	h Delta Merge	Distribution	Tag	Lookup Visible	Caching	Actions
01	*	CIRCL OSINT Feed MSP	MISP Feed	CIRCL	n	etwork	https://www.circl.lu/doc/misp/feed-osint				All communities	CIRCL OSINT Feed	×	Age: 3m 🛓	Q () () () () () () () () () () () () ()
2	*	The Bohrij.eu Data MISP	MISP Feed	Botvrij.eu	n	etwork	http://www.botvrij.eu/data/feed-osint				All communities	FEED:KOEN	×	Not cached 📥	Q® & 1 🕯 🗛
18	×	InThreat OSINT Feed	MISP Feed	inThreat	n	etwork	https://leeds.inthreat.com/osint/misp/				Your organisation only	osint:source- type="block-or- filter-list"	×	Not cached	Q (C 🎚 🗅

<sup>1</sup>https://github.com/MISP/MISP/blob/2.4/app/files/feed-metadata/ defaults.json <sup>2</sup>http://www.misp-project.org/feeds/

## **FEED - OPERATIONS**



- Cache feed attributes for correlation (not imported but visible in MISP)
- Disable feed
- Explore remote events
- Fetch all events (imported in MISP as event)
- Edit the feed configuration (e.g. authentication, URL,...)
- Remove feed
- Download feed metadata (to share feed details)

feed generator fetches events (matching some filtering) from a MISP instance and construct the manifest (defined in *MISP core format*) needed to export data.

#### Particularly,

- Used to generate the CIRCL OSINT feed
- Export events as json based on tags, organisation, events, ...
- Automatically update the dumps and the metadata file
- Comparable to a lighweight **TAXII interface**

#### Feed generator - CONFIGURATION FILE

```
url = 'your/misp/url'
2 key = 'YourAPIKey'
_{3} ssl = True
4 outputdir = 'output_directory'
5
 |filters = {
      'tag':'tlp:white|feed-export|!privint'.
7
      'org':'CIRCL'
8
9
10 # the above would generate a feed for all events created by CIRCL,
       tagged tlp:white and/or feed-export but exclude anything
      tagged privint
11
12 valid_attribute_distribution_levels = ['0', '1', '2', '3', '4', '5
      1
13 # 0: Your Organisation Only
14 # 4: Sharing Group
15 # 5: Inherit Event
16
```

The PyMISP feed generator is great but may be inadequate or ineficient:

- Batch import of attributes/objects
- Data producer doesn't have a MISP instance at hand and only wants to produce a directly consumable feed:



## **Real-time FEED GENERATOR - USAGE**

- generator.py exposes a class allowing to generate a MISP feed in real-time
- Each items can be appended on daily generated events

Example:

```
1 # Init generator
2 generator = FeedGenerator()
3
4 # Adding an attribute to the daily event
5 attr_type = "ip-src"
6 attr_value = "8.8.8.8"
7 additional_data = {}
8 generator.add_attribute_to_event(attr_type,
9 attr_value,
10 **additional_data)
```

```
1 # Adding a MISP object (cowrie) to the daily event
2 obj_name = "cowrie"
3 obj_data = {
4 "session": "session_id",
5 "username": "admin",
6 "password": "admin",
7 "protocol": "telnet"
8 }
9 generator.add_object_to_event(obj_name, **obj_data)
```

#### ADDING CUSTOM FEED TO MISP

ist Feeds	Add MISP Feed									
dd Feed										
report Feeds from JSON	Add a new MISP feed source.									
eed overlap analysis matrix	Enabled									
sport Feed settings	Cookup Visible									
	Name									
	Feed name									
	Provider									
	Name of the content provider									
	Source Format									
	Network									
	Uri									
	URL of the feed									
	Source Format									
	MISP Feed									
	Any headers to be passed with requests (for example: Authorization)									
	Line break separated list of headers in the "headername: value" format									
	Add Basic Auth									
	Distribution									
	All communities									
	Default Tag									
	None									
	Filter rules:									
	Modify									
	Add									

t.

- Enabled
- Lookup visible
- Name
- Provider
- Source Format
- Url
- Source Format
- Headers
- Distribution
- Default Tag
- Filter rules

# Q&A



- https://github.com/MISP/PyMISP
- https://github.com/MISP/
- We welcome new functionalities and pull requests.